



PRECISION TECHNOLOGY SUPPLIES
Stainless Steel Industrial Fastenings & Precision Turned Parts

Product **eCatalogue**





ABOUT PRECISION TECHNOLOGY SUPPLIES



Precision Technology Supplies (PTS), established in 1988 is one of Europe's leading suppliers of Stainless Steel Metric and Unified (UNC/UNF) Industrial Fastenings.

PTS has continued to grow through investment in our product range and our reputation for providing quality products at competitive prices, with excellent service.

Through our extensive stocks, we aim to provide our clients with the complete range of Metric and Unified Stainless Steel Fasteners, offering next day delivery throughout the UK and a fast, reliable service to Europe & the rest of the world.

In 2015 PTS were appointed the UK distributor for the Bumax range of High Strength Stainless Fasteners.

PTS - your first choice for Stainless Steel Fasteners.

QUALITY

PTS have been quality certified to ISO standards by SGS since 1996. Our quality management team operate regular audits and reviews of our QMS system. All our products are batch controlled to ensure traceability back to our source. Our aim is to provide the best quality products to our customers.



STAINLESS STEEL MATERIAL PROPERTIES



Stainless steel

Stainless Steel falls into three basic material groups.

Austenitic (A)
Martensitic (M)
Ferritic (F)

Martensitic and Ferritic groups are rarely used for the production of commercial fasteners and are not included for that reason.

Austenitic or Chromium-nickel Steel is the most commonly used for fasteners and is subdivided into 3 steel grades each with its own specific properties.

A1 = Free cutting quality, superior machinability due to higher Phosphorus and Sulphur content, the general corrosion resistance is lower. Seldom used in mass produced fasteners.

A2 = Most commonly used grade of Stainless Steel also called 18/8. Outstanding corrosion resistance under normal atmospheric conditions, wet surroundings, oxidizing and organic acids and many alkalic and salt solutions.

A4 = Highest level of corrosion resistance also called "Acid Proof". Increased nickel content and the addition of molybdenum. More resistant to aggressive climates such as seawater (chlorides) and industrial (sulphur dioxide) climate and oxidizing acids.

Chemical composition

The wide limits for the percentages of the alloying elements in ISO3506 allow for a great choice of austenitic steel types. The following table lists some of the most popular types.

Grade	Chemical Composition % ¹⁾								Type			
	C	Si	Mn	P	S	Cr	Mo ⁸⁾	Ni	W.Nr	AISI	ISO	Notes
A1	0.12	1.0	2.0	0.20	0.15-0.35	17.0-19.0	0.60	8.0-10.0	1.4305	303	17	2, 3
A2	0.08	1.0	2.0	0.05	0.03	17.0-20.0		8.0-13.0	1.4301	304	11	3, 4, 6, 7
									1.4541	321	15	5
A4	0.08	1.0	2.0	0.05	0.03	16.0-18.5	2.0-	10.0-14.0	1.4401	316	20	3, 4, 6
							3.0		1.4571	316Ti	21	5

Notes: -

- 1) Maximum values unless stated otherwise.
- 2) Sulphur may be substituted by Selenium
- 3) May contain Titanium <5 x C up to 0.8%.
- 4) May contain Niobium and/or Tantalum > 10 x C up to 1.0%.
- 5) Containing Titanium >5 x C up to 0.8%.
- 6) May contain Copper up to 4.0%
- 7) Molybdenum may also be present at manufacturers option.
- 8) Maximum Molybdenum content may be specified by customer in certain applications.

CONTENTS

NUTS	Page VI >
WASHERS	Page VIII >
SOCKET SCREWS	Page X >
HEXAGONS	Page XI >
MACHINE SCREWS	Page XII >
SELF TAPPING SCREWS	Page XIV >
SCREWS FOR PLASTICS	Page XV >
SECURITY SCREWS	Page XVI >
SLOTTED GRUBSCREWS	Page XVII >
WOODSCREWS	Page XVIII >
PINS	Page XIX >
STUDS	Page XX >
CHIPBOARD SCREWS	Page XXI >
RETAINING RINGS	Page XXII >
SELF DRILLING	Page XXIII >
DRIVE BITS	Page XXIV >
RIVETS	Page XXV >
KNURLED FASTENERS	Page XXVI >
ALLIED PRODUCTS	Page XXVII >
PIPE PLUGS	Page XXVIII >
SHOULDER SCREWS	Page XXIX >
BUMAX	Page XXX >

NUTS



HEXAGON FULL NUTS

Click for
METRIC p112 INCH p360



HEXAGON THIN NUTS

Click for
METRIC p31 INCH p365



FINE THREAD HEXAGON FULL NUTS DIN 934

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METRIC p114



FINE THREAD HEXAGON THIN NUTS DIN 439

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METRIC p29



LEFT HAND THREAD HEXAGON FULL NUTS DIN 934

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LEFT HAND THREAD HEXAGON THIN NUTS DIN 439

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METRIC p30



NYLON INSERT NUTS

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METRIC p146 INCH p438



NYLON INSERT NUTS HIGH TYPE DIN 982

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METRIC p145



ALLMETAL SELF LOCKING NUTS ART.980

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SERRATED FLANGED NUTS

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METRIC p177 INCH p442



NON SERRATED FLANGED NUTS

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NYLON INSERT SERRATED FLANGE NUTS DIN 6926

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HEXAGON DOMED NUTS

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METRIC p154 INCH p443



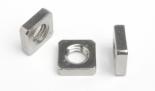
NYLON INSERT DOMED NUTS DIN 986

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METRIC p147



HEXAGON CAP NUTS DIN 917

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METRIC p94



SQUARE NUTS

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METRIC p56 INCH p367



CHAMFERED SQUARE NUTS DIN 557

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METRIC p55



WING NUTS

Click for
METRIC p23 INCH p445



SLOTTED ROUND NUTS DIN 546

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SELF LOCKING COUNTER (PAL) NUTS DIN 7967

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KNURLED THUMB NUTS HIGH TYPE DIN 466

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KNURLED THUMB NUTS THIN TYPE DIN 467

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LIFTING EYE NUTS (CAST) ART.582

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LIFTING EYE NUTS (DROP FORGED) ART.582

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LIFTING EYE BOLTS (CAST) ART.580

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NUTS continued



LIFTING EYE BOLTS (DROP FORGED) ART.580

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METRIC
p60




HEXAGON NUTS TYPE B, DIN 6330

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METRIC
p159



STUDDING CONNECTOR NUTS DIN 6334

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METRIC
p160



4 PRONG DRIVE IN NUTS FOR WOOD (TEE-NUT)

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METRIC
p239



CAGE NUTS

Click for
METRIC
p240



HEXAGON CASTLE NUTS DIN 935

Click for
METRIC
p116



HEXAGON CASTLE NUTS THIN TYPE DIN 937

Click for
METRIC
p117



HEXAGON WELD NUTS DIN 929

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METRIC
p99



SQUARE WELD NUTS DIN 928

Click for
METRIC
p98



NYLON INSERT NUTS THIN TYPE

Click for
INCH
p440



USA SMALL PATTERN HEXAGON NUTS

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INCH
p446



USA HEAVY HEXAGON FULL NUTS ANSI B18.2.2

Click for
INCH
p363



USA KEE NUTS

Click for
INCH
p447

WASHERS



FORM A FLAT WASHERS DIN 125

Click for
METRIC
p15



FORM B FLAT WASHERS BS4320

Click for
METRIC
p253



FORM C FLAT WASHERS BS4320

Click for
METRIC
p252



PENNY WASHERS

Click for
METRIC
p241



WOOD CONSTRUCTION WASHERS DIN 440R

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METRIC
p33



WOOD CONSTRUCTION WASHERS (SQUARE HOLE) DIN 440V

Click for
METRIC
p34



DIN 7349 HEAVY FLAT WASHERS

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METRIC
p180



RECTANGULAR SECTION SPRING WASHERS DIN 127B

Click for
METRIC
p17



SQUARE SECTION SPRING WASHERS DIN 7980

Click for
METRIC
p198



DIN 128A CURVED SPRING WASHERS

Click for
METRIC
p19



DIN 137A CURVED WASHERS

Click for
METRIC
p21



DIN 137B WAVE WASHERS

Click for
METRIC
p22



DIN 6796 CONICAL WASHERS

Click for
METRIC
p161



DIN 433 FLAT WASHERS

Click for
METRIC
p27



DIN 9021 FLAT WASHERS

Click for
METRIC
p237



ISO 7089 FLAT WASHERS 200HV

Click for
METRIC
p255



ISO 7090 CHAMFERED FLAT WASHERS 200HV

Click for
METRIC
p257



ISO 7093-1 LARGE SERIES FLAT WASHERS 200HV

Click for
METRIC
p259



DIN 988 SHIM WASHERS

Click for
METRIC
p148



LOCKING WASHER S TYPE

Click for
METRIC
p242



DISC SPRINGS DIN 2093

Click for
METRIC
p155



INTERNAL TOOTH WASHERS DIN 6797 J

Click for
METRIC
p164



EXTERNAL TOOTH WASHERS DIN 6797 A

Click for
METRIC
p162



INTERNAL TOOTH WASHERS DIN 6798 J

Click for
METRIC
p168



EXTERNAL TOOTH WASHERS DIN 6798 A

Click for
METRIC
p166

WASHERS continued



CRINKLE WASHERS BS4463

Click for
METRIC
p254



SOLID METAL FINISHING WASHERS (NF E 27-619)

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METRIC
p282



STAMPED METAL FINISHING WASHERS (NF E 27-619)

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METRIC
p283



BONDED SEALING WASHERS WITH GREY EPDM

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METRIC
p243



AFNOR SERRATED CONICAL SPRING WASHERS TYPE M (NF E 25-511)

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METRIC
p289



AFNOR FLAT WASHERS (NF E 25-514) TYPE Z

Click for
METRIC
p284



AFNOR FLAT WASHERS (NF E 25-514) TYPE M

Click for
METRIC
p285



AFNOR FLAT WASHERS (NF E 25-514) TYPE L

Click for
METRIC
p287



AFNOR FLAT WASHERS (NF E 25-514) TYPE LL

Click for
METRIC
p288



USA FLAT WASHERS ANSI B18.22.1

Click for
INCH
p368



USA SPRING WASHERS ANSI B18.21.1

Click for
INCH
p370



USA INTERNAL TOOTH WASHERS ANSI B18.21.1

Click for
INCH
p372



USA EXTERNAL TOOTH WASHERS ANSI B18.21.1

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INCH
p373



USA 800 SERIES FLAT WASHERS

Click for
INCH
p448

SOCKET SCREWS



SOCKET CAP SCREWS

Click for
METRIC p74 **INCH** p374



TX CAP SCREWS ISO 14579

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SOCKET CAP SCREWS WITH SERRATION DIN 912

Click for
METRIC p84



SOCKET BUTTON SCREWS

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METRIC p261 **INCH** p380



TX BUTTON SCREWS ISO 7380-1

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METRIC p263



FLANGED SOCKET BUTTONS ISO 7380-2

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METRIC p265




FLANGED TX BUTTONS ISO 7380-2

Click for
METRIC p267




LOW HEAD SOCKET CAP SCREWS

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METRIC p212 **INCH** p382



TX LOW HEAD CAP SCREWS ISO 14580

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LOW HEAD SOCKET CAP SCREWS DIN 6912

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METRIC p171



SOCKET COUNTERSUNK SCREWS

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METRIC p221 **INCH** p383



SOCKET SET SCREWS CUP POINT

Click for
METRIC p92 **INCH** p387



SOCKET SET SCREWS FLAT POINT

Click for
METRIC p85 **INCH** p391



SOCKET SET SCREWS CONE POINT

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METRIC p88 **INCH** p392



SOCKET SET SCREWS DOG POINT

Click for
METRIC p90 **INCH** p393

HEXAGONS



HEXAGON HEAD SET SCREWS

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METRIC p104 INCH p394




HEXAGON HEAD BOLTS

Click for
METRIC p100 INCH p398



CARRIAGE BOLTS FULL THREAD

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METRIC p63 INCH p402



CARRIAGE BOLTS

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METRIC p66 INCH p403



FLANGED HEXAGON BOLTS DIN 6921

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METRIC p173



SERRATED FLANGED HEXAGON BOLTS DIN 6921

Click for
METRIC p175



HEXAGON HEAD COACH SCREWS

Click for
METRIC p57 INCH p405



SLOTTED HEXAGON HEAD SET SCREW DIN 933SZ

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METRIC p110

MACHINE SCREWS



SLOT CHEESE MACHINE SCREWS DIN 84

Click for
METRIC
p3



SLOT PAN MACHINE SCREWS

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METRIC
p5

INCH
p407



SLOT PAN SHOULDER SCREWS
DIN 923

Click for
METRIC
p97



LARGE HEAD SLOT PAN
MACHINE SCREWS DIN 921

Click for
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p96



REDUCED HEAD SLOT PAN
MACHINE SCREWS DIN 920

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METRIC
p95



SLOT COUNTERSUNK MACHINE
SCREWS

Click for
METRIC
p122

INCH
p409



POZI PAN MACHINE SCREWS
DIN 7985 Z

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METRIC
p217



POZI COUNTERSUNK MACHINE
SCREWS DIN 965 Z

Click for
METRIC
p129



PHILLIPS PAN MACHINE
SCREWS

Click for
METRIC
p215

INCH
p413



PHILLIPS COUNTERSUNK
MACHINE SCREWS

Click for
METRIC
p126

INCH
p417



TX PAN MACHINE SCREWS

Click for
METRIC
p219

INCH
p452



TX COUNTERSUNK MACHINE
SCREWS

Click for
METRIC
p132

INCH
p453



POZI RAISED COUNTERSUNK
MACHINE SCREWS DIN 966 Z

Click for
METRIC
p136



SLOT RAISED COUNTERSUNK
MACHINE SCREWS

Click for
METRIC
p124

INCH
p421



PHILLIPS RAISED
COUNTERSUNK MACHINE
SCREWS

Click for
METRIC
p134

INCH
p422



TX RAISED COUNTERSUNK
MACHINE SCREWS DIN 966 TX

Click for
METRIC
p138



SLOT MUSHROOM MACHINE
SCREWS

Click for
METRIC
p280

INCH
p423



POZI PAN THREAD ROLLING
SCREWS DIN 7500C

Click for
METRIC
p181



POZI COUNTERSUNK THREAD
ROLLING SCREWS DIN 7500M

Click for
METRIC
p183



TX PAN THREAD ROLLING
SCREWS DIN 7500C TX

Click for
METRIC
p182



TX COUNTERSUNK THREAD
ROLLING SCREWS DIN 7500M
TX

Click for
METRIC
p184



WING SCREWS DIN 316

Click for
METRIC
p24



KNURLED THUMB SCREWS DIN
464

Click for
METRIC
p35



KNURLED THUMB SCREWS
WITH SLOT DIN 465

Click for
METRIC
p37



SLOTTED CAPSTAN SCREWS
DIN 404

Click for
METRIC
p25

MACHINE SCREWS continued



SLOT FILLISTER MACHINE
SCREWS ANSI B18.6.3

Click for

INCH
p424



SLOT BINDING MACHINE
SCREWS ANSI B18.6.3

Click for

INCH
p428



SLOT ROUND MACHINE
SCREWS ANSI B18.6.3

Click for

INCH
p430



PHILLIPS MUSHROOM
MACHINE SCREWS ANSI
B18.6.3

Click for

INCH
p432

SELF TAPPING SCREWS



POZI PAN AB SELF TAPPING SCREWS DIN 7981C Z

Click for
METRIC
p202



POZI PAN B SELF TAPPING SCREWS DIN 7981F Z

Click for
METRIC
p204



POZI COUNTERSUNK AB SELF TAPPING SCREWS DIN 7982C Z

Click for
METRIC
p206



POZI RAISED COUNTERSUNK AB SELF TAPPING SCREWS DIN 7983C Z

Click for
METRIC
p210



SLOT PAN AB SELF TAPPING SCREWS DIN 7971C

Click for
METRIC
p194



SLOT COUNTERSUNK AB SELF TAPPING SCREWS DIN 7972C

Click for
METRIC
p195



SLOT RAISED COUNTERSUNK AB SELF TAPPING SCREWS DIN 7973C

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METRIC
p196



PHILLIPS PAN AB SELF TAPPING SCREWS DIN 7981C H

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METRIC
p200



PHILLIPS COUNTERSUNK AB SELF TAPPING SCREWS DIN 7982C H

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METRIC
p205



PHILLIPS COUNTERSUNK B SELF TAPPING SCREWS DIN 7982F H

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METRIC
p208



PHILLIPS RAISED COUNTERSUNK AB SELF TAPPING SCREWS DIN 7983C H

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METRIC
p209



TX PAN AB SELF TAPPING SCREWS DIN 7981C TX

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p203



TX COUNTERSUNK AB SELF TAPPING SCREWS DIN 7982C TX

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METRIC
p207



TX RAISED COUNTERSUNK AB SELF TAPPING SCREWS DIN 7983C TX

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METRIC
p211



HEXAGON HEAD AB SELF TAPPING SCREWS DIN 7976C

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METRIC
p197



SOCKET CAP HEAD SELF TAPPING SCREWS

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METRIC
p244



ROUND HEAD HAMMER DRIVES ANSI B18.6.4

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INCH
p433

SCREWS FOR PLASTICS



POZI PAN POLYTECH 30

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p290




PHILLIPS PAN HEAD POLYTECH 30

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METRIC
p291



POZI COUNTERSUNK POLYTECH 30

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METRIC
p292



PHILLIPS COUNTERSUNK HEAD POLYTECH 30

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p293



TX PAN POLYTECH 30

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METRIC
p294



TX COUNTERSUNK POLYTECH 30

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METRIC
p295



POZI FLANGED POLYTECH 30

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METRIC
p296



TX FLANGED POLYTECH 30

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METRIC
p297



POZI PAN POLYFIX 45

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METRIC
p298



POZI COUNTERSUNK POLYFIX 45

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METRIC
p299



TX PAN POLYFIX 45

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METRIC
p300



TX COUNTERSUNK POLYFIX 45

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METRIC
p301



POZI FLANGED POLYFIX 45

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p302

SECURITY SCREWS



PIN TX BUTTON SCREWS

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METRIC p303 **INCH** p454




PIN TX COUNTERSUNK SCREWS

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METRIC p305 **INCH** p455




PIN TX RAISED COUNTERSUNK SCREWS

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METRIC p306




PIN TX BUTTON SELF TAPPING SCREWS

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METRIC p307



PIN TX COUNTERSUNK SELF TAPPING SCREWS

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METRIC p308



PIN TX BARREL NUTS

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METRIC p309



PIN HEX BUTTON SCREWS

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METRIC p310 **INCH** p456




PIN HEX COUNTERSUNK SCREWS

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METRIC p311 **INCH** p457




PIN HEX RAISED COUNTERSUNK SCREWS

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METRIC p312



PIN HEX BUTTON SELF TAPPING SCREWS

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PIN HEX COUNTERSUNK SELF TAPPING SCREWS

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2HOLE PAN SCREWS

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2HOLE COUNTERSUNK SCREWS

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METRIC p316




2HOLE RAISED COUNTERSUNK SCREWS

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METRIC p317



2HOLE PAN SELF TAPPING SCREWS

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METRIC p318



2HOLE COUNTERSUNK SELF TAPPING SCREWS

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SLOTTED GRUBSCREWS



SLOTTED SET SCREWS CUP
POINT DIN 438

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p28



SLOTTED SET SCREWS FLAT
POINT DIN 551

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METRIC
p51



SLOTTED SET SCREWS CONE
POINT DIN 553

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METRIC
p53



SLOTTED SET SCREWS PART
THREAD DIN 427

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METRIC
p26

WOODSCREWS



POZI COUNTERSUNK
WOODSCREWS DIN 7997 Z

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METRIC
p235



POZI RAISED COUNTERSUNK
WOODSCREWS DIN 7995 Z

Click for
METRIC
p224



POZI ROUND WOODSCREWS
DIN 7996 Z

Click for
METRIC
p234



SLOT COUNTERSUNK
WOODSCREWS DIN 97

Click for
METRIC
p13



SLOT RAISED COUNTERSUNK
WOODSCREWS DIN 95

Click for
METRIC
p9



SLOT ROUND WOODSCREWS
DIN 96

Click for
METRIC
p11



SQUARE DRIVE DECKING
SCREWS

Click for
METRIC
p245



TX MUSHROOM HEAD
WOODSCREWS

Click for
METRIC
p246



POZI RAISED COUNTERSUNK
WOODSCREWS DIN 7995
15MM SEALING WASHER

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METRIC
p226



POZI RAISED COUNTERSUNK
WOODSCREWS DIN 7995
20MM SEALING WASHER

Click for
METRIC
p228



POZI RAISED COUNTERSUNK
WOODSCREWS DIN 7995
25MM SEALING WASHER

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METRIC
p230



TX RAISED COUNTERSUNK
WOODSCREWS DIN 7995
20MM SEALING WASHER

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METRIC
p231



TX RAISED COUNTERSUNK
WOODSCREWS DIN 7995
25MM SEALING WASHER

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METRIC
p233



PINS



DOWEL PINS

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METRIC
p1

INCH
p434



SLOTTED SPRING PINS

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METRIC
p269

INCH
p436



FULL LENGTH TAPER GROOVED
PINS DIN 1471

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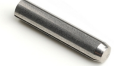
METRIC
p150



HALF LENGTH TAPER GROOVED
PINS DIN 1472

Click for

METRIC
p151



FULL LENGTH PARALLEL
GROOVED PINS DIN 1473

Click for

METRIC
p152



SPLIT PINS DIN 94

Click for

METRIC
p7

STUDS



THREADED ROD

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METRIC
p140

Click for
INCH
p450



THREADED STUDS DIN 976

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p142



**LEFT HAND THREADED ROD
DIN 975**

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p141



DOUBLE END STUDS DIN 938

Click for
METRIC
p118



DOUBLE END STUDS DIN 939

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p120



CHIPBOARD SCREWS



POZI COUNTERSUNK
CHIPBOARD SCREWS FULL
THREAD

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METRIC
p320



POZI COUNTERSUNK
CHIPBOARD SCREWS

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METRIC
p322



TX COUNTERSUNK CHIPBOARD
SCREWS FULL THREAD

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METRIC
p324



TX COUNTERSUNK CHIPBOARD
SCREWS

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METRIC
p325



TX COUNTERSUNK SELF DRILL
CHIPBOARD SCREWS

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METRIC
p327



POZI PAN CHIPBOARD SCREWS
FULL THREAD

Click for
METRIC
p328



TX PAN CHIPBOARD SCREWS
FULL THREAD

Click for
METRIC
p330



TX PAN CHIPBOARD SCREWS

Click for
METRIC
p331



POZI RAISED COUNTERSUNK
CHIPBOARD SCREWS FULL
THREAD

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METRIC
p332

RETAINING RINGS



E-CLIPS DIN 6799

Click for
METRIC
p170



INTERNAL CIRCLIPS DIN 472

Click for
METRIC
p46



EXTERNAL CIRCLIPS DIN 471

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METRIC
p43

SELF DRILLING



HEXAGON WASHER SELF DRILLING DIN 7504K

Click for
METRIC
p185



POZI PAN SELF DRILLING DIN 7504N Z

Click for
METRIC
p189



PHILLIPS PAN SELF DRILLING DIN 7504N H

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METRIC
p188



TX PAN SELF DRILLING DIN 7504N TX

Click for
METRIC
p187



POZI COUNTERSUNK SELF DRILLING DIN 7504P Z

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METRIC
p192



PHILLIPS COUNTERSUNK SELF DRILLING DIN 7504P H

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METRIC
p191



TX COUNTERSUNK SELF DRILLING DIN 7504P TX

Click for
METRIC
p190

DRIVE BITS



POZI

Click for
METRIC
p333



PHILLIPS

Click for
METRIC
p334



PIN TX

Click for
METRIC
p335



PIN HEX

Click for
METRIC
p337



SQUARE

Click for
METRIC
p336




2HOLE

Click for
METRIC
p338



PIN TX KEY WRENCH

Click for
METRIC
p340



PIN HEX KEY WRENCH

Click for
METRIC
p339

RIVETS



DOME RIVETS ISO 15983

Click for
METRIC
p276



COUNTERSUNK HEAD RIVETS
ISO 15984

Click for
METRIC
p278



SEALED DOME RIVETS ISO
16585

Click for
METRIC
p279



FLAT HEAD KNURLED INSERT
NUT

Click for
METRIC
p247



COUNTERSUNK KNURLED
INSERT NUT

Click for
METRIC
p248



REDUCED CSK KNURLED
INSERT NUT

Click for
METRIC
p249



FLAT HEAD HALF HEX INSERT
NUT

Click for
METRIC
p250



REDUCED CSK HALF HEX
INSERT NUT

Click for
METRIC
p251



ROUND HEAD SOLID RIVETS
DIN 660

Click for
METRIC
p69



COUNTERSUNK HEAD SOLID
RIVETS DIN 661

Click for
METRIC
p71

KNURLED FASTENERS



KNURLED THUMB SCREWS DIN
464

Click for
METRIC
p36



KNURLED THUMB SCREWS
WITH SLOT DIN 465

Click for
METRIC
p38



KNURLED THUMB NUTS HIGH
TYPE DIN 466

Click for
METRIC
p40



KNURLED THUMB NUTS THIN
TYPE DIN 467

Click for
METRIC
p42

ALLIED PRODUCTS



HOSE CLAMPS WORM GEAR
DRIVE DIN 3017

Click for
METRIC
p157

PIPE PLUGS



SOCKET PIPE PLUGS

Click for
METRIC
p72



SOCKET PIPE PLUGS WITH
COLLAR

Click for
METRIC
p73

SHOULDER SCREWS



SOCKET SHOULDER SCREWS

Click for


METRIC **INCH**
p341 p458



SLOTTED SHOULDER SCREWS

Click for

METRIC **INCH**
p345 p466



ULTRA LOW HEAD SLOTTED SHOULDER SCREWS

Click for


METRIC **INCH**
p346 p468



KNURLED SOCKET SHOULDER SCREWS

Click for


METRIC **INCH**
p342 p459



LOW HEAD SLOTTED SHOULDER SCREWS

Click for

INCH
p467



LOW HEAD SOCKET SHOULDER SCREWS

Click for

INCH
p463



ULTRA LOW HEAD SOCKET SHOULDER SCREWS

Click for

METRIC **INCH**
p344 p464



TX SHOULDER SCREWS

Click for

INCH
p465

BUMAX



BUMAX HEXAGON FULL NUTS

Click for

METRIC
p351

INCH
p471



BUMAX FLAT WASHERS 200HV

Click for

METRIC
p355

INCH
p472



BUMAX SOCKET CAP SCREWS

Click for

METRIC
p352

INCH
p473



BUMAX SOCKET
COUNTERSUNK SCREWS

Click for

METRIC
p356



BUMAX HEXAGON SET
SCREWS

Click for

METRIC
p349

INCH
p469



BUMAX HEXAGON BOLTS

Click for

METRIC
p347

INCH
p470



BUMAX TORX PAN MACHINE
SCREWS

Click for

METRIC
p359



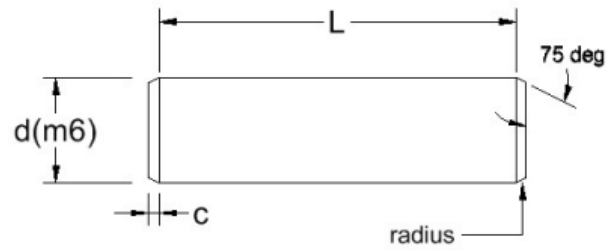
BUMAX TORX COUNTERSUNK
MACHINE SCREWS

Click for

METRIC
p358



DOWEL PINS DIN 7



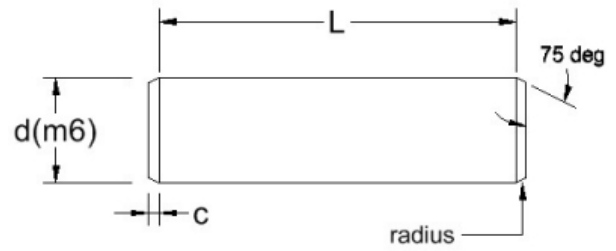
Material grades: A2: ● A4: ▲

c	0.15	0.23	0.3	0.4	0.45	0.6	0.75	0.9	1.2	1.5	1.8	2.5	3				
Length/dim	1.0	1.5	2.0	2.5	3.0	4.0	5.0	6.0	8.0	10	12	16	20				
3	●▲	●	●														
4	●▲	●▲	●▲	●▲	●▲												
5	●▲	●▲	●▲	●▲	●▲	●▲											
6	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
10	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●						
12	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
14	●▲	●▲	●▲	●▲	●▲	●▲		●▲	●▲	●▲	●▲						
16	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
18	●	▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
20	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
22							●▲										
24		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲		●				
26										●▲							
28		●▲	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲					
30					●			●▲	●▲	●▲							
32			●	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲					
36					●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲			
40					●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲			

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DOWEL PINS DIN 7

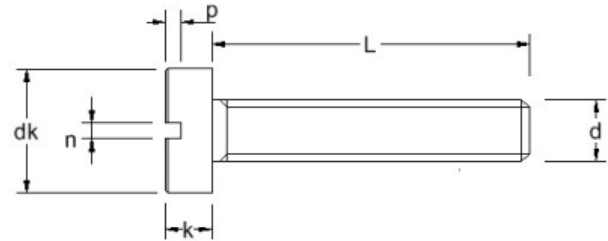


Material grades: A2: ● A4: ▲

c	0.15	0.23	0.3	0.4	0.45	0.6	0.75	0.9	1.2	1.5	1.8	2.5	3				
Length/dim	1.0	1.5	2.0	2.5	3.0	4.0	5.0	6.0	8.0	10	12	16	20				
45						● ▲	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲				
50						● ▲	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲				
55								● ▲	●	● ▲			●				
60						●		● ▲	● ▲	● ▲	● ▲	● ▲	● ▲				
70								● ▲	● ▲	● ▲	● ▲	● ▲	● ▲				
80								●	● ▲	● ▲	● ▲	● ▲	● ▲				
90									●	● ▲	● ▲	● ▲	● ▲				
100										● ▲	● ▲	● ▲	▲				
120												●					

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SLOT CHEESE MACHINE SCREWS DIN 84



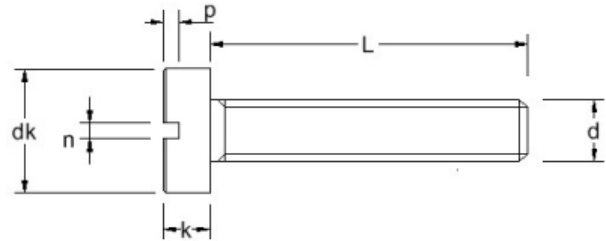
Material grades: A2: ● A4: ▲

dk	2.0	2.3	2.6	3.0	*	3.8	4.5	5.5	6.0	7.0	8.5	10	13	16			
k	0.7	0.8	0.9	1.0	*	1.3	1.6	2.0	2.4	2.6	3.3	3.9	5	6			
n	0.25	0.30	0.30	0.40	*	0.50	0.60	0.80	1.0	1.2	1.2	1.6	2.0	2.5			
Pitch	0.25	0.25	0.30	0.35	*	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.25	1.5			
p	0.25	0.30	0.40	0.45	*	0.60	0.70	0.85	1.0	1.1	1.3	1.6	2.0	2.4			
Length/dim	M1.0	M1.2	M1.4	M1.6	M1.7	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10			
2	●	●	●	●		●▲											
2.4		●															
3	●	●	●	●▲	●	●▲	●▲	●▲									
4	●	●	●	●▲	●	●▲	●▲	●▲		●▲							
5	●	●	●	●▲	●	●▲	●▲	●▲	●▲	●▲							
6	●	●	●	●▲		●▲	●▲	●▲	●▲	●▲	●▲	●▲					
8	●	●	●	●▲		●▲	●▲	●▲	●▲	●▲	●▲	●▲					
10	●	●	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
12	●	●	●	●▲		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
14				●▲		●▲	●▲	●▲		●▲	●▲	●▲	●▲				
16				●▲		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲			
18				●		●▲	●▲	●▲		●▲	●▲	●▲	●▲	●			
20				●		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲			
22						●▲	●▲	●▲		●▲	●	●▲	●▲				
25						●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲			

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SLOT CHEESE MACHINE SCREWS DIN 84

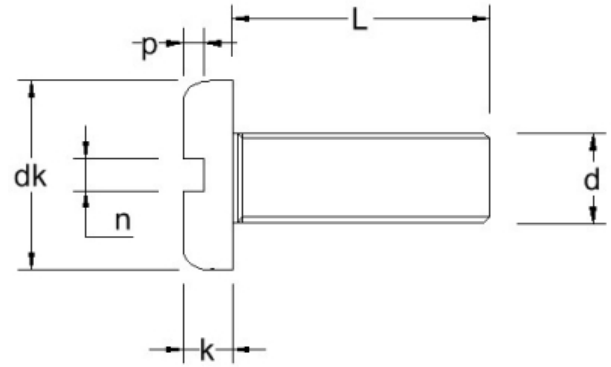


Material grades: A2: ● A4: ▲

dk	2.0	2.3	2.6	3.0	*	3.8	4.5	5.5	6.0	7.0	8.5	10	13	16			
k	0.7	0.8	0.9	1.0	*	1.3	1.6	2.0	2.4	2.6	3.3	3.9	5	6			
n	0.25	0.30	0.30	0.40	*	0.50	0.60	0.80	1.0	1.2	1.2	1.6	2.0	2.5			
Pitch	0.25	0.25	0.30	0.35	*	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.25	1.5			
p	0.25	0.30	0.40	0.45	*	0.60	0.70	0.85	1.0	1.1	1.3	1.6	2.0	2.4			
Length/dim	M1.0	M1.2	M1.4	M1.6	M1.7	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10			
28							●				●▲	●▲					
30						●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲			
35						●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲			
40						●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲			
45								●▲		●▲	●▲	●▲	●▲	●▲			
50								●▲		●▲	●▲	●▲	●▲	●▲			
55								●▲		●▲	●▲	●▲	●▲				
60								●▲		●▲	●▲	●▲	●▲	●▲			
65										●▲	●▲	●					
70										●▲	●▲	●▲	●▲	●▲			
75												●▲					
80										●▲	●▲	●▲	●▲	●▲			
85												●					
90										●▲	●▲	●▲	●▲	●▲			
100										●▲	●▲	●▲	●▲	●▲			

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SLOT PAN MACHINE SCREWS DIN 85



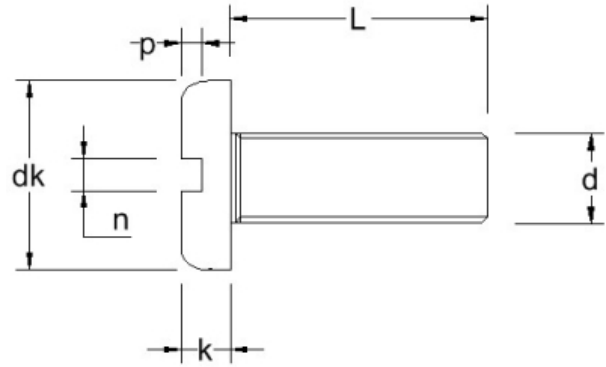
Material grades: A2: ● A4: ▲

dk (Max)	4.0	5.0	6.0	7.0	8.0	10	12	16	20									
k (Max)	1.3	1.5	1.8	2.0	2.4	3.0	3.6	4.8	6									
n	0.50	0.60	0.80	1.0	1.2	1.2	1.6	2.0	2.81									
Pitch	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.25	1.5									
p	0.40	0.50	0.70	1.0	1.0	1.2	1.4	1.9	2.4									
Length/dim	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10									
3	●▲	●▲	●▲															
4	●▲	●▲	●▲															
5	●▲	●▲	●▲	●▲	●▲													
6	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
10	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
12	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
14	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
16	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
18	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
20	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
22			●▲	●▲	●▲	●▲	●▲											
25	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
30	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
35			●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								

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SLOT PAN MACHINE SCREWS DIN 85

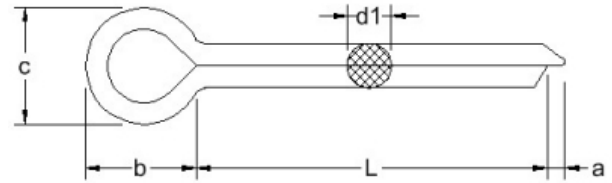


Material grades: A2: ● A4: ▲

dk (Max)	4.0	5.0	6.0	7.0	8.0	10	12	16	20									
k (Max)	1.3	1.5	1.8	2.0	2.4	3.0	3.6	4.8	6									
n	0.50	0.60	0.80	1.0	1.2	1.2	1.6	2.0	2.81									
Pitch	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.25	1.5									
p	0.40	0.50	0.70	1.0	1.0	1.2	1.4	1.9	2.4									
Length/dim	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10									
40			●▲	●▲	●▲	●▲	●▲	●▲	●▲									
45			●▲	●▲	●▲	●▲	●▲	●▲	●▲									
50			●▲	●▲	●▲	●▲	●▲	●▲	●▲									
55					●▲	●▲	●▲	●▲	●▲									
60					●▲	●▲	●▲	●▲	●▲									
65						●▲	●▲	●▲	●▲									
70						●▲	●▲	●▲	●▲									
75						●▲	●	●▲	●▲									
80						●▲	●▲	●▲	●▲									
90						●▲	●▲	●▲	●▲									
100						●▲	●▲	●▲	●▲									

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#)

SPLIT PINS DIN 94



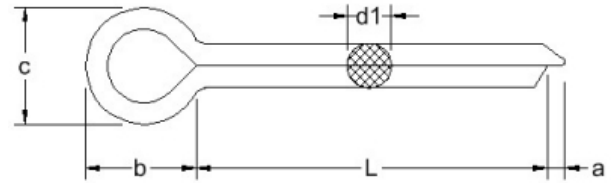
Material grades: A2: ● A4: ▲

	0.80-1.60	1.25-2.50	1.25-2.50	1.25-2.00	1.25-2.00	1.60-3.20	2.00-4.00	2.00-4.00	2.00-4.00	2.00-4.00	3.20-6.30	3.20-6.30				
a	0.80-1.60	1.25-2.50	1.25-2.50	1.25-2.00	1.25-2.00	1.60-3.20	2.00-4.00	2.00-4.00	2.00-4.00	2.00-4.00	3.20-6.30	3.20-6.30				
b	3	3	3.2	4	5	6.4	8	10	12.6	16	20	26				
c	1.60-1.80	1.70-2.00	2.40-2.80	3.20-3.60	4.00-4.60	5.10-5.80	6.50-7.40	8.00-9.20	10.30-11.80	13.10-15.00	16.60-19.00	21.70-24.80				
d1	0.8-0.9	0.9-1.0	1.3-1.4	1.7-1.8	2.1-2.3	2.7-2.9	3.5-3.7	4.4-4.6	5.7-5.9	7.3-7.5	9.3-9.5	12.1-12.4				
Length/dim	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.0	6.3	8.0	10	13				
6	●▲	●▲	●▲	●												
8	●▲	●▲	●▲	●▲												
10	●▲	●▲	●▲	●▲	●	●▲										
12	●▲	●▲	●▲	●▲	●▲	●▲										
16	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
18	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
20	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							
22	●▲	▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							
25	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							
28	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							
32	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●					
36	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●					
40	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●					
45	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲					
50			●	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
56						●▲	●▲	●▲	●▲	●▲	●▲					

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) 



SPLIT PINS DIN 94

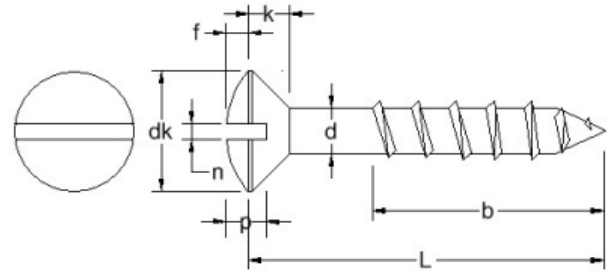


Material grades: A2: ● A4: ▲

	0.80-1.60	1.25-2.50	1.25-2.50	1.25-2.00	1.25-2.00	1.60-3.20	2.00-4.00	2.00-4.00	2.00-4.00	2.00-4.00	3.20-6.30	3.20-6.30				
a	0.80-1.60	1.25-2.50	1.25-2.50	1.25-2.00	1.25-2.00	1.60-3.20	2.00-4.00	2.00-4.00	2.00-4.00	2.00-4.00	3.20-6.30	3.20-6.30				
b	3	3	3.2	4	5	6.4	8	10	12.6	16	20	26				
c	1.60-1.80	1.70-2.00	2.40-2.80	3.20-3.60	4.00-4.60	5.10-5.80	6.50-7.40	8.00-9.20	10.30-11.80	13.10-15.00	16.60-19.00	21.70-24.80				
d1	0.8-0.9	0.9-1.0	1.3-1.4	1.7-1.8	2.1-2.3	2.7-2.9	3.5-3.7	4.4-4.6	5.7-5.9	7.3-7.5	9.3-9.5	12.1-12.4				
Length/dim	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.0	6.3	8.0	10	13				
63						●▲	●▲	●▲	●▲	●▲	●▲					
71						●	●▲	●▲	●▲	●▲	●▲					
80						●	●▲	●▲	●▲	●▲	●▲					
90							●▲	●▲	●▲	●▲	●▲	●▲				
100							●▲	●▲	●▲	●▲	●▲	●▲				
112									●▲	●▲	●▲	●▲				
125									●	●▲	●▲	●▲				
140										●▲	●▲	●▲				

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) >

SLOT RAISED COUNTERSUNK WOODSCREWS DIN 95



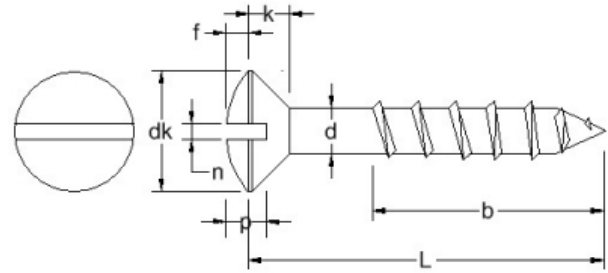
Material grades: A2: ● A4: ▲

b	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L									
dk	4.7	5.6	6.5	7.5	8.3	9.2	10.2	11									
f	0.6	0.75	0.9	1.0	1.1	1.25	1.4	1.5									
k	1.5	1.65	1.93	2.2	2.35	2.5	2.75	3									
n	0.6	0.8	0.8	1.0	1.0	1.2	1.2	1.6									
p (Max)	1.2	1.45	1.7	1.9	2.1	2.3	2.5	2.8									
Length/dim	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0									
10	●▲	●▲															
12	●▲	●▲	●▲	●▲													
16	●▲	●▲	●▲	●▲	●▲	●▲											
20	●▲	●▲	●▲	●▲	●▲	●▲	●	●▲									
25	●▲	●▲	●▲	●▲	●▲	●▲	●	●▲									
30		●▲	●▲	●▲	●▲	●▲	●	●▲									
35		●▲	●▲	●▲	●▲	●▲	●	●▲									
40		●▲	●▲	●▲	●▲	●▲	●	●▲									
45			●▲	●▲	●▲	●▲	●	●▲									
50			●▲	●▲	●▲	●▲	●	●▲									
55						●▲		●▲									
60				●▲	●▲	●▲	●	●▲									
65					●▲	●▲	●	●▲									
70				●▲	●▲	●▲	●	●▲									

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) 



SLOT RAISED COUNTERSUNK WOODSCREWS DIN 95

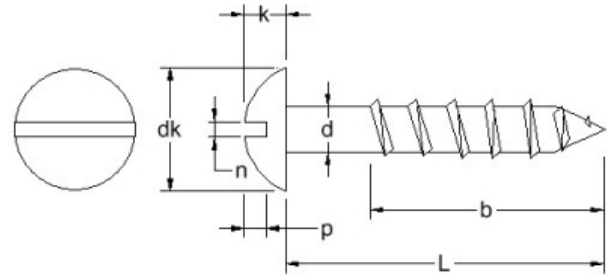


Material grades: A2: ● A4: ▲

b	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L									
dk	4.7	5.6	6.5	7.5	8.3	9.2	10.2	11									
f	0.6	0.75	0.9	1.0	1.1	1.25	1.4	1.5									
k	1.5	1.65	1.93	2.2	2.35	2.5	2.75	3									
n	0.6	0.8	0.8	1.0	1.0	1.2	1.2	1.6									
p (Max)	1.2	1.45	1.7	1.9	2.1	2.3	2.5	2.8									
Length/dim	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0									
75						●▲	●	●▲									
80						●▲	●	●▲									
90						●▲	●	●▲									
100						●▲	●	●									
110								●									
120								●									

CLICK HERE TO RETURN TO THE CONTENTS PAGE

SLOT ROUND WOODSCREWS DIN 96



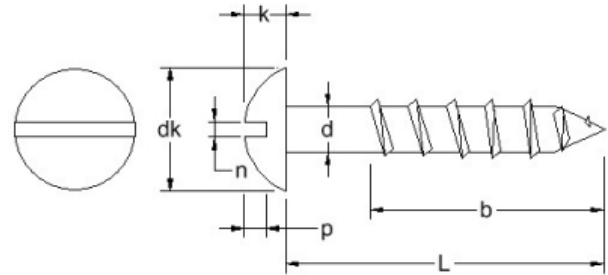
Material grades: A2: ● A4: ▲

b	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L									
dk	5	6	7	8	9	10	11	12									
k	1.7	2.1	2.4	2.8	3.1	3.5	3.8	4.2									
n	0.6	0.8	0.8	1.0	1.0	1.2	1.2	1.6									
p (Max)	1.1	1.35	1.6	1.8	2.0	2.3	2.5	2.7									
Length/dim	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0									
10	●▲	●▲															
12	●▲	●▲	●▲	●▲													
16	●▲	●▲	●▲	●▲	●▲	●▲											
20	●▲	●▲	●▲	●▲	●▲	●▲		●▲									
25	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
30		●▲	●▲	●▲	●▲	●▲	●▲	●▲									
35		●▲	●▲	●▲	●▲	●▲	●▲	●▲									
40		●▲	●▲	●▲	●▲	●▲	●▲	●▲									
45			●▲	●▲	●▲	●▲	●▲	●▲									
50			●▲	●▲	●▲	●▲	●▲	●▲									
55						●▲		●									
60				●▲	●▲	●▲	●▲	●▲									
65					●▲	●▲	●▲	●▲									
70				●▲	●▲	●▲	●▲	●▲									
75						●▲	●▲	●▲									

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) 



SLOT ROUND WOODSCREWS DIN 96

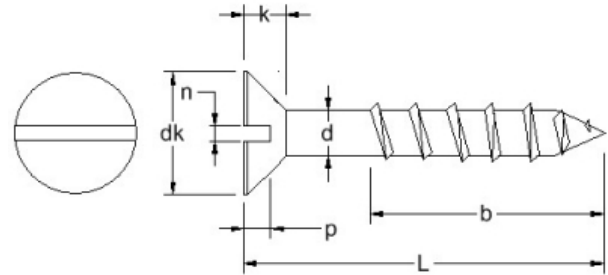


Material grades: A2: ● A4: ▲

b	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L									
dk	5	6	7	8	9	10	11	12									
k	1.7	2.1	2.4	2.8	3.1	3.5	3.8	4.2									
n	0.6	0.8	0.8	1.0	1.0	1.2	1.2	1.6									
p (Max)	1.1	1.35	1.6	1.8	2.0	2.3	2.5	2.7									
Length/dim	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0									
80						●▲	●	●▲									
90						●▲	●	●▲									
100						●▲	●	●▲									
110								●									
120								●									

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) >

SLOT COUNTERSUNK WOODSCREWS DIN 97



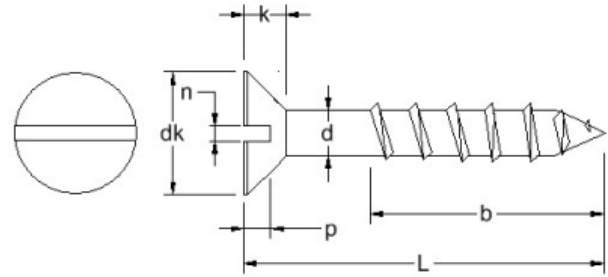
Material grades: A2: ● A4: ▲

b	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L								
dk	4.7	5.6	6.5	7.5	8.3	9.2	10.2	11	14.5								
k	1.5	1.65	1.93	2.2	2.35	2.5	2.75	3	4								
n	0.6	0.8	0.8	1.0	1.0	1.2	1.2	1.6	2.0								
p (Max)	0.7	0.85	1.0	1.1	1.2	1.3	1.4	1.6	2.1								
Length/dim	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	8.0								
10	●▲	●▲		●▲													
12	●▲	●▲	●▲	●▲													
16	●▲	●▲	●▲	●▲	●▲	●▲											
20	●▲	●▲	●▲	●▲	●▲	●▲	●	●▲									
25	●▲	●▲	●▲	●▲	●▲	●▲	●	●▲									
30		●▲	●▲	●▲	●▲	●▲	●	●▲	●▲								
35		●▲	●▲	●▲	●▲	●▲	●	●▲									
40		●▲	●▲	●▲	●▲	●▲	●	●▲	●▲								
45			●▲	●▲	●▲	●▲	●	●▲									
50			●▲	●▲	●▲	●▲	●	●▲	●▲								
60				●▲	●▲	●▲	●	●▲	●▲								
65						●▲	●	●▲									
70				●▲	●▲	●▲	●	●▲	●▲								
75						●▲	●										
80					●▲	●▲	●	●▲	●▲								

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) 



SLOT COUNTERSUNK WOODSCREWS DIN 97

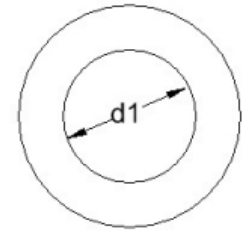
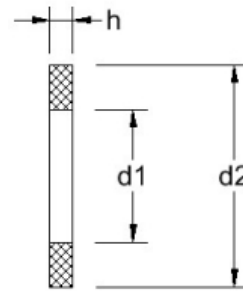


Material grades: A2: ● A4: ▲

b	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L									
dk	4.7	5.6	6.5	7.5	8.3	9.2	10.2	11	14.5									
k	1.5	1.65	1.93	2.2	2.35	2.5	2.75	3	4									
n	0.6	0.8	0.8	1.0	1.0	1.2	1.2	1.6	2.0									
p (Max)	0.7	0.85	1.0	1.1	1.2	1.3	1.4	1.6	2.1									
Length/dim	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	8.0									
90						●▲	●	●▲	●▲									
100						●▲	●	●▲	●▲									
110								●										
120								●										

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#)

FORM A FLAT WASHERS DIN 125



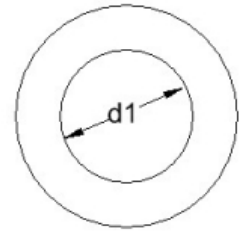
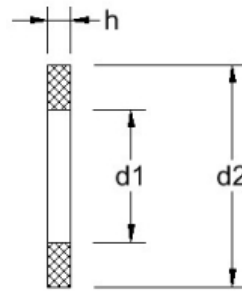
Material grades: A2: ● A4: ▲

d1	1.1	1.3	1.5	1.7	1.8	2.2	2.7	3.2	3.7	4.3	5.3	6.4	7.4	8.4	10.5	13	15
d2	3.2	3.8	3.8	4	4.5	5	6	7	8	9	10	12	14	16	20	24	28
h	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.8	1	1.6	1.6	1.6	2	2.5	2.5
Length/dim	M1	M1.2	M1.4	M1.6	M1.7	M2	M2.5	M3	M3.5	M4	M5	M6	M7	M8	M10	M12	M14
	●	●	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) >



FORM A FLAT WASHERS DIN 125

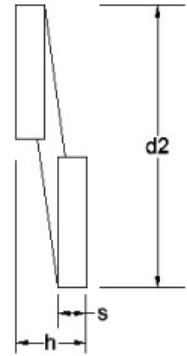
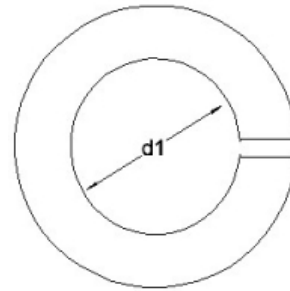


Material grades: A2: ● A4: ▲

d1	17	19	21	23	25	28	31	34	37	40	43	46	50	54	58		
d2	30	34	37	39	44	50	56	60	66	66	75	85	92	98	105		
h	3	3	3	3	4	4	4	5	5	6	7	7	8	8	9		
Length/dim	M16	M18	M20	M22	M24	M27	M30	M33	M36	M39	M42	M45	M48	M52	M56		
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲		

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#)

RECTANGULAR SECTION SPRING WASHERS DIN 127B



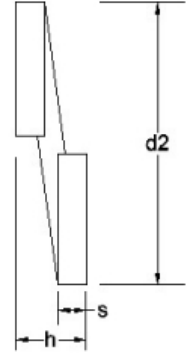
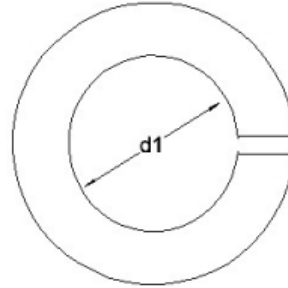
Material grades: A2: ● A4: ▲

d1 (Min)	*	2.1	2.6	2.7	3.1	3.6	4.1	5.1	6.1	7.1	8.1	10.2	12.2	14.2	16.2	18.2	20.2	
d2 (Max)	*	4.4	5.1	5.2	6.2	6.7	7.6	9.2	11.8	12.8	14.8	18.1	21.1	24.1	27.4	29.4	33.6	
h	*	1	1.2	1.2	1.6	1.6	1.8	2.4	3.2	3.2	4	4.4	5	6	7	7	8	
s	*	0.5	0.6	0.6	0.8	0.8	0.9	1.2	1.6	1.6	2	2.2	2.5	3	3.5	3.5	4	
Length/dim		M1.6	M2	M2.5	M2.6	M3	M3.5	M4	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20
		●▲	●▲	●▲	▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) 



RECTANGULAR SECTION SPRING WASHERS DIN 127B

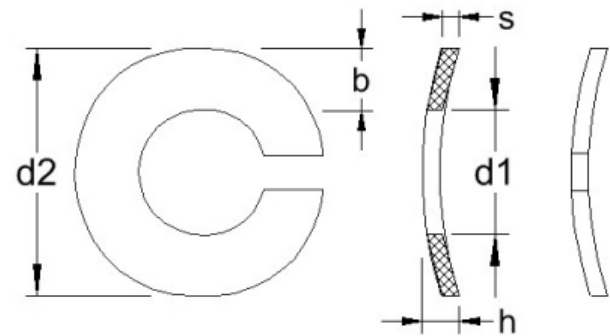


Material grades: A2: ● A4: ▲

d1 (Min)	22.5	24.5	27.5	30.5	33.5	36.5	39.5												
d2 (Max)	35.9	40	43	48.2	48.2	56	60												
h	8	10	10	12	12	12	12												
s	4	5	5	6	6	6	6												
Length/dim	M22	M24	M27	M30	M33	M36	M39												
	●▲	●▲	●▲	●▲	●▲	●▲	●▲												

CLICK HERE TO RETURN TO THE CONTENTS PAGE

DIN 128A CURVED SPRING WASHERS

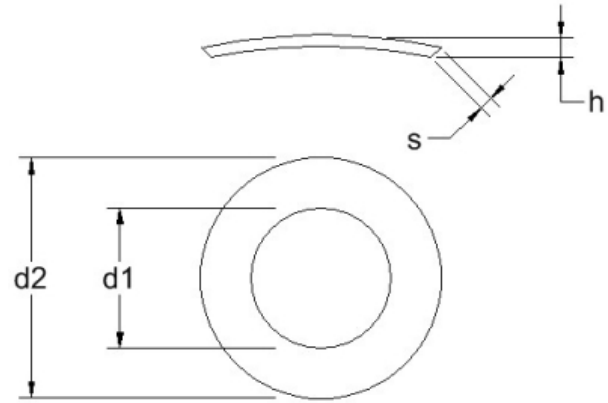


Material grades: A2: ● A4: ▲

b	0.9	0.9	1.0	1.0	1.3	1.3	1.5	1.8	2.5	3.0	3.5	4.0	4.5	5.0	5.0	6.0	6.0
d1 (Min)	2.1	2.4	2.6	2.7	3.1	3.6	4.1	5.1	6.1	8.1	10.2	12.2	14.2	16.2	18.2	20.2	22.5
d2 (Max)	4.4	4.9	5.1	5.2	6.2	6.7	7.6	9.2	11.8	14.8	18.1	21.1	24.1	27.4	29.4	33.6	35.9
h	0.70-0.90	0.90-1.10	0.90-1.10	0.90-1.10	1.10-1.30	1.10-1.30	1.20-1.40	1.50-1.70	2.00-2.20	2.45-2.75	2.85-3.15	3.35-3.65	3.90-4.30	4.50-5.10	4.50-5.10	5.10-5.90	5.10-5.90
s	0.5	0.6	0.6	0.6	0.7	0.7	0.8	1.0	1.3	1.6	1.8	2.1	2.4	2.8	2.8	3.2	3.2
Length/dim	M2	M2.3	M2.5	M2.6	M3	M3.5	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) >

DIN 137A CURVED WASHERS



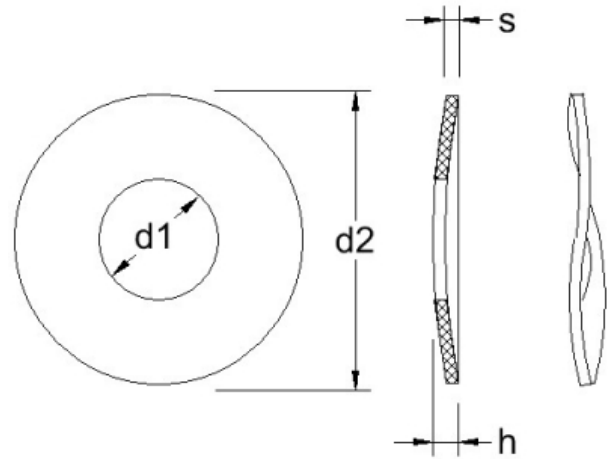
Material grades: A2: ●

d1	1.5	1.7	1.8	2.2	2.5	2.8	2.8	3.2	3.7	4.3	5.3	6.4	7.4	8.4	10.5		
d2	3.0	4.0	4	4.5	5	5.5	5.5	6	7	8	10	11	12	15	18		
h (Max)	0.7	0.9	0.9	1	1	1.1	1.1	1.3	1.4	1.6	1.8	2.2	2.4	3.4	4		
s	0.25	0.25	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.8		
Length/dim	M1.4	M1.6	M1.7	M2	M2.3	M2.5	M2.6	M3	M3.5	M4	M5	M6	M7	M8	M10		
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) 



DIN 137B WAVE WASHERS

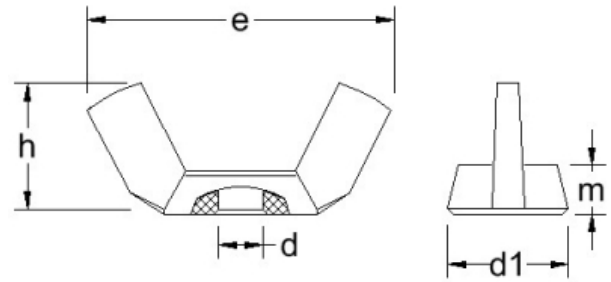


Material grades: A2: ● A4: ▲

d1	3.2	3.7	4.3	5.3	6.4	7.4	8.4	10.5	13	15	17	19	21	23	25	28	
d2	8	8	9	11	12	14	15	21	24	28	30	34	36	40	44	50	
h (Max)	1.6	1.8	2	2.2	2.6	3	3	4.2	5	6	6.4	6.6	7.4	7.8	8.2	9.4	
s	0.5	0.5	0.5	0.5	0.5	0.8	0.8	1	1.2	1.6	1.6	1.6	1.6	1.8	1.8	2.0	
Length/dim	M3	M3.5	M4	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	
	●▲	●	●▲	●▲	●▲	●	●▲	●	●	●	●	●	●	●	●	●	

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) >

WING NUTS DIN 315



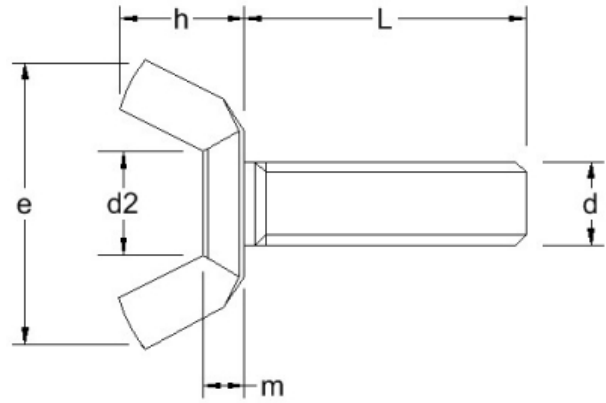
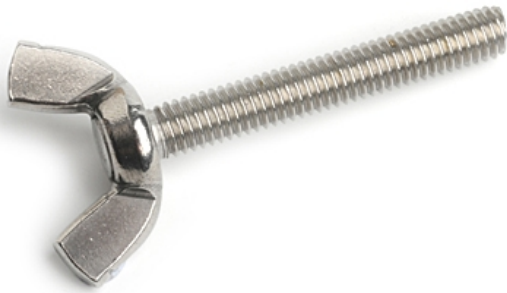
Material grades: A2: ● A4: ▲

d1	8.0	8.0	10.3	12.7	13.8	16.5	22.5	26.0	26.6	29.3	29.3						
e	17.6	17.6	22.5	27.8	30.3	36.2	49.4	52.7	58.3	66.5	66.5						
h	8.6	8.6	11	13.6	14.8	17.3	22.3	30.8	30.8	31.2	31.2						
m	2.9	2.9	4.1	5.1	5.6	6.8	9.0	10.0	10.7	12.2	12.2						
Pitch	0.50	0.70	0.80	1.00	1.25	1.50	1.75	2.00	2.00	2.50	2.50						
Length/dim	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20						
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) >



WING SCREWS DIN 316

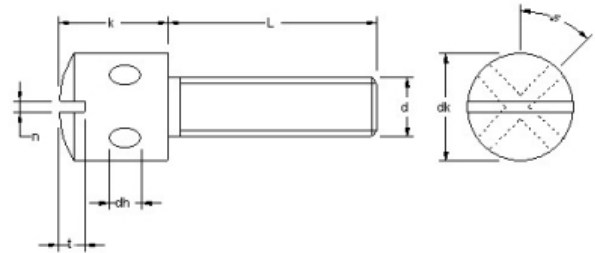


Material grades: A2: ● A4: ▲

d2	4.5	5.2	6.7	8.4	9.1	11													
e (Min)	15.3	17.6	22.5	27.8	30.3	36.2													
h	7.2	8.6	11	13.6	14.8	17.7													
m	2.4	2.9	4.1	5.1	5.6	6.8													
Pitch	0.50	0.70	0.80	1.00	1.25	1.50													
Length/dim	M3	M4	M5	M6	M8	M10													
10	●▲	●▲	●▲	●▲	●														
12	●▲	●▲	●▲	●▲	●														
16	●▲	●▲	●▲	●▲	●▲	●▲													
20	●▲	●▲	●▲	●▲	●▲	●▲													
25	●▲	●▲	●▲	●▲	●▲	●▲													
30	●▲	●▲	●▲	●▲	●▲	●▲													
35		●▲	●▲	●▲	●▲	●▲													
40		●▲	●▲	●▲	●▲	●▲													
45			●▲	●▲	●▲	●▲													
50			●▲	●▲	●▲	●▲													
55					●▲	●▲													
60					●▲	●▲													

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SLOTTED CAPSTAN SCREWS DIN 404



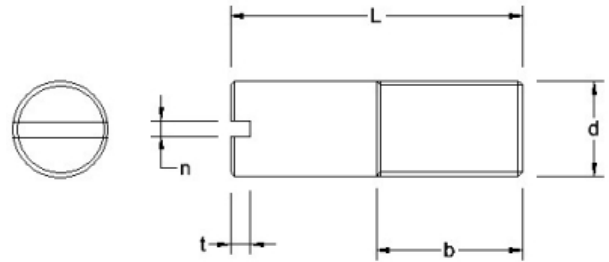
Material grades: A2: ●

dh	1.5	2.0	2.5	3.0															
dk	5.5	7.0	8.5	10.0															
k	4.0	5.0	6.5	8.0															
n	0.8	1.0	1.2	1.6															
Pitch	0.5	0.7	0.8	1.0															
t (Min)	1.0	1.4	1.7	2.2															
Length/dim	M3	M4	M5	M6															
4	●																		
5	●	●																	
6	●	●																	
8	●	●	●																
10	●	●	●	●															
12	●	●	●	●															
16	●	●	●	●															
20	●	●	●	●															
25		●	●	●															
30		●	●	●															

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SLOTTED SET SCREWS PART THREAD DIN 427

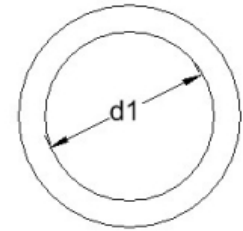
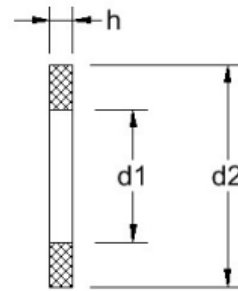


Material grades: A2: ● A4: ▲

	b	3.6	4.8	6.0	7.2	9.6	12.0											
n	0.4	0.6	0.8	1	1.2	1.6												
Pitch	0.5	0.7	0.8	1.0	1.25	1.5												
t	1.25-1.50	1.75-2.05	2.00-2.35	2.50-2.90	3.10-3.60	3.75-4.25												
Length/dim	M3	M4	M5	M6	M8	M10												
6	●▲																	
8	●▲	●▲	●▲															
10	●▲	●▲	●▲															
12	●▲	●▲	●▲	●▲														
16	●▲	●▲	●▲	●▲	●▲													
20	●▲	●▲	●▲	●▲	●▲	●▲												
25		●▲	●▲	●▲	●▲	●▲	●▲											
30		●▲	●▲	●▲	●▲	●▲	●▲											
35		●▲	●▲	●▲	●▲	●▲	●▲											
40		●▲	●▲	●▲	●▲	●▲	●▲											
45						●▲	●▲											
50						●▲	●▲											

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DIN 433 FLAT WASHERS



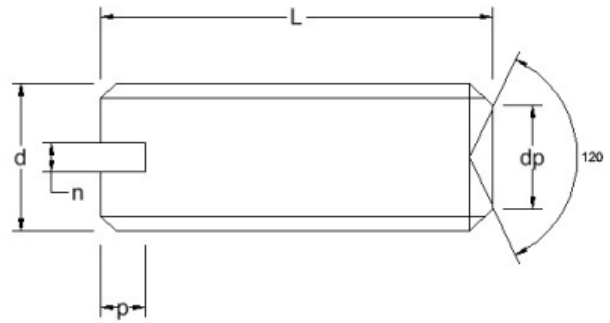
Material grades: A2: ● A4: ▲

d1	1.5	1.7	2.2	2.7	3.2	3.7	4.3	5.3	6.4	8.4	10.5	13	15	17	19	21		
d2	3	3.5	4.5	5	6	7	8	9	11	15	18	20	24	28	30	34		
h	0.3	0.3	0.3	0.5	0.5	0.5	0.5	1	1.6	1.6	1.6	2	2.5	2.5	2.5	3		
Length/dim	M1.4	M1.6	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20		
	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) 



SLOTTED SET SCREWS CUP POINT DIN 438

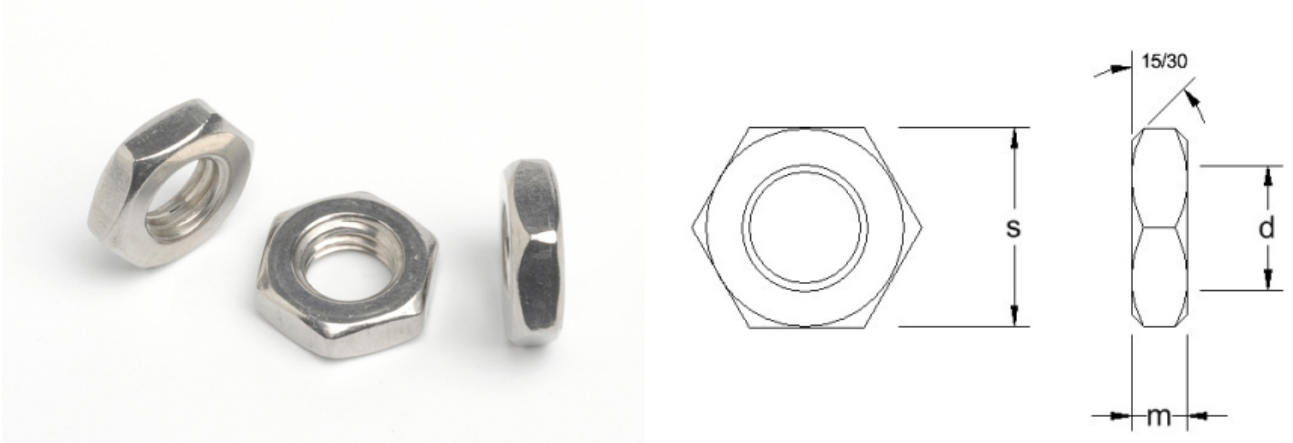


Material grades: A2: ●

dp (Max)	2	2.5	3	5															
n	0.6	0.8	1	1.2															
Pitch	0.7	0.8	1.0	1.25															
p	1.12	1.28	1.6	2															
Length/dim	M4	M5	M6	M8															
6	●		●																
8	●																		
10	●	●		●															
12	●			●															
16	●	●	●	●															
20	●	●		●															
25		●		●															
35				●															

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FINE THREAD HEXAGON THIN NUTS DIN 439



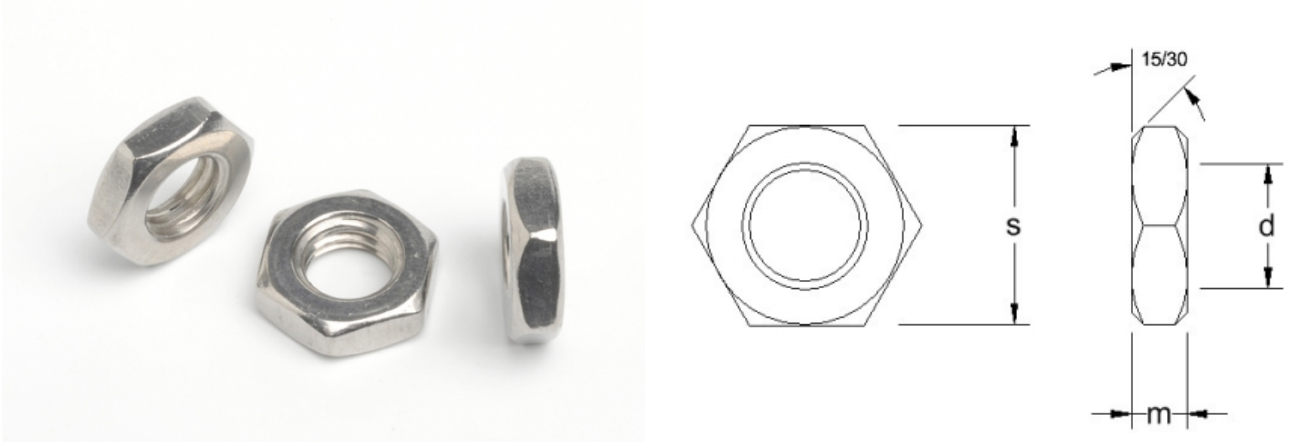
Material grades: A2: ● A4: ▲

m (Max)	4.0	5.0	6.0	7.0	8.0	9.0	10	11	12	13.5	15	16.5					
s (Max)	13	17	19	22	24	27	30	34	36	41	46	50					
Length/dim	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33					
0.75	● ▲																
1.0	● ▲	● ▲	● ▲		● ▲												
1.25		● ▲	● ▲														
1.5			● ▲	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲					
2.0							● ▲	● ▲	● ▲	● ▲	● ▲	● ▲					

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) ➤



LEFT HAND THREAD HEXAGON THIN NUTS DIN 439

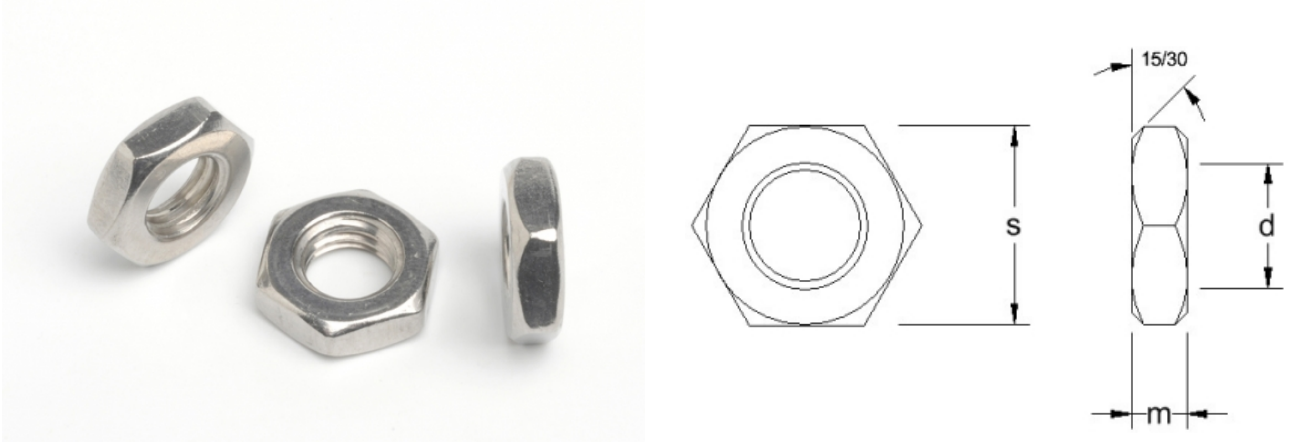


Material grades: A2: ● A4: ▲

m (Max)	3.2	4.0	5.0	6.0	8.0	10	12	15	18										
Pitch	1.00	1.25	1.50	1.75	2.00	3.00	3.00	3.50	4.00										
s (Max)	10	13	17	19	24	30	36	46	55										
Length/dim	M6	M8	M10	M12	M16	M20	M24	M30	M36										
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										

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HEXAGON THIN NUTS DIN 439



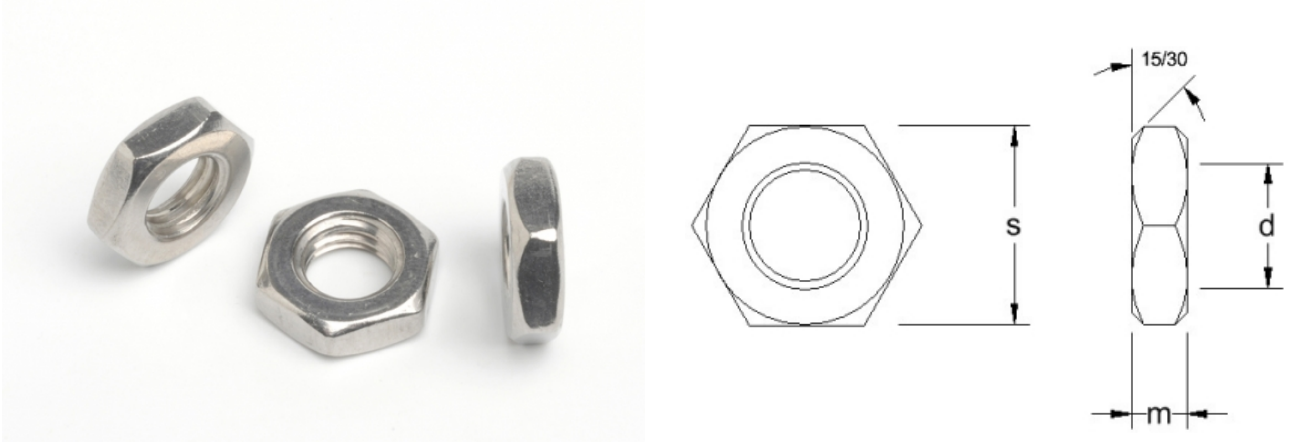
Material grades: A2: ● A4: ▲

m (Max)	1.0	1.2	*	1.6	*	1.8	2.0	2.2	2.7	3.2	4.0	5.0	6.0	7.0	8.0	9.0	10
Pitch	0.35	0.40	*	0.45	0.45	0.50	0.60	0.70	0.80	1.00	1.25	1.50	1.75	2.00	2.00	2.50	2.50
s	3.2	4.0	*	5.0	5.0	5.5	6.0	7.0	8.0	10	13	17	19	22	24	27	30
Length/dim	M1.6	M2	M2.3	M2.5	M2.6	M3	M3.5	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) >



HEXAGON THIN NUTS DIN 439

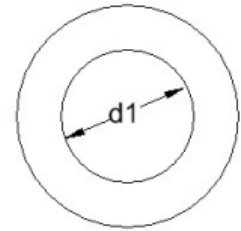
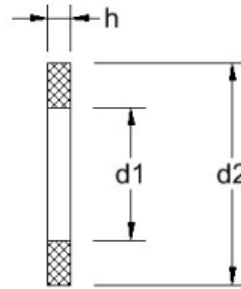


Material grades: A2: ● A4: ▲

m (Max)	11	12	13.5	15	16.5	18												
Pitch	2.50	3.00	3.00	3.50	3.50	4.00												
s	32	36	41	46	50	55												
Length/dim	M22	M24	M27	M30	M33	M36												
	●▲	●▲	●▲	●▲	●▲	●▲												

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WOOD CONSTRUCTION WASHERS DIN 440R



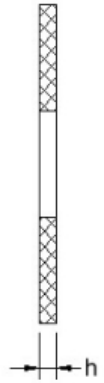
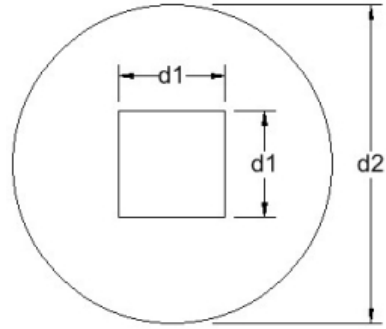
Material grades: A2: ● A4: ▲

d1	5.5	6.6	9	11	13.5	17.5	22	24	26	30										
d2	18	22	28	34	44	56	72	80	85	98										
h	2	2	3	3	4	5	6	6	6	6										
Length/dim	M5	M6	M8	M10	M12	M16	M20	M22	M24	M27										
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●										

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WOOD CONSTRUCTION WASHERS (SQUARE HOLE) DIN 440V

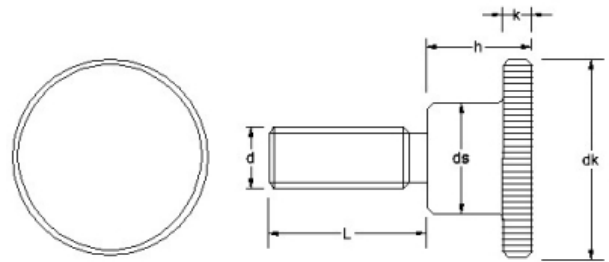


Material grades: A2: ● A4: ▲

d1	5.5	6.6	9	11	14	18	22	26										
d2	18	22	28	34	44	56	72	85										
h (Max)	2	2	3	3	4	5	6	6										
Length/dim	M5	M6	M8	M10	M12	M16	M20	M24										
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										

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KNURLED THUMB SCREWS DIN 464



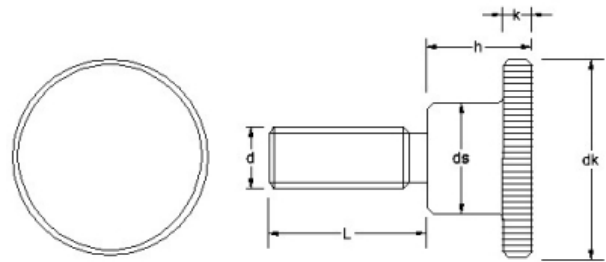
Material grades: A2: ●

dk	12	16	20	24	30	36													
ds	6	8	10	12	16	20													
h	7.5	9.5	11.5	15.0	18.0	23.0													
k	2.5	3.5	4.0	5.0	6.0	8.0													
Pitch	0.5	0.7	0.8	1.0	1.25	1.5													
Length/dim	M3	M4	M5	M6	M8	M10													
4	●																		
5	●	●																	
6	●	●	●																
8	●	●	●	●															
10	●	●	●	●															
12	●	●	●	●	●														
16	●	●	●	●	●														
20	●	●	●	●	●	●													
25		●	●	●	●	●	●												
30		●		●	●	●													

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KNURLED THUMB SCREWS DIN 464



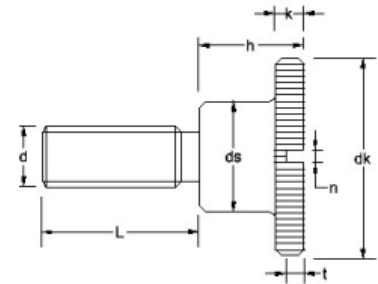
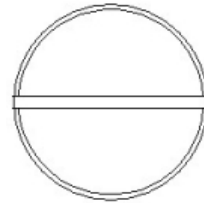
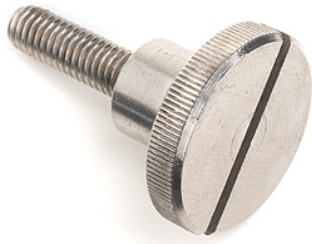
Material grades: A2: ●

dk	12	16	20	24	30	36													
ds	6	8	10	12	16	20													
h	7.5	9.5	11.5	15.0	18.0	23.0													
k	2.5	3.5	4.0	5.0	6.0	8.0													
Pitch	0.5	0.7	0.8	1.0	1.25	1.5													
Length/dim	M3	M4	M5	M6	M8	M10													
4	●																		
5	●	●																	
6	●	●	●																
8	●	●	●	●															
10	●	●	●	●															
12	●	●	●	●	●														
16	●	●	●	●	●														
20	●	●	●	●	●	●													
25		●	●	●	●	●													
30		●		●	●	●													

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#)



KNURLED THUMB SCREWS WITH SLOT DIN 465



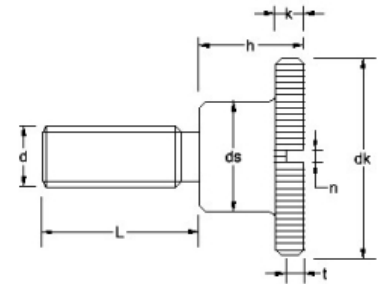
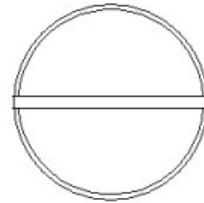
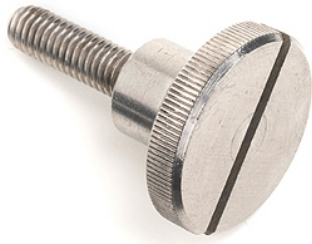
Material grades: A2: ●

dk	12	16	20	24															
ds	6	8	10	12															
h	7.5	9.5	11.5	15.0															
k	2.5	3.5	4.0	5.0															
n	0.8	1.0	1.2	1.6															
Pitch	0.5	0.7	0.8	1.0															
t (Min)	1.8	2.2	2.8	3.5															
Length/dim	M3	M4	M5	M6															
6	●	●	●																
8	●	●	●																
10	●	●	●	●															
12	●	●	●	●															
16	●	●	●	●															
20	●	●	●	●															

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KNURLED THUMB SCREWS WITH SLOT DIN 465

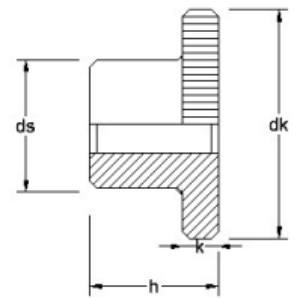
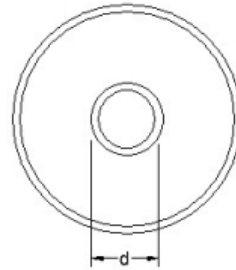


Material grades: A2: ●

dk	12	16	20	24															
ds	6	8	10	12															
h	7.5	9.5	11.5	15.0															
k	2.5	3.5	4.0	5.0															
n	0.8	1.0	1.2	1.6															
Pitch	0.5	0.7	0.8	1.0															
t (Min)	1.8	2.2	2.8	3.5															
Length/dim	M3	M4	M5	M6															
6	●	●	●																
8	●	●	●																
10	●	●	●	●															
12	●	●	●	●															
16	●	●	●	●															
20	●	●	●	●															

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KNURLED THUMB NUTS HIGH TYPE DIN 466



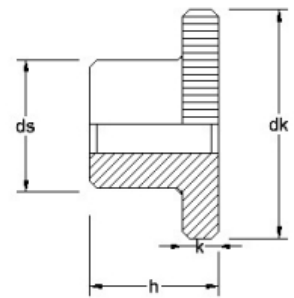
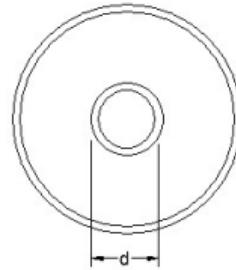
Material grades: A2: ●

dk	9	11	12	16	20	24	30	36										
ds	4.5	5	6	8	10	12	16	20										
h	5.3	6.5	7.5	9.5	11.5	15.0	18.0	23.0										
k	2.0	2.5	2.5	3.5	4.0	5.0	6.0	8.0										
Pitch	0.40	0.45	0.50	0.70	0.80	1.00	1.25	1.50										
Length/dim	M2	M2.5	M3	M4	M5	M6	M8	M10										
	●	●	●	●	●	●	●	●										

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KNURLED THUMB NUTS HIGH TYPE DIN 466

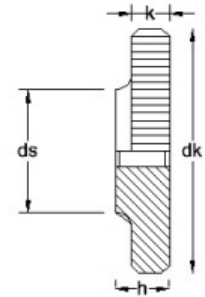
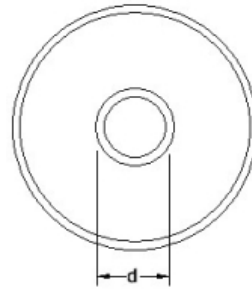


Material grades: A2: ●

dk	9	11	12	16	20	24	30	36										
ds	4.5	5	6	8	10	12	16	20										
h	5.3	6.5	7.5	9.5	11.5	15.0	18.0	23.0										
k	2.0	2.5	2.5	3.5	4.0	5.0	6.0	8.0										
Pitch	0.40	0.45	0.50	0.70	0.80	1.00	1.25	1.50										
Length/dim	M2	M2.5	M3	M4	M5	M6	M8	M10										
	●	●	●	●	●	●	●	●										

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KNURLED THUMB NUTS THIN TYPE DIN 467



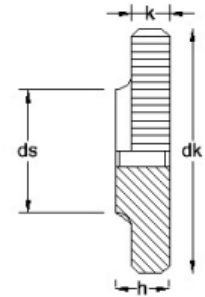
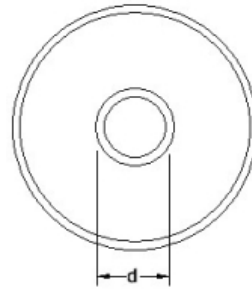
Material grades: A2: ●

dk	11	12	16	20	24	30	36										
ds	5	6	8	10	12	16	20										
h	3	3	4	5	6	8	10										
k	2.5	2.5	3.5	4.0	5.0	6.0	8.0										
Pitch	0.45	0.50	0.70	0.80	1.00	1.25	1.50										
Length/dim	M2.5	M3	M4	M5	M6	M8	M10										
	●	●	●	●	●	●	●										

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) 



KNURLED THUMB NUTS THIN TYPE DIN 467

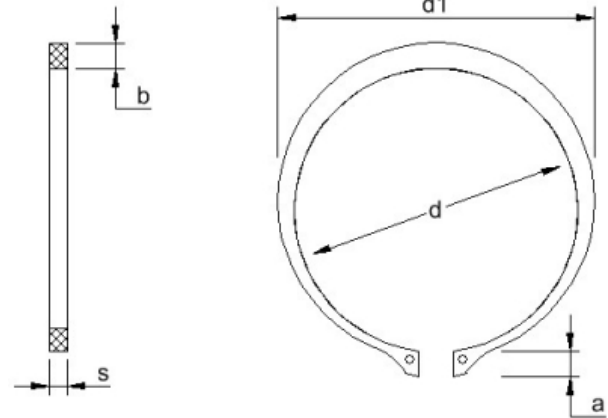


Material grades: A2: ●

dk	11	12	16	20	24	30	36											
ds	5	6	8	10	12	16	20											
h	3	3	4	5	6	8	10											
k	2.5	2.5	3.5	4.0	5.0	6.0	8.0											
Pitch	0.45	0.50	0.70	0.80	1.00	1.25	1.50											
Length/dim	M2.5	M3	M4	M5	M6	M8	M10											
	●	●	●	●	●	●	●											

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EXTERNAL CIRCLIPS DIN 471



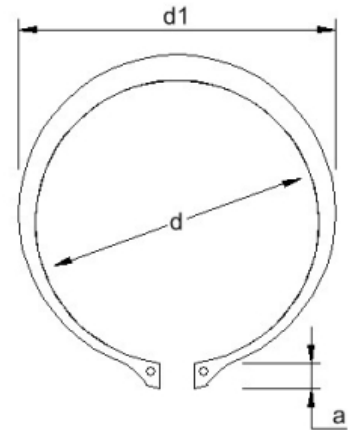
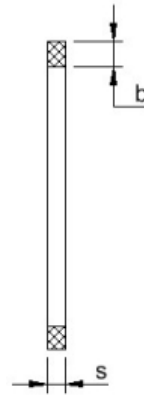
Material grades: A2: ●

a (Max)	1.9	2.2	2.5	2.7	3.1	3.2	3.3	3.3	3.3	3.3	3.4	3.5	3.6	3.7	3.8	3.9	3.9
b	0.8	0.9	1.1	1.3	1.4	1.5	1.7	1.8	1.8	1.8	1.9	2.1	2.2	2.2	2.3	2.5	2.5
d	2.7	3.7	4.7	5.6	6.5	7.4	8.4	9.3	10.2	11	11.9	12.9	13.8	14.7	15.7	16.5	17.5
s	0.4	0.4	0.6	0.7	0.8	0.8	1	1	1	1	1	1	1	1	1	1.2	1.2
Length/dim	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) 



EXTERNAL CIRCLIPS DIN 471

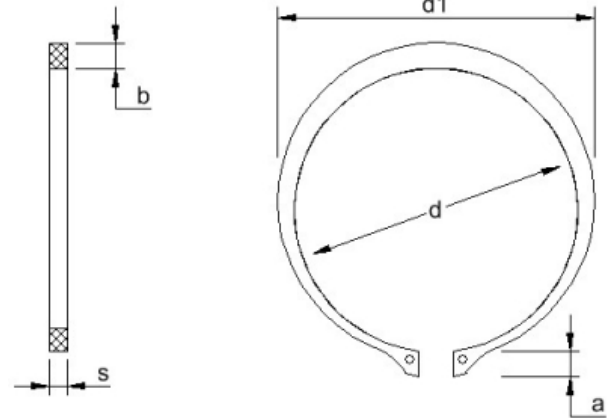


Material grades: A2: ●

a (Max)	4	4.1	4.2	4.3	4.4	4.4	4.4	4.6	4.7	4.8	5	5.2	5.4	5.6	5.6	5.8	5.9
b	2.6	2.7	2.8	2.9	3	3	3.1	3.1	3.2	3.4	3.5	3.6	3.8	3.9	4	4.2	4.3
d	18.5	19.5	20.5	21.4	22.2	23.2	24.2	25.1	25.9	26.9	27.9	29.6	31.5	32.2	33.2	35.2	36
s	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.75	1.75	1.75
Length/dim	20	21	22	23	24	25	26	27	28	29	30	32	34	35	36	38	39
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

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EXTERNAL CIRCLIPS DIN 471



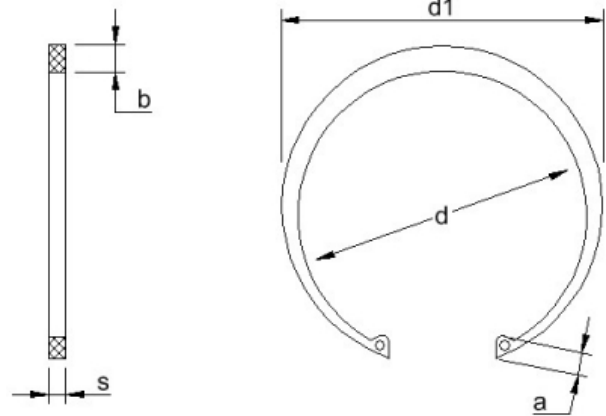
Material grades: A2: ●

a (Max)	6	6.5	6.7	6.9	6.9	7	7.2	7.4	7.8	8.1	8.4	8.6	8.7	8.8	9.4	9.6	
b	4.4	4.5	4.7	5	5.1	5.2	5.4	5.8	6.3	6.6	7.0	7.4	7.8	8.2	8.6	9.0	
d	36.5	38.5	41.5	44.5	45.8	47.8	50.8	55.8	60.8	65.5	70.5	74.5	79.5	84.5	89.5	94.5	
s	1.75	1.75	1.75	1.75	2	2	2	2	2.5	2.5	2.5	2.5	3	3	3	3	
Length/dim	40	42	45	48	50	52	55	60	65	70	75	80	85	90	95	100	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

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INTERNAL CIRCLIPS DIN 472

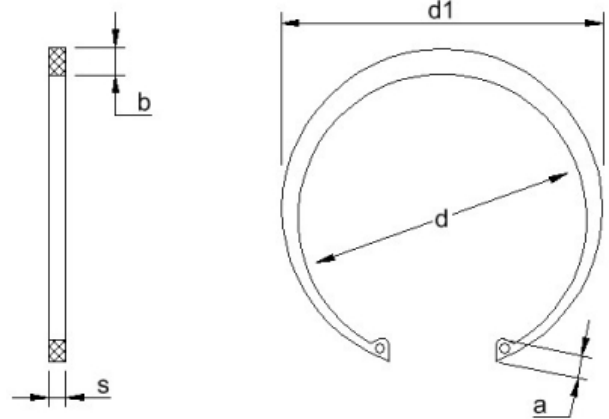


Material grades: A2: ●

a (Max)	2.4	2.5	3.2	3.3	3.4	3.6	3.7	3.7	3.8	3.9	4.1	4.1	4.2	4.2	4.2	4.3	4.4
b	1.1	1.3	1.4	1.5	1.7	1.8	1.9	2	2	2.1	2.2	2.2	2.3	2.5	2.5	2.5	2.6
d1	8.7	9.8	10.8	11.8	13	14.1	15.1	16.2	17.3	18.3	19.5	20.5	21.5	22.5	23.5	24.6	25.9
s	0.8	0.8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2
Length/dim	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

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INTERNAL CIRCLIPS DIN 472



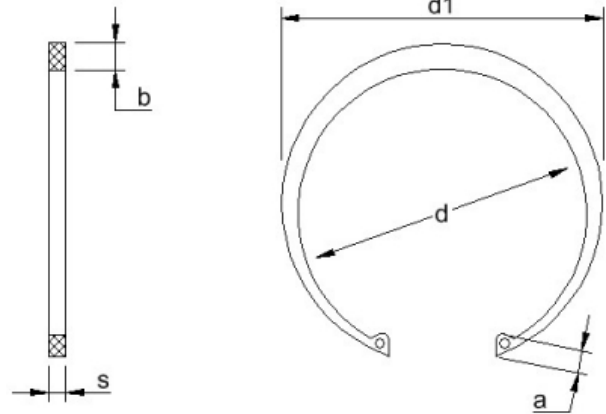
Material grades: A2: ●

a (Max)	4.5	4.7	4.7	4.8	4.8	4.8	5.2	5.4	5.4	5.4	5.4	5.4	5.5	5.5	5.6	5.8	5.9
b	2.7	2.8	2.8	2.9	3.0	3.0	3.2	3.2	3.3	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
d1	26.9	27.9	28.9	30.1	31.1	32.1	33.4	34.4	35.5	36.5	37.8	38.8	39.8	40.8	42	43.5	44.5
s	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.75	1.75
Length/dim	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

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INTERNAL CIRCLIPS DIN 472

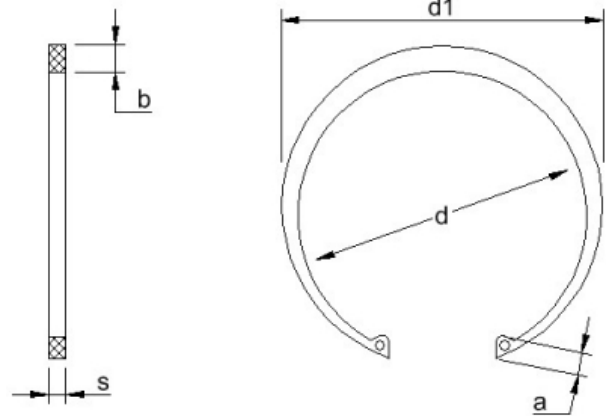


Material grades: A2: ●

a (Max)	5.9	5.9	6.0	6.2	6.4	6.4	6.5	6.7	6.8	6.9	7.3	7.3	7.6	7.8	7.8	7.8	7.8
b	4.1	4.2	4.2	4.3	4.4	4.5	4.6	4.7	5	5.2	5.4	5.5	5.8	6.1	6.2	6.4	6.6
d1	45.5	46.5	47.5	48.5	50.5	51.5	54.2	56.2	59.2	62.2	64.2	66.2	69.2	72.5	74.5	76.5	79.5
s	1.75	1.75	1.75	1.75	1.75	1.75	2	2	2	2	2	2	2.5	2.5	2.5	2.5	2.5
Length/dim	42	43	44	45	47	48	50	52	55	58	60	62	65	68	70	72	75
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

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INTERNAL CIRCLIPS DIN 472



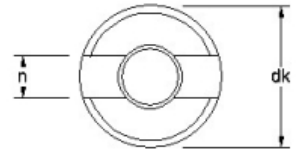
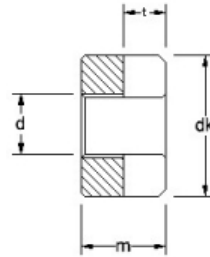
Material grades: A2: ●

a (Max)	8.5	8.6	8.6	8.8	9.2														
b	7.0	7.2	7.6	8.1	8.7														
d1	85.5	90.5	95.5	100.5	105.5														
s	2.5	3	3	3	3														
Length/dim	80	85	90	95	100	105	110	120	130	140	150								
	●	●	●	●	●	●	●	●	●	●	●								

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SLOTTED ROUND NUTS DIN 546

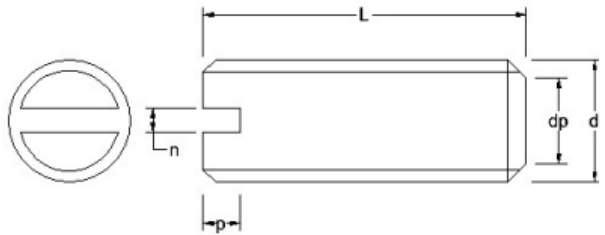


Material grades: A2: ● A4: ▲

dk	4.5	5.5	6.0	8.0	9.0	11.0	14.0	18.0	21.0	26.0									
m	2.0	2.2	2.5	3.5	4.2	5.0	6.5	8.0	10.0	12.0									
n	1.0	1.2	1.2	1.4	2.0	2.5	3.0	3.5	4.0	4.0									
Pitch	0.40	0.45	0.50	0.70	0.80	1.00	1.25	1.50	1.75	2.00									
t (Min)	0.8	0.9	1.0	1.2	1.5	2.0	2.5	3.2	3.8	3.8									
Length/dim	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M16									
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	▲	▲									

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SLOTTED SET SCREWS FLAT POINT DIN 551



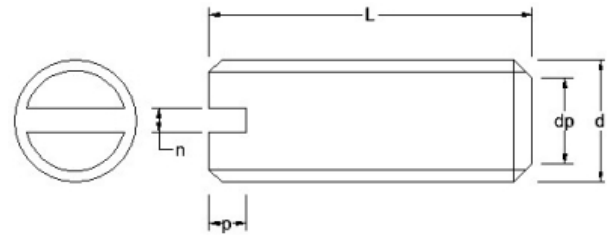
Material grades: A2: ● A4: ▲

dp (Max)	*	*	*	1	1.5	2	2.5	3.5	4	5.5						
n	0.2	0.2	0.25	0.25	0.4	0.4	0.6	0.8	1	1.2						
Pitch	0.25	0.3	0.35	0.4	0.45	0.5	0.7	0.8	1.0	1.25						
p	0.4	0.48	0.56	0.64	0.72	0.8	1.12	1.28	1.6	2						
Length/dim	M1.2	M1.4	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10	M12				
1.5	●															
2	●	●	●	●												
2.5				●												
3	●	●	●	●	●	●										
4	●	●	●	●	●	●	●▲	●								
5	●	●	●	●	●	●	●▲	●▲								
6	●	●	●	●	●	●	●▲	●▲	●▲	●						
8	●	●	●	●	●	●	●▲	●▲	●▲	●▲						
10	●	●	●	●	●	●	●▲	●▲	●▲	●▲	●▲					
12				●	●	●	●▲	●▲	●▲	●▲	●▲	●				
16					●	●	●▲	●▲	●▲	●▲	●					
18										●	▲					
20						●	●▲	●▲	●▲	●▲	●▲	●				
25							●▲	●▲	●▲	●▲	●▲	●				
30							●▲	●▲	●▲	●▲	●▲	●				
35							●▲	●▲	●▲	●▲	●▲	●				

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SLOTTED SET SCREWS FLAT POINT DIN 551

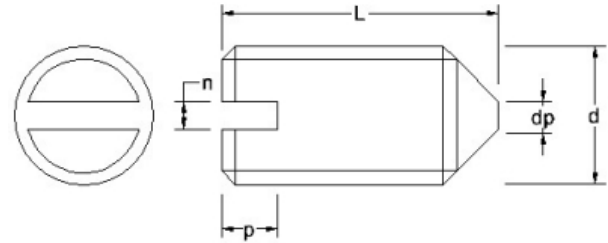


Material grades: A2: ● A4: ▲

dp (Max)	*	*	*	1	1.5	2	2.5	3.5	4	5.5							
n	0.2	0.2	0.25	0.25	0.4	0.4	0.6	0.8	1	1.2							
Pitch	0.25	0.3	0.35	0.4	0.45	0.5	0.7	0.8	1.0	1.25							
p	0.4	0.48	0.56	0.64	0.72	0.8	1.12	1.28	1.6	2							
Length/dim	M1.2	M1.4	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10	M12					
40							●▲	●▲	●▲	●▲	●▲	●					
45							●	●	●▲	●▲	●▲						
50							●	●	●▲	●▲	●▲						
55									●▲								
60									●▲	●▲	●▲						
70									●	●	●						
80										●	●						
90											●						

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SLOTTED SET SCREWS CONE POINT DIN 553



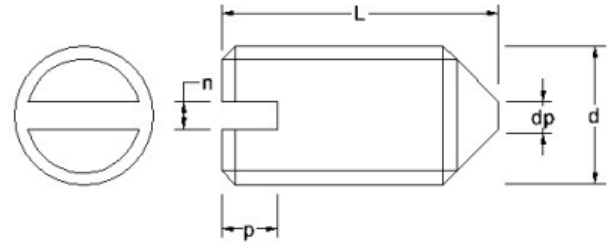
Material grades: A2: ● A4: ▲

n (Min)	0.31	0.31	0.46	0.46	0.66	0.86	1.06	1.26	1.66	2.10						
Pitch	0.35	0.4	0.45	0.5	0.7	0.8	1.0	1.25	1.5	1.75						
p (Min)	0.56	0.64	0.72	0.80	1.12	1.28	1.60	2.00	2.40	2.80						
Length/dim	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10	M12						
2	●	●														
2.5		●														
3	●	●	●	●												
4	●	●	●	●	●											
5	●	●	●	●	●											
6	●	●	●	●	●▲	●▲	●▲									
8	●	●	●	●	●▲	●▲	●▲	●▲								
10	●	●	●	●	●▲	●▲	●▲	●▲	●▲	●▲						
12		●		●	●▲	●▲	●▲	●▲	●▲	●▲						
14				●												
16				●	●▲	●▲	●▲	●▲	●▲							
18							●	●								
20				●	●▲	●▲	●▲	●▲	●▲	●▲	●					
25					●▲	●▲	●▲	●▲	●▲	●▲						
30					●▲	●▲	●▲	●▲	●▲							
35						●	●▲	●	●	●						
40					●	●	●▲	●▲	●▲	●						

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SLOTTED SET SCREWS CONE POINT DIN 553

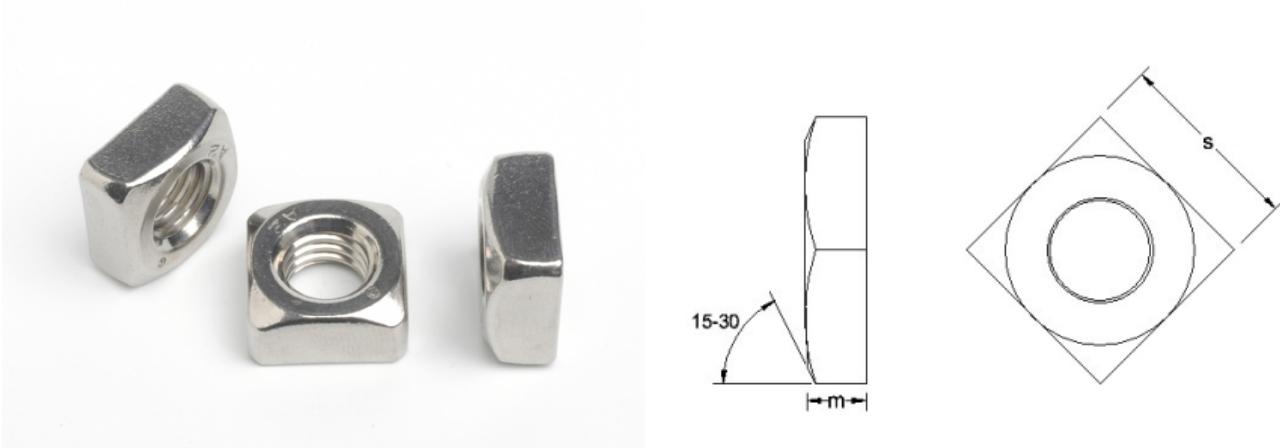


Material grades: A2: ● A4: ▲

n (Min)	0.31	0.31	0.46	0.46	0.66	0.86	1.06	1.26	1.66	2.10							
Pitch	0.35	0.4	0.45	0.5	0.7	0.8	1.0	1.25	1.5	1.75							
p (Min)	0.56	0.64	0.72	0.80	1.12	1.28	1.60	2.00	2.40	2.80							
Length/dim	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10	M12							
45								●									
50					●	●		●▲	▲								

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CHAMFERED SQUARE NUTS DIN 557



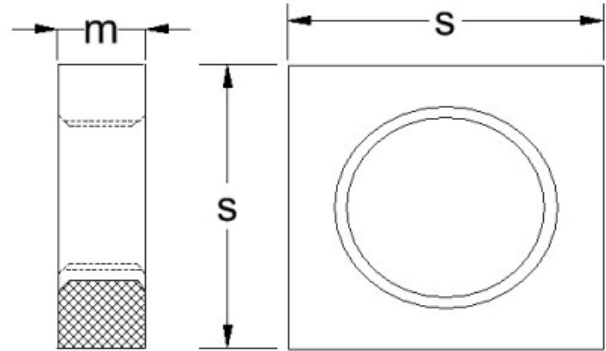
Material grades: A2: ● A4: ▲

m	4.0	5.0	6.5	8.0	10	13												
Pitch	0.80	1.00	1.25	1.50	1.75	2.00												
s	8.0	10	13	17	19	24												
Length/dim	M5	M6	M8	M10	M12	M16												
	●▲	●▲	●▲	●▲	●▲	●▲												

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SQUARE NUTS DIN 562

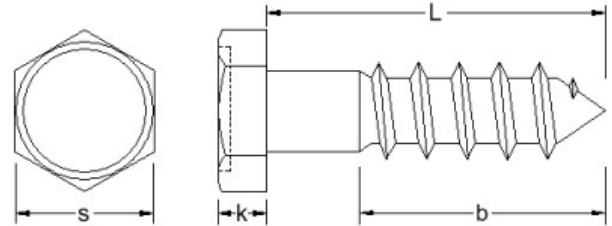


Material grades: A2: ● A4: ▲

m	1.2	1.6	1.8	2.2	2.7	3.2	4	5										
Pitch	0.40	0.45	0.50	0.70	0.80	1.00	1.25	1.50										
s	4.0	5.0	5.5	7.0	8.0	10	13	17										
Length/dim	M2	M2.5	M3	M4	M5	M6	M8	M10										
	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲										

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HEXAGON HEAD COACH SCREWS DIN 571



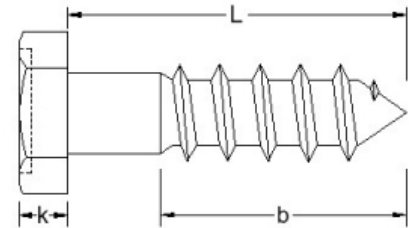
Material grades: A2: ● A4: ▲

b	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L											
k	3.5	4	5	5.5	7	8	10											
s	8	10	12	13	17	19	24											
Length/dim	5	6	7	8	10	12	16											
20	●	●																
25	●▲	●▲		●▲														
30	●▲	●▲	●▲	●▲														
35	●▲	●▲	●▲	●▲														
40	●▲	●▲	●▲	●▲	●▲													
45	●▲	●▲	●▲	●▲	●▲													
50	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
55	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
60	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
65		●▲	●▲	●▲	●▲	●▲	●▲											
70	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
75				●▲	●▲	●▲												
80	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
90		●▲	●▲	●▲	●▲	●▲	●▲	●▲										
100		●▲	●▲	●▲	●▲	●▲	●▲	●▲										
110		●▲	●▲	●▲	●▲	●▲	●▲	●▲										
120		●▲	●▲	●▲	●▲	●▲	●▲	●▲										

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HEXAGON HEAD COACH SCREWS DIN 571

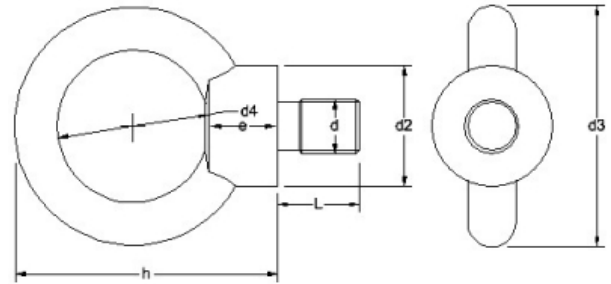


Material grades: A2: ● A4: ▲

b	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L											
k	3.5	4	5	5.5	7	8	10											
s	8	10	12	13	17	19	24											
Length/dim	5	6	7	8	10	12	16											
130		●▲	●▲	●▲	●▲	●▲	●▲											
140		●	●▲	●▲	●▲	●▲	●▲											
150			●▲	●▲	●▲	●▲	●▲											
160			●	●▲	●▲	●▲	●▲											
170			●															
180			●	●▲	●▲	●▲	●▲											
190			●															
200				●▲	●▲	●▲	●▲											
210			●															
220					●	●												
240					●	●												
260					●	●												
280					●	●												
300					●	●												

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LIFTING EYE BOLTS (CAST) ART.580



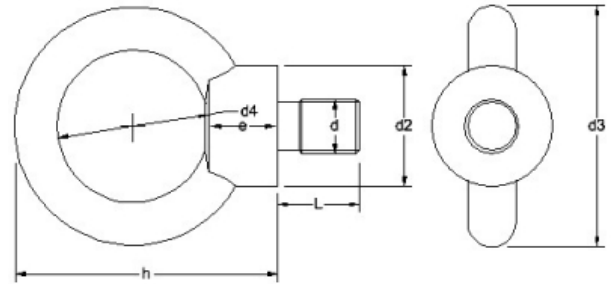
Material grades: A2: ● A4: ▲

d2	16	20	25	30	35	40	50	65	65	75						
d3	27	36	45	54	63	72	90	108	108	126						
d4	16	20	25	30	35	40	50	60	60	70						
e	6	6	8	10	12	14	18	22	22	26						
h	31	36	45	53	62	71	90	109	109	128						
L	11.0	13.0	17.0	20.5	27.0	30.0	36.0	45.0	45.0	54.0						
Pitch	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.00	3.50	4.00						
Length/dim	M6	M8	M10	M12	M16	M20	M24	M27	M30	M36						
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						

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LIFTING EYE BOLTS (DROP FORGED) ART.580

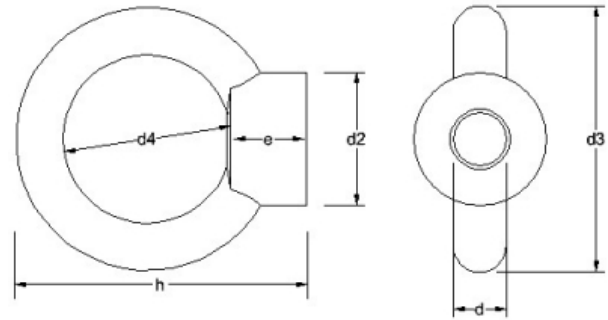


Material grades: A2: ● A4: ▲

d2	16	20	25	30	35	40	50	65	65	75									
d3	27	36	45	54	63	72	90	108	108	126									
d4	16	20	25	30	35	40	50	60	60	70									
e	6	6	8	10	12	14	18	22	22	26									
h	31	36	45	53	62	71	90	109	109	128									
L	11.0	13.0	17.0	20.5	27.0	30.0	36.0	45.0	45.0	54.0									
Pitch	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.00	3.50	4.00									
Length/dim	M6	M8	M10	M12	M16	M20	M24	M27	M30	M36									
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									

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LIFTING EYE NUTS (CAST) ART.582



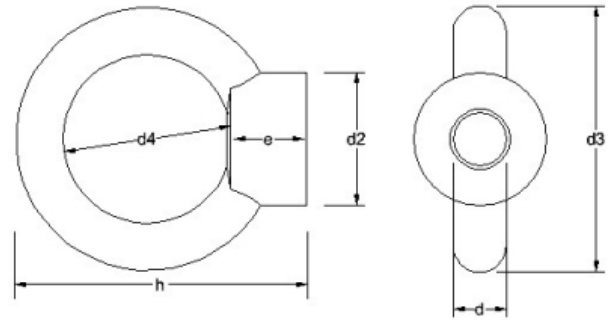
Material grades: A2: ● A4: ▲

d2	16	20	25	30	35	40	50	65	65	75								
d3	27	36	45	54	63	72	90	108	108	126								
d4	16	20	25	30	35	40	50	60	60	70								
e	8.0	8.5	10.0	11.0	13.0	16.0	20.0	22.0	25.0	30.0								
h	31	36	45	53	62	71	90	109	109	128								
Pitch	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.00	3.50	4.00								
Length/dim	M6	M8	M10	M12	M16	M20	M24	M27	M30	M36								
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								

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LIFTING EYE NUTS (DROP FORGED) ART.582

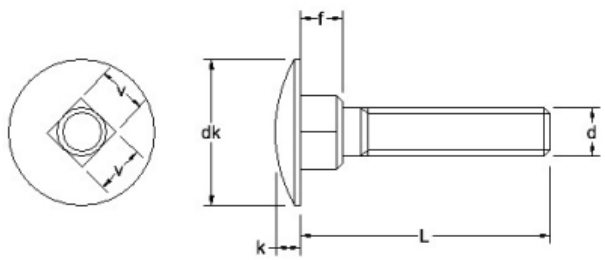


Material grades: A2: ● A4: ▲

d2	16	20	25	30	35	40	50	65	65	75									
d3	27	36	45	54	63	72	90	108	108	126									
d4	16	20	25	30	35	40	50	60	60	70									
e	8.0	8.5	10.0	11.0	13.0	16.0	20.0	22.0	25.0	30.0									
h	31	36	45	53	62	71	90	109	109	128									
Pitch	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.00	3.50	4.00									
Length/dim	M6	M8	M10	M12	M16	M20	M24	M27	M30	M36									
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									

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CARRIAGE BOLTS FULL THREAD DIN 603



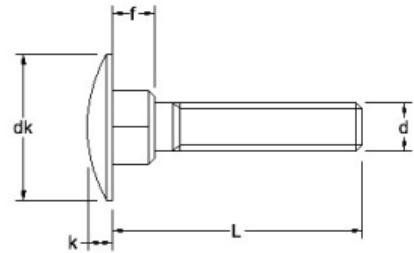
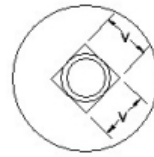
Material grades: A2: ● A4: ▲

dk	12.45	15.45	19.35	23.35	29.35	37.2												
f (Max)	4.1	4.6	5.6	6.6	8.75	11.1												
k (Min)	2.7	3.12	4.12	4.62	6.05	8.05												
Pitch	0.8	1.0	1.25	1.5	1.75	2.0												
v (Max)	5.48	6.48	8.58	10.58	12.7	15.3												
Length/dim	M5	M6	M8	M10	M12	M16												
12	●▲	●▲																
16	●▲	●▲	●▲	●▲														
18	●▲																	
20	●▲	●▲	●▲	●▲														
25	●▲	●▲	●▲	●▲	●▲													
30	●▲	●▲	●▲	●▲	●▲	●▲												
35	●▲	●▲	●▲	●▲	●▲	●▲												
40	●▲	●▲	●▲	●▲	●▲	●▲												
45	●▲	●▲	●▲	●▲	●▲	●▲												
50	●▲	●▲	●▲	●▲	●▲	●▲												
55	●▲	●▲	●▲	●▲	●▲	●▲												
60	●▲	●▲	●▲	●▲	●▲	●▲												
65	●▲	▲	●▲	●▲	●▲	●▲												
70	●▲	●▲	●▲	●▲	●▲	●▲												
75	▲	●▲	●▲	●▲	●▲	●▲												

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CARRIAGE BOLTS FULL THREAD DIN 603

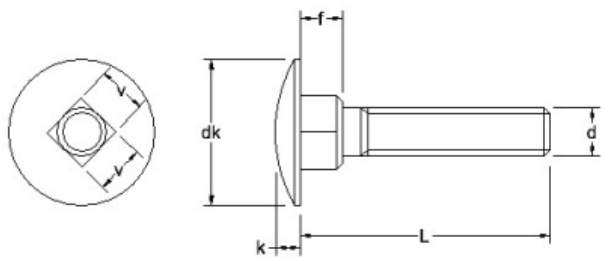


Material grades: A2: ● A4: ▲

dk	12.45	15.45	19.35	23.35	29.35	37.2													
f (Max)	4.1	4.6	5.6	6.6	8.75	11.1													
k (Min)	2.7	3.12	4.12	4.62	6.05	8.05													
Pitch	0.8	1.0	1.25	1.5	1.75	2.0													
v (Max)	5.48	6.48	8.58	10.58	12.7	15.3													
Length/dim	M5	M6	M8	M10	M12	M16													
80	●▲	●▲	●▲	●▲	●▲	●▲													
85				●▲															
90	●	●▲	●▲	●▲	●▲	●▲													
100	●	●▲	●▲	●▲	●▲	●▲													
110	●	●▲	●▲	●▲	●▲	●▲													
120	●	●▲	●▲	●▲	●▲	●▲													
130		●▲	●▲	●▲	●▲	●▲													
140		●▲	●▲	●▲	●▲	●▲													
150			●▲	●▲	●▲	●▲													
160					●	●													
180				●	●	●													
200				●	●	●													
220					●														
240					●														
260					●														

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CARRIAGE BOLTS FULL THREAD DIN 603



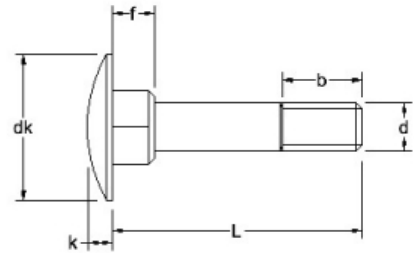
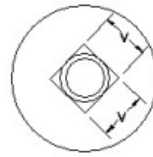
Material grades: A2: ●

dk	12.45	15.45	19.35	23.35	29.35	37.2												
f (Max)	4.1	4.6	5.6	6.6	8.75	11.1												
k (Min)	2.7	3.12	4.12	4.62	6.05	8.05												
Pitch	0.8	1.0	1.25	1.5	1.75	2.0												
v (Max)	5.48	6.48	8.58	10.58	12.7	15.3												
Length/dim	M5	M6	M8	M10	M12	M16												
280					●													
300					●													

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CARRIAGE BOLTS DIN 603



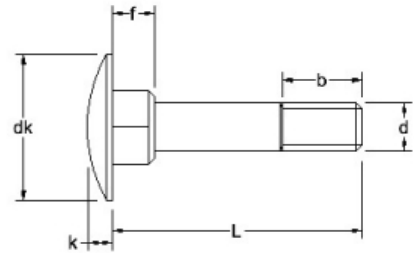
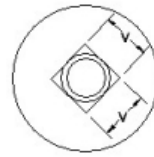
Material grades: A2: ● A4: ▲

b (Max)	16	18	22	26	36	38													
dk	12.45	15.45	19.35	23.35	29.35	37.2													
f (Max)	4.1	4.6	5.6	6.6	8.75	11.1													
k (Min)	2.7	3.12	4.12	4.62	6.05	8.05													
Pitch	0.8	1.0	1.25	1.5	1.75	2.0													
v (Max)	5.48	6.48	8.58	10.58	12.7	15.3													
Length/dim	M5	M6	M8	M10	M12	M16													
25	●▲	●▲																	
30	●▲	●▲	●▲																
35	●▲	●▲	●▲	●▲															
40	●▲	●▲	●▲	●▲	●▲	●▲													
45	●▲	●▲	●▲	●▲	●▲	●▲													
50	●▲	●▲	●▲	●▲	●▲	●▲													
55	●▲	●▲	●▲	●▲	●▲	●▲													
60	●▲	●▲	●▲	●▲	●▲	●▲													
65	●▲	●▲	●▲	●▲	●▲	●▲													
70	●▲	●▲	●▲	●▲	●▲	●▲													
75	●▲	●▲	●▲	●▲	●▲	●▲													
80	●▲	●▲	●▲	●▲	●▲	●▲													
85				●▲															
90		●▲	●▲	●▲	●▲	●▲													

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CARRIAGE BOLTS DIN 603



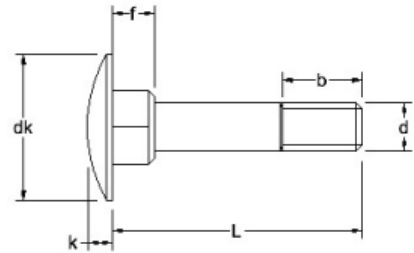
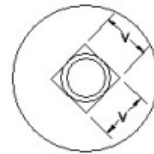
Material grades: A2: ● A4: ▲

	16	18	22	26	36	38									
b (Max)	16	18	22	26	36	38									
dk	12.45	15.45	19.35	23.35	29.35	37.2									
f (Max)	4.1	4.6	5.6	6.6	8.75	11.1									
k (Min)	2.7	3.12	4.12	4.62	6.05	8.05									
Pitch	0.8	1.0	1.25	1.5	1.75	2.0									
v (Max)	5.48	6.48	8.58	10.58	12.7	15.3									
Length/dim	M5	M6	M8	M10	M12	M16									
100		●▲	●▲	●▲	●▲	●▲									
110		●▲	●▲	●▲	●▲	●▲									
120		●▲	●▲	●▲	●▲	●▲									
130		●	●▲	●▲	●▲	●▲									
140		●	●▲	●▲	●▲	●▲									
150			●▲	●▲	●▲	●▲									
160			●	●	●	●									
170			●												
180			●	●	●	●									
190			●												
200			●		●	●									
220				●	●	●									
240				●	●	●									
260				●	●	●									

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CARRIAGE BOLTS DIN 603



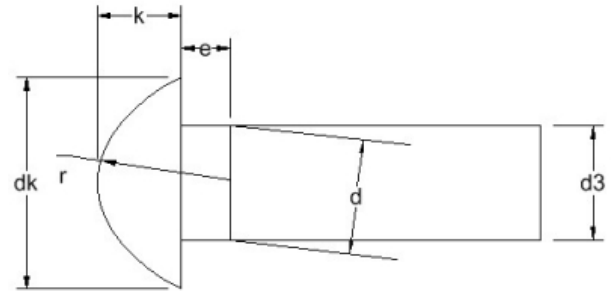
Material grades: A2: ●

b (Max)	16	18	22	26	36	38													
dk	12.45	15.45	19.35	23.35	29.35	37.2													
f (Max)	4.1	4.6	5.6	6.6	8.75	11.1													
k (Min)	2.7	3.12	4.12	4.62	6.05	8.05													
Pitch	0.8	1.0	1.25	1.5	1.75	2.0													
v (Max)	5.48	6.48	8.58	10.58	12.7	15.3													
Length/dim	M5	M6	M8	M10	M12	M16													
280				●	●	●													
300				●	●	●													

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ROUND HEAD SOLID RIVETS DIN 660

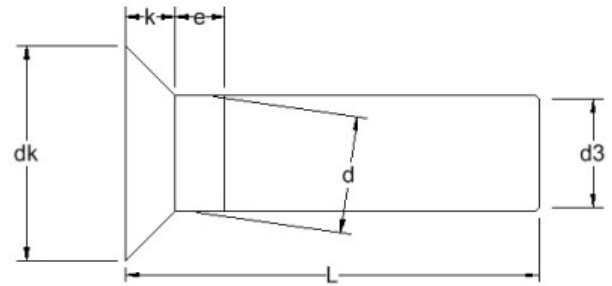


Material grades: A2: ● A4: ▲

d3	1.87	2.87	3.87	4.82	5.82															
dk	3.5	5.2	7	8.8	10.5															
e	1.0	1.5	2.0	2.5	3.0															
k	1.2	1.8	2.4	3.0	3.6															
r	1.9	2.8	3.8	4.6	5.7															
Length/dim	2	3	4	5	6															
50																				

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COUNTERSUNK HEAD SOLID RIVETS DIN 661



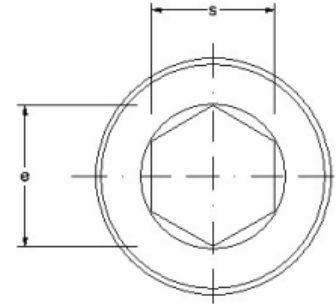
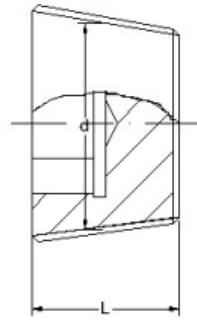
Material grades: A2: ●

d3	1.87	2.87	3.87	4.82	5.82														
dk	3.5	5.2	7	8.8	10.5														
e	1.0	1.5	2.0	2.5	3.0														
k	1.0	1.4	2.0	2.5	3.0														
Length/dim	2	3	4	5	6														
6	●	●	●																
8	●	●	●	●															
10	●	●	●	●	●														
12	●	●	●	●	●														
14	●	●	●	●	●														
16	●	●	●	●	●														
18	●	●	●	●	●														
20	●	●	●	●	●														
22	●	●	●	●	●														
25	●	●	●	●	●														
28			●	●	●														
30			●	●	●														
35			●	●	●														
40				●	●														
45					●														
50					●														

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SOCKET PIPE PLUGS DIN 906

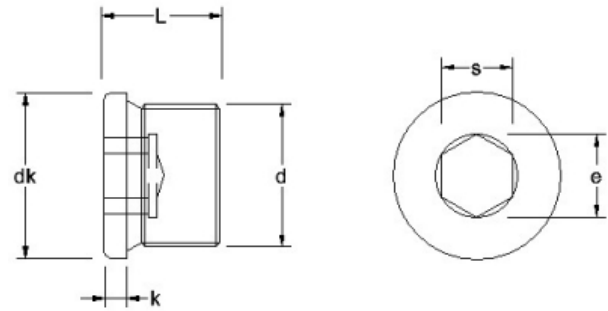


Material grades: A2: ● A4: ▲

	4.6	5.7	6.9	8.0	9.2	9.2	11.4	11.4	13.7	13.7	13.7	19.4				
e	4.6	5.7	6.9	8.0	9.2	9.2	11.4	11.4	13.7	13.7	13.7	19.4				
L	8	8	10	10	10	10	10	10	12	12	12	12				
s	SW4	SW5	SW6	SW7	SW8	SW8	SW10	SW10	SW12	SW12	SW12	SW17				
Length/dim	M8	M10	M12	M14	M16	M18	M20	M22	M24	M26	M27	M30				
1.0	●▲	●▲														
1.5			●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲		●▲				
2.0											●▲	●▲				

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SOCKET PIPE PLUGS WITH COLLAR DIN 908



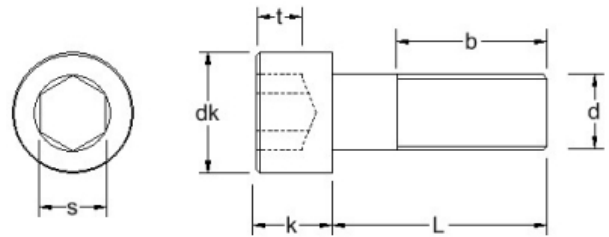
Material grades: A2: ● A4: ▲

dk	14	17	19	21	23	25	27	29	31	32	36						
e	5.7	6.9	6.9	9.2	9.2	11.4	11.4	13.7	13.7	13.7	19.4						
k	3	3	3	3	4	4	4	4	4	4	4						
L	11	15	15	15	16	18	18	18	20	20	20						
s	SW5	SW6	SW6	SW8	SW8	SW10	SW10	SW12	SW12	SW12	SW17						
Length/dim	M10	M12	M14	M16	M18	M20	M22	M24	M26	M27	M30						
1.0	●▲																
1.5		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲		●▲						
2.0										●▲	●▲						

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SOCKET CAP SCREWS DIN 912

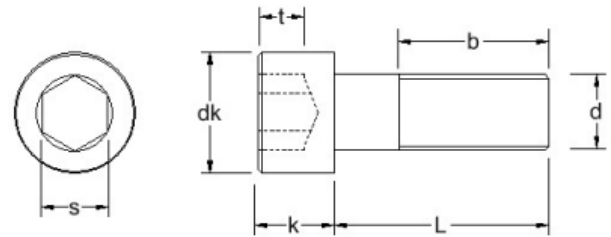


Material grades: A2: ● A4: ▲ A4-80: ▼

b (Max)	14.8	15	16	17	18	20	20	22	24	28	32	36	40	44	48	52	56
dk	2.6	3.0	3.8	4.5	5.5	6.0	7.0	8.5	10	13	16	18	21	24	27	30	33
k (Max)	1.4	1.6	2.0	2.5	3	3.5	4	5	6	8	10	12	14	16	18	20	22
Pitch	0.3	0.35	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.0	2.5	2.5	2.5
s	1.3	1.5	1.5	2	2.5	2.5	3	4	5	6	8	10	12	14	14	17	17
t (Min)	0.6	0.7	1.0	1.1	1.3	1.6	2.0	2.5	3	4	5	6	7	8	9	10	11
Length/dim	M1.4	M1.6	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22
2	●▲																
3	●▲	●▲	●▲	●▲	●▲												
4	●▲	●▲	●▲	●▲	●▲		●▲▼										
5	●▲	●▲	●▲	●▲	●▲	●▲	●▲▼	●▲▼									
6	●▲	●▲	●▲	●▲	●▲	●▲	●▲▼	●▲▼	●▲▼								
7			●														
8	●▲	●▲	●▲	●▲	●▲	●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼						
10	●▲	●▲	●▲	●▲	●▲	●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼						
12	●▲	●▲	●▲	●▲	●▲	●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼					
14		●▲	●▲	●▲	●▲		●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼					
16	●▲	●▲	●▲	●▲	●▲	●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼				
18		●▲	●	●▲	●		●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲			
20		●▲	●▲	●▲	●▲	●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼		
22			●▲	●▲	●▲		●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	▲▼	▲				

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SOCKET CAP SCREWS DIN 912



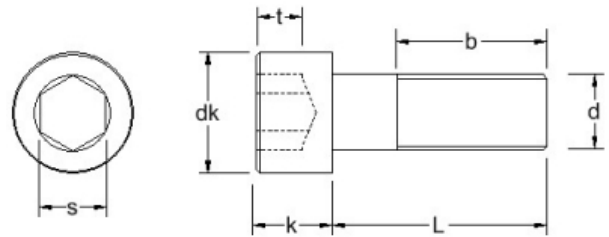
Material grades:

Length/dim	M24	M27	M30											
b (Max)	60	66	72											
dk	36	40	45											
k (Max)	24	27	30											
Pitch	3.0	3.0	3.5											
s	19	19	22											
t (Min)	12	13.5	15.5											
2														
3														
4														
5														
6														
7														
8														
10														
12														
14														
16														
18														
20														
22														

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SOCKET CAP SCREWS DIN 912

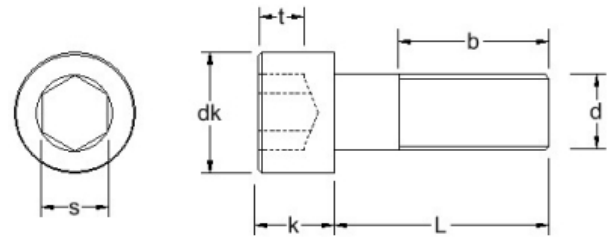


Material grades: A2: ● A4: ▲ A4-80: ▼

Length/dim	M1.4	M1.6	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	
b (Max)	14.8	15	16	17	18	20	20	22	24	28	32	36	40	44	48	52	56	
dk	2.6	3.0	3.8	4.5	5.5	6.0	7.0	8.5	10	13	16	18	21	24	27	30	33	
k (Max)	1.4	1.6	2.0	2.5	3	3.5	4	5	6	8	10	12	14	16	18	20	22	
Pitch	0.3	0.35	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.0	2.5	2.5	2.5	
s	1.3	1.5	1.5	2	2.5	2.5	3	4	5	6	8	10	12	14	14	17	17	
t (Min)	0.6	0.7	1.0	1.1	1.3	1.6	2.0	2.5	3	4	5	6	7	8	9	10	11	
25			●▲	●▲	●▲	●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼			
30/30								●▲										
30			●▲	●	●▲	●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼		
35/35							●▲	●▲	●▲									
35				●▲	●▲		●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼		
40/40							●▲	●▲	●▲	●▲	●▲							
40				●▲	●▲		●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	
45/45								●▲	●▲	●▲	●▲							
45					●▲		●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	
50/50								●▲	●▲	●▲	●▲							
50					●▲		●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	
55/55									●▲	●▲	●▲							
55					●▲		●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	
60					●▲		●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	

CLICK HERE TO RETURN TO THE CONTENTS PAGE

SOCKET CAP SCREWS DIN 912



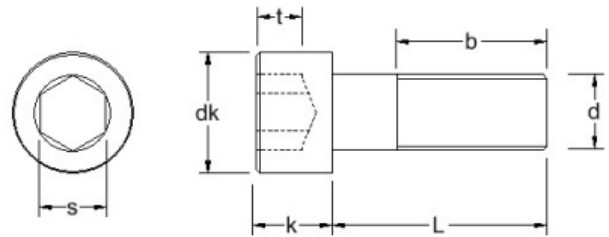
Material grades: A2: ● A4: ▲ A4-80: ▼

Length/dim	M24	M27	M30															
b (Max)	60	66	72															
dk	36	40	45															
k (Max)	24	27	30															
Pitch	3.0	3.0	3.5															
s	19	19	22															
t (Min)	12	13.5	15.5															
Length/dim	M24	M27	M30															
25																		
30/30																		
30																		
35/35																		
35																		
40/40																		
40	●▲▼																	
45/45																		
45	●▲▼																	
50/50																		
50	●▲▼ ●▲ ●▲																	
55/55																		
55	●▲▼ ●▲ ●▲																	
60	●▲▼ ●▲ ●▲																	

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) >



SOCKET CAP SCREWS DIN 912

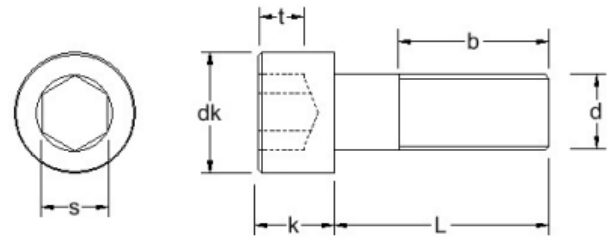


Material grades: A2: ● A4: ▲ A4-80: ▼

Length/dim	M1.4	M1.6	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	
b (Max)	14.8	15	16	17	18	20	20	22	24	28	32	36	40	44	48	52	56	
dk	2.6	3.0	3.8	4.5	5.5	6.0	7.0	8.5	10	13	16	18	21	24	27	30	33	
k (Max)	1.4	1.6	2.0	2.5	3	3.5	4	5	6	8	10	12	14	16	18	20	22	
Pitch	0.3	0.35	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.0	2.5	2.5	2.5	
s	1.3	1.5	1.5	2	2.5	2.5	3	4	5	6	8	10	12	14	14	17	17	
t (Min)	0.6	0.7	1.0	1.1	1.3	1.6	2.0	2.5	3	4	5	6	7	8	9	10	11	
60/60								●▲	●▲	●▲	●▲							
65					●▲		●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲
70					●▲		●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲
70/70								●▲	●▲	●▲	●▲							
75							●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲
80/80									●▲	●▲	●▲							
80							●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲
85								●▲	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	
90/90									●▲	●▲	●▲							
90							●▲	●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲
95								●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	
100/100									●▲	●▲	●▲							
100							●▲	●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲
110								●▲	●▲▼	●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#)

SOCKET CAP SCREWS DIN 912



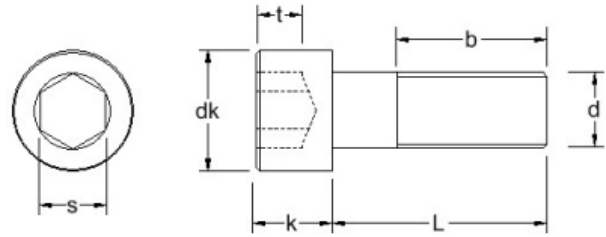
Material grades: A2: ● A4: ▲ A4-80: ▼

Length/dim	M24	M27	M30																
b (Max)	60	66	72																
dk	36	40	45																
k (Max)	24	27	30																
Pitch	3.0	3.0	3.5																
s	19	19	22																
t (Min)	12	13.5	15.5																
Length/dim	M24	M27	M30																
60/60																			
65	●▲▼	●▲	●▲																
70	●▲▼	●▲	●▲																
70/70																			
75	●▲▼	●▲	●▲																
80/80																			
80	●▲▼	●▲	●▲																
85	▲	●▲	●▲																
90/90																			
90	●▲▼	●▲	●▲																
95	▲	●▲	●▲																
100/100																			
100	●▲▼	●▲	●▲																
110	●▲▼	●▲	●▲																

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) 



SOCKET CAP SCREWS DIN 912

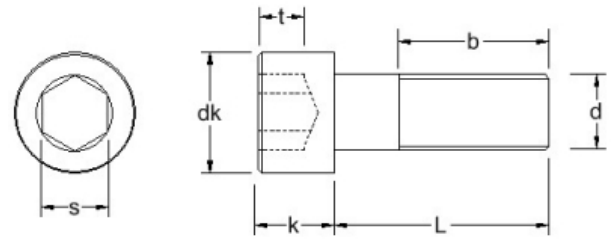


Material grades: A2: ● A4: ▲ A4-80: ▼

b (Max)	14.8	15	16	17	18	20	20	22	24	28	32	36	40	44	48	52	56
dk	2.6	3.0	3.8	4.5	5.5	6.0	7.0	8.5	10	13	16	18	21	24	27	30	33
k (Max)	1.4	1.6	2.0	2.5	3	3.5	4	5	6	8	10	12	14	16	18	20	22
Pitch	0.3	0.35	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.0	2.5	2.5	2.5
s	1.3	1.5	1.5	2	2.5	2.5	3	4	5	6	8	10	12	14	14	17	17
t (Min)	0.6	0.7	1.0	1.1	1.3	1.6	2.0	2.5	3	4	5	6	7	8	9	10	11
Length/dim	M1.4	M1.6	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22
120								●▲	●▲▼	●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲
130								●▲	●▲▼	●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲
140								●▲	●▲▼	●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲
150									●▲▼	●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲
160									●	●▲	●▲▼	●▲▼	●▲	●▲		●▲	
170										●▲	●▲	●▲	●▲	●▲		●▲	
180									●	●▲	●▲	●▲	●▲	●▲		●▲	
190									●		▲	●▲	●▲			●▲	
200									●	●▲	●▲	●▲	●▲	●▲		●▲	
210										●	●▲	●▲					
220										●	●▲	●▲					
230										●	●▲	●▲					
240										●	●▲	●▲					
250										●▲	●▲	●▲					

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SOCKET CAP SCREWS DIN 912



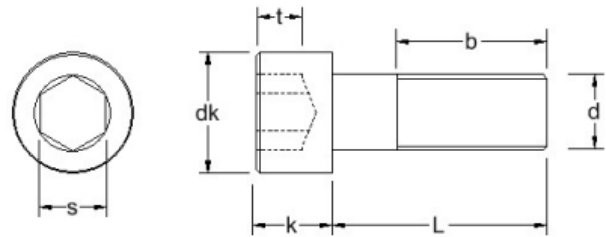
Material grades: A2: ● A4: ▲ A4-80: ▼

	60	66	72																	
b (Max)	60	66	72																	
dk	36	40	45																	
k (Max)	24	27	30																	
Pitch	3.0	3.0	3.5																	
s	19	19	22																	
t (Min)	12	13.5	15.5																	
Length/dim	M24	M27	M30																	
120	●▲▼	●▲	●▲																	
130	●▲▼	●▲	●▲																	
140	●▲▼	●▲	●▲																	
150	●▲▼	●▲	●▲																	
160	●▲	●▲	●▲																	
170	●▲	●▲	●▲																	
180	●▲	●▲	●▲																	
190	●▲	●▲	●▲																	
200	●▲	●▲	●▲																	
210	●▲																			
220	●▲																			
230	●▲																			
240	●▲																			
250	●▲																			

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SOCKET CAP SCREWS DIN 912

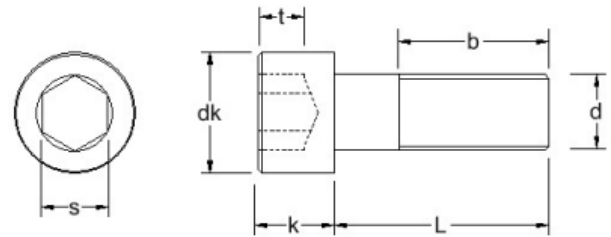


Material grades: A2: ● A4: ▲

	14.8	15	16	17	18	20	20	22	24	28	32	36	40	44	48	52	56
b (Max)	14.8	15	16	17	18	20	20	22	24	28	32	36	40	44	48	52	56
dk	2.6	3.0	3.8	4.5	5.5	6.0	7.0	8.5	10	13	16	18	21	24	27	30	33
k (Max)	1.4	1.6	2.0	2.5	3	3.5	4	5	6	8	10	12	14	16	18	20	22
Pitch	0.3	0.35	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.0	2.5	2.5	2.5
s	1.3	1.5	1.5	2	2.5	2.5	3	4	5	6	8	10	12	14	14	17	17
t (Min)	0.6	0.7	1.0	1.1	1.3	1.6	2.0	2.5	3	4	5	6	7	8	9	10	11
Length/dim	M1.4	M1.6	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22
260										● ▲	● ▲	● ▲					
270										● ▲	● ▲	● ▲					
280										● ▲	● ▲	● ▲					
290										● ▲	● ▲	● ▲					
300										● ▲	● ▲	● ▲					

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) >

SOCKET CAP SCREWS DIN 912



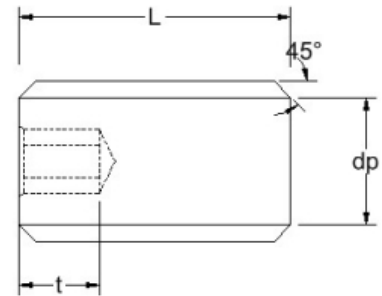
Material grades: A2: ● A4: ▲

	M24	M27	M30															
b (Max)	60	66	72															
dk	36	40	45															
k (Max)	24	27	30															
Pitch	3.0	3.0	3.5															
s	19	19	22															
t (Min)	12	13.5	15.5															
Length/dim	M24	M27	M30															
260	●▲																	
270	●▲																	
280	●▲																	
290	●▲																	
300	●▲																	

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SOCKET SET SCREWS FLAT POINT DIN 913



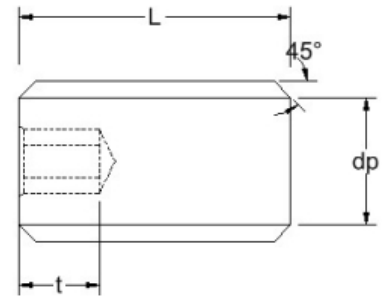
Material grades: A2: ● A4: ▲

dp (Max)	0.8	1	1.5	2	2.5	3.5	4	5.5	7	8.5	12	15						
Pitch	0.35	0.4	0.45	0.5	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.5						
s	0.7	0.9	1.3	1.5	2	2.5	3	4	5	6	8	10						
t (Min)	0.7	0.8	1.2	1.2	1.5	2	2	3	4	4.8	6.4	8						
Length/dim	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M16	M20						
2	●	●▲																
2.5	●	●	●															
3	●	●▲	●▲	●▲	●▲													
4	●	●▲	●▲	●▲	●▲	●▲	●											
5	●	●▲	●▲	●▲	●▲	●▲	●▲											
6	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
8	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
10	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
12		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							
14		●▲	●	●	●	●▲	●▲	●▲	●▲	●▲	●▲							
16		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
18							●▲		●▲									
20				●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●						
25				●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●						
30				●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲					
35					●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲					

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#)



SOCKET SET SCREWS FLAT POINT DIN 913

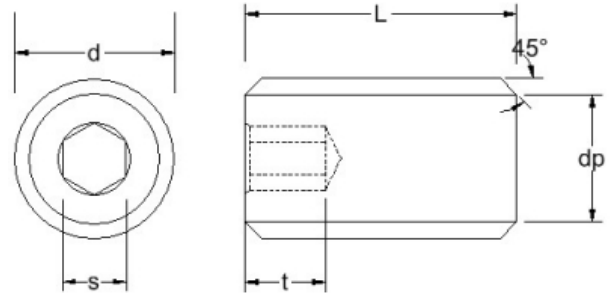


Material grades: A2: ● A4: ▲

dp (Max)	0.8	1	1.5	2	2.5	3.5	4	5.5	7	8.5	12	15					
Pitch	0.35	0.4	0.45	0.5	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.5					
s	0.7	0.9	1.3	1.5	2	2.5	3	4	5	6	8	10					
t (Min)	0.7	0.8	1.2	1.2	1.5	2	2	3	4	4.8	6.4	8					
Length/dim	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M16	M20					
40					●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲					
45						●	●▲	●▲	●▲	●▲	●▲	●▲					
50						●	●▲	●▲	●▲	●▲	●▲	●▲					
55							●▲	●▲	●▲	●▲	●▲						
60						●	●▲	●▲	●▲	●▲	●▲	●▲					
70							●▲	●	●▲	●▲	●▲	●▲					
80								●	●▲	●▲	●▲	●▲					
90								●	●▲	●▲	●▲	●▲					
100								●	●▲	●▲	●▲	●▲					
110								●	●								
120								●	●								
130									●								
140									●								
150									●								
160									●								
170									●								

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SOCKET SET SCREWS FLAT POINT DIN 913



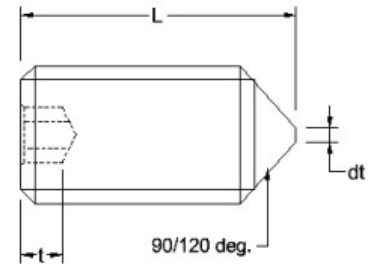
Material grades: A2: ●

dp (Max)	0.8	1	1.5	2	2.5	3.5	4	5.5	7	8.5	12	15					
Pitch	0.35	0.4	0.45	0.5	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.5					
s	0.7	0.9	1.3	1.5	2	2.5	3	4	5	6	8	10					
t (Min)	0.7	0.8	1.2	1.2	1.5	2	2	3	4	4.8	6.4	8					
Length/dim	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M16	M20					
180									●								
190									●								

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SOCKET SET SCREWS CONE POINT DIN 914

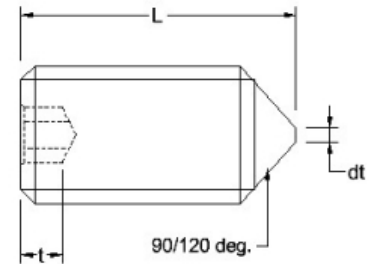
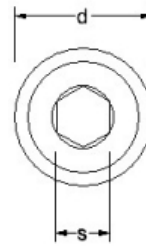


Material grades: A2: ● A4: ▲

dt (Max)	*	*	*	*	*	*	1.5	2	2.5	3	4	5				
Pitch	0.35	0.4	0.45	0.5	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.5				
s	0.7	0.9	1.3	1.5	2	2.5	3	4	5	6	8	10				
t (Min)	0.7	0.8	1.2	1.2	1.5	2	2	3	4	4.8	6.4	8				
Length/dim	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M16	M20				
2	●	●▲														
2.5	●		●													
3	●	●▲	●▲	●▲	●											
4	●	●▲	●▲	●▲	●▲	●										
5	●	●▲	●▲	●▲	●▲	●▲	●									
6		●▲	●▲	●▲	●▲	●▲	●▲	●								
8		●▲	●▲	●▲	●▲	●▲	●▲	●▲								
10		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							
12		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
14		●▲	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲						
16		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲					
18						●	●	●▲								
20				●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
22							●									
25				●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
30				●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) >

SOCKET SET SCREWS CONE POINT DIN 914



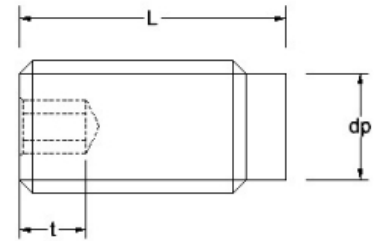
Material grades: A2: ● A4: ▲

dt (Max)	*	*	*	*	*	*	1.5	2	2.5	3	4	5					
Pitch	0.35	0.4	0.45	0.5	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.5					
s	0.7	0.9	1.3	1.5	2	2.5	3	4	5	6	8	10					
t (Min)	0.7	0.8	1.2	1.2	1.5	2	2	3	4	4.8	6.4	8					
Length/dim	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M16	M20					
35					●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲					
40					●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲					
45						●▲	▲	●▲	●▲	●▲	●▲	●▲					
50						●▲	●▲	●▲	●▲	●▲	●▲	●▲					
55							●▲	●▲	●▲	●▲	●▲	●					
60							▲	●▲	●▲	●▲	●▲	●▲					
70									●▲	●▲	●▲	●▲					
80									●▲	●▲	●▲	●▲					
90									●▲	●▲	●▲	●▲					
100									●▲	●▲	●▲	●▲					

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) 



SOCKET SET SCREWS DOG POINT DIN 915

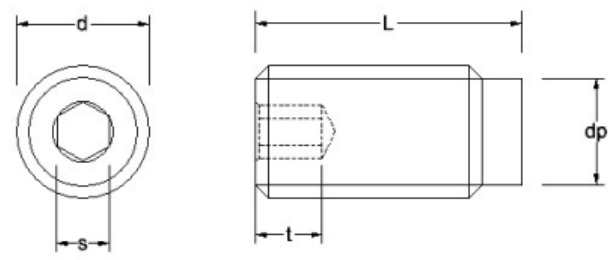


Material grades: A2: ● A4: ▲

dp (Max)	1	1.5	2	2.5	3.5	4	5.5	7	8.5	12	15						
Pitch	0.4	0.45	0.5	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.5						
s	0.9	1.3	1.5	2	2.5	3	4	5	6	8	10						
t (Min)	0.8	1.2	1.2	1.5	2	2	3	4	4.8	6.4	8						
Length/dim	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M16	M20						
3	●▲	●▲	●▲														
4	●▲	●▲	●▲	●▲													
5	●▲	●▲	●▲	●▲	●▲												
6	●▲	●▲	●▲	●▲	●▲	●▲											
8	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
10	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
12	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
14	●▲	●▲	●▲		●▲	●▲	●▲	●▲	●▲								
16	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							
18					●		●										
20	●		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
25			●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
30			●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
35					●▲	●▲	●▲	●▲	●▲	●▲	●▲						
40					●▲	●▲	●▲	●▲	●▲	●▲	●▲						
45						▲	●▲	●▲	●▲	●▲	●▲						

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) >

SOCKET SET SCREWS DOG POINT DIN 915



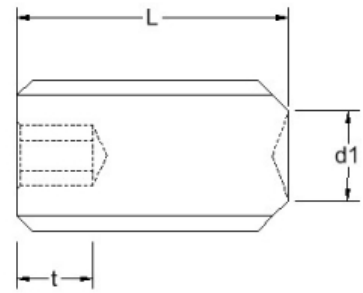
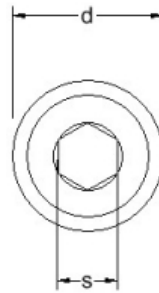
Material grades: A2: ● A4: ▲

dp (Max)	1	1.5	2	2.5	3.5	4	5.5	7	8.5	12	15						
Pitch	0.4	0.45	0.5	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.5						
s	0.9	1.3	1.5	2	2.5	3	4	5	6	8	10						
t (Min)	0.8	1.2	1.2	1.5	2	2	3	4	4.8	6.4	8						
Length/dim	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M16	M20						
50						●▲	●▲	●▲	●▲	●▲	●▲						
55							●▲	●▲	●▲	▲							
60						●▲	●▲	●▲	●▲	●▲	●▲						
65										●▲							
70									●▲	●▲	●▲						
80										●▲	●▲						
90										●							

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) 



SOCKET SET SCREWS CUP POINT DIN 916

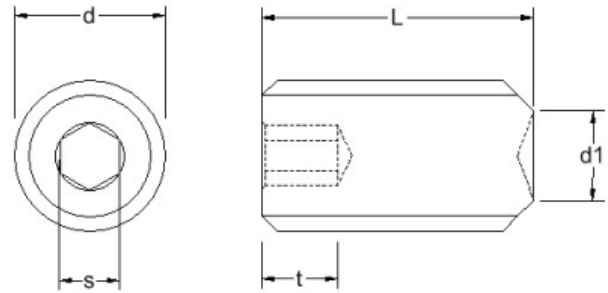


Material grades: A2: ● A4: ▲

d1(Max)	0.8	1	1.2	1.4	1.4	2	2.5	3	5	6	8	10	14				
Pitch	0.35	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.5				
s	0.7	0.9	1.3	1.5	1.5	2	2.5	3	4	5	6	8	10				
t(Min)	0.7	0.8	1.2	1.2	1.2	1.5	2	2	3	4	4.8	6.4	8				
Length/dim	M1.6	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12	M16	M20				
2	●	●▲															
2.5	●	●	●														
3	●	●▲	●▲	●▲	●▲												
4	●	●▲	●▲	●▲	●▲	●▲	●	●									
5	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
6	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●								
7								●									
8	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●							
10	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●						
12	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
14				●		●	▲	●▲	●▲								
16		●▲	●	●▲		●▲	●▲	●▲	●▲	●▲	●▲	●▲					
18							●		●								
20				●▲		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲			
25				●▲		▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲			
28							●										

CLICK HERE TO RETURN TO THE CONTENTS PAGE

SOCKET SET SCREWS CUP POINT DIN 916



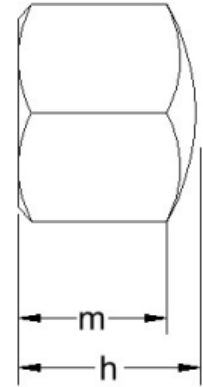
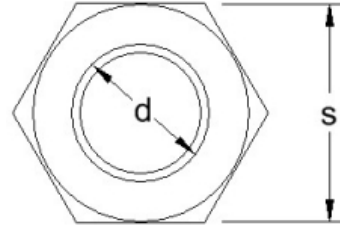
Material grades: A2: ● A4: ▲

d1(Max)	0.8	1	1.2	1.4	1.4	2	2.5	3	5	6	8	10	14				
Pitch	0.35	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.5				
s	0.7	0.9	1.3	1.5	1.5	2	2.5	3	4	5	6	8	10				
t(Min)	0.7	0.8	1.2	1.2	1.2	1.5	2	2	3	4	4.8	6.4	8				
Length/dim	M1.6	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12	M16	M20				
30				●▲		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
35						●	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
40						●	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
45								●▲	●▲	●▲	●▲	●▲	●▲				
50						●	●	●▲	●▲	●▲	●▲	●▲	●▲				
55								●		●	●▲	●▲	●▲				
60							●	●	●▲	●▲	●▲	●▲	●▲				
65										●			●▲				
70									●	●	●▲	●▲	●▲				
80											●▲	●▲	●▲				
90												●▲	●▲				
100												●▲	●▲				

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) 



HEXAGON CAP NUTS DIN 917

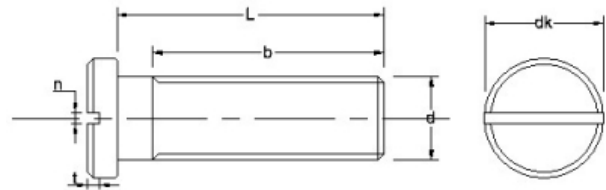


Material grades: A2: ● A4: ▲

h	4.5	5.5	7	9	12	14	16	18	20	22	25	28	30	32	34		
m	4.0	4.4	5.2	7	9.5	11	13.6	15	17	19	21	22	24	26	28		
Pitch	0.50	0.70	0.80	1.00	1.25	1.50	1.75	2.00	2.00	2.50	2.50	2.50	3.00	2.5	3.0		
s	5.5	7.0	8.0	10	13	17	19	22	24	27	30	32	36	41	46		
Length/dim	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30		
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲		

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REDUCED HEAD SLOT PAN MACHINE SCREWS DIN 920



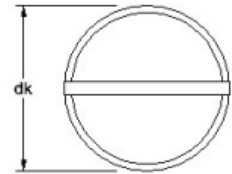
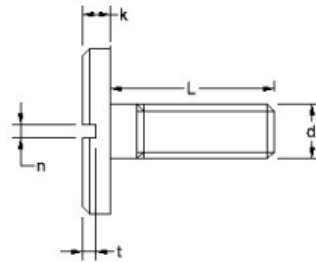
Material grades: A2: ●

b (Min)	6	9	12	15	18														
dk	2.8	4.0	5.5	6.5	8														
k	1.2	1.8	2.4	2.7	3.1														
n	0.30	0.50	0.6	0.8	1.0														
Pitch	0.4	0.5	0.7	0.8	1.0														
t	0.60	0.90	1.2	1.3	1.5														
Length/dim	M2	M2.5	M3	M4	M5	M6													
4	●	●	●	●															
5	●	●	●	●	●														
6	●	●	●	●	●	●													
8	●	●	●	●	●	●													
10	●	●	●	●	●	●													
12		●	●	●	●	●													
16		●	●	●	●	●													
20					●	●													
25						●													

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) 



LARGE HEAD SLOT PAN MACHINE SCREWS DIN 921

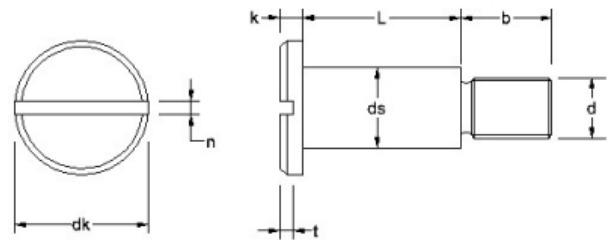


Material grades: A2: ●

dk	6	8	12	16	20	25													
k	1.2	1.8	2.4	2.7	3.1	3.8													
n	0.63	0.9	1.1	1.4	1.6	2.0													
Pitch	0.4	0.5	0.7	0.8	1.0	1.25													
t (Min)	0.6	0.9	1.2	1.3	1.5	1.9													
Length/dim	M2	M3	M4	M5	M6	M8													
2.5	●																		
3	●																		
4	●	●																	
5	●	●	●																
6		●	●	●															
8		●	●	●															
10		●	●	●	●														
12		●	●	●	●														
16			●	●	●														
20			●	●	●	●													
25				●	●	●	●												
30					●	●													

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#)

SLOT PAN SHOULDER SCREWS DIN 923



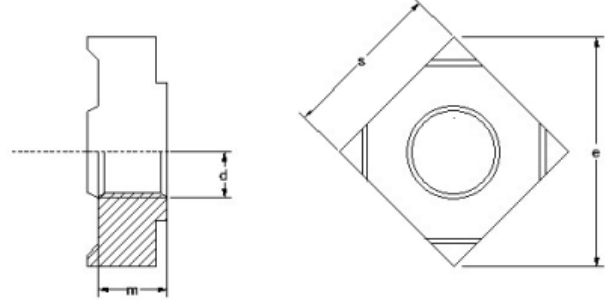
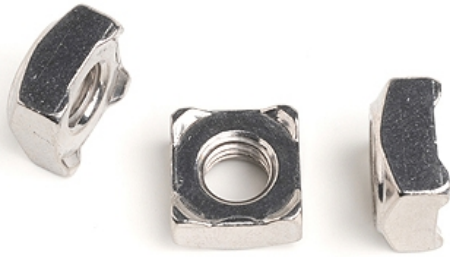
Material grades: A2: ●

b	4.5	6.0	7.0	9.0	11.0														
dk	7.0	8.5	11.0	13.0	16.0														
ds	4.0	5.5	7.0	8.0	10.0														
k	1.8	2.4	2.7	3.1	3.8														
n	0.8	1.0	1.2	1.6	2.0														
Pitch	0.5	0.7	0.8	1.0	1.25														
t (Min)	0.9	1.2	1.3	1.5	1.9														
Length/dim	M3	M4	M5	M6	M8														
2	●	●																	
2.5	●	●	●																
3	●	●	●	●															
4	●	●	●	●															
5	●	●	●	●	●														
6	●	●	●	●	●														
8	●	●	●	●	●														
10	●	●	●	●	●														
12	●	●	●	●	●														
16	●	●	●	●	●														
20			●	●	●														
25				●															

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) 



SQUARE WELD NUTS DIN 928

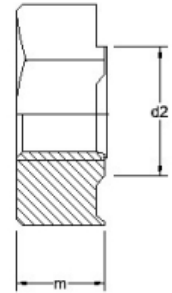
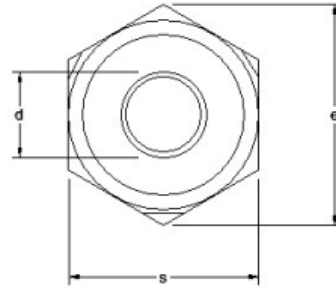


Material grades: A2: ● A4: ▲

e	12	13	18	22	25														
m	4.2	5.0	6.5	8.0	9.5														
Pitch	0.80	1.00	1.25	1.50	1.75														
s	9	10	14	17	19														
Length/dim	M5	M6	M8	M10	M12														
	●▲	●▲	●▲	●▲	●▲														

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HEXAGON WELD NUTS DIN 929



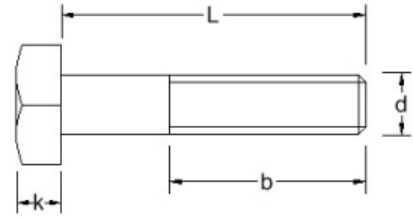
Material grades: A2: ● A4: ▲

d2	4.5	6.0	7.0	8.0	10.5	12.5	14.8	18.8										
e	8.15	9.83	10.95	12.02	15.38	18.74	20.91	26.51										
m	3.0	3.5	4.0	5.0	6.5	8.0	10.0	13.0										
Pitch	0.50	0.70	0.80	1.00	1.25	1.50	1.75	2.00										
s	7.5	9	10	11	14	17	19	24										
Length/dim	M3	M4	M5	M6	M8	M10	M12	M16										
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) 



HEXAGON HEAD BOLTS DIN 931

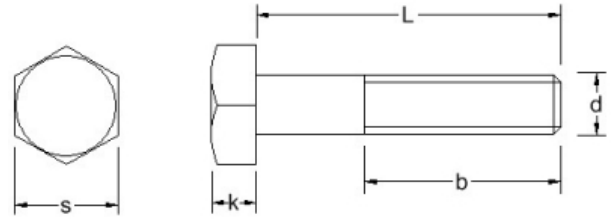


Material grades: A2: ● A4: ▲ A4-80: ▼

b (Max)	16	18	22	26	30	34	38	42	46	50	54	60	66	72	78		
b (Max) (L > 125mm)	22	24	28	32	36	40	44	48	52	56	56	66	72	78	90		
k (Min)	3.35	3.85	5.15	6.22	7.32	8.62	9.82	11.28	12.28	13.78	14.78	16.65	18.28	20.58	22.1		
Pitch	0.8	1.0	1.25	1.5	1.75	2.0	2.0	2.5	2.5	2.5	3.0	3.0	3.5	3.5	4.0		
s	8	10	13	17	19	22	24	27	30	34	36	41	46	50	55		
Length/dim	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36		
25	●▲▼																
30	●▲▼	●▲▼	●▲▼														
35	●▲▼	●▲▼	●▲▼	●▲													
40	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼												
45	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼												
50	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼										
55	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼										
60	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼								
65	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼								
70	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●	●▲▼						
75	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●	●▲▼						
80	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲	●▲				
85	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲	●▲				
90	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲	●▲	●▲	●▲		
95	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲	●▲	●▲	●▲		

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#)

HEXAGON HEAD BOLTS DIN 931



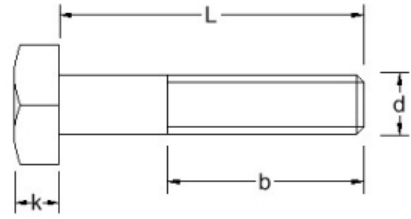
Material grades: A2: ● A4: ▲ A4-80: ▼

b (Max)	16	18	22	26	30	34	38	42	46	50	54	60	66	72	78		
b (Max) (L > 125mm)	22	24	28	32	36	40	44	48	52	56	56	66	72	78	90		
k (Min)	3.35	3.85	5.15	6.22	7.32	8.62	9.82	11.28	12.28	13.78	14.78	16.65	18.28	20.58	22.1		
Pitch	0.8	1.0	1.25	1.5	1.75	2.0	2.0	2.5	2.5	2.5	3.0	3.0	3.5	3.5	4.0		
s	8	10	13	17	19	22	24	27	30	34	36	41	46	50	55		
Length/dim	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36		
100	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲	●▲	●▲	●▲		
105				●													
110		●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲	●▲	●▲	●▲		
120		●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲	●▲	●▲	●▲		
130		●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲	●▲	●▲	●▲		
140		●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲	●▲	●▲	●▲		
150		●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲	●▲	●▲	●▲		
160		●▲	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●	●▲▼	●▲	●▲▼	●▲	●▲	●▲	●▲		
170		●▲	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●	●▲▼	●▲	●▲▼	●▲	●▲	●▲	●▲		
180		●▲	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●	●▲▼	●▲	●▲▼	●▲	●▲	●▲	●▲		
190		●▲	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●	●▲▼	●▲	●▲▼	●▲	●▲	●▲	●▲		
200		●▲	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●	●▲▼	●▲	●▲▼	●▲	●▲	●▲	●▲		
210			●▲	●▲▼	●▲▼		●▲▼		●▲▼		●▲▼	●▲	●▲	●▲	●▲		
220			●▲	●▲▼	●▲▼		●▲▼		●▲▼		●▲▼	●▲	●▲	●▲	●▲		
230			●▲	●▲▼	●▲▼		●▲▼		●▲▼		●▲▼	●▲	●▲	●▲	●▲		

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HEXAGON HEAD BOLTS DIN 931



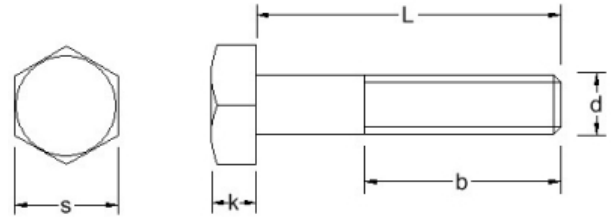
Material grades: A2: ● A4: ▲ A4-80: ▼

b (Max)	16	18	22	26	30	34	38	42	46	50	54	60	66	72	78		
b (Max) (L > 125mm)	22	24	28	32	36	40	44	48	52	56	56	66	72	78	90		
k (Min)	3.35	3.85	5.15	6.22	7.32	8.62	9.82	11.28	12.28	13.78	14.78	16.65	18.28	20.58	22.1		
Pitch	0.8	1.0	1.25	1.5	1.75	2.0	2.0	2.5	2.5	2.5	3.0	3.0	3.5	3.5	4.0		
s	8	10	13	17	19	22	24	27	30	34	36	41	46	50	55		
Length/dim	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36		
240			●▲	●▲▼	●▲▼		●▲▼		●▲▼		●▲▼	●▲	●▲	●▲	●▲		
250			●▲	●▲▼	●▲▼		●▲▼		●▲▼		●▲▼	●▲	●▲	●▲	●▲		
260			●▲	●▲	●▲		●▲		●▲		●▲	●▲	●▲	●▲	●▲		
270			●▲	●▲	●▲		●▲		●▲		●▲	●▲	●▲	●▲	●▲		
280			●▲	●▲	●▲		●▲		●▲		●▲	●▲	●▲	●▲	●▲		
290			●▲	●▲	●▲		●▲		●▲		●▲	●▲	●▲	●▲	●▲		
300			●▲	●▲	●▲		●▲		●▲		●▲	●▲	●▲	●▲	●▲		
320				●▲	●		●▲		●▲		●▲						
340				●▲	●		●▲		●▲		●▲						
360				●▲	●		●▲		●▲		●▲						
380				●▲	●		●▲		●▲		●▲						
400				●▲	●		●▲		●▲		●▲						
420				●	●		●▲		●▲		●▲						
440				●	●		●▲		●▲		●▲						
460				●	●		●▲		●▲		●▲						

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HEXAGON HEAD BOLTS DIN 931



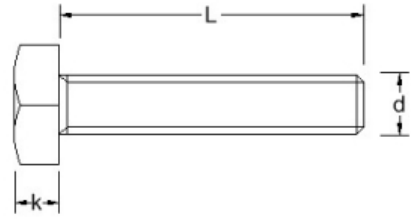
Material grades: A2: ● A4: ▲

b (Max)	16	18	22	26	30	34	38	42	46	50	54	60	66	72	78		
b (Max) (L > 125mm)	22	24	28	32	36	40	44	48	52	56	56	66	72	78	90		
k (Min)	3.35	3.85	5.15	6.22	7.32	8.62	9.82	11.28	12.28	13.78	14.78	16.65	18.28	20.58	22.1		
Pitch	0.8	1.0	1.25	1.5	1.75	2.0	2.0	2.5	2.5	2.5	3.0	3.0	3.5	3.5	4.0		
s	8	10	13	17	19	22	24	27	30	34	36	41	46	50	55		
Length/dim	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36		
480				●	●		●▲		●▲		●▲						
500				●	●		●▲		●▲		●▲						
520									●		●						
540									●		●						
560									●		●						
580									●		●						
600									●		●						

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HEXAGON HEAD SET SCREWS DIN 933

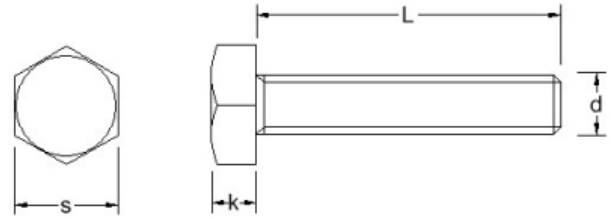


Material grades: A2: ● A4: ▲ A4-80: ▼

k (Max)	1.6	2	2.1	2.9	3.6	4.1	5.4	6.6	7.7	9	10.1	11.7	12.7	14.2	14.78	16.65	19.1
Pitch	0.4	0.45	0.5	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.0	2.5	2.5	2.5	3.0	3.0	3.5
s	4	5	5.5	7	8	10	13	17	19	22	24	27	30	32	36	41	46
Length/dim	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30
3	●▲	●▲	●▲														
4	●▲	●▲	●▲	●▲													
5	●▲	●▲	●▲	●▲	●▲												
6	●▲	●▲	●▲	●▲▼	●▲	●▲											
8	●▲	●▲	●▲	●▲▼	●▲▼	●▲▼	●▲										
10	●▲	●▲	●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲									
12	●▲	●▲	●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲								
14	●▲	●▲	●▲	●▲▼	●▲▼	●▲▼	●▲	●▲	●▲								
16	●▲	●▲	●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼		●▲						
18	●▲	●▲	●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲								
20	●▲	●▲	●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲		●▲				
22			●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲								
25			●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲				
28							●										
30			●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲	●▲	
35			●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲	●▲	
40			●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲	●▲▼	

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HEXAGON HEAD SET SCREWS DIN 933



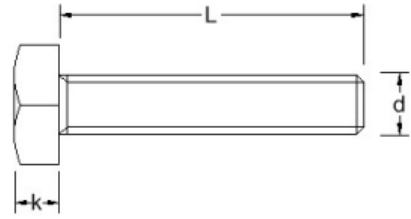
Material grades:

Length/dim	M33	M36												
k (Max)	21.4	22.92												
Pitch	3.5	4.0												
s	50	55												
3														
4														
5														
6														
8														
10														
12														
14														
16														
18														
20														
22														
25														
28														
30														
35														
40														

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HEXAGON HEAD SET SCREWS DIN 933



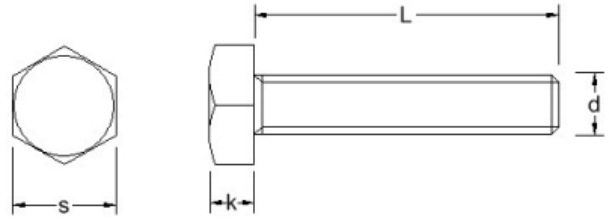
Material grades: A2: ● A4: ▲ A4-80: ▼

k (Max)	1.6	2	2.1	2.9	3.6	4.1	5.4	6.6	7.7	9	10.1	11.7	12.7	14.2	14.78	16.65	19.1
Pitch	0.4	0.45	0.5	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.0	2.5	2.5	2.5	3.0	3.0	3.5
s	4	5	5.5	7	8	10	13	17	19	22	24	27	30	32	36	41	46
Length/dim	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30
45			●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼		
50			●▲	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲▼	●▲
55				●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲▼	●▲
60				●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲▼	●▲▼
65				●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲▼	●▲▼
70				●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲▼	●▲▼
75				●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲▼	●▲▼
80				●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲▼	●▲▼
85					●▲▼	●▲▼	●▲▼	●▲▼	▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲▼	●▲▼
90					●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲▼	●▲▼
95					●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲▼	●▲▼
100					●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲▼	●▲▼
110						●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲▼	●▲▼
120						●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲▼	●▲▼
130						●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲▼	●▲▼
140						●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲▼	●▲▼
150						●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲▼	●▲	●▲▼	●▲	●▲▼	●▲▼	●▲▼

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HEXAGON HEAD SET SCREWS DIN 933



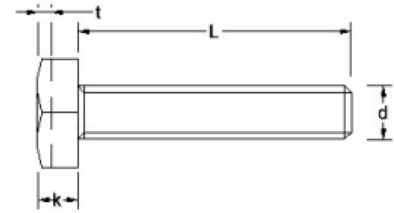
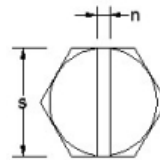
Material grades: A2: ● A4: ▲ A4-80: ▼

k (Max)	1.6	2	2.1	2.9	3.6	4.1	5.4	6.6	7.7	9	10.1	11.7	12.7	14.2	14.78	16.65	19.1
Pitch	0.4	0.45	0.5	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.0	2.5	2.5	2.5	3.0	3.0	3.5
s	4	5	5.5	7	8	10	13	17	19	22	24	27	30	32	36	41	46
Length/dim	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30
160							●▲▼	●▲▼	●▲▼		●▲▼		●▲▼		●▲▼	●▲	●▲
170							●▲▼	●▲▼	●▲▼		●▲▼		●▲▼		●▲▼	●▲	●▲
180							●▲▼	●▲▼	●▲▼		●▲▼		●▲▼		●▲▼	●▲	●▲
190							●▲▼	●▲▼	●▲▼		●▲▼		●▲▼		●▲▼	●▲	●▲
200							●▲▼	●▲▼	●▲▼		●▲▼		●▲▼		●▲▼	●▲	●▲

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SLOTTED HEXAGON HEAD SET SCREW DIN 933SZ

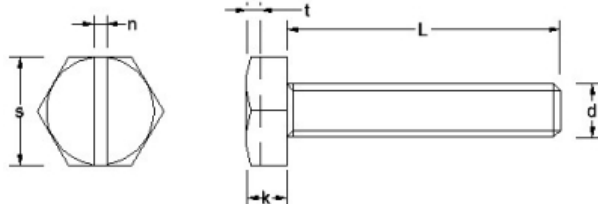


Material grades: A2: ●

k (Max)	2.1	3.0	3.5	4.0	5.3	6.4													
n	0.8	1.0	1.2	1.6	2.0	2.0													
Pitch	0.5	0.7	0.8	1.0	1.25	1.5													
s	5.5	7	8	10	13	17													
t	0.8	1.1	1.4	1.6	2.1	2.1													
Length/dim	M3	M4	M5	M6	M8	M10													
5	●	●																	
6	●	●	●																
8	●	●	●	●															
10	●	●	●	●	●														
12	●	●	●	●	●	●													
14	●	●	●	●	●	●													
16	●	●	●		●	●													
18		●	●	●	●	●													
20	●	●	●	●	●	●													
22		●	●	●	●	●													
25	●	●	●	●	●	●													
30	●	●	●	●	●	●													
35	●	●	●	●	●	●													
40	●	●	●	●	●	●													
45	●	●	●	●	●	●													

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SLOTTED HEXAGON HEAD SET SCREW DIN 933SZ



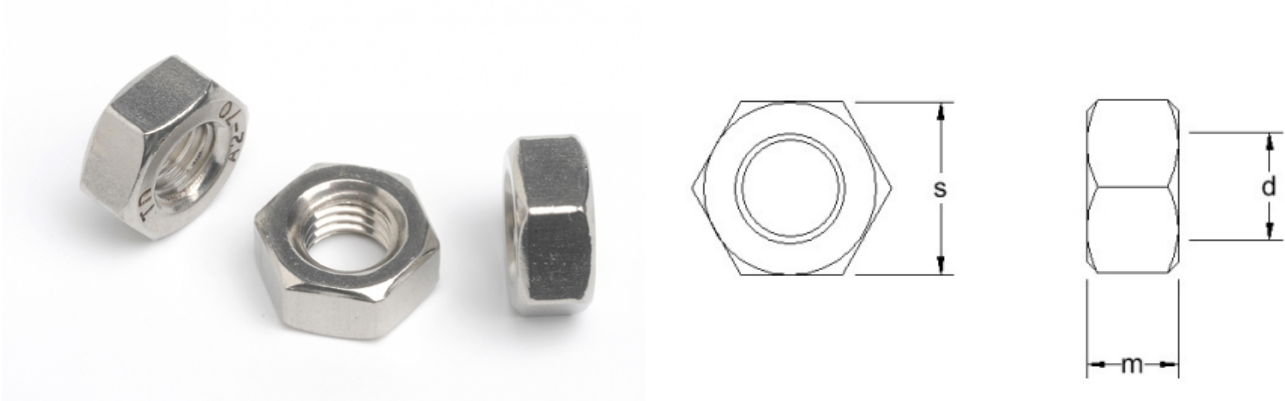
Material grades: A2: ●

k (Max)	2.1	3.0	3.5	4.0	5.3	6.4												
n	0.8	1.0	1.2	1.6	2.0	2.0												
Pitch	0.5	0.7	0.8	1.0	1.25	1.5												
s	5.5	7	8	10	13	17												
t	0.8	1.1	1.4	1.6	2.1	2.1												
Length/dim	M3	M4	M5	M6	M8	M10												
50	●	●	●	●	●	●												
55		●	●	●	●	●												
60		●	●	●	●	●												
65				●	●	●												
70			●	●	●	●												
75				●	●	●												
80				●	●	●												

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HEXAGON FULL NUTS DIN 934

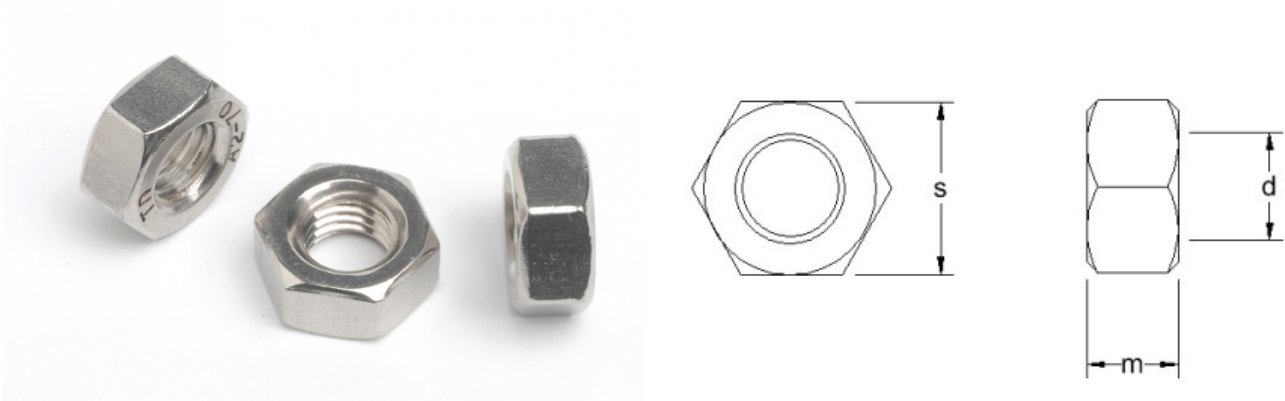


Material grades: A2: ● A4: ▲

m (Max)	0.8	1.0	1.2	1.3	1.4	1.6	1.8	2.0	2.0	2.4	2.8	3.2	4.0	5.0	5.5	6.5	8.0
Pitch	0.25	0.25	0.30	0.35	0.35	0.40	0.45	0.45	0.45	0.50	0.60	0.70	0.80	1.00	1.00	1.25	1.50
s	2.5	3.0	3.0	3.2	3.5	4.0	4.5	5.0	5.0	5.5	6.0	7.0	8.0	10	11	13	17
Length/dim	M1.0	M1.2	M1.4	M1.6	M1.7	M2	M2.3	M2.5	M2.6	M3	M3.5	M4	M5	M6	M7	M8	M10
	●	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲

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HEXAGON FULL NUTS DIN 934



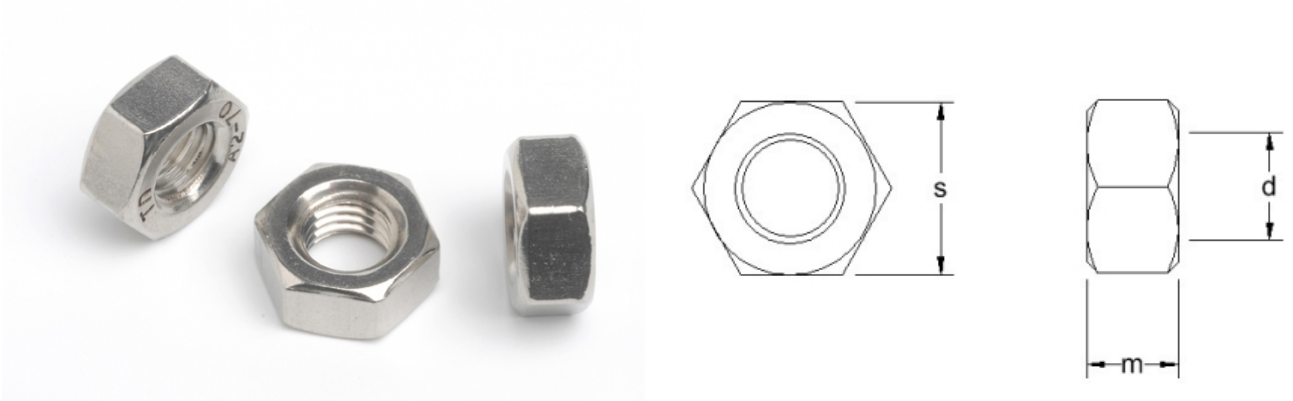
Material grades: A2: ● A4: ▲

m (Max)	10	11	13	15	16	18	19	22	24	26	29	31	34	36	38	42	*
Pitch	1.75	2.00	2.00	2.50	2.50	2.50	3.00	3.00	3.50	3.50	4.00	4.00	4.40	4.50	5.00	5.00	*
s	19	22	24	27	30	32	36	41	46	50	55	60	65	70	75	80	*
Length/dim	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36	M39	M42	M45	M48	M52	M56
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) >



FINE THREAD HEXAGON FULL NUTS DIN 934

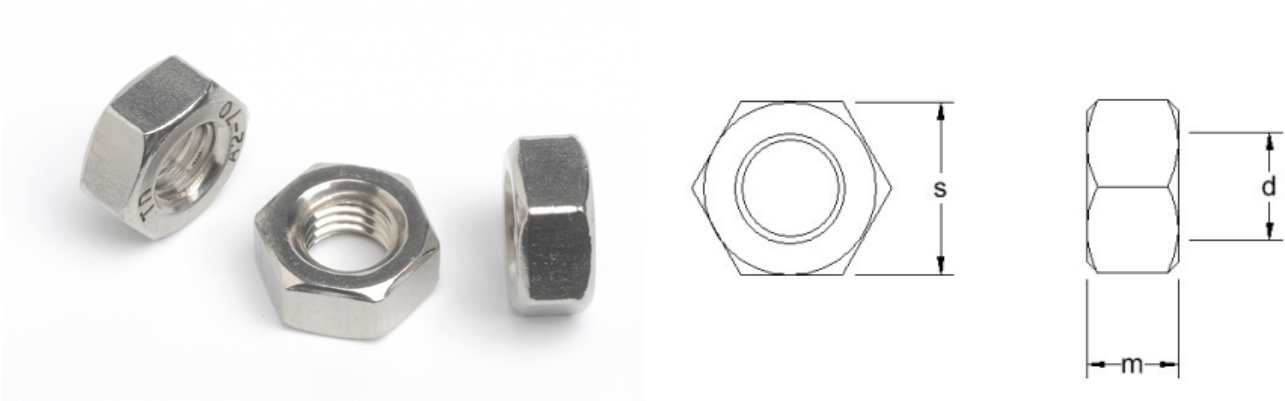


Material grades: A2: ● A4: ▲

m (Max)	6.5	8.0	10	11	13	15	16	18	19	22	24	29						
s (Max)	13	17	19	22	24	27	30	32	36	41	46	55						
Length/dim	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M36						
1.0	●▲	●▲																
1.25		●▲	●▲															
1.5			●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
2.0							●▲		●▲	●▲	●▲							
3.0													●▲					

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LEFT HAND THREAD HEXAGON FULL NUTS DIN 934



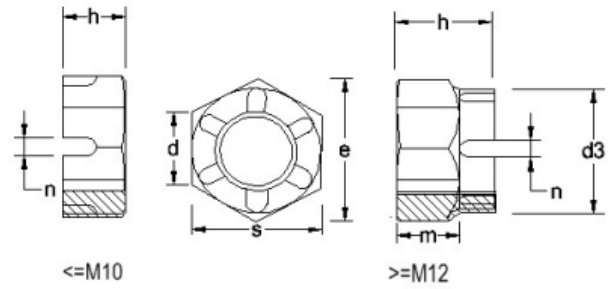
Material grades: A2: ● A4: ▲

m (Max)	2.4	3.2	4.0	5.0	6.5	8.0	10	11	13	15	16	18	19	22	24		
Pitch	0.50	0.70	0.80	1.00	1.25	1.50	1.75	2.00	2.00	2.50	2.50	2.50	3.00	3.00	3.50		
s (Max)	5.5	7.0	8.0	10	13	17	19	22	24	27	30	32	36	41	46		
Length/dim	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30		
	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲		

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HEXAGON CASTLE NUTS DIN 935

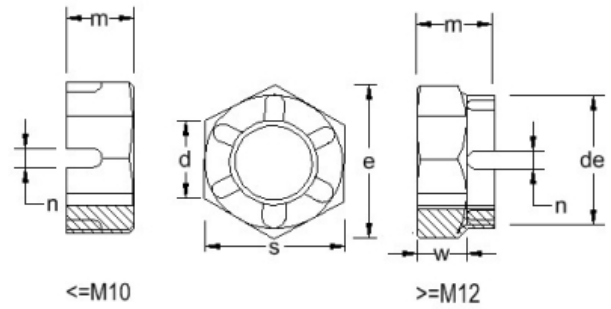


Material grades: A2: ● A4: ▲

d3	-	-	-	-	17	19	22	25	28	34	38	42	50				
e	8.87	11.05	14.38	18.90	21.10	24.49	26.75	30.14	33.53	39.98	45.63	51.28	55.80				
h	6.0	7.5	9.5	12.0	15.0	16.0	19.0	21.0	22.0	27.0	30.0	33.0	38.0				
m	4.0	5.0	6.5	8.0	10.0	11.0	13.0	15.0	16.0	19.0	22.0	24.0	29.0				
n	1.4	2.0	2.5	2.8	3.5	3.5	4.5	4.5	4.5	5.5	5.5	7.0	7.0				
Pitch	0.80	1.00	1.25	1.50	1.75	2.00	2.00	2.50	2.50	3.00	3.00	3.50	4.00				
s	8	10	13	17	19	22	24	27	30	36	41	46	55				
Length/dim	M5	M6	M8	M10	M12	M14	M16	M18	M20	M24	M27	M30	M36				
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				

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HEXAGON CASTLE NUTS THIN TYPE DIN 937



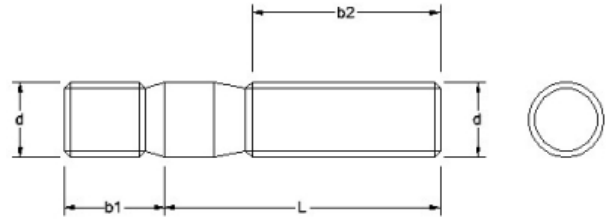
Material grades: A2: ● A4: ▲

de (Min)	-	-	-	16.57	18.48	21.48	24.30	27.30	33.00	37.00	41.00						
e	11.05	14.38	18.90	20.10	24.49	26.75	29.56	32.95	39.55	45.20	50.85						
m (Min)	5.7	7.64	8.64	9.64	10.57	11.57	12.30	12.30	14.30	16.30	17.30						
n (Min)	2.0	2.5	2.8	3.5	3.5	4.5	4.5	4.5	5.5	5.5	7.0						
Pitch	1.00	1.25	1.50	1.75	2.00	2.00	2.50	2.50	3.00	3.00	3.50						
s	10	13	17	19	22	24	27	30	36	41	46						
w	3.5	4.5	5.0	6.0	7.0	7.0	8.0	8.0	9.0	11.0	11.0						
Length/dim	M6	M8	M10	M12	M14	M16	M18	M20	M24	M27	M30						
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						

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DOUBLE END STUDS DIN 938



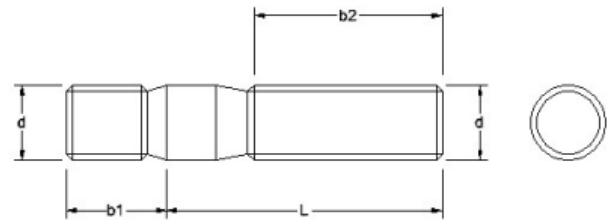
Material grades: A2: ● A4: ▲

b1	6	8	10	12	16	20	24											
b2	18	22	26	30	38	46	54											
Pitch	1.00	1.25	1.50	1.75	2.00	2.50	3.00											
Length/dim	M6	M8	M10	M12	M16	M20	M24											
20	●▲	●▲	●▲	●▲														
25	●▲	●▲	●▲	●▲														
30	●▲	●▲	●▲	●▲	●▲													
35	●▲	●▲	●▲	●▲	●▲	●▲												
40	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
45	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
50		●▲	●▲	●▲	●▲	●▲	●▲	●▲										
55		●▲	●▲	●▲	●▲	●▲	●▲	●▲										
60		●▲	●▲	●▲	●▲	●▲	●▲	●▲										
65		●▲	●▲	●▲	●▲	●▲	●▲	●▲										
70		●▲	●▲	●▲	●▲	●▲	●▲	●▲										
75		●▲	●▲	●▲	●▲	●▲	●▲	●▲										
80		●▲	●▲	●▲	●▲	●▲	●▲	●▲										
85			●▲	●▲	●▲	●▲	●▲	●▲										
90		●▲	●▲	●▲	●▲	●▲	●▲	●▲										
95						▲												
100		●▲	●▲	●▲	●▲	●▲	●▲	●▲										

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#)



DOUBLE END STUDS DIN 938



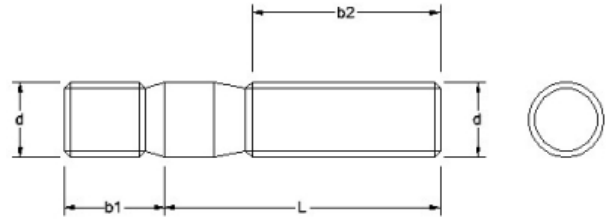
Material grades: A2: ● A4: ▲

b1	6	8	10	12	16	20	24											
b2	18	22	26	30	38	46	54											
Pitch	1.00	1.25	1.50	1.75	2.00	2.50	3.00											
Length/dim	M6	M8	M10	M12	M16	M20	M24											
110			● ▲	● ▲	● ▲	● ▲	● ▲											
120					● ▲	● ▲	● ▲											

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DOUBLE END STUDS DIN 939

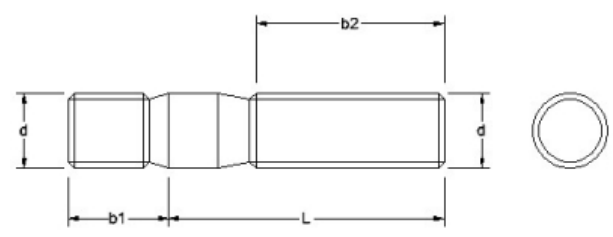


Material grades: A2: ● A4: ▲

b1	7.5	10.0	12.0	15.0	20.0	25.0	30.0												
b2	18	22	26	30	38	46	54												
Pitch	1.00	1.25	1.50	1.75	2.00	2.50	3.00												
Length/dim	M6	M8	M10	M12	M16	M20	M24												
20	●▲	●▲	●▲	●▲															
25	●▲	●▲	●▲	●▲															
30	●▲	●▲	●▲	●▲	●▲														
35	●▲	●▲	●▲	●▲	●▲	●▲													
40	●▲	●▲	●▲	●▲	●▲	●▲													
45	●▲	●▲	●▲	●▲	●▲	●▲													
50		●▲	●▲	●▲	●▲	●▲	●▲												
55		●▲	●▲	●▲	●▲	●▲	●▲												
60		●▲	●▲	●▲	●▲	●▲	●▲												
65		●▲	●▲	●▲	●▲	●▲													
70		●▲	●▲	●▲	●▲	●▲	●▲												
75		●▲	●▲	●▲	●▲	●▲													
80		●▲	●▲	●▲	●▲	●▲	●▲												
85			●▲	●▲	●▲	●▲													
90		●▲	●▲	●▲	●▲	●▲	●▲												
100		●▲	●▲	●▲	●▲	●▲	●▲												
110			●▲	●▲	●▲	●▲	●▲												

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DOUBLE END STUDS DIN 939



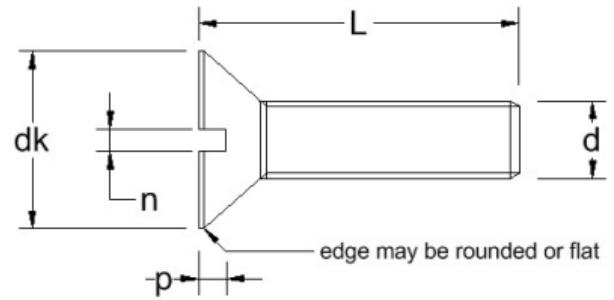
Material grades: A2: ● A4: ▲

b1	7.5	10.0	12.0	15.0	20.0	25.0	30.0										
b2	18	22	26	30	38	46	54										
Pitch	1.00	1.25	1.50	1.75	2.00	2.50	3.00										
Length/dim	M6	M8	M10	M12	M16	M20	M24										
120					●▲	●▲	●▲										

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SLOT COUNTERSUNK MACHINE SCREWS DIN 963

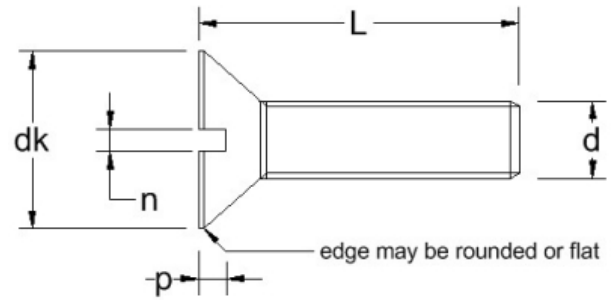


Material grades: A2: ● A4: ▲

dk	1.9	2.3	2.6	3.0	3.8	4.7	5.6	6.5	7.5	9.2	11	14.5	18				
k	0.7	0.8	0.9	1.0	1.3	1.5	1.9	1.90	2.2	2.5	3.0	4.0	5.0				
n	0.25	0.30	0.30	0.40	0.50	0.60	0.80	0.8	1.0	1.2	1.6	2.0	2.5				
Pitch	0.25	0.25	0.30	0.35	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.25	1.5				
p	0.30	0.35	0.40	0.45	0.60	0.70	0.85	1.0	1.1	1.3	1.6	2.1	2.6				
Length/dim	M1.0	M1.2	M1.4	M1.6	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12			
2	●	●	●	●													
3	●	●	●	●▲	●▲												
4	●	●	●	●▲	●▲	●▲	●▲										
5	●	●	●	●▲	●▲	●▲	●▲	●	●▲								
6	●	●	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲							
8	●	●	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
10	●	●	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲					
12		●	●	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
14				●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
16				●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲			
18					●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲			
20				●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲		
22					●▲	●▲	●▲	●▲		●	●▲	●▲	●				
25					●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲		
28					●▲												

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) >

SLOT COUNTERSUNK MACHINE SCREWS DIN 963



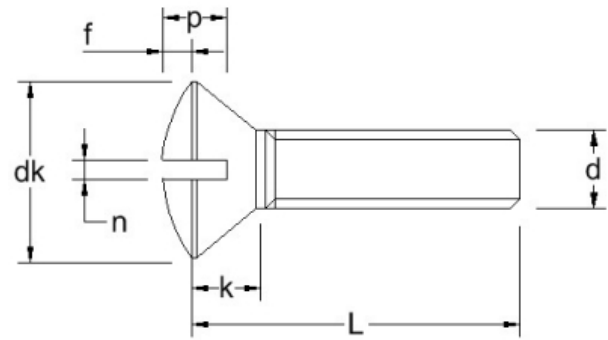
Material grades: A2: ● A4: ▲

dk	1.9	2.3	2.6	3.0	3.8	4.7	5.6	6.5	7.5	9.2	11	14.5	18				
k	0.7	0.8	0.9	1.0	1.3	1.5	1.9	1.90	2.2	2.5	3.0	4.0	5.0				
n	0.25	0.30	0.30	0.40	0.50	0.60	0.80	0.8	1.0	1.2	1.6	2.0	2.5				
Pitch	0.25	0.25	0.30	0.35	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.25	1.5				
p	0.30	0.35	0.40	0.45	0.60	0.70	0.85	1.0	1.1	1.3	1.6	2.1	2.6				
Length/dim	M1.0	M1.2	M1.4	M1.6	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12			
30					●▲	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲			
35					●▲		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲			
40					●▲		●▲	●	●▲	●▲	●▲	●▲	●▲	●▲			
45							●▲		●▲	●▲	●▲	●▲	●▲	●▲			
50							●▲		●▲	●▲	●▲	●▲	●▲	●▲			
55							●▲		●▲	●▲	●▲	●▲	●▲	●▲			
60							●▲		●▲	●▲	●▲	●▲	●▲	●▲			
65										●▲	●▲	●▲	●▲	●▲			
70									●▲	●▲	●▲	●▲	●▲	●▲			
75										●▲	●▲	●▲	●▲	●▲			
80									●▲	●▲	●▲	●▲	●▲	●▲			
90										●▲	●▲	●▲	●▲	●▲			
100										●▲	●▲	●▲	●▲	●▲			
110											●	●▲	●▲	●▲			
120											●	●▲	●▲				

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SLOT RAISED COUNTERSUNK MACHINE SCREWS DIN 964

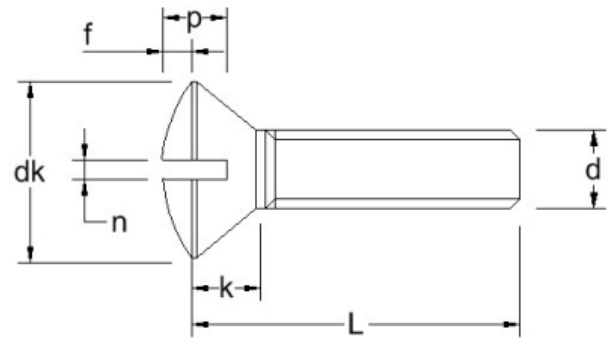


Material grades: A2: ● A4: ▲

dk	3.8	4.7	5.6	7.5	9.2	11	14.5	18										
f	0.5	0.6	0.75	1.0	1.25	1.5	2.0	*										
k (Max)	1.2	1.5	1.65	2.2	2.5	3.0	4.0	5.0										
n	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5										
Pitch	0.4	0.45	0.5	0.7	0.8	1.0	1.25	1.5										
p (Min)	0.8	1.0	1.2	1.6	2.0	2.4	3.2	4.0										
Length/dim	M2	M2.5	M3	M4	M5	M6	M8	M10										
4	●▲																	
5	●▲	●▲	●▲	●▲														
6	●▲	●▲	●▲	●▲	●▲													
8	●▲	●▲	●▲	●▲	●▲	●▲												
10	●▲	●▲	●▲	●▲	●▲	●▲	●											
12	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
14	●		●▲	●▲	●▲													
16	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
18	●		●▲	●▲	●▲		●▲											
20	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●										
22			●▲	●▲	●▲	●▲												
25	●	●	●▲	●▲	●▲	●▲	●▲	●▲										
30		●	●▲	●▲	●▲	●▲	●▲	●▲										
35			●▲	●▲	●▲	●▲	●▲	●▲										

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) >

SLOT RAISED COUNTERSUNK MACHINE SCREWS DIN 964



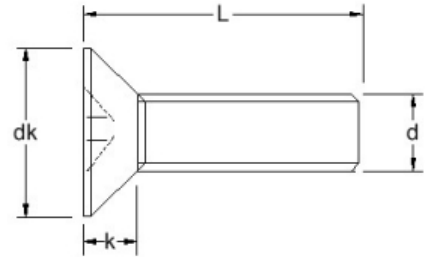
Material grades: A2: ● A4: ▲

dk	3.8	4.7	5.6	7.5	9.2	11	14.5	18										
f	0.5	0.6	0.75	1.0	1.25	1.5	2.0	*										
k (Max)	1.2	1.5	1.65	2.2	2.5	3.0	4.0	5.0										
n	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5										
Pitch	0.4	0.45	0.5	0.7	0.8	1.0	1.25	1.5										
p (Min)	0.8	1.0	1.2	1.6	2.0	2.4	3.2	4.0										
Length/dim	M2	M2.5	M3	M4	M5	M6	M8	M10										
40			●▲	●▲	●▲	●▲	●▲	●▲										
45			●▲	●▲	●▲	●▲	●▲	●▲										
50			●▲	●▲	●▲	●▲	●▲	●▲										
55				●▲	●▲	●▲		●										
60				●▲	●▲	●▲	●▲	●▲										
70				●▲	●▲	●▲	●▲	▲										
80				●▲	●▲	●▲	●▲	▲										
90					●▲	●▲	●▲	▲										
95							●											
100					●▲	●▲	●▲											

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PHILLIPS COUNTERSUNK MACHINE SCREWS DIN 965 H

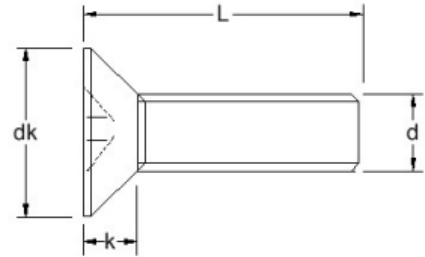


Material grades: A2: ● A4: ▲

Drive	#0	#0	#0	#1	#1	#2	#2	#3	#4	#4							
dk	2.6	3.0	3.8	4.7	5.6	7.5	9.2	11	14.5	18							
k (Max)	0.9	0.96	1.2	1.5	1.65	2.2	2.5	3.0	4.0	5.0							
Pitch	0.30	0.35	0.4	0.45	0.5	0.7	0.8	1.0	1.25	1.5							
Length/dim	M1.4	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10							
2	●	●▲															
3	●	●▲	●▲														
4	●	●▲	●▲	●▲	●▲												
5	●	●▲	●▲	●▲	●▲	●▲											
6	●	●▲	●▲	●▲	●▲	●▲	●▲										
8	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
10	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
12		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							
14		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							
16		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
18		●▲	●▲	●▲	●▲	●▲	●▲	●▲									
20		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
22				●▲	●▲	●▲	●▲	●▲	●▲	●▲							
25				●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
30					●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲					
35					●▲	●▲	●▲	●▲	●▲	●▲	●▲						

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PHILLIPS COUNTERSUNK MACHINE SCREWS DIN 965 H



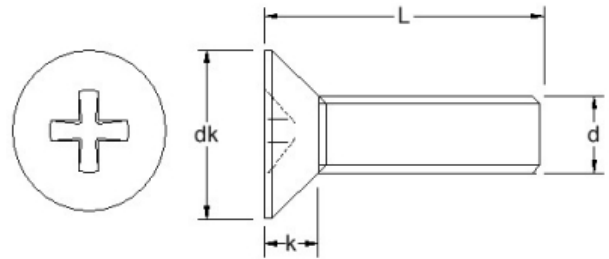
Material grades: A2: ● A4: ▲

Drive	#0	#0	#0	#1	#1	#2	#2	#3	#4	#4							
dk	2.6	3.0	3.8	4.7	5.6	7.5	9.2	11	14.5	18							
k (Max)	0.9	0.96	1.2	1.5	1.65	2.2	2.5	3.0	4.0	5.0							
Pitch	0.30	0.35	0.4	0.45	0.5	0.7	0.8	1.0	1.25	1.5							
Length/dim	M1.4	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10							
40					●▲	●▲	●▲	●▲	●▲	●▲							
45					●▲	●▲	●▲	●▲	●▲	●▲							
50					●▲	●▲	●▲	●▲	●▲	●▲							
55							▲	●▲									
60						●▲	●▲	●▲	●▲	●▲							
65								●▲									
70						●▲	●▲	●▲	●▲	●▲							
75								●▲	●								
80						●▲	●▲	●▲	●▲	●▲							
85							●	●▲									
90						●▲	●▲	●▲	●▲	●▲							
95							●										
100						●	●▲	●▲	●▲	●▲							
110									●								
120									●								
130									●								

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PHILLIPS COUNTERSUNK MACHINE SCREWS DIN 965 H



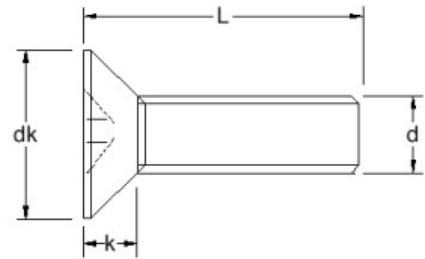
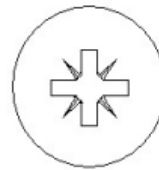
Material grades: A2: ●

Drive	#0	#0	#0	#1	#1	#2	#2	#3	#4	#4							
dk	2.6	3.0	3.8	4.7	5.6	7.5	9.2	11	14.5	18							
k (Max)	0.9	0.96	1.2	1.5	1.65	2.2	2.5	3.0	4.0	5.0							
Pitch	0.30	0.35	0.4	0.45	0.5	0.7	0.8	1.0	1.25	1.5							
Length/dim	M1.4	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10							
150									●								

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POZI COUNTERSUNK MACHINE SCREWS DIN 965 Z



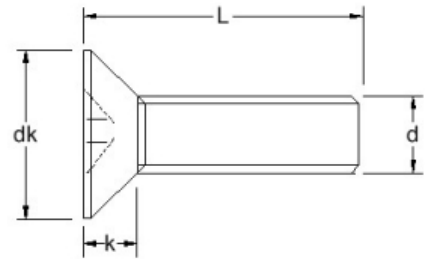
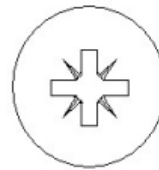
Material grades: A2: ● A4: ▲

Drive	#0	#0	#1	#1	#2	#2	#2	#3	#4	#4							
dk	3.0	3.8	4.7	5.6	6.5	7.5	9.2	11	14.5	18							
k (Max)	0.96	1.2	1.5	1.65	1.9	2.2	2.5	3.0	4.0	5.0							
Pitch	0.35	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.25	1.5							
Length/dim	M1.6	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10							
2	●▲																
3	●▲	●▲	●														
4	●▲	●▲	●▲	●▲													
5	●▲	●▲	●▲	●▲			●▲										
6	●▲	●▲	●▲	●▲	●	●▲	●▲										
8	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲									
10	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲									
12	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲								
14	●▲	●▲	●▲	●▲		●▲	●▲	●▲									
16	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲								
18	●▲	●▲	●▲	●▲		●▲	●▲	●▲									
20	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲	●▲							
22			●▲	●▲		●▲	●▲	●▲									
25		●▲	●▲	●▲	●	●▲	●▲	●▲	●▲	●▲							
28							●▲										
30		●▲	●▲	●▲	●	●▲	●▲	●▲	●▲	●▲							

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POZI COUNTERSUNK MACHINE SCREWS DIN 965 Z

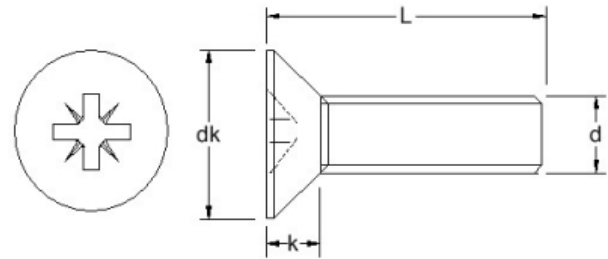


Material grades: A2: ● A4: ▲

Drive	#0	#0	#1	#1	#2	#2	#2	#3	#4	#4							
dk	3.0	3.8	4.7	5.6	6.5	7.5	9.2	11	14.5	18							
k (Max)	0.96	1.2	1.5	1.65	1.9	2.2	2.5	3.0	4.0	5.0							
Pitch	0.35	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.25	1.5							
Length/dim	M1.6	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10							
35				●▲		●▲	●▲	●▲	●▲	●▲							
40				●▲		●▲	●▲	●▲	●▲	●▲							
45				●▲		●▲	●▲	●▲	●▲	●▲							
50				●▲		●▲	●▲	●▲	●▲	●▲							
55				●▲		●▲	●▲	●▲									
60				●▲		●▲	●▲	●▲	●▲	●▲							
65						●▲	●▲	●▲									
70						●▲	●▲	●▲	●▲	●▲							
75						●▲		●▲									
80						●▲	●▲	●▲	●▲	●▲							
85						●▲											
90						●▲	●▲	●▲	●▲	●▲							
95						●▲											
100						●▲	●▲	●▲	●▲	●▲							
110								●▲									
120								●▲									

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POZI COUNTERSUNK MACHINE SCREWS DIN 965 Z



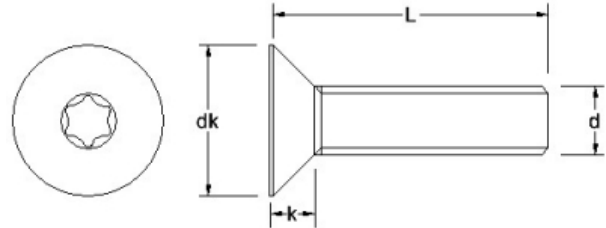
Material grades: A2: ● A4: ▲

Drive	#0	#0	#1	#1	#2	#2	#2	#3	#4	#4							
dk	3.0	3.8	4.7	5.6	6.5	7.5	9.2	11	14.5	18							
k (Max)	0.96	1.2	1.5	1.65	1.9	2.2	2.5	3.0	4.0	5.0							
Pitch	0.35	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.25	1.5							
Length/dim	M1.6	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10							
130								●▲									
140								●▲									

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TX COUNTERSUNK MACHINE SCREWS DIN 965 TX

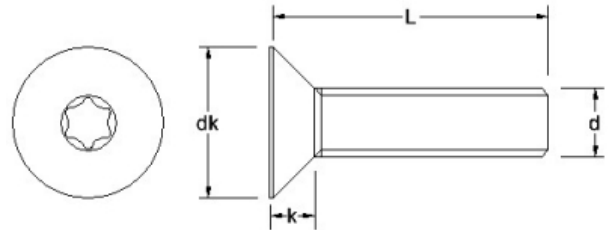


Material grades: A2: ● A4: ▲

dk (Max)	3.2	3.8	4.7	5.6	7.5	9.2	11	14.5									
k	0.96	1.2	1.5	1.65	2.2	2.5	3.0	4.0									
Pitch	0.35	0.4	0.45	0.5	0.7	0.8	1.0	1.25									
Length/dim	M1.6	M2	M2.5	M3	M4	M5	M6	M8									
2	●▲																
3	●▲	●▲	●▲														
4	●▲	●▲	●▲	●▲													
5	●▲	●▲	●▲	●▲	●▲												
6	●▲	●▲	●▲	●▲	●▲	●▲											
8	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
10	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
12	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
14	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
16	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
18	●▲	●▲	●▲	●▲	●▲	●	●▲										
20	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
22			●▲	●▲	●▲	●▲	●▲										
25			●▲	●▲	●▲	●▲	●▲	●▲									
28						●▲											
30				●▲	●▲	●▲	●▲	●▲									
35				●▲	●▲	●▲	●▲	●▲									

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TX COUNTERSUNK MACHINE SCREWS DIN 965 TX



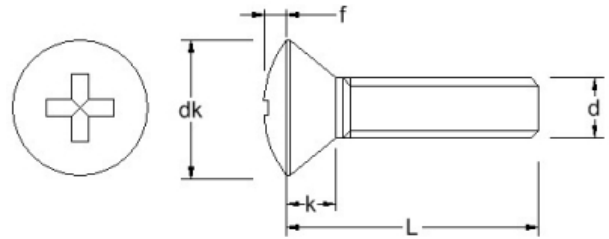
Material grades: A2: ● A4: ▲

dk (Max)	3.2	3.8	4.7	5.6	7.5	9.2	11	14.5										
k	0.96	1.2	1.5	1.65	2.2	2.5	3.0	4.0										
Pitch	0.35	0.4	0.45	0.5	0.7	0.8	1.0	1.25										
Length/dim	M1.6	M2	M2.5	M3	M4	M5	M6	M8										
40				●▲	●▲	●▲	●▲	●▲										
45				●▲	●▲	●▲	●▲	●▲										
50				●▲	●▲	●▲	●▲	●▲										
55				●▲	●▲	●▲	●▲											
60				●▲	●▲	●▲	●▲	●▲										
65					●▲	●▲	●▲											
70					●▲	●▲	●▲	●▲										
75					●▲	●▲	●▲											
80					●▲	●▲	●▲	●▲										
85					●▲	●▲	●▲											
90					●▲	●▲	●▲											
95					●▲	●▲	●▲											
100					●▲	●▲	●▲											
110							●▲											
120							●▲											
130							●▲											
140							●▲											

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PHILLIPS RAISED COUNTERSUNK MACHINE SCREWS DIN 966 H

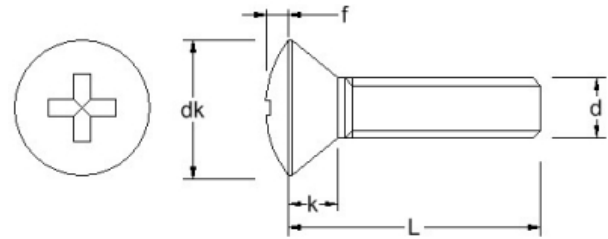


Material grades: A2: ● A4: ▲

Drive	#1	#1	#1	#2	#2	#3	#4	#4										
dk	3.8	4.7	5.6	7.5	9.2	11	14.5	18										
f	0.5	0.6	0.75	1.0	1.25	1.5	2.0	2.5										
k	1.2	1.5	1.65	2.2	2.5	3.0	4.0	5.0										
Pitch	0.40	0.45	0.5	0.7	0.8	1.0	1.25	1.5										
Length/dim	M2	M2.5	M3	M4	M5	M6	M8	M10										
3	●▲																	
4	●▲	●▲	●▲															
5	●▲	●▲	●▲	●▲														
6	●▲	●▲	●▲	●▲	●▲													
8	●▲	●▲	●▲	●▲	●▲	●▲												
10	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
12	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
14	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
16	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
18	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
20	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●									
22			●▲	●▲	●▲	●▲	●▲											
25	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●									
28			●▲	●▲	●▲	●▲												
30	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									

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PHILLIPS RAISED COUNTERSUNK MACHINE SCREWS DIN 966 H



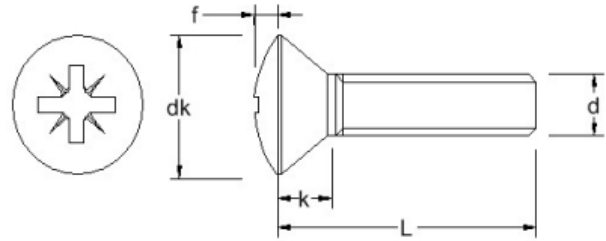
Material grades: A2: ● A4: ▲

Drive	#1	#1	#1	#2	#2	#3	#4	#4									
dk	3.8	4.7	5.6	7.5	9.2	11	14.5	18									
f	0.5	0.6	0.75	1.0	1.25	1.5	2.0	2.5									
k	1.2	1.5	1.65	2.2	2.5	3.0	4.0	5.0									
Pitch	0.40	0.45	0.5	0.7	0.8	1.0	1.25	1.5									
Length/dim	M2	M2.5	M3	M4	M5	M6	M8	M10									
35			●▲	●▲	●▲	●▲	●▲	●▲									
40			●▲	●▲	●▲	●▲	●▲	●▲									
45			●▲	●▲	●▲	●▲	●▲										
50			●▲	●▲	●▲	●▲	●▲	●▲									
55				●▲	●▲	●▲											
60				●▲	●▲	●▲	●▲	●▲									
65				●▲	●▲	●▲											
70				●▲	●▲	●▲	●▲										
75				●▲	●▲	●▲											
80				●▲	●▲	●▲	●▲										
85					●▲	●▲											
90					●▲	●▲	●▲										
95					▲	●▲											
100					●▲	●▲	●▲										

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POZI RAISED COUNTERSUNK MACHINE SCREWS DIN 966 Z

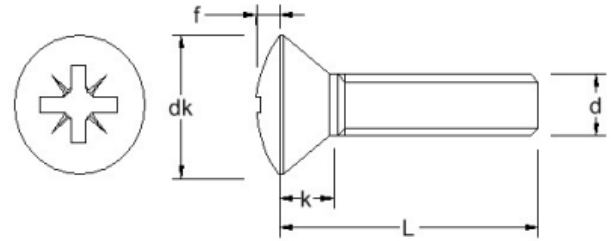


Material grades: A2: ● A4: ▲

Drive	#1	#1	#1	#2	#2	#3												
dk	3.8	4.7	5.6	7.5	9.2	11												
f	*	0.6	0.75	1.0	1.25	1.5												
k	1.2	1.5	1.65	2.2	2.5	3.0												
Pitch	0.40	0.45	0.5	0.7	0.8	1.0												
Length/dim	M2	M2.5	M3	M4	M5	M6												
3	●▲																	
4	●▲	●▲	●▲															
5	●▲	●▲	●▲	●▲														
6	●▲	●▲	●▲	●▲	●▲													
8	●▲	●▲	●▲	●▲	●▲	●▲												
10	●▲	●▲	●▲	●▲	●▲	●▲												
12	●▲	●▲	●▲	●▲	●▲	●▲												
14	●▲	●▲	●▲	●▲	●▲	●▲												
16	●▲	●▲	●▲	●▲	●▲	●▲												
18	●▲	●▲	●▲	●▲	●▲	●▲												
20	●▲	●▲	●▲	●▲	●▲	●▲												
22			●▲	●▲	●	●▲												
25	●▲	●▲	●▲	●▲	●▲	●▲												
28			●▲	●▲	●▲	●▲												
30	●▲	●▲	●▲	●▲	●▲	●▲												

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POZI RAISED COUNTERSUNK MACHINE SCREWS DIN 966 Z



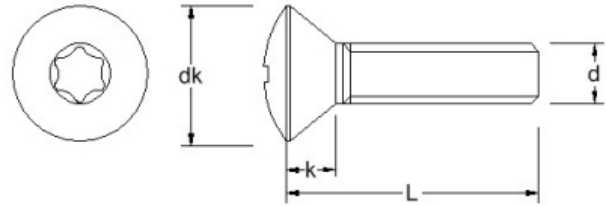
Material grades: A2: ● A4: ▲

Drive	#1	#1	#1	#2	#2	#3												
dk	3.8	4.7	5.6	7.5	9.2	11												
f	*	0.6	0.75	1.0	1.25	1.5												
k	1.2	1.5	1.65	2.2	2.5	3.0												
Pitch	0.40	0.45	0.5	0.7	0.8	1.0												
Length/dim	M2	M2.5	M3	M4	M5	M6												
35			●▲	●▲	●▲	●▲												
40			●▲	●▲	●▲	●▲												
45			●▲	●▲	●▲	●▲												
50			●▲	●▲	●▲	●▲												
55				●▲	●▲	●▲												
60				●▲	●▲	●▲												
65				●▲	●▲	●▲												
70				●▲	●▲	●▲												
75				●▲	●▲	●▲												
80				●▲	●▲	●▲												
85					●▲	●▲												
90					▲	●▲												
95					●▲	●▲												
100					●▲	●▲												

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TX RAISED COUNTERSUNK MACHINE SCREWS DIN 966 TX

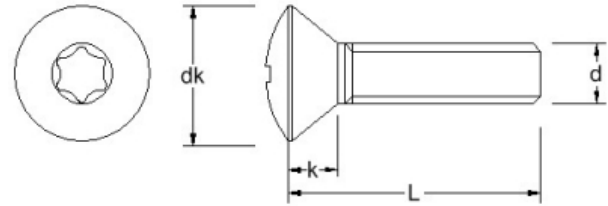


Material grades: A2: ● A4: ▲

Drive	T6	T8	T10	T20	T25	T30												
dk	3.8	4.7	5.6	7.5	9.2	11												
f	0.5	0.6	0.75	1.0	1.25	1.5												
k	1.2	1.5	1.65	2.2	2.5	3.0												
Pitch	0.40	0.45	0.5	0.7	0.8	1.0												
Length/dim	M2	M2.5	M3	M4	M5	M6												
3	●▲																	
4	●▲	●▲	●▲															
5	●▲	●▲	●▲	●▲														
6	●▲	●▲	●▲	●▲	●▲													
8	●▲	●▲	●▲	●▲	●▲	●▲												
10	●▲	●▲	●▲	●▲	●▲	●▲												
12	●▲	●▲	●▲	●▲	●▲	●▲												
14	●▲	●▲	●▲	●▲	●▲	●▲												
16	●▲	●▲	●▲	●▲	●▲	●▲												
18	●▲	●▲	●▲	●▲	●▲	●▲												
20	●▲	●▲	●▲	●▲	●▲	●▲												
22			●▲	●▲	●▲	●▲												
25	●▲	●▲	●▲	●▲	●▲	●▲												
28			●▲	●▲	●▲	●▲												
30	●▲	●▲	●▲	●▲	●▲	●▲												

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TX RAISED COUNTERSUNK MACHINE SCREWS DIN 966 TX



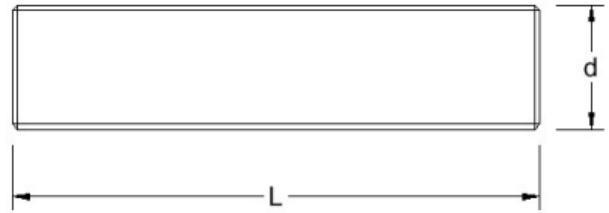
Material grades: A2: ● A4: ▲

Drive	T6	T8	T10	T20	T25	T30												
dk	3.8	4.7	5.6	7.5	9.2	11												
f	0.5	0.6	0.75	1.0	1.25	1.5												
k	1.2	1.5	1.65	2.2	2.5	3.0												
Pitch	0.40	0.45	0.5	0.7	0.8	1.0												
Length/dim	M2	M2.5	M3	M4	M5	M6												
35			●▲	●▲	●▲	●▲												
40			●▲	●▲	●▲	●▲												
45			●▲	●▲	●▲	●▲												
50			●▲	●▲	●▲	●▲												
55				●▲	●▲	●▲												
60				●▲	●▲	●▲												
65				●▲	●▲	●▲												
70				●▲	●▲	●▲												
75				●▲	●▲	●▲												
80				●▲	●▲	●▲												
85					●▲	●▲												
90					●▲	●▲												
95					●▲	●▲												
100					●▲	●▲												

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THREADED ROD DIN 975

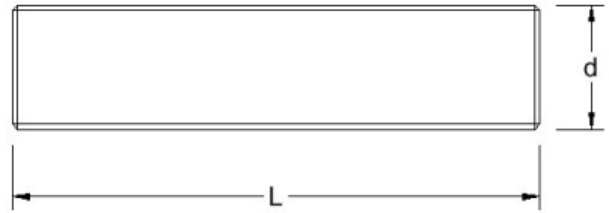


Material grades: A2: ● A4: ▲

L	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Pitch	0.40	0.45	0.50	0.70	0.80	1.00	1.25	1.50	1.75	2.00	2.00	2.50	2.50	3.00	3.50	3.50	4.00
Length/dim	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M24	M30	M33	M36
1MTR	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●

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LEFT HAND THREADED ROD DIN 975



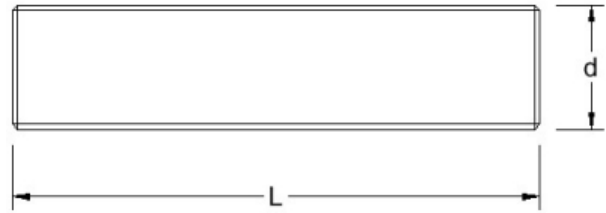
Material grades: A2: ●

L	1000	1000	1000	1000	1000	1000	1000											
Pitch	1.00	1.25	1.50	1.75	2.00	2.50	3.00											
Length/dim	M6	M8	M10	M12	M16	M20	M24											
1MTR	●	●	●	●	●	●	●											

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THREADED STUDS DIN 976

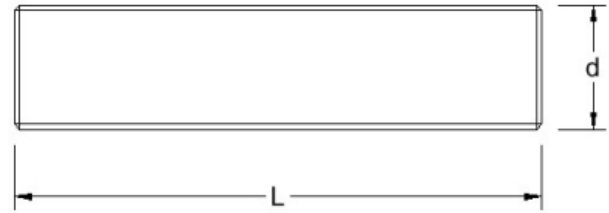


Material grades: A2: ●

Pitch	1.00	1.25	1.50	1.75	2.00													
Length/dim	M6	M8	M10	M12	M16													
25	●	●																
30	●	●																
35	●	●	●															
40	●	●	●	●														
45	●	●	●	●														
50	●	●	●	●	●													
55	●	●	●	●														
60	●	●	●	●	●													
65				●	●													
70	●	●	●	●	●													
75		●	●	●														
80	●	●	●	●	●													
90	●	●	●	●	●													
100	●	●	●	●	●													
110	●	●	●	●	●													
120	●	●	●	●	●													
130		●	●	●	●													
140		●	●	●	●													
150		●	●	●	●													

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THREADED STUDS DIN 976



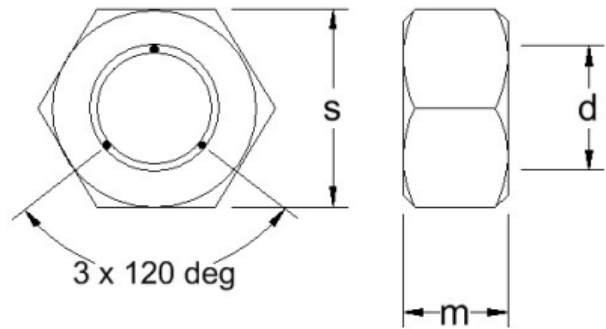
Material grades: A2: ●

Pitch	1.00	1.25	1.50	1.75	2.00												
Length/dim	M6	M8	M10	M12	M16												
160				●	●												
170				●	●												
180				●	●												
190				●													
200		●	●	●	●												
300					●												

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ALLMETAL SELF LOCKING NUTS ART.980

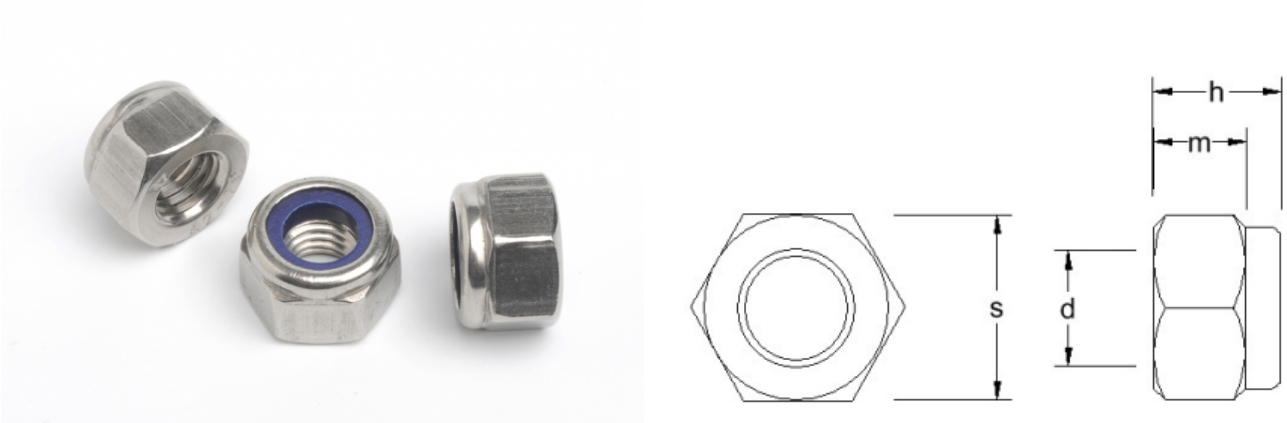


Material grades: A2: ● A4: ▲

m (Max)	2.4	3.2	4.0	5.0	5.5	6.5	8	10	11	13	14.5	16	*	*			
Pitch	0.50	0.70	0.80	1.00	1.00	1.25	1.50	1.75	2.00	2.00	2.50	2.50	2.50	3.00			
s	5.5	7.0	8.0	10	11	13	17	19	22	24	27	30	33	36			
Length/dim	M3	M4	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20	M22	M24			
	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲	●	●▲	●	●▲	●	●			

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NYLON INSERT NUTS HIGH TYPE DIN 982



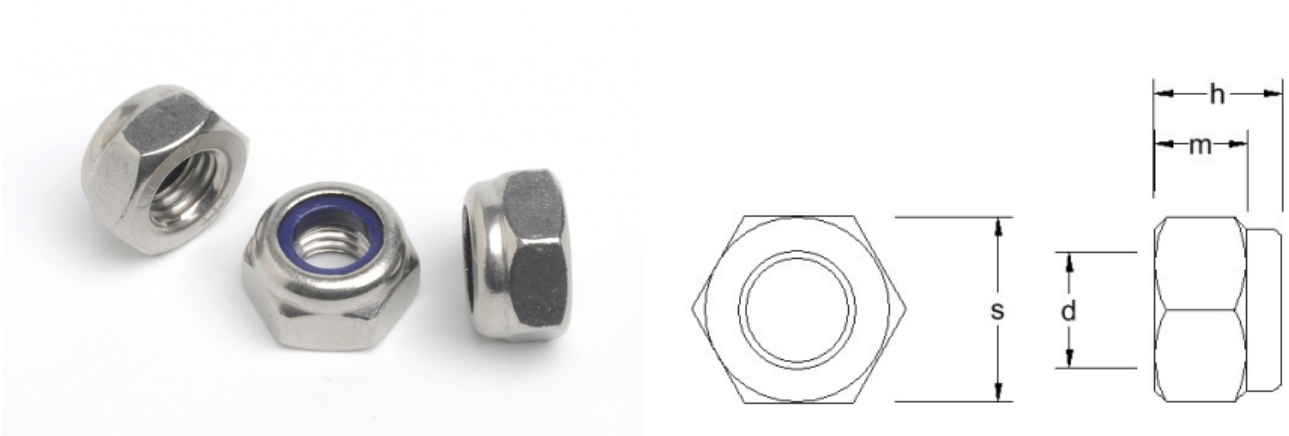
Material grades: A2: ● A4: ▲

h (Max)	4.7	6.3	8.0	9.5	11.5	14	16	18	22	28								
m	3.6	4.4	4.9	6.44	8.04	10.37	12.1	14.1	16.9	20.2								
Pitch	0.70	0.80	1.00	1.25	1.50	1.75	2.00	2.00	2.50	3.00								
s	7.0	8.0	10	13	17	19	22	24	30	36								
Length/dim	M4	M5	M6	M8	M10	M12	M14	M16	M20	M24								
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								

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NYLON INSERT NUTS DIN 985

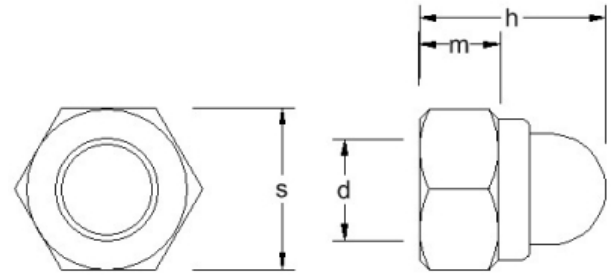


Material grades: A2: ● A4: ▲

h (Max)	3.0	3.8	4.0	*	5.0	5.0	6.0	8.0	10	12	14	16	18.5	20	24	30		
m	2.0	2.0	2.4	*	2.9	3.2	4.0	5.5	6.5	8.0	9.5	10.5	13	14	15	19		
Pitch	0.40	0.45	0.50	0.60	0.70	0.80	1.00	1.25	1.50	1.75	2.00	2.00	2.50	2.50	3.00	3.50		
s	4.0	5.0	5.5	*	7.0	8.0	10	13	17	19	22	24	27	30	36	46		
Length/dim	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M24	M30		
	●	●▲	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	

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NYLON INSERT DOMED NUTS DIN 986



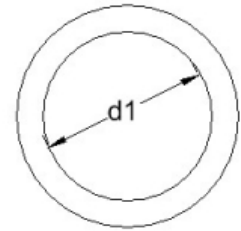
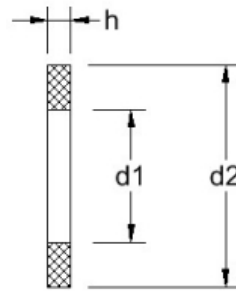
Material grades: A2: ●

h	9.6	10.5	12	14	18.1	22.5	27.5										
m	*	4.4	4.9	6.44	8.04	10.37	*										
Pitch	0.70	0.80	1.00	1.25	1.50	1.75	2.00										
s	7.0	8.0	10	13	17	19	24										
Length/dim	M4	M5	M6	M8	M10	M12	M16										
	●	●	●	●	●	●	●										

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DIN 988 SHIM WASHERS

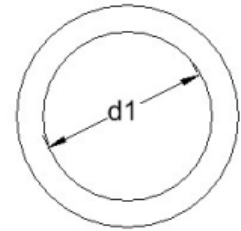
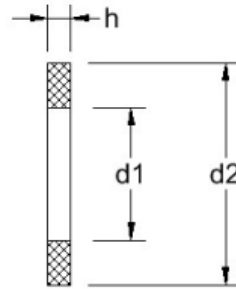


Material grades: A2: ●

d2	3.0	4.0	5.0	6.0	8.0	7.0	8.0	10.0	11.0	12.0	13.0	8.0	14.0	15.0	15.0	16.0	17.0
Thickness/d1	6.0	8.0	10.0	12.0	12.0	13.0	14.0	16.0	17.0	18.0	19.0	20.0	20.0	21.0	22.0	22.0	24.0
0.0500								●									
0.1000	●	●		●		●	●	●	●	●						●	●
0.1500				●													
0.2000	●	●	●	●		●	●	●	●		●		●			●	●
0.2500				●						●							
0.3000	●	●	●	●		●	●			●					●		●
0.4000	●	●															
0.5000	●		●	●	●		●	●		●	●		●	●	●		●
0.8000																	
1.0000	●	●	●	●		●	●	●	●	●	●		●		●		●
1.2000				●				●		●							
1.5000												●	●	●		●	●
2.0000			●					●						●			
2.5000														●			
3.0000																	

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DIN 988 SHIM WASHERS



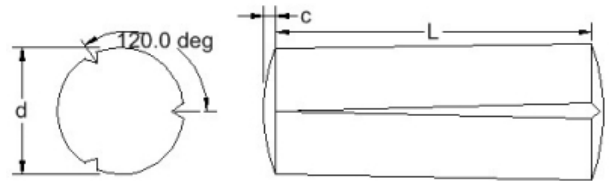
Material grades: A2: ●

d2	18.0	20.0	22.0	25.0	26.0	28.0	30.0	30.0	35.0	37.0	40.0	42.0	45.0	50.0	63.0	70.0
Thickness/d1	25.0	28.0	30.0	35.0	37.0	40.0	40.0	42.0	45.0	47.0	50.0	52.0	55.0	62.0	80.0	80.0
0.0500																
0.1000		●					●	●		●	●		●	●	●	●
0.1500																
0.2000	●				●		●			●			●			
0.2500																
0.3000	●					●		●	●	●						
0.4000																
0.5000	●	●			●		●	●		●	●	●				
0.8000			●													
1.0000	●	●		●		●		●		●	●		●	●		
1.2000																
1.5000									●							
2.0000				●		●			●			●				
2.5000											●					
3.0000											●		●			

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FULL LENGTH TAPER GROOVED PINS DIN 1471

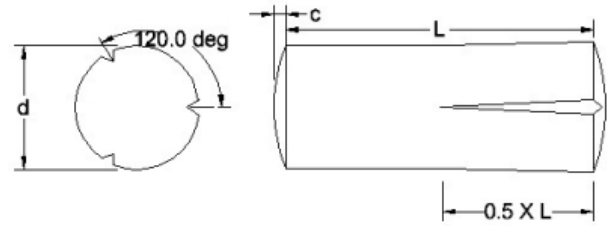


Material grades: A2: ●

c	0.30	0.40	0.50	0.63	0.80	1.00											
Length/dim	2	3	4	5	6	8											
6	●																
8	●	●	●	●													
10	●	●	●	●	●	●											
12	●	●	●	●	●	●											
16	●	●	●	●	●	●											
18	●	●	●	●	●	●											
20	●	●	●	●	●	●											
25		●	●	●	●	●											
30			●	●	●	●											
35			●	●	●	●											
40			●	●	●	●											
45					●	●											
50					●	●											
60					●	●											

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HALF LENGTH TAPER GROOVED PINS DIN 1472



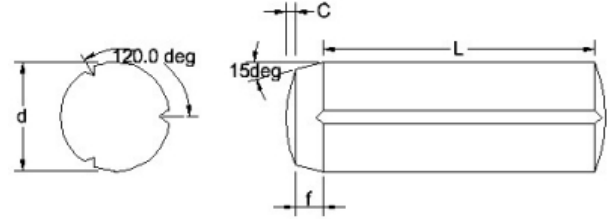
Material grades: A2: ●

c	0.30	0.40	0.50	0.60	0.80	1.00										
Length/dim	2	3	4	5	6	8										
3	●															
4	●															
5	●															
6	●															
8	●	●	●	●												
10	●	●	●	●	●	●										
12	●	●	●	●	●	●										
16	●	●	●	●	●	●										
18	●	●	●	●	●	●										
20	●	●	●	●	●	●										
25		●	●	●	●	●										
30			●	●	●	●										
35			●	●	●	●										
40			●	●	●	●										
45					●	●										
50					●	●										
60					●	●										

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FULL LENGTH PARALLEL GROOVED PINS DIN 1473

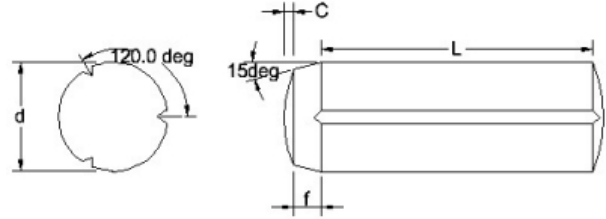


Material grades: A2: ●

c	0.25	0.40	0.50	0.60	0.80	1.00												
f	0.9	1.3	1.8	2.0	2.5	2.8												
Length/dim	2	3	4	5	6	8												
5	●																	
6	●	●																
8	●	●	●															
10	●	●	●	●	●	●												
12	●	●	●	●	●	●												
14	●	●																
16	●	●	●	●	●	●												
18	●	●	●	●	●	●												
20	●	●	●	●	●	●												
22		●		●														
25		●	●	●	●	●												
30		●	●	●	●	●												
32		●	●	●														
35			●	●	●	●												
36					●													
40			●	●	●	●												
45				●	●	●												
50			●	●	●	●												

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FULL LENGTH PARALLEL GROOVED PINS DIN 1473



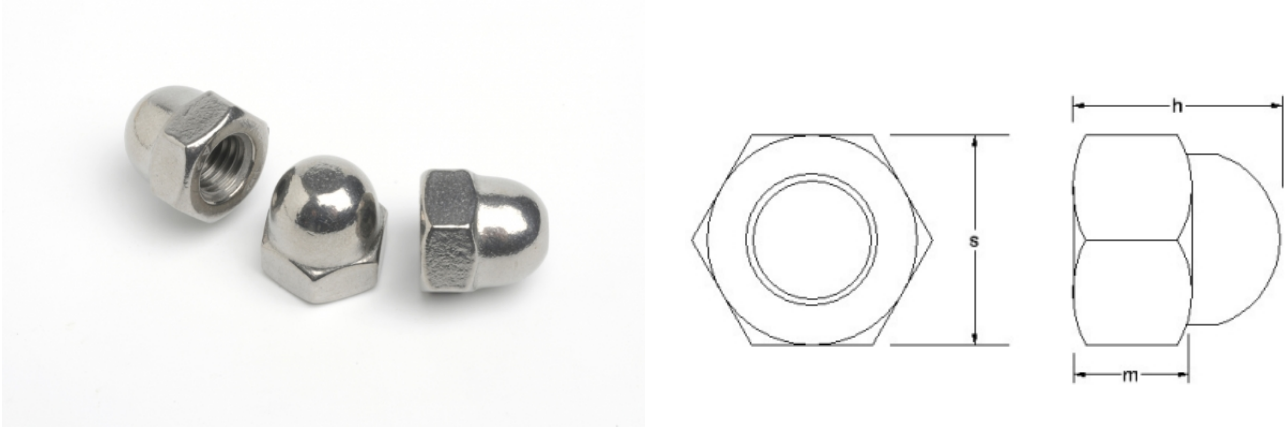
Material grades: A2: ●

c	0.25	0.40	0.50	0.60	0.80	1.00												
f	0.9	1.3	1.8	2.0	2.5	2.8												
Length/dim	2	3	4	5	6	8												
60					●	●												
70						●												

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HEXAGON DOMED NUTS DIN 1587

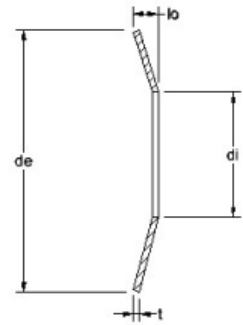
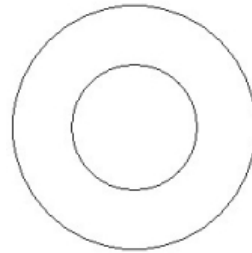


Material grades: A2: ● A4: ▲

h (Max)	6	8	10	12	*	15	18	22	25	28	32	34	39	42	47	52		
m (Max)	2.4	3.2	4.0	5.0	*	6.5	8.0	10	11	13	15	16	18	19	22	24		
Pitch	0.50	0.70	0.80	1.00	1.00	1.25	1.5	1.75	2.0	2.0	2.50	2.5	2.5	3.0	3.0	3.5		
s	5.5	7.0	8.0	10	*	13	17	19	22	24	27	30	32	36	41	46		
Length/dim	M3	M4	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30		
	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	

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DISC SPRINGS DIN 2093



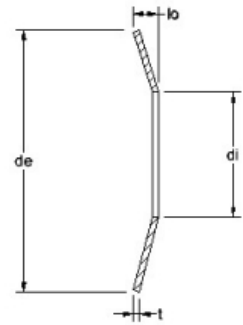
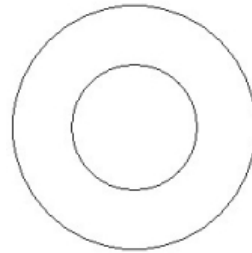
Material grades: A2: ●

d2	3.2	3.2	4.2	5.2	4.2	6.2	6.2	7.2	8.2	8.2	6.2	9.2	8.2	10.2	12.2	14.2	16.3
Thickness/d1	6	8	8	10	12	12	12.5	14	15	16	18	18	20	20	25	28	31.5
0.2000			●														
0.2500				●													
0.3000	●		●														
0.4000			●	●	●					●	●						
0.5000		●		●	●	●	●						●				
0.6000										●				●			
0.7000						●						●			●		
0.8000								●	●					●			
0.9000										●				●	●		
1.0000												●		●		●	
1.1000														●	●		
1.2500																	●
1.5000															●	●	
1.7500																	●
2.0000																	
2.2500																	

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DISC SPRINGS DIN 2093

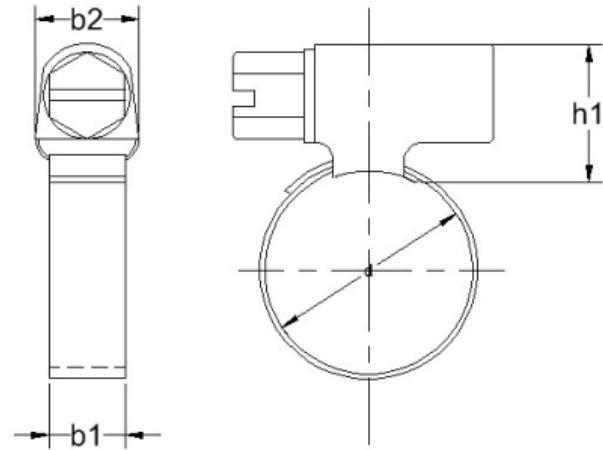


Material grades: A2: ●

d2	18.3	20.4																	
Thickness/d1	35.5	40																	
0.2000																			
0.2500																			
0.3000																			
0.4000																			
0.5000																			
0.6000																			
0.7000																			
0.8000																			
0.9000																			
1.0000																			
1.1000																			
1.2500	●																		
1.5000		●																	
1.7500																			
2.0000	●	●																	
2.2500		●																	

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HOSE CLAMPS WORM GEAR DRIVE DIN 3017



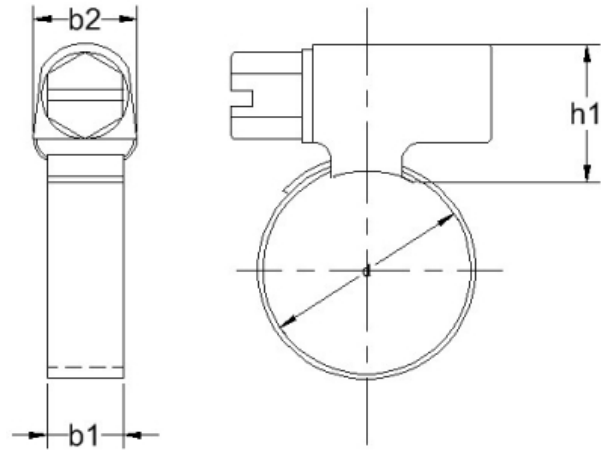
Material grades: A2: ● A4: ▲

b1	9	9	12	9	12	9	12	9	12	9	12	9	12	9	12	9	12
b2	14	14	20	14	20	14	20	14	20	14	20	14	20	14	20	14	20
h1	14	14	16	14	16	14	16	14	16	14	16	14	16	14	46	14	16
Length/dim	10-16/9	12-22/9	12-22/12	16-27/9	16-27/12	20-32/9	20-32/12	25-40/9	25-40/12	30-45/9	30-45/12	35-50/9	35-50/12	40-60/9	40-60/12	50-70/9	50-70/12
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲

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HOSE CLAMPS WORM GEAR DRIVE DIN 3017

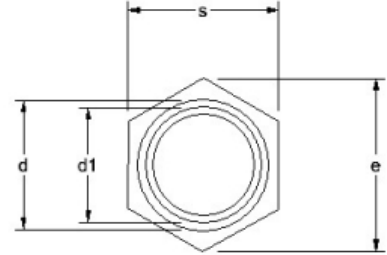
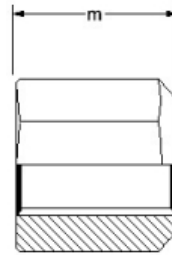


Material grades: A2: ● A4: ▲

b1	12	12	12	12	12	12	12	12	12										
b2	20	20	20	20	20	20	20	20	20										
h1	16	16	16	16	16	16	16	16	16										
Length/dim	60-80/12	70-90/12	80-100/12	90-110/12	100-120/12	110-130/12	120-140/12	130-150/12	140-160/12										
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										

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HEXAGON NUTS TYPE B, DIN 6330



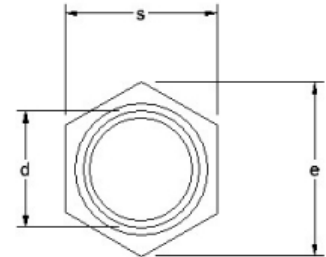
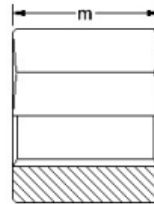
Material grades: A2: ● A4: ▲

d1	7.0	9.0	11.5	14.0	16.0	18.0	22.0	26.0	29.0	32.0	35.0	38.0						
e	11.05	14.38	17.77	20.03	25.30	26.75	33.53	39.98	46.55	51.28	57.50	61.31						
m	9	12	15	18	21.5	24	30	36	40.5	45	49.5	54						
Pitch	1.00	1.25	1.50	1.75	2.00	2.00	2.50	3.00	3.00	3.50	3.50	4.00						
s	10	13	16	18	22	24	30	36	41	46	50	55						
Length/dim	M6	M8	M10	M12	M14	M16	M20	M24	M27	M30	M33	M36						
9	●▲																	
12		●▲																
15			●▲															
18				●▲														
22					●▲													
24						●▲												
30							●▲											
36								●▲										
41									●▲									
45										●▲								
50											●▲							
54												●▲						

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STUDDING CONNECTOR NUTS DIN 6334

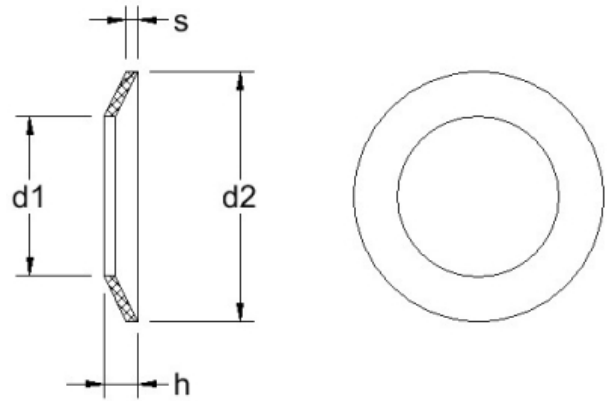


Material grades: A2: ● A4: ▲

	9.0	11.1	15.0	19.6	21.9	25.5	27.7	34.6	41.6	53.1						
e	9.0	11.1	15.0	19.6	21.9	25.5	27.7	34.6	41.6	53.1						
m	15	18	24	30	36	42	48	60	72	90						
Pitch	0.80	1.00	1.25	1.50	1.75	2.00	2.00	2.50	3.00	3.50						
s	8	10	13	17	19	22	24	30	36	46						
Length/dim	M5	M6	M8	M10	M12	M14	M16	M20	M24	M30						
15	●															
18		● ▲														
24			● ▲													
30				● ▲												
36					● ▲											
42						● ▲										
48							● ▲									
60								● ▲								
72									● ▲							
90										● ▲						

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DIN 6796 CONICAL WASHERS



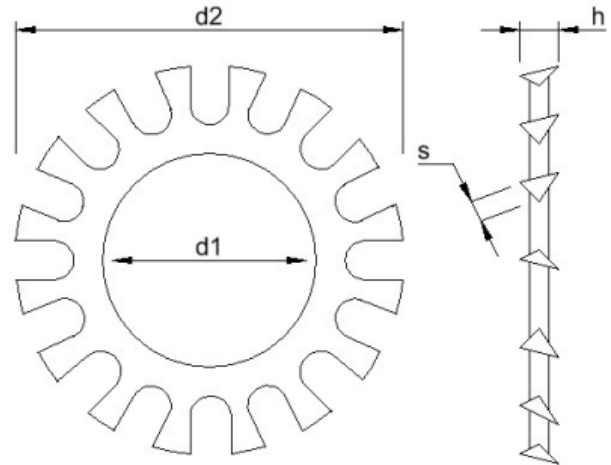
Material grades: A2: ● A4: ▲

d1	3.2	4.3	5.3	6.4	8.4	10.5	13	15	17	19	21	23	25				
d2	7	9	11	14	18	23	29	35	39	42	45	49	56				
h	0.72-0.85	1.12-1.30	1.35-1.55	1.70-2.00	2.24-2.60	2.80-3.20	3.43-3.95	4.04-4.65	4.58-5.25	5.08-5.80	5.60-6.40	6.15-7.05	6.77-7.75				
s	0.60	1.00	1.20	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00				
Length/dim	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24				
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				

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EXTERNAL TOOTH WASHERS DIN 6797 A

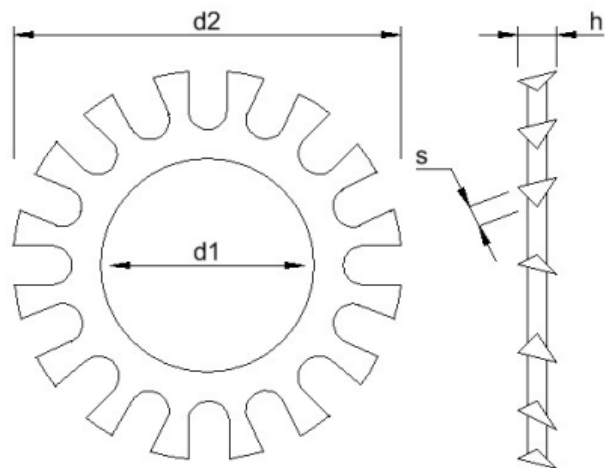


Material grades: A2: ●

d1 (Min)	2.2	2.7	3.2	3.7	4.3	5.3	6.4	7.4	8.4	10.5	13	15	17	19	21	23	25
d2 (Max)	4.5	5.5	6	7	8	10	11	12.5	15	18	20.5	24	26	30	33	36	38
h (Min)	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'
s	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.8	0.9	1	1	1.2	1.4	1.4	1.5	1.5
Length/dim	M2	M2.5	M3	M3.5	M4	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20	M22	M24
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

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EXTERNAL TOOTH WASHERS DIN 6797 A



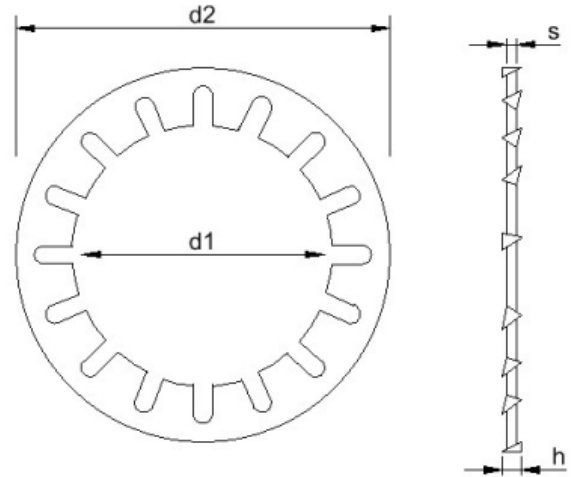
Material grades: A2: ●

d1 (Min)	28	31																		
d2 (Max)	44	48																		
h (Min)	2 x 's'	2 x 's'																		
s	1.6	1.6																		
Length/dim	M27	M30																		
	●	●																		

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INTERNAL TOOTH WASHERS DIN 6797 J

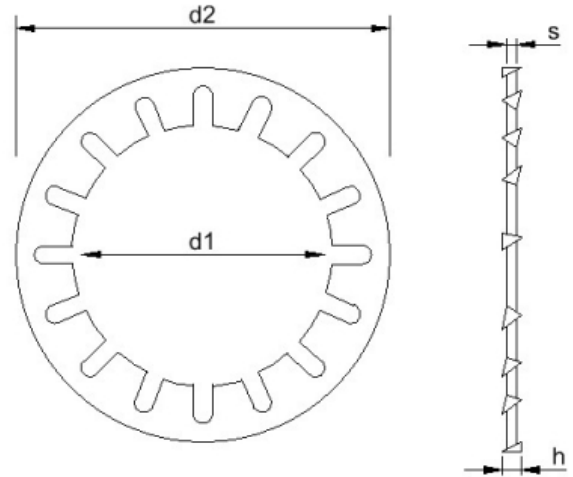


Material grades: A2: ●

d1 (Min)	2.2	2.7	3.2	3.7	4.3	5.3	6.4	7.4	8.4	10.5	13	15	17	19	21	23	25
d2 (Max)	4.5	5.5	6	7	8	10	11	12.5	15	18	20.5	24	26	30	33	36	38
h (Min)	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'	2 x 's'
s	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.8	0.9	1	1	1.2	1.4	1.4	1.5	1.5
Length/dim	M2	M2.5	M3	M3.5	M4	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20	M22	M24
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

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INTERNAL TOOTH WASHERS DIN 6797 J



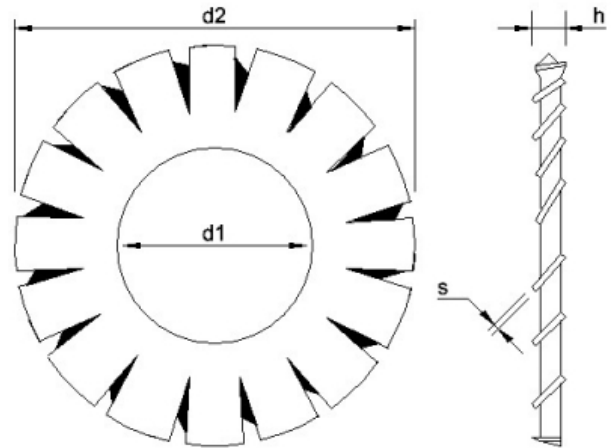
Material grades: A2: ●

d1 (Min)	28	31																		
d2 (Max)	44	48																		
h (Min)	2 x 's'	2 x 's'																		
s	1.6	1.6																		
Length/dim	M27	M30																		
	●	●																		

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EXTERNAL TOOTH WASHERS DIN 6798 A



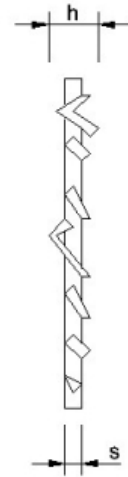
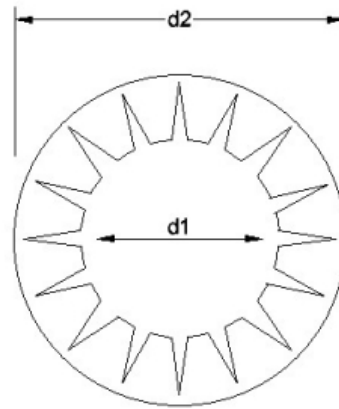
Material grades: A2: ● A4: ▲

d1 (Min)	2.2	2.7	3.2	3.7	4.3	5.3	6.4	7.4	8.4	10.5	13	15	17	19	21	23	25
d2 (Max)	4.5	5.5	6	7	8	10	11	12.5	15	18	20.5	24	26	30	33	36	38
h	3 x 's'	3 x 's'	3 x 's'	3 x 's'	3 x 's'	3 x 's'	3 x 's'	3 x 's'	3 x 's'	3 x 's'	3 x 's'	3 x 's'	3 x 's'	3 x 's'	3 x 's'	3 x 's'	3 x 's'
s	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.8	0.9	1	1	1.2	1.4	1.4	1.5	1.5
Length/dim	M2	M2.5	M3	M3.5	M4	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20	M22	M24
	●▲	●▲	●▲	●	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲

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INTERNAL TOOTH WASHERS DIN 6798 J



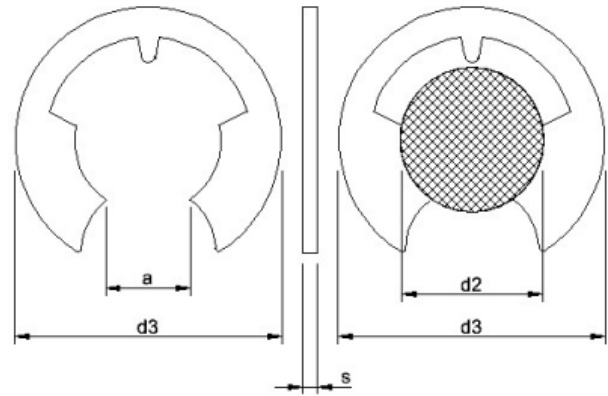
Material grades: A2: ● A4: ▲

d1	2.2	2.7	3.2	3.7	4.3	5.3	6.4	6.4	8.4	10.5	13	15	17	19	21	23	25
d2 (Max)	4.5	5.5	6	7	8	10	11	12.5	15	18	20.5	24	26	30	33	36	38
h	3 x 'S'	3 x 'S'	3 x 'S'	3 x 'S'	3 x 'S'	3 x 'S'	3 x 'S'	3 x 'S'	3 x 'S'	3 x 'S'	3 x 'S'	3 x 'S'	3 x 'S'	3 x 'S'	3 x 'S'	3 x 'S'	3 x 'S'
s (Max)	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.8	0.9	1	1	1.2	1.4	1.4	1.5	1.5
Length/dim	M2	M2.5	M3	M3.5	M4	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20	M22	M24
	●▲	●▲	●▲	●	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲

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E-CLIPS DIN 6799

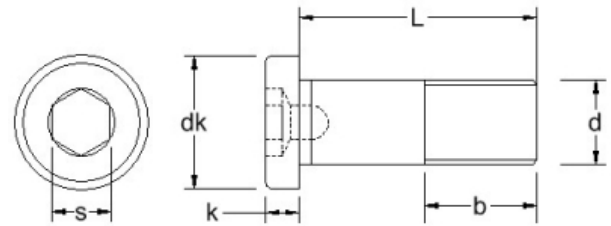


Material grades: A2: ●

a	1.01	1.28	1.61	1.94	2.70	3.34	4.11	5.26	5.84	6.52	7.63	8.32	10.45	12.61	15.92	21.88	
d3 (Max)	3.25	4.25	4.8	6.3	7.3	9.3	11.3	12.3	14.3	16.3	18.8	20.4	23.4	29.4	37.6	44.6	
s	0.3	0.4	0.5	0.6	0.6	0.7	0.7	0.7	0.9	1.0	1.1	1.2	1.3	1.5	1.75	2	
Length/dim	1.2MM	1.5MM	1.9MM	2.3MM	3.2MM	4.0MM	5.0MM	6.0MM	7.0MM	8.0MM	9.0MM	10MM	12MM	15MM	19MM	24MM	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

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LOW HEAD SOCKET CAP SCREWS DIN 6912



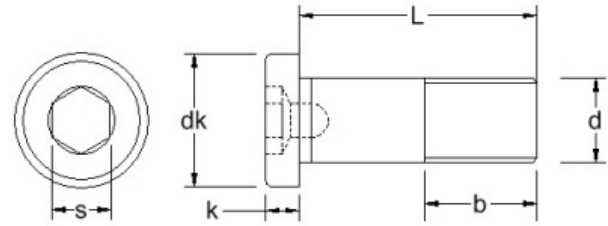
Material grades: A2: ● A4: ▲

b (Max)	12	14	16	18	22	26	30	38	46	54										
dk (Max)	5.5	7.0	8.5	10	13	16	18	24	30	36										
k (Max)	2	2.8	3.5	4	5	6.5	7.5	10	12	14										
Pitch	0.5	0.6	0.8	1.0	1.25	1.5	1.75	2	2.5	3										
s	2	3	4	5	6	8	10	14	17	19										
Length/dim	M3	M4	M5	M6	M8	M10	M12	M16	M20	M24										
4	●▲																			
5	●▲	●▲																		
6	●▲	●▲	●▲																	
8	●▲	●▲	●▲	●▲																
10	●▲	●▲	●▲	●▲	●▲															
12	●▲	●▲	●▲	●▲	●▲	●▲														
14	●▲	●▲	●▲	●▲	●▲	●▲														
16	●▲	●▲	●▲	●▲	●▲	●▲	●▲													
18	●▲	●▲	●▲	●▲	●▲	●▲	●▲													
20	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲												
22	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲												
25	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
30	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
35	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
40	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									

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LOW HEAD SOCKET CAP SCREWS DIN 6912

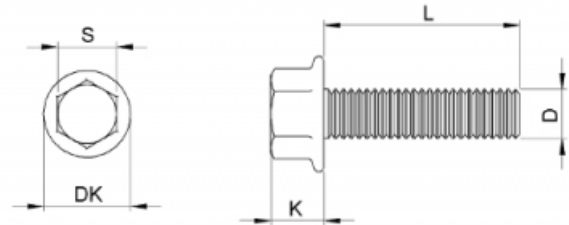


Material grades: A2: ● A4: ▲

b (Max)	12	14	16	18	22	26	30	38	46	54									
dk (Max)	5.5	7.0	8.5	10	13	16	18	24	30	36									
k (Max)	2	2.8	3.5	4	5	6.5	7.5	10	12	14									
Pitch	0.5	0.6	0.8	1.0	1.25	1.5	1.75	2	2.5	3									
s	2	3	4	5	6	8	10	14	17	19									
Length/dim	M3	M4	M5	M6	M8	M10	M12	M16	M20	M24									
45	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
50	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
55		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
60		●▲		●▲	●▲	●▲	●▲	●▲	●▲	●▲									
65			●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
70			●	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
75			●▲	●▲	●	●▲	●▲	●▲	●▲	●▲									
80			●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
90				●▲	●▲	●▲	●▲	●▲	●▲	●▲									
100				●	●▲	●▲	●▲	●▲	●▲	●▲									
110					●▲	●▲	●▲	●▲	●▲	●▲									
120				●	●▲	●▲	●▲	●▲	●▲	●▲									
130								●▲	●▲	●▲									
140								●▲	●▲	●▲									
150								●▲	●▲	●▲									

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#)

FLANGED HEXAGON BOLTS DIN 6921



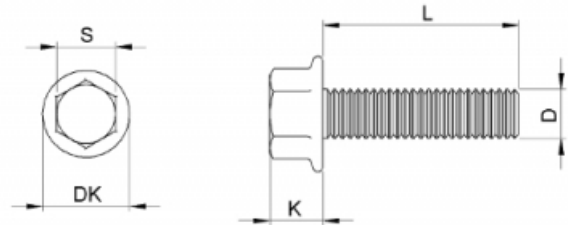
Material grades: A2: ●

dk	11.8	14.2	18	22.3															
k	5.4	6.6	8.1	9.2															
Pitch	0.8	1.0	1.25	1.5															
s	8	10	13	15															
Length/dim	M5	M6	M8	M10															
8/8	●																		
10/10	●	●																	
12/12	●	●	●																
16/16	●	●	●	●															
20/20	●	●	●	●															
25/25	●	●	●	●															
30/30	●	●	●	●															
35/35	●	●	●	●															
40/40	●	●	●	●															
45/45	●	●	●	●															
50/50	●	●	●	●															
55/55		●	●	●															
60/60		●	●	●															
65/65				●															
70/70			●	●															
80/80			●	●															

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FLANGED HEXAGON BOLTS DIN 6921

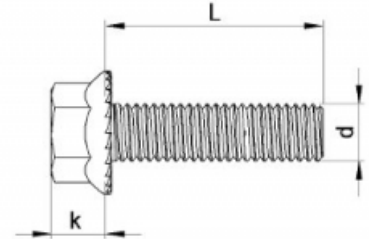
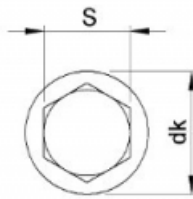


Material grades: A2: ●

dk	11.8	14.2	18	22.3															
k	5.4	6.6	8.1	9.2															
Pitch	0.8	1.0	1.25	1.5															
s	8	10	13	15															
Length/dim	M5	M6	M8	M10															
90/90				●															
100/100				●															

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SERRATED FLANGED HEXAGON BOLTS DIN 6921



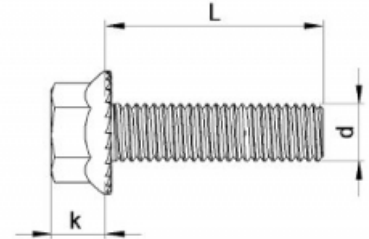
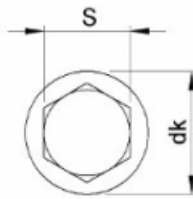
Material grades: A2: ●

dk	11.8	14.2	18	22.3															
k	5.4	6.6	8.1	9.2															
Pitch	0.8	1.0	1.25	1.5															
s	8	10	13	15															
Length/dim	M5	M6	M8	M10															
8/8	●																		
10/10	●	●																	
12/12	●	●	●																
16/16	●	●	●	●															
20/20	●	●	●	●															
25/25	●	●	●	●															
30/30	●	●	●	●															
35/35	●	●	●	●															
40/40	●	●	●	●															
45/45	●	●	●	●															
50/50	●	●	●	●															
55/55		●	●	●															
60/60		●	●	●															
65/65			●	●															
70/70			●	●															
80/80			●	●															

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SERRATED FLANGED HEXAGON BOLTS DIN 6921

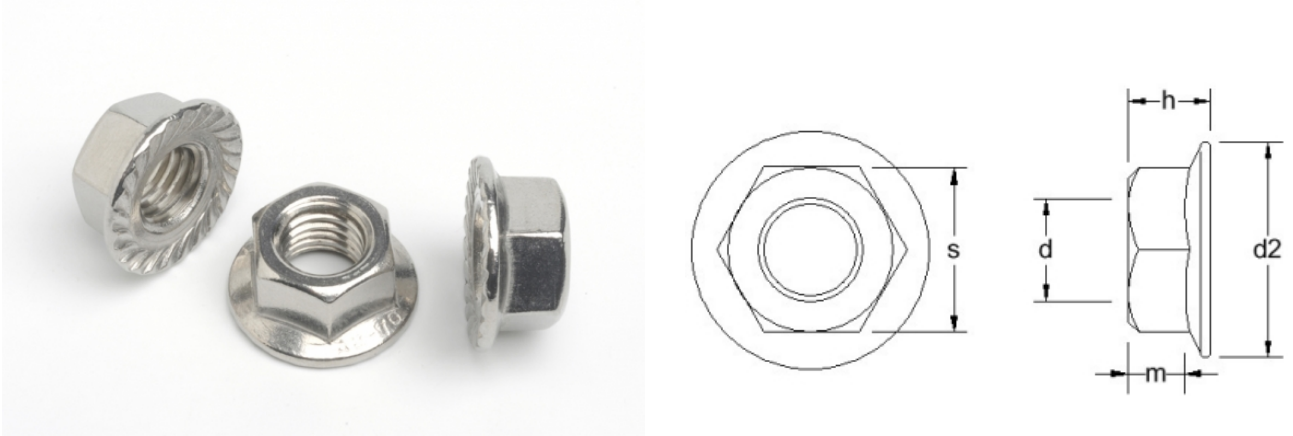


Material grades: A2: ●

dk	11.8	14.2	18	22.3															
k	5.4	6.6	8.1	9.2															
Pitch	0.8	1.0	1.25	1.5															
s	8	10	13	15															
Length/dim	M5	M6	M8	M10															
90/90				●															
100/100				●															

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SERRATED FLANGED NUTS DIN 6923



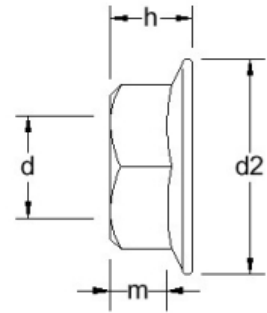
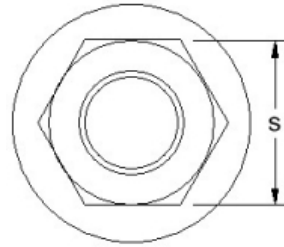
Material grades: A2: ● A4: ▲

d2 (Max)	*	10	11.8	14.2	17.9	21.8	26	34.5										
h (Max)	*	4.65	5.0	6.0	8.0	10	12	16										
m (Min)	*	1.9	2.2	3.1	4.5	5.5	6.7	*										
Pitch	0.50	0.70	0.80	1.00	1.25	1.50	1.75	2.00										
s (Max)	*	7.0	8.0	10	13	15	18	24										
Length/dim	M3	M4	M5	M6	M8	M10	M12	M16										
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										

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NON SERRATED FLANGED NUTS DIN 6923

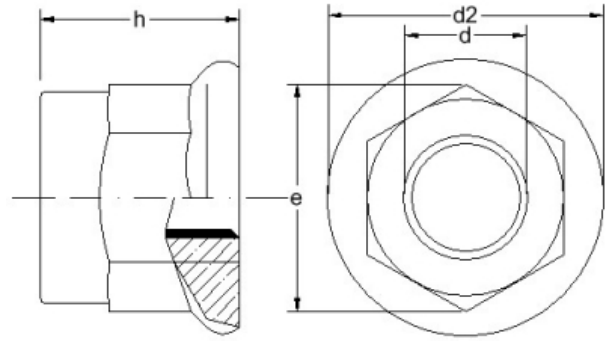


Material grades: A2: ● A4: ▲

d2 (Max)	10	11.8	14.2	17.9	21.8	26														
h (Max)	4.65	5.0	6.0	8.0	10	12														
m (Min)	1.9	2.2	3.1	4.5	5.5	6.7														
Pitch	0.70	0.80	1.00	1.25	1.50	1.75														
s (Max)	7.0	8.0	10	13	15	18														
Length/dim	M4	M5	M6	M8	M10	M12														
	●▲	●▲	●▲	●▲	●▲	●▲														

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NYLON INSERT SERRATED FLANGE NUTS DIN 6926



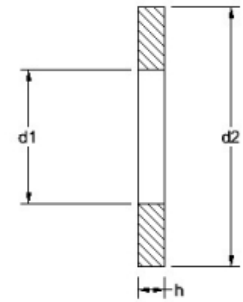
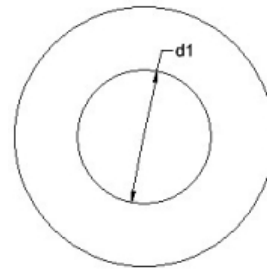
Material grades: A2: ● A4: ▲

Drive	SW6	SW7	SW8	SW10	SW13	SW15	SW18											
d2 (Max)	7.8	10	11.8	14.2	17.9	21.8	26											
e	6.33	7.66	8.79	11.05	14.38	16.64	20.03											
h (Max)	*	*	7.1	9.1	11.1	13.5	16.1											
Pitch	0.50	0.70	0.80	1.00	1.25	1.50	1.75											
Length/dim	M3	M4	M5	M6	M8	M10	M12											
	●▲	●▲	●▲	●▲	●▲	●▲	●▲											

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DIN 7349 HEAVY FLAT WASHERS

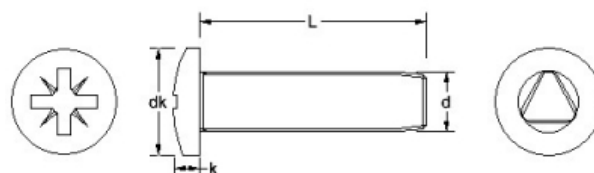


Material grades: A2: ● A4: ▲

d1	3.2	4.3	5.3	6.4	8.4	10.5	13	15	17	19	21	23	25	28	31		
d2	9	12	15	17	21	25	30	36	40	44	44	50	50	60	68		
h	1.0	01.6	2.0	3.0	4.0	4.0	6.0	6.0	6.0	8.0	8.0	8.0	10.0	10.0	10.0		
Length/dim	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30		
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲		

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POZI PAN THREAD ROLLING SCREWS DIN 7500C



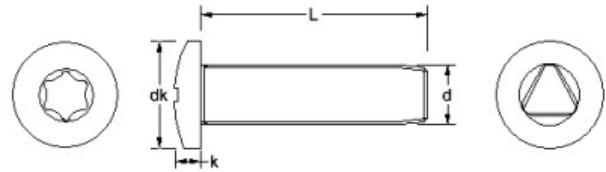
Material grades: A2: ●

Drive	#1	#1	#2	#3	#3													
dk (Max)	4.7	5.3	7.64	9.14	11.57													
k (Max)	1.96	2.26	2.92	3.52	4.3													
Pitch	0.45	0.5	0.7	0.8	1.0													
Length/dim	M2.5	M3	M4	M5	M6													
5	●	●																
6	●	●	●															
8	●	●	●	●														
10	●	●	●	●	●													
12	●	●	●	●	●													
16		●	●	●	●													
20		●	●	●	●													
25			●	●	●													
30			●	●	●													

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TX PAN THREAD ROLLING SCREWS DIN 7500C TX

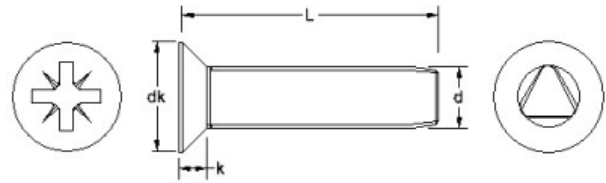


Material grades: A2: ●

dk (Max)	4.7	5.3	7.64	9.14	11.57														
k (Max)	1.96	2.26	2.92	3.52	4.30														
Pitch	0.45	0.5	0.7	0.8	1.0														
Length/dim	M2.5	M3	M4	M5	M6														
5	●	●																	
6	●	●	●																
8	●	●	●	●															
10	●	●	●	●	●														
12	●	●	●	●	●														
14				●															
16		●	●	●	●														
20		●	●	●	●														
25			●	●	●														
30			●	●	●														

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POZI COUNTERSUNK THREAD ROLLING SCREWS DIN 7500M



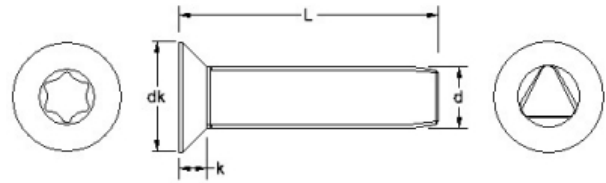
Material grades: A2: ●

Drive	#1	#1	#2	#2	#3													
dk	4.4	5.2	8.0	8.9	11													
k (Max)	1.5	1.65	2.7	2.7	3.0													
Pitch	0.45	0.5	0.7	0.8	1.0													
Length/dim	M2.5	M3	M4	M5	M6													
5	●	●																
6	●	●	●															
8	●	●	●	●														
10	●	●	●	●	●													
12	●	●	●	●	●													
16		●	●	●	●													
20		●	●	●	●													
25			●	●	●													
30			●	●	●													

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TX COUNTERSUNK THREAD ROLLING SCREWS DIN 7500M TX

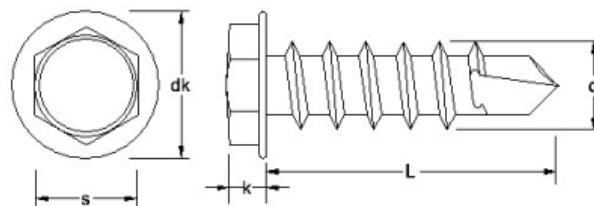


Material grades: A2: ●

dk (Max)	4.4	5.2	8.04	8.94	11													
k	1.5	1.65	2.7	2.7	3.0													
Pitch	0.45	0.5	0.7	0.8	1.0													
Length/dim	M2.5	M3	M4	M5	M6													
5	●																	
6	●	●																
8	●	●	●															
10	●	●	●	●	●													
12	●	●	●	●	●													
16		●	●	●	●													
20		●	●	●	●													
25		●	●	●	●													
30			●	●	●													

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HEXAGON WASHER SELF DRILLING DIN 7504K



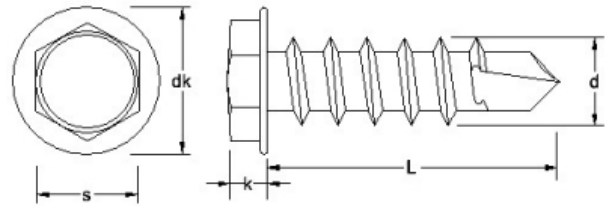
Material grades: A2: ●

dk (Max)	8.3	8.3	8.8	10.5	11	13.5													
k (Max)	3.4	3.4	4.1	4.3	5.4	5.9													
s	5.5	5.5	7	8	8	10													
Length/dim	3.5	3.9	4.2	4.8	5.5	6.3													
9.5	●																		
13	●	●	●	●															
16	●	●	●	●	●	●													
19	●	●	●	●	●	●													
22	●	●	●	●	●	●													
25	●	●	●	●	●	●													
28					●														
30					●														
32		●	●	●	●	●													
35				●	●														
38		●	●	●	●	●													
45				●	●	●													
50			●	●	●	●													
60				●	●	●													
70				●	●														
75						●													
80					●														

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HEXAGON WASHER SELF DRILLING DIN 7504K

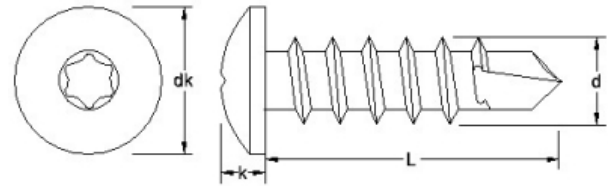


Material grades: A2: ●

dk (Max)	8.3	8.3	8.8	10.5	11	13.5												
k (Max)	3.4	3.4	4.1	4.3	5.4	5.9												
s	5.5	5.5	7	8	8	10												
Length/dim	3.5	3.9	4.2	4.8	5.5	6.3												
90				●	●	●												
100					●	●												
110					●	●												
120					●													
150						●												

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TX PAN SELF DRILLING DIN 7504N TX



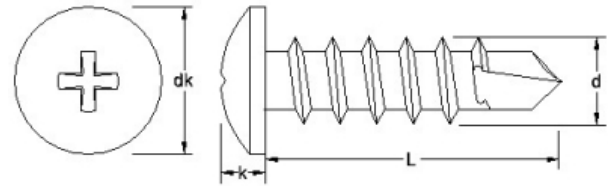
Material grades: A2: ●

dk (Max)	6.9	7.5	8.2	9.5	12													
k (Max)	2.6	2.8	3.05	3.55	4.00													
Length/dim	3.5	3.9	4.2	4.8	5.5													
9.5	●																	
13	●	●	●	●														
16	●	●	●	●														
19	●	●	●	●	●													
22	●	●	●	●														
25	●	●	●	●	●													
32		●	●	●	●													
38		●	●	●	●													
45				●	●													
50				●	●													
60				●	●													
70				●														

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PHILLIPS PAN SELF DRILLING DIN 7504N H

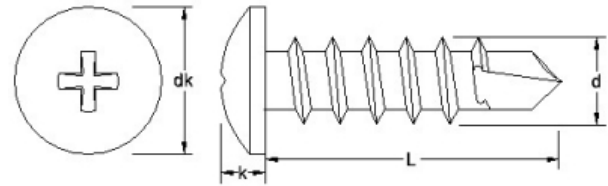


Material grades: A2: ●

dk (Max)	5.5	6.9	7.5	8.2	9.5													
k (Max)	2.4	2.6	2.8	3.1	3.7													
Length/dim	2.9	3.5	3.9	4.2	4.8													
9.5	●																	
13	●	●	●	●	●													
16		●	●	●	●													
19		●	●	●	●													
22		●	●	●	●													
25		●	●	●	●													
32			●	●	●													
38			●	●	●													
45					●													
50					●													
60					●													
70					●													

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POZI PAN SELF DRILLING DIN 7504N Z



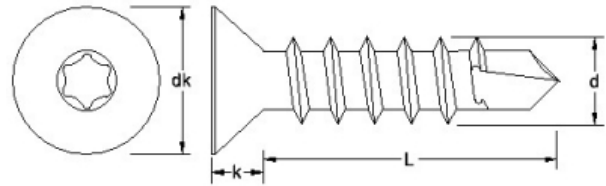
Material grades: A2: ●

dk (Max)	5.5	6.9	7.5	8.2	9.5	11											
k (Max)	2.4	2.6	2.8	3.1	3.7	4											
Length/dim	2.9	3.5	3.9	4.2	4.8	5.5											
9.5	●	●															
13	●	●	●	●	●												
16		●	●	●	●												
19		●	●	●	●	●											
22		●	●	●	●												
25		●	●	●	●	●											
32			●	●	●	●											
38				●	●	●											
45					●	●											
50					●	●											
60					●	●											
70					●												

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TX COUNTERSUNK SELF DRILLING DIN 7504P TX

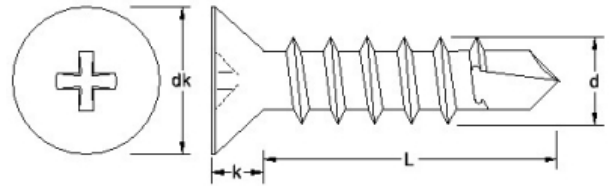


Material grades: A2: ●

dk (Max)	7.3	7.5	8.4	9.3	10.3													
k (Max)	2.1	2.3	2.5	3	3.4													
Length/dim	3.5	3.9	4.2	4.8	5.5													
13	●	●	●	●														
16	●	●	●	●														
19	●	●	●	●	●													
22	●	●	●	●														
25	●	●	●	●	●													
32		●	●	●	●													
38		●	●	●	●													
45				●	●													
50				●	●													
60					●													

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PHILLIPS COUNTERSUNK SELF DRILLING DIN 7504P H



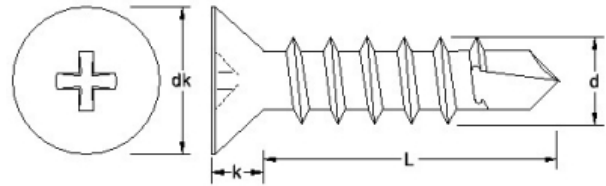
Material grades: A2: ●

dk (Max)	7	7.5	8	9.5														
k (Max)	2.6	2.9	3.1	3.7														
Length/dim	3.5	3.9	4.2	4.8														
13	●	●	●	●														
16	●	●	●	●														
19	●	●	●	●														
22	●	●	●	●														
25	●	●	●	●														
32		●	●	●														
38		●	●	●														
45				●														
50				●														

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POZI COUNTERSUNK SELF DRILLING DIN 7504P Z

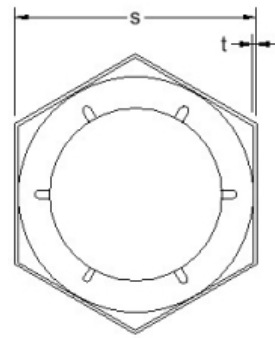


Material grades: A2: ●

dk (Max)	7	7.5	8	9.5	10.3													
k (Max)	2.6	2.8	3.1	3.7	4													
Length/dim	3.5	3.9	4.2	4.8	5.5													
13	●	●	●	●														
16	●	●	●	●														
19	●	●	●	●	●													
22	●	●	●	●														
25	●	●	●	●	●													
32		●	●	●	●													
38		●	●	●	●													
45				●	●													
50				●	●													
60					●													

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SELF LOCKING COUNTER (PAL) NUTS DIN 7967



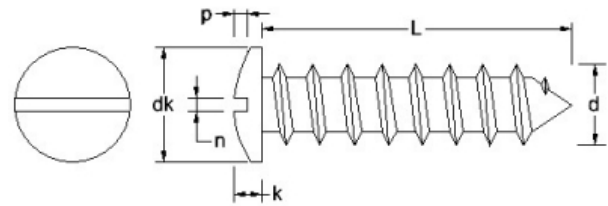
Material grades: A2: ● A4: ▲

m	2.5	2.5	3.0	3.5	4.0	4.5	5.0	6.0	7.0	7.0									
Pitch	0.70	0.80	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.00									
s	7.0	8.0	10	13	17	19	24	30	36	41									
t	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0									
Length/dim	M4	M5	M6	M8	M10	M12	M16	M20	M24	M27									
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									

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SLOT PAN AB SELF TAPPING SCREWS DIN 7971C

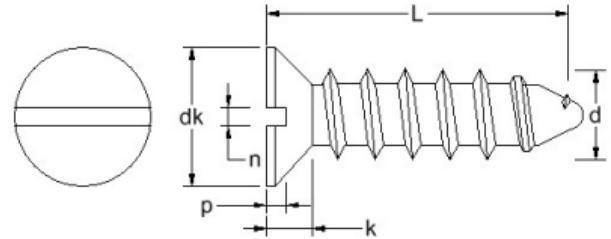


Material grades: A2: ●

dk (Max)	4.2	5.6	6.9	7.5	8.2	9.5	10.8	12.5										
k (Max)	1.35	1.75	2.1	2.25	2.45	2.8	3.2	3.65										
n	0.6	0.8	1	1	1.2	1.2	1.6	1.6										
p (Max)	0.8	1	1.25	1.4	1.5	1.7	1.95	2.2										
Length/dim	NO.2	NO.4	NO.6	NO.7	NO.8	NO.10	NO.12	NO.14										
1/4	●	●	●	●	●													
5/16			●															
3/8	●	●	●	●	●	●												
1/2	●	●	●	●	●	●	●	●										
5/8	●	●	●	●	●	●	●	●										
3/4	●	●	●	●	●	●	●	●										
7/8	●	●	●	●	●	●	●	●										
1	●	●	●	●	●	●	●	●										
1.1/4		●	●	●	●	●	●	●										
1.1/2			●	●	●	●	●	●										
1.3/4					●	●	●	●										
2				●	●	●	●	●										
2.1/2						●	●	●										
2.3/4						●	●	●										
3						●	●											
4						●												

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SLOT COUNTERSUNK AB SELF TAPPING SCREWS DIN 7972C



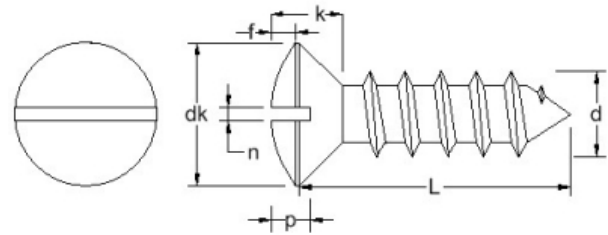
Material grades: A2: ●

dk (Max)	4.3	5.5	6.8	7.5	8.1	9.5	10.8	12.4										
k	1.3	1.7	2.1	2.3	2.5	3	3.4	3.8										
n	0.6	0.8	1	1	1.2	1.2	1.6	1.6										
p (Max)	0.6	0.75	0.95	1.05	1.15	1.35	1.5	1.75										
Length/dim	NO.2	NO.4	NO.6	NO.7	NO.8	NO.10	NO.12	NO.14										
1/4	●	●	●															
3/8	●	●	●	●	●													
1/2	●	●	●	●	●	●	●	●										
5/8	●	●	●	●	●	●	●	●										
3/4	●	●	●	●	●	●	●	●										
7/8	●	●	●	●	●	●	●	●										
1	●	●	●	●	●	●	●	●										
1.1/4			●	●	●	●	●	●										
1.1/2			●	●	●	●	●	●										
1.3/4				●	●	●	●	●										
2					●	●	●	●										
2.1/2						●	●	●										
2.3/4						●	●	●										
3						●		●										

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SLOT RAISED COUNTERSUNK AB SELF TAPPING SCREWS DIN 7973C



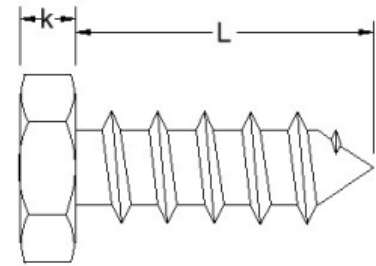
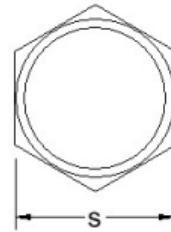
Material grades: A2: ●

dk (Max)	4.3	5.5	6.8	7.5	8.1	9.5	10.8	12.4									
f	*	0.9	1.2	1.3	1.4	*	*	*									
k	1.3	1.7	2.1	2.3	2.5	3	3.4	3.8									
n	0.6	0.8	1	1	1.2	1.2	1.6	1.6									
p (Max)	1.15	1.5	1.9	2.05	2.25	2.6	2.95	3.45									
Length/dim	NO.2	NO.4	NO.6	NO.7	NO.8	NO.10	NO.12	NO.14									
1/4	●	●	●														
3/8	●	●	●	●	●	●											
1/2	●	●	●	●	●	●	●	●									
5/8	●	●	●	●	●	●	●	●									
3/4	●	●	●	●	●	●	●	●									
7/8	●	●	●	●	●	●	●	●									
1	●	●	●	●	●	●	●	●									
1.1/4		●	●	●	●	●	●	●									
1.1/2			●	●	●	●	●	●									
1.3/4			●	●	●	●	●	●									
2					●	●	●	●									
2.1/2							●	●									
2.3/4							●										

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HEXAGON HEAD AB SELF TAPPING SCREWS DIN 7976C



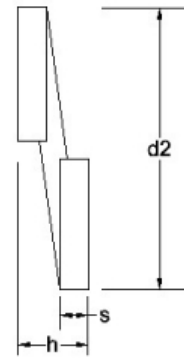
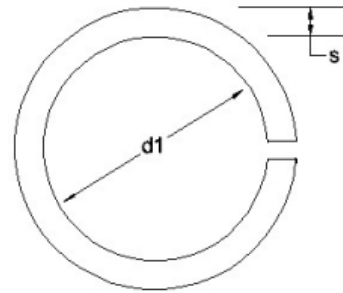
Material grades: A2: ●

k (Max)	*	2.42	2.42	2.92	3.12	4.15	4.95	5.95								
s	*	5.5	7	7	8	8	10	13								
Length/dim	NO.4	NO.6	NO.7	NO.8	NO.10	NO.12	NO.14	NO.16								
3/8	●	●	●	●	●											
1/2	●	●	●	●	●	●	●									
5/8	●	●	●	●	●	●	●	●								
3/4	●	●	●	●	●	●	●	●								
7/8	●	●	●	●	●	●	●	●								
1	●	●	●	●	●	●	●	●								
1.1/4	●	●	●	●	●	●	●	●								
1.1/2	●	●	●	●	●	●	●	●								
1.3/4	●	●	●	●	●	●	●	●								
2		●	●	●	●	●	●	●								
2.1/4					●		●									
2.1/2			●	●	●	●	●	●								
2.3/4				●	●	●	●	●								
3					●	●	●									
3.1/2					●	●	●									
4					●	●	●									
4.1/2					●	●	●									
5					●	●	●									

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SQUARE SECTION SPRING WASHERS DIN 7980



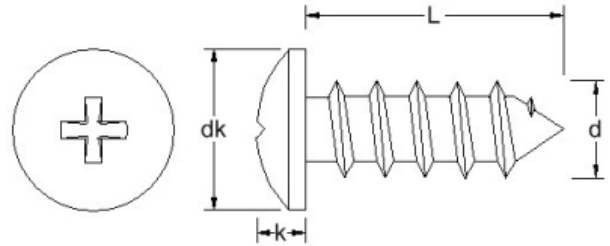
Material grades: A2: ● A4: ▲

d1 (Min)	2.1	2.6	3.1	3.6	4.1	5.1	6.1	8.1	10.2	12.2	14.2	16.2	18.2	20.2	22.5	24.5	27.5
d2 (Max)	*	*	5.6	6.1	7	8.8	9.9	12.7	16	18	21.1	24.4	26.4	30.6	32.9	35.9	38.9
h	*	*	2	2	2.4	3.2	3.2	4	5	5	6	7	7	9	9	10	10
s	*	*	1	1	1.2	1.6	1.6	2	2.5	2.5	3	3.5	3.5	4.5	4.5	5	5
Length/dim	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲

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PHILLIPS PAN AB SELF TAPPING SCREWS DIN 7981C H

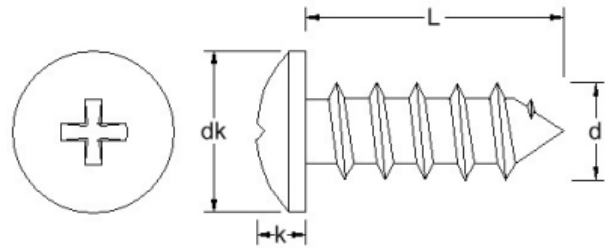


Material grades: A2: ● A4: ▲

dk (Max)	4.2	5.6	6.9	7.5	8.2	9.5	10.8	12.5										
k (Max)	1.8	2.2	2.6	2.8	3.05	3.55	3.95	4.55										
Length/dim	NO.2	NO.4	NO.6	NO.7	NO.8	NO.10	NO.12	NO.14										
3/16	●▲																	
1/4	●▲	●▲	●▲	●▲	●▲													
3/8	●▲	●▲	●▲	●▲	●▲	●▲	●											
1/2	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
5/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
3/4	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
7/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
1	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
1.1/4	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
1.1/2		●▲	●▲	●▲	●▲	●▲	●▲	●▲										
1.3/4			●▲	●▲	●▲	●▲	●▲	●▲										
2			●▲	●▲	●▲	●▲	●▲	●▲										
2.1/4					●	●	●											
2.1/2			●▲	●▲	●▲	●▲	●▲	●▲										
2.3/4			●▲	●▲	●▲	●▲	●▲	●▲										
3				●▲	●▲	●▲	●▲	●▲										
3.1/2					●	●▲	●▲	●▲										
4					●	●▲	●▲	●▲										

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PHILLIPS PAN AB SELF TAPPING SCREWS DIN 7981C H



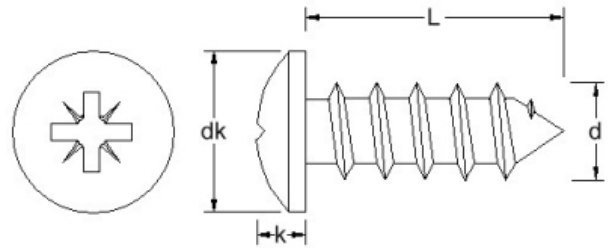
Material grades: A2: ●

dk (Max)	4.2	5.6	6.9	7.5	8.2	9.5	10.8	12.5										
k (Max)	1.8	2.2	2.6	2.8	3.05	3.55	3.95	4.55										
Length/dim	NO.2	NO.4	NO.6	NO.7	NO.8	NO.10	NO.12	NO.14										
5						●	●											

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POZI PAN AB SELF TAPPING SCREWS DIN 7981C Z

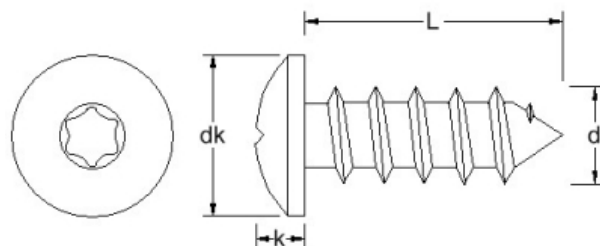


Material grades: A2: ● A4: ▲

dk (Max)	4.2	5.6	6.9	7.5	8.2	9.5	10.8	12.5										
k (Max)	1.8	2.2	2.6	2.8	3.05	3.55	3.95	4.55										
Length/dim	NO.2	NO.4	NO.6	NO.7	NO.8	NO.10	NO.12	NO.14										
3/16	●	●																
1/4	●▲	●▲	●▲	●▲														
5/16	●	●	●▲															
3/8	●▲	●▲	●▲	●▲	●▲	●▲												
1/2	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
5/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
3/4	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
7/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
1	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
1.1/4	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
1.1/2			●▲	●▲	●▲	●▲	●▲	●▲										
1.3/4			●▲	●▲	●▲	●▲	●▲	●▲										
2			●▲	●▲	●▲	●▲	●▲	●▲										
2.1/2			●	●▲	●▲	●▲	●▲	●▲										
2.3/4				▲	●▲	●▲	●▲	●▲										
3				▲	▲	●▲	●▲	●▲										
3.1/2							●▲	●▲										

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TX PAN AB SELF TAPPING SCREWS DIN 7981C TX



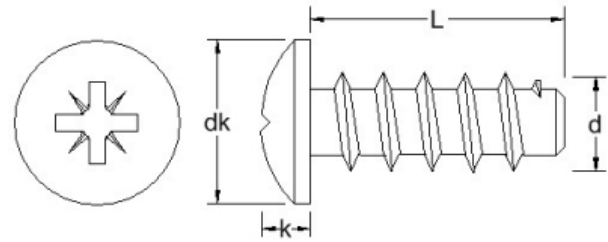
Material grades: A2: ● A4: ▲

dk (Max)	4.2	5.6	6.9	7.5	8.2	9.5	10.8	12.5								
k (Max)	1.8	2.2	2.6	2.8	3.05	3.55	3.95	4.55								
Length/dim	NO.2	NO.4	NO.6	NO.7	NO.8	NO.10	NO.12	NO.14								
1/4	●▲	●▲	●▲	●												
3/8	●▲	●▲	●▲	●▲	●▲	●										
1/2	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
5/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
3/4	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
7/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●								
1	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
1.1/4		●▲	●▲	●▲	●▲	●▲	●▲	●▲								
1.1/2			●▲	●▲	●▲	●▲	●▲	●▲								
1.3/4			●▲	●▲	●▲	●▲	●▲	●▲								
2			●▲	●▲	●▲	●▲	●▲	●▲								
2.1/2				●▲	●▲	●▲	●▲	●▲								
2.3/4						●▲	●▲	●▲								
3							▲	●▲								

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POZI PAN B SELF TAPPING SCREWS DIN 7981F Z

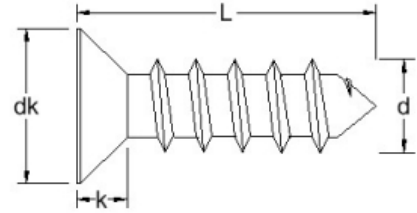
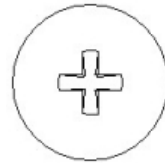


Material grades: A2: ●

dk (Max)	4.2	5.6	6.9	7.5	8.2	9.5	10.8											
k (Max)	1.8	2.2	2.6	2.8	3.05	3.55	3.95											
Length/dim	NO.2	NO.4	NO.6	NO.7	NO.8	NO.10	NO.12											
3/16	●																	
1/4	●	●	●															
5/16	●	●	●															
3/8	●	●	●	●	●													
1/2	●	●	●		●	●	●											
5/8		●		●	●	●												
3/4		●		●	●	●												
7/8					●													
1				●		●	●											

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PHILLIPS COUNTERSUNK AB SELF TAPPING SCREWS DIN 7982C H



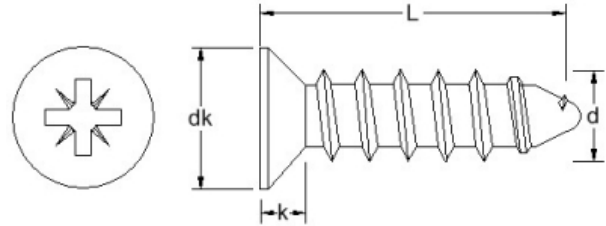
Material grades: A2: ● A4: ▲

dk (Max)	4.3	5.5	6.8	7.5	8.1	9.5	10.8	12.4										
k (Max)	1.3	1.7	2.1	2.3	2.5	3	3.4	3.8										
Length/dim	NO.2	NO.4	NO.6	NO.7	NO.8	NO.10	NO.12	NO.14										
1/4	●▲	●▲	●▲	●▲														
3/8	●▲	●▲	●▲	●▲	●▲	●▲												
1/2	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
5/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
3/4	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
7/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
1	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
1.1/4	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
1.1/2		●▲	●▲	●▲	●▲	●▲	●▲	●▲										
1.3/4			●▲	●▲	●▲	●▲	●▲	●▲										
2			●▲	●▲	●▲	●▲	●▲	●▲										
2.1/4				●		●	●											
2.1/2			●▲	●▲	●▲	●▲	●▲	●▲										
2.3/4			●▲	●▲	●▲	●▲	●▲	●▲										
3				●▲	●▲	●▲	●▲	●▲										
3.1/2					●▲	●▲	●▲	●▲										
4					●▲	●▲	●▲	●▲										
5						●	●											

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POZI COUNTERSUNK AB SELF TAPPING SCREWS DIN 7982C Z

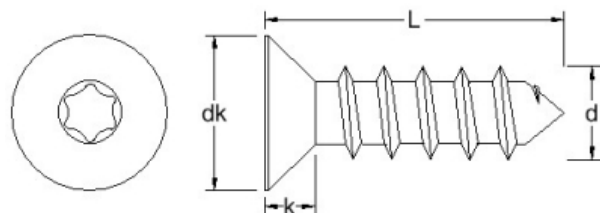


Material grades: A2: ● A4: ▲

dk (Max)	4.3	5.5	6.8	7.5	8.1	9.5	10.8	12.4										
k (Max)	1.3	1.7	2.1	2.3	2.5	3	3.4	3.8										
Length/dim	NO.2	NO.4	NO.6	NO.7	NO.8	NO.10	NO.12	NO.14										
3/16	●▲																	
1/4	●▲	●▲	●▲															
5/16	●▲	●▲	●▲															
3/8	●▲	●▲	●▲	●▲	●▲	●▲												
1/2	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
5/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
3/4	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
7/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
1	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
1.1/4		●▲	●▲	●▲	●▲	●▲	●▲	●▲										
1.1/2		●▲	●▲	●▲	●▲	●▲	●▲	●▲										
1.3/4			●▲	●▲	●▲	●▲	●▲	●▲										
2			●▲	●▲	●▲	●▲	●▲	●▲										
2.1/2			●	●▲	●▲	●▲	●▲	●▲										
2.3/4				●▲	●▲	●▲	●▲	●▲										
3				●	●	●▲	●▲	●▲										
3.1/2						●▲	●▲	●▲										

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TX COUNTERSUNK AB SELF TAPPING SCREWS DIN 7982C TX



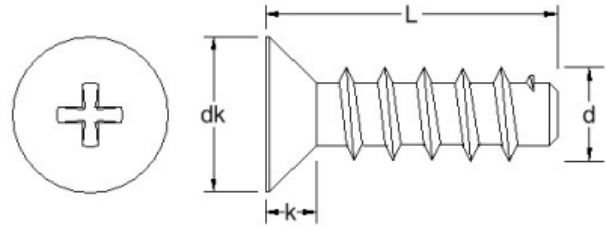
Material grades: A2: ● A4: ▲

dk (Max)	4.3	5.5	6.8	7.5	8.1	9.5	10.8	12.4										
k (Max)	1.3	1.7	2.1	2.3	2.5	3	3.4	3.8										
Length/dim	NO.2	NO.4	NO.6	NO.7	NO.8	NO.10	NO.12	NO.14										
1/4	●▲	●▲	●▲	●														
3/8	●▲	●▲	●▲	●	●▲													
1/2	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
5/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
3/4	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
7/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
1	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
1.1/4		▲	●▲	●▲	●▲	●▲	●▲	●▲										
1.1/2			●▲	●▲	●▲	●▲	●▲	●▲										
1.3/4			●▲	●▲	●▲	●▲	●▲	●▲										
2			●▲	●▲	●▲	●▲	●▲	●▲										
2.1/2				●▲	●▲	●▲	●▲	●▲										
2.3/4							●▲	●▲										
3					▲		●▲	●▲										

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PHILLIPS COUNTERSUNK B SELF TAPPING SCREWS DIN 7982F H

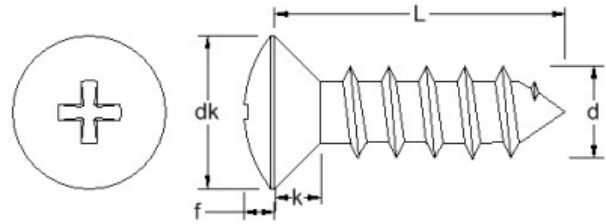


Material grades: A2: ●

dk (Max)	5.5	6.8	7.5	8.1	9.5	10.8												
k (Max)	1.7	2.1	2.3	2.5	3	3.4												
Length/dim	NO.4	NO.6	NO.7	NO.8	NO.10	NO.12												
3/8	●																	
1/2	●	●		●	●													
5/8	●	●	●	●	●	●												
3/4		●	●	●	●	●												
7/8		●	●		●	●												
1		●	●	●	●	●												
1.1/4			●	●	●													

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PHILLIPS RAISED COUNTERSUNK AB SELF TAPPING SCREWS DIN 7983C H



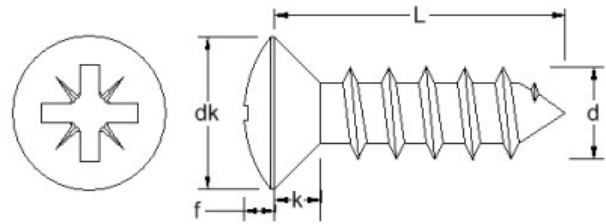
Material grades: A2: ● A4: ▲

dk (Max)	4.3	5.5	6.8	7.5	8.1	9.5	10.8	12.4									
f	0.7	0.9	1.2	1.3	1.4	1.5	1.7	2									
k	1.3	1.7	2.1	2.3	2.5	3	3.4	3.8									
Length/dim	NO.2	NO.4	NO.6	NO.7	NO.8	NO.10	NO.12	NO.14									
1/4	●▲	●▲	●														
3/8	●▲	●▲	●▲		●▲	●											
1/2	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
5/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
3/4	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
7/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
1	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
1.1/4	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
1.1/2		●	●▲	●▲	●▲	●▲	●▲	●▲									
1.3/4			●▲	●▲	●▲	●▲	●▲	●▲									
2			●▲	●▲	●▲	●▲	●▲	●▲									
2.1/2				●	●▲	●▲	●▲	●▲									
2.3/4				●	●▲	●▲	●▲	●▲									
3					●	●▲	●▲	●▲									
3.1/2						●▲	●▲	●▲									
4						●▲	●▲	▲									
5						●											

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POZI RAISED COUNTERSUNK AB SELF TAPPING SCREWS DIN 7983C Z

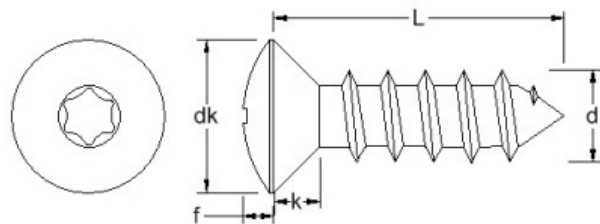


Material grades: A2: ● A4: ▲

dk (Max)	4.3	5.5	6.8	7.5	8.1	9.5	10.8	12.4										
f	0.7	0.9	1.2	1.3	1.4	1.5	1.7	2										
k	1.3	1.7	2.1	2.3	2.5	3	3.4	3.8										
Length/dim	NO.2	NO.4	NO.6	NO.7	NO.8	NO.10	NO.12	NO.14										
1/4	●▲	●▲	●▲	●▲														
3/8	●▲	●▲	●▲	●▲	●▲	●												
1/2	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
5/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
3/4	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
7/8	▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
1	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
1.1/4	▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
1.1/2			●▲	●▲	●▲	●▲	●▲	●▲										
1.3/4			●	●▲	●▲	●▲	●▲	●▲										
2			●	●▲	●▲	●▲	●▲	●▲										
2.1/2					●▲	●▲	●▲	●▲										
2.3/4					●▲	●▲	●▲	●▲										
3						●▲	●▲	●▲										
3.1/2						●▲	●▲	●▲										
4						●	●	●▲										

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TX RAISED COUNTERSUNK AB SELF TAPPING SCREWS DIN 7983C TX



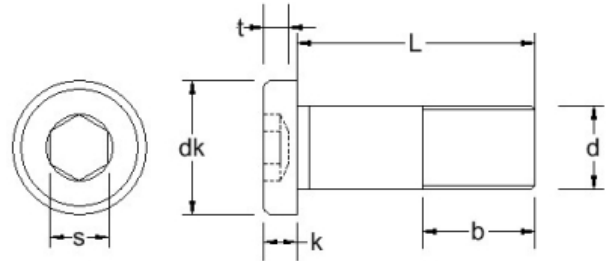
Material grades: A2: ● A4: ▲

dk (Max)	*	5.5	6.8	7.5	8.1	9.5	10.8	12.4										
f (Max)	*	0.9	1.2	1.3	1.4	1.5	1.7	2										
k (Max)	*	1.7	2.1	2.3	2.5	3	3.4	3.8										
Length/dim	NO.2	NO.4	NO.6	NO.7	NO.8	NO.10	NO.12	NO.14										
1/4	●▲	●▲	●▲	●▲														
3/8	●▲	●▲	●▲	●▲	●▲	●▲												
1/2	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
5/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
3/4	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
7/8	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲										
1	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
1.1/4		●▲	●▲	●▲	●▲	●▲	●▲	●▲										
1.1/2			●▲	●▲	●▲	●▲	●▲	●▲										
1.3/4			●▲	●▲	●▲	●▲	●▲	●▲										
2			●▲	●▲	●▲	●▲	●▲	●▲										
2.1/2					●▲	●▲	●▲	●▲										
2.3/4						●▲	●▲	●▲										
3						●▲	●▲	●▲										

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LOW HEAD SOCKET CAP SCREWS DIN 7984

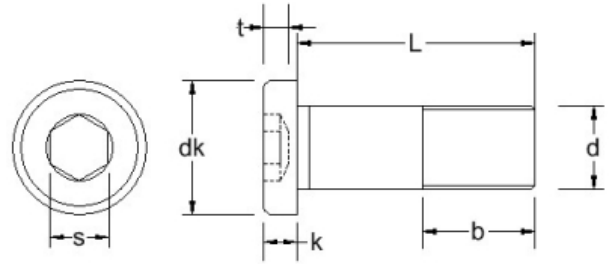


Material grades: A2: ● A4: ▲

	12	14	16	18	22	26	30	38	46	54						
b (Max)	12	14	16	18	22	26	30	38	46	54						
dk (Max)	5.5	7.0	8.5	10	13	16	18	24	30	36						
k (Max)	2	2.8	3.5	4	5	6	7	9	11	13						
Pitch	0.5	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.5	3.0						
s	2	2.5	3	4	5	7	8	12	14	17						
t	1.5	2.3	2.7	3.0	3.8	4.5	5.0	5.5	7.5	8.0						
Length/dim	M3	M4	M5	M6	M8	M10	M12	M16	M20	M24						
3	●▲															
4	●▲	●▲														
5	●▲	●▲	▲													
6	●▲	●▲	●▲	●▲												
8	●▲	●▲	●▲	●▲	●▲											
10	●▲	●▲	●▲	●▲	●▲											
12	●▲	●▲	●▲	●▲	●▲	●▲										
14	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
16	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
18	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
20	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							
22	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
25	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							
30	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						

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LOW HEAD SOCKET CAP SCREWS DIN 7984



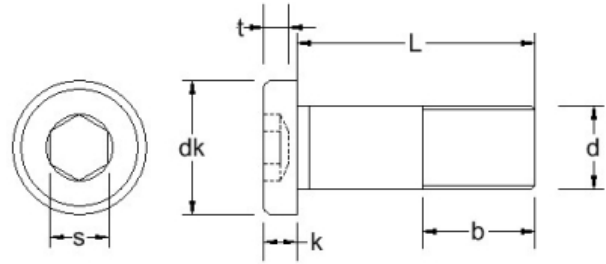
Material grades: A2: ● A4: ▲

b (Max)	12	14	16	18	22	26	30	38	46	54						
dk (Max)	5.5	7.0	8.5	10	13	16	18	24	30	36						
k (Max)	2	2.8	3.5	4	5	6	7	9	11	13						
Pitch	0.5	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.5	3.0						
s	2	2.5	3	4	5	7	8	12	14	17						
t	1.5	2.3	2.7	3.0	3.8	4.5	5.0	5.5	7.5	8.0						
Length/dim	M3	M4	M5	M6	M8	M10	M12	M16	M20	M24						
35	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							
40	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
45	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
50	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
55		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
60		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
65			●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
70			●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
75			●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
80			●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
90				●▲	●	●▲	●▲	●▲	●▲	●▲						
100				●▲	●▲	●▲	●▲	●▲	●▲	●▲						
110					●▲	●▲	●▲	●	●▲	●▲						
120				●▲	●▲	●▲	●▲	●	●▲	●▲						

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) 



LOW HEAD SOCKET CAP SCREWS DIN 7984

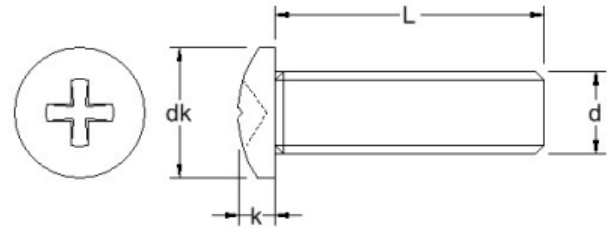


Material grades: A2: ● A4: ▲

	M3	M4	M5	M6	M8	M10	M12	M16	M20	M24						
b (Max)	12	14	16	18	22	26	30	38	46	54						
dk (Max)	5.5	7.0	8.5	10	13	16	18	24	30	36						
k (Max)	2	2.8	3.5	4	5	6	7	9	11	13						
Pitch	0.5	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.5	3.0						
s	2	2.5	3	4	5	7	8	12	14	17						
t	1.5	2.3	2.7	3.0	3.8	4.5	5.0	5.5	7.5	8.0						
Length/dim																
130								●	●▲	●▲						
140								●	●▲	●▲						
150								●	●▲	●▲						

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PHILLIPS PAN MACHINE SCREWS DIN 7985 H



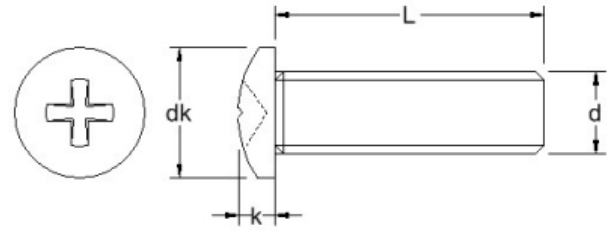
Material grades: A2: ● A4: ▲

Drive	#0	#0	#0	#1	#1	#2	#2	#3	#4								
dk (Max)	2.5	3.2	4	5	6	8	10	12	16								
k (Max)	0.8	1.42	1.72	2.12	2.52	3.25	3.95	4.75	6.15								
Pitch	0.3	0.35	0.4	0.45	0.5	0.7	0.8	1.0	1.25								
Length/dim	M1.4	M1.6	M2	M2.5	M3	M4	M5	M6	M8								
2	●	●▲															
3	●	●▲	●▲	●▲	●▲												
4	●	●▲	●▲	●▲	●▲	●▲											
5	●	●▲	●▲	●▲	●▲	●▲	●▲										
6	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
8	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
10	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							
12		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							
14		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							
16		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							
18		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							
20		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							
22				●▲	●▲	●▲	●▲	●▲	●▲	●▲							
25				●▲	●▲	●▲	●▲	●▲	●▲	●▲							
28					●▲	●▲	●▲	●▲	●▲	●▲							
30				●▲	●▲	●▲	●▲	●▲	●▲	●▲							

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PHILLIPS PAN MACHINE SCREWS DIN 7985 H

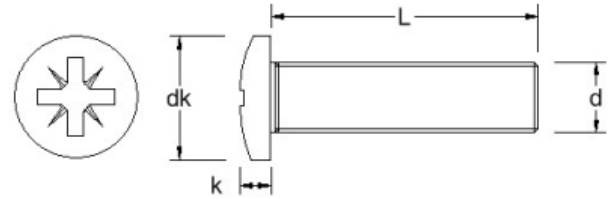


Material grades: A2: ● A4: ▲

Drive	#0	#0	#0	#1	#1	#2	#2	#3	#4								
dk (Max)	2.5	3.2	4	5	6	8	10	12	16								
k (Max)	0.8	1.42	1.72	2.12	2.52	3.25	3.95	4.75	6.15								
Pitch	0.3	0.35	0.4	0.45	0.5	0.7	0.8	1.0	1.25								
Length/dim	M1.4	M1.6	M2	M2.5	M3	M4	M5	M6	M8								
35					●▲	●▲	●▲	●▲	●▲								
40					●▲	●▲	●▲	●▲	●▲								
45					●▲	●▲	●▲	●▲	●▲								
50					●▲	●▲	●▲	●▲	●▲								
55						●▲	●▲	●▲									
60					▲	●▲	●▲	●▲	●▲								
65						●▲	●▲	●▲	●▲								
70						●▲	●▲	●▲	●▲								
80						●▲	●▲	●▲	●▲								
90						●▲	●▲	●▲	●▲								
100						●▲	●▲	●▲	●▲								

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) >

POZI PAN MACHINE SCREWS DIN 7985 Z



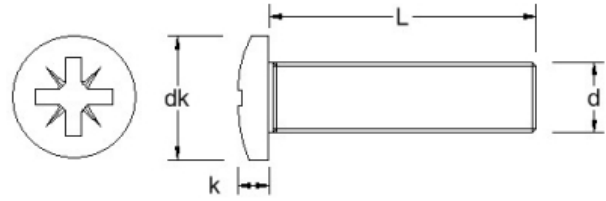
Material grades: A2: ● A4: ▲

Drive	#0	#0	#1	#1	#2	#2	#2	#3	#4								
dk (Max)	3.2	4	5	6	7	8	10	12	16								
k (Max)	1.42	1.72	2.12	2.52	2.82	3.25	3.95	4.75	6.15								
Pitch	0.35	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.25								
Length/dim	M1.6	M2	M2.5	M3	M3.5	M4	M5	M6	M8								
2	●▲																
3	●▲	●▲	●▲	●▲													
4	●▲	●▲	●▲	●▲			●▲										
5	●▲	●▲	●▲	●▲	●	●▲											
6	●▲	●▲	●▲	●▲	●	●▲	●▲										
8	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲									
10	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲								
12	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲								
14	●▲	●▲	●▲	●▲		●▲	●▲	●▲	●								
16	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲								
18	●▲	●▲	●▲	●▲			●▲	●▲									
20	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲								
22			●▲	●▲		●	●▲	●▲	●								
25		●	●▲	●▲	●	●▲	●▲	●▲	●▲								
28			●▲	●▲		●▲	▲	●▲									
30		●	●▲	●▲	●	●▲	●▲	●▲	●▲								

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) 



POZI PAN MACHINE SCREWS DIN 7985 Z

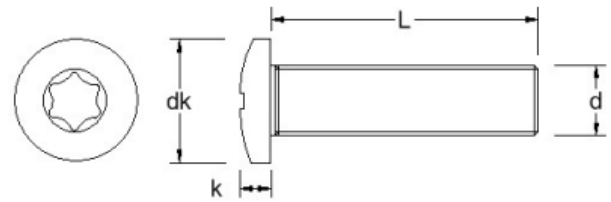


Material grades: A2: ● A4: ▲

Drive	#0	#0	#1	#1	#2	#2	#2	#3	#4								
dk (Max)	3.2	4	5	6	7	8	10	12	16								
k (Max)	1.42	1.72	2.12	2.52	2.82	3.25	3.95	4.75	6.15								
Pitch	0.35	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.25								
Length/dim	M1.6	M2	M2.5	M3	M3.5	M4	M5	M6	M8								
35				●▲		●▲	●▲	●▲	●▲								
40				●▲		●▲	●▲	●▲	●▲								
45				●▲		●▲	●▲	●▲	●								
50				●▲		●▲	●▲	●▲	●▲								
55				●▲		●▲	●▲	●▲	●								
60				●▲		●▲	●▲	●▲	●▲								
65						●	●▲	●▲	●								
70						●▲	●▲	●▲	●▲								
75							●▲										
80						●▲	●▲	●▲	●▲								
90						●▲	●▲	●▲	●								
100						●▲	●▲	●▲	●								

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) >

TX PAN MACHINE SCREWS DIN 7985 TX



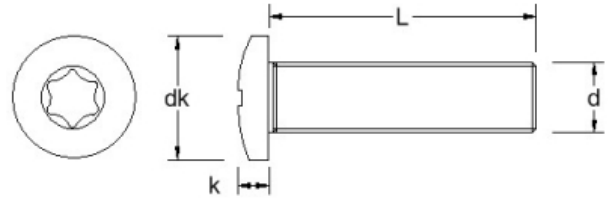
Material grades: A2: ● A4: ▲

dk (Max)	3.2	4	5	6	8	10	12	16										
k (Max)	1.42	1.72	2.12	2.52	3.25	3.95	4.75	6.15										
Pitch	0.35	0.4	0.45	0.5	0.7	0.8	1.0	1.25										
Length/dim	M1.6	M2	M2.5	M3	M4	M5	M6	M8										
2	●▲																	
3	●▲	●▲	●▲	●▲														
4	●▲	●▲	●▲	●▲	●▲													
5	●▲	●▲	●▲	●▲	●▲													
6	●▲	●▲	●▲	●▲	●▲	●▲												
8	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
10	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
12	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
14	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
16	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
18	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
20	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
22			●▲	●▲	●▲	●▲	●▲	●▲										
25			●▲	●▲	●▲	●▲	●▲	●▲	●▲									
28			●▲	●▲	▲	●▲	●▲											
30			●▲	●▲	●▲	●▲	●▲	●▲										
35				●▲	●▲	●▲	●▲	●▲										

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) 



TX PAN MACHINE SCREWS DIN 7985 TX

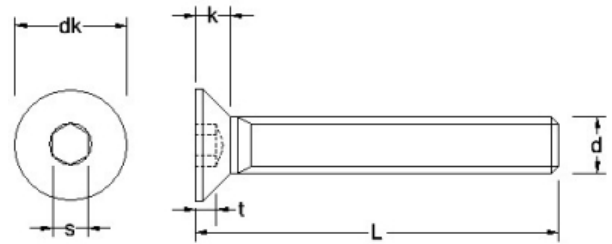


Material grades: A2: ● A4: ▲

dk (Max)	3.2	4	5	6	8	10	12	16									
k (Max)	1.42	1.72	2.12	2.52	3.25	3.95	4.75	6.15									
Pitch	0.35	0.4	0.45	0.5	0.7	0.8	1.0	1.25									
Length/dim	M1.6	M2	M2.5	M3	M4	M5	M6	M8									
40				●▲	●▲	●▲	●▲	●▲									
45				●▲	●▲	●▲	●▲	●▲									
50				●▲	●▲	●▲	●▲	●▲									
55				●▲	●▲	●▲	●▲										
60				●▲	●▲	●▲	●▲	●▲									
65					●▲	●▲	●▲										
70					●▲	●▲	●▲	●▲									
75					●▲	●▲	●										
80					●▲	●▲	●▲	●▲									
90					●▲	●▲	●▲										
100					●▲	●▲	●▲										

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SOCKET COUNTERSUNK SCREWS DIN 7991



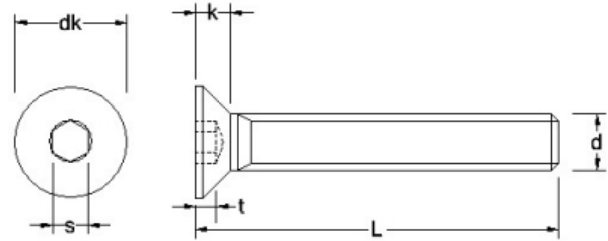
Material grades: A2: ● A4: ▲

dk (Max)	4	5	6	6.5	8	10	12	16	20	24	30	36	39				
k (Max)	1.24	1.55	1.7	2.1	2.3	2.8	3.3	4.4	5.5	6.5	7.5	8.5	*				
Pitch	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.5	3.0				
s	1.27	1.50	2	2	2.5	3	4	5	6	8	10	12	14				
t (Max)	0.65	0.80	1.2	1.3	1.8	2.3	2.5	3.5	4.4	4.6							
Length/dim	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12	M16	M20	M24				
3	●▲																
4	●▲	●▲	●▲														
5	●▲	●▲	●▲	●▲	●▲												
6	●▲	●▲	●▲	●▲	●▲	●▲											
8	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
10	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
12	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
14			●▲		●▲	●▲		●▲	●▲								
16	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
18			●▲		●▲	●▲	●▲	●▲	●▲	●▲	●▲						
20	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲					
22			●▲		●▲	●▲	●▲	●▲	●▲	●▲	●▲						
25			●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲					
30			●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) 



SOCKET COUNTERSUNK SCREWS DIN 7991

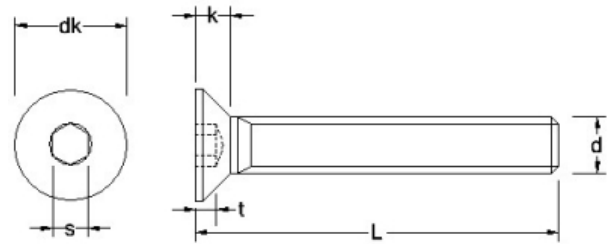


Material grades: A2: ● A4: ▲

dk (Max)	4	5	6	6.5	8	10	12	16	20	24	30	36	39				
k (Max)	1.24	1.55	1.7	2.1	2.3	2.8	3.3	4.4	5.5	6.5	7.5	8.5	*				
Pitch	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.5	3.0				
s	1.27	1.50	2	2	2.5	3	4	5	6	8	10	12	14				
t (Max)	0.65	0.80	1.2	1.3	1.8	2.3	2.5	3.5	4.4	4.6							
Length/dim	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12	M16	M20	M24				
35			●▲		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲					
40			●▲		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
45			●▲		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
50			●▲		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
55						●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
60					●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
65					●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
70					●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
75						●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
80						●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
85									●▲	●							
90						●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
100						●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
110							●▲	●▲	●▲	●▲	●▲	●▲	●▲				

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#)

SOCKET COUNTERSUNK SCREWS DIN 7991



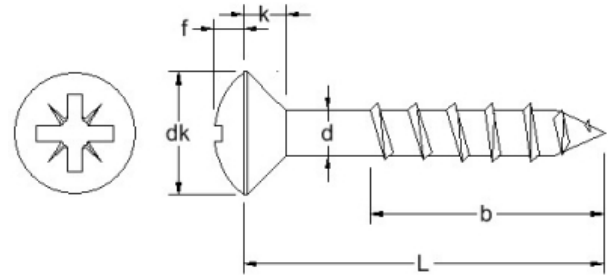
Material grades: A2: ● A4: ▲

dk (Max)	4	5	6	6.5	8	10	12	16	20	24	30	36	39				
k (Max)	1.24	1.55	1.7	2.1	2.3	2.8	3.3	4.4	5.5	6.5	7.5	8.5	*				
Pitch	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.5	3.0				
s	1.27	1.50	2	2	2.5	3	4	5	6	8	10	12	14				
t (Max)	0.65	0.80	1.2	1.3	1.8	2.3	2.5	3.5	4.4	4.6							
Length/dim	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12	M16	M20	M24				
120							●▲	●▲	●▲	●▲	●▲	●▲	●▲				
130							●▲	●▲	●▲	●▲	●▲	●▲	●▲				
140							●▲	●▲	●▲	●▲	●▲	●▲	●▲				
150							●▲	●▲	●▲	●▲	●▲	●▲	●▲				
160								●▲	●▲	●▲	●▲	●▲	●▲				
170								●▲	●▲	●▲	●▲	●▲	●▲				
180								●▲	●▲	●▲	●▲	●▲	●▲				
190								●▲	●▲	●▲	●▲	●▲	●▲				
200								●▲	●▲	●▲	●▲	●▲	●▲				

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POZI RAISED COUNTERSUNK WOODSCREWS DIN 7995 Z

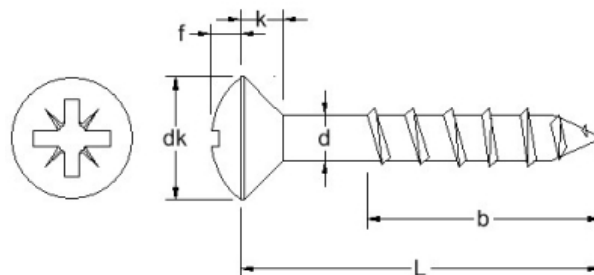


Material grades: A2: ●

b	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L											
dk	5.6	6.5	7.5	8.3	9.2	11											
f	0.75	0.9	1.0	1.1	1.25	1.5											
k	1.65	1.93	2.2	2.35	2.5	3											
Length/dim	3.0	3.5	4.0	4.5	5.0	6.0											
12	●	●															
16	●	●	●														
20	●	●	●	●	●	●											
25	●	●	●	●	●	●											
30	●	●	●	●	●	●											
35	●	●	●	●	●	●											
40			●	●	●	●											
45			●	●	●	●											
50			●	●	●	●											
55				●													
60			●	●	●	●											
65				●	●	●											
70			●	●	●	●											
75					●	●											
80				●	●	●											
90				●	●	●											

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POZI RAISED COUNTERSUNK WOODSCREWS DIN 7995 Z



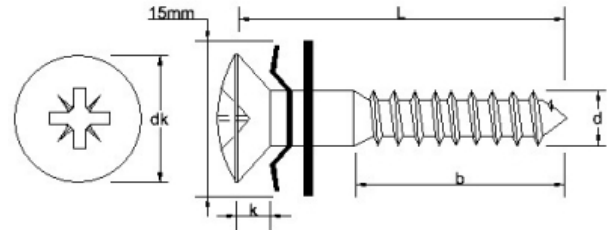
Material grades: A2: ●

b	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L												
dk	5.6	6.5	7.5	8.3	9.2	11												
f	0.75	0.9	1.0	1.1	1.25	1.5												
k	1.65	1.93	2.2	2.35	2.5	3												
Length/dim	3.0	3.5	4.0	4.5	5.0	6.0												
100				●	●	●												

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POZI RAISED COUNTERSUNK WOODSCREWS DIN 7995 15MM SEALING WASHER

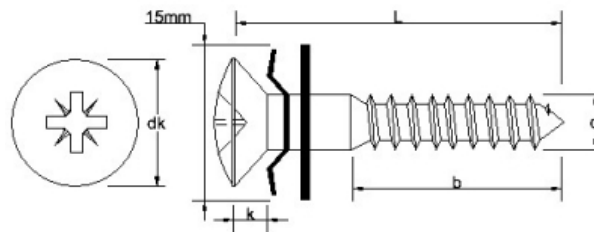


Material grades: **A2**: ●

b	0.6 x L	0.6 x L																	
Drive #	2	2																	
dk	8.3	9.2																	
k	2.35	2.5																	
Length/dim	4.5	5.0																	
20	●																		
25	●																		
30	●																		
35	●																		
40	●																		
45	●																		
50	●																		
55	●																		
60	●																		
65	●																		
70	●																		
80	●																		
90	●																		
100	●																		
120	●																		
150	●																		

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POZI RAISED COUNTERSUNK WOODSCREWS DIN 7995 15MM SEALING WASHER



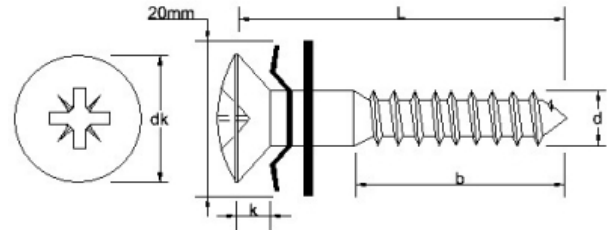
Material grades: A2: ●

b	0.6 x L	0.6 x L																
Drive #	2	2																
dk	8.3	9.2																
k	2.35	2.5																
Length/dim	4.5	5.0																
180		●																
200		●																
220		●																
250		●																
280		●																
300		●																

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POZI RAISED COUNTERSUNK WOODSCREWS DIN 7995 20MM SEALING WASHER

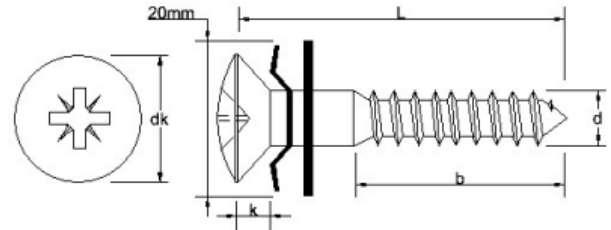


Material grades: A2: ●

b	0.6 x L	0.6 x L																	
Drive #	2	2																	
dk	8.3	9.2																	
k	2.35	2.5																	
Length/dim	4.5	5.0																	
20	●																		
25	●																		
30	●																		
35	●																		
40	●																		
45	●																		
50	●																		
55	●																		
60	●																		
65	●																		
70	●																		
80	●																		
100	●																		
120	●																		
150	●																		
180		●																	

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POZI RAISED COUNTERSUNK WOODSCREWS DIN 7995 20MM SEALING WASHER

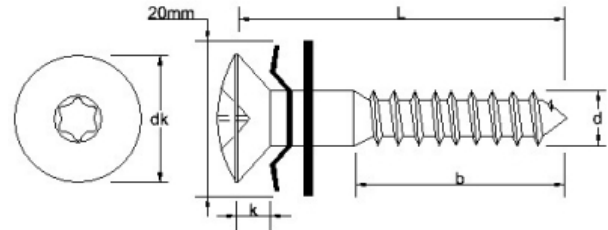


Material grades: A2: ●

b	0.6 x L	0.6 x L																
Drive #	2	2																
dk	8.3	9.2																
k	2.35	2.5																
Length/dim	4.5	5.0																
200		●																
220		●																
250		●																
280		●																
300		●																

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TX RAISED COUNTERSUNK WOODSCREWS DIN 7995 20MM SEALING WASHER



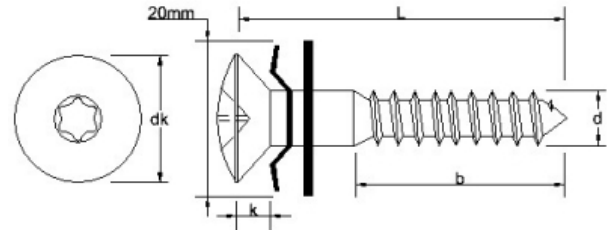
Material grades: A2: ●

b	0.6 x L	0.6 x L																	
Drive #	TX20	TX20																	
dk	8.3	9.2																	
k	2.35	2.5																	
Length/dim	4.5	5.0																	
20	●																		
25	●																		
30	●																		
35	●																		
40	●																		
45	●																		
50	●																		
55	●																		
60	●																		
65	●																		
70	●																		
80	●																		
100	●																		
120	●																		
150	●																		
180		●																	

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TX RAISED COUNTERSUNK WOODSCREWS DIN 7995 20MM SEALING WASHER



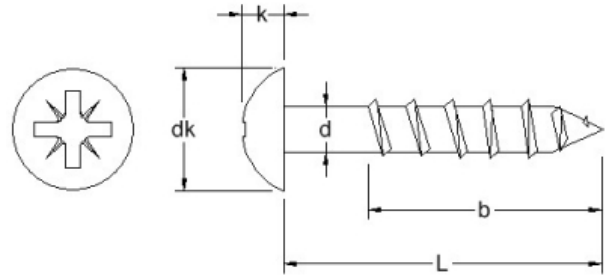
Material grades: A2: ●

b	0.6 x L	0.6 x L													
Drive #	TX20	TX20													
dk	8.3	9.2													
k	2.35	2.5													
Length/dim	4.5	5.0													
200		●													
220		●													
250		●													
280		●													
300		●													

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POZI ROUND WOODSCREWS DIN 7996 Z

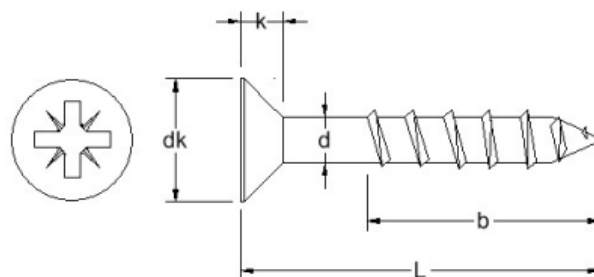


Material grades: A2: ●

b	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L												
dk	6.1	7	8	9	10	12												
k	2.1	2.35	2.8	3.1	3.5	4.2												
Length/dim	3.0	3.5	4.0	4.5	5.0	6.0												
12	●																	
16	●	●	●		●													
20	●	●	●		●													
25	●	●	●	●	●													
30	●	●	●	●	●	●												
35	●	●	●	●	●	●												
40		●	●	●	●	●												
45			●	●	●	●												
50		●	●	●	●	●												
60			●	●	●	●												
65				●														
70			●	●	●	●												
80			●		●	●												
90					●													

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POZI COUNTERSUNK WOODSCREWS DIN 7997 Z



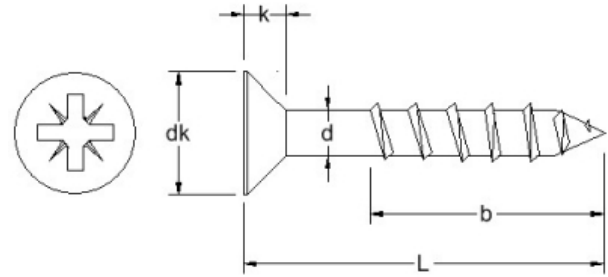
Material grades: A2: ●

b	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L												
dk	5.6	6.5	7.5	8.3	9.2	11												
k	1.65	1.93	2.2	2.35	2.5	3												
Length/dim	3.0	3.5	4.0	4.5	5.0	6.0												
12	●	●																
16	●	●	●															
20	●	●	●	●	●													
25	●	●	●	●	●	●												
30	●	●	●	●	●	●												
35		●	●	●	●	●												
40		●	●	●	●	●												
45			●	●	●	●												
50		●	●	●	●	●												
60			●	●	●	●												
65				●	●	●												
70			●	●	●	●												
75					●	●												
80					●	●												
90					●	●												
100					●	●												
110						●												

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POZI COUNTERSUNK WOODSCREWS DIN 7997 Z

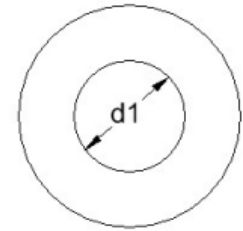
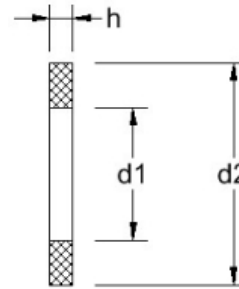


Material grades: A2: ●

b	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L													
dk	5.6	6.5	7.5	8.3	9.2	11													
k	1.65	1.93	2.2	2.35	2.5	3													
Length/dim	3.0	3.5	4.0	4.5	5.0	6.0													
120																			

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DIN 9021 FLAT WASHERS

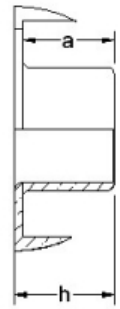
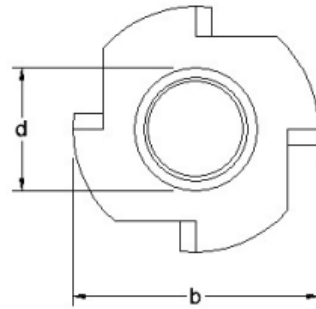


Material grades: A2: ● A4: ▲

d1	2.2	2.7	3.2	3.7	4.3	5.3	6.4	7.4	8.4	10.5	13	15	17	20	22	26	33
d2	7	8	9	11	12	15	18	22	24	30	37	44	50	56	60	72	92
h	0.8	0.8	0.8	0.8	1	1.2	1.6	2	2	2.5	3	3	3	4	4	5	6
Length/dim	M2	M2.5	M3	M3.5	M4	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20	M24	M30
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲

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4 PRONG DRIVE IN NUTS FOR WOOD (TEE-NUT)



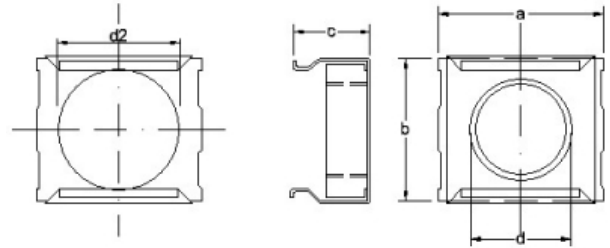
Material grades: A2: ●

a (Min)	3.1	3.5	6.8	9.4															
b	17	19	22	25															
h	8	9	11	12															
Pitch	0.8	1.00	1.25	1.50															
Length/dim	M5	M6	M8	M10															
	●	●	●	●															

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CAGE NUTS

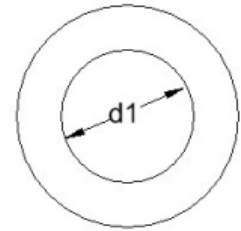
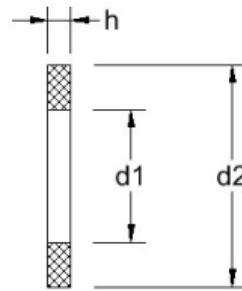


Material grades: A2: ●

a	13.8	16.5	16.5																	
b	13	15.5	15.5																	
c	9.3	12	12																	
d2	7	10.5	10.5																	
Pitch	1.00	1.25	1.50																	
Length/dim	M6	M8	M10																	
	●	●	●																	

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PENNY WASHERS



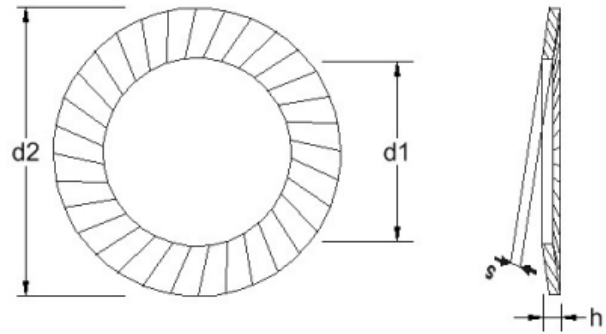
Material grades: A2: ● A4: ▲

d1	4.3	4.3	5.3	6.4	8.4	10.5	13										
h (Max)	1	1.5	1.5	1.5	1.5	1.5	1.5										
Length/dim	M4	M4	M5	M6	M8	M10	M12										
12	● ▲																
15		● ▲	● ▲														
20		● ▲	● ▲	● ▲	● ▲												
25		● ▲	● ▲	● ▲	● ▲	● ▲											
30			● ▲	● ▲	● ▲	● ▲	● ▲										
35				● ▲	● ▲	● ▲	● ▲										
40				● ▲	● ▲	● ▲	● ▲										

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LOCKING WASHER S TYPE



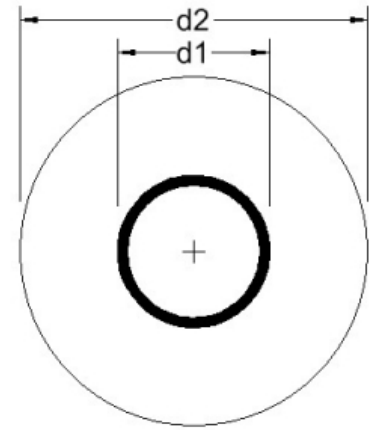
Material grades: A2: ●

d1	2.2	2.7	3.2	3.7	4.3	5.3	6.4	8.4	10.5	13	15	17	19	21	25		
d2	4.0	4.8	5.5	6.0	7.0	9.0	10	13	16	18	22	24	27	30	36		
h (Max)	0.8	0.9	0.9	1.0	1.0	1.1	1.2	1.4	1.6	1.7	2.0	2.1	2.2	2.4	2.7		
s	0.35	0.45	0.45	0.45	0.50	0.60	0.70	0.80	1.00	1.10	1.20	1.30	1.50	1.5	1.8		
Length/dim	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M24		
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		

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BONDED SEALING WASHERS WITH GREY EPDM



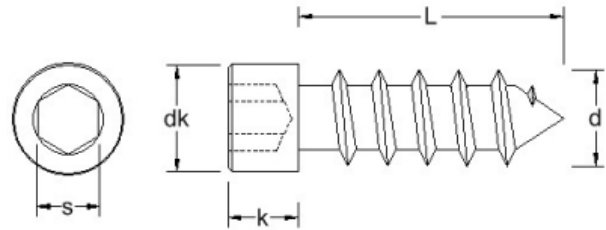
Material grades: A2: ●

h1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8									
h2	2	2	2	2	2	2	2	2	2									
Length/dim	4.8	5.2	5.3	6.2	6.7	6.8	8.4	10.5	13.0									
12	●		●															
14	●	●	●															
16			●	●	●	●	●											
19			●		●	●	●											
22					●	●	●											
25					●	●	●	●										
29					●		●	●	●									

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SOCKET CAP HEAD SELF TAPPING SCREWS

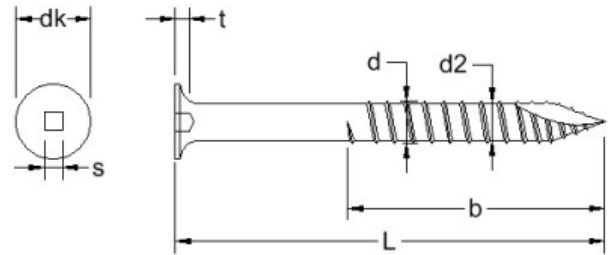


Material grades: A2: ● A4: ▲

dk (Max)	8.5	10	10																
k (Max)	5	6	6																
s	4	5	5																
Length/dim	NO.10	NO.12	NO.14																
3/8	●	●	●																
1/2	●▲	●▲	●																
5/8	●▲	●▲	●▲																
3/4	●▲	●▲	●▲																
7/8	●▲	●▲	●▲																
1	●▲	●▲	●▲																
1.1/4	●▲	●▲	●▲																
1.1/2	●▲	●▲	●▲																
1.5/8		●▲																	
1.3/4	●▲	●▲	●▲																
2	●▲	●▲	●▲																
2.1/4	●	●▲	●▲																
2.1/2	●▲	●▲	●▲																
2.3/4	●▲	●▲	●▲																

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SQUARE DRIVE DECKING SCREWS



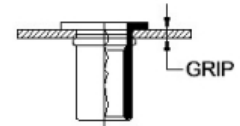
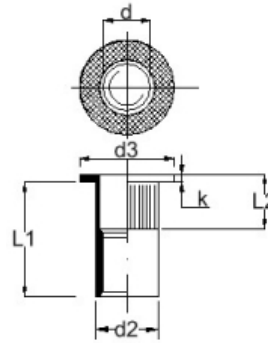
Material grades: A2: ●

b (Max)	0.66 X 'L'	0.66 X 'L'																		
d2	2.90	3.50																		
dk (Max)	8.50	8.90																		
s	#2	#2																		
t (Min)	1.70	1.66																		
Length/dim	NO.8	NO.10																		
2	●																			
2.1/4	●																			
2.1/2	●	●																		
3	●	●																		

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FLAT HEAD KNURLED INSERT NUT



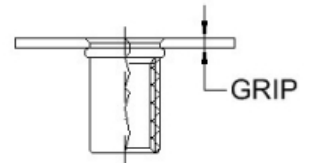
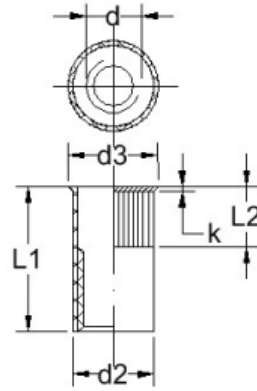
Material grades: **A2** ●

d2	4.9	5.9	5.9	6.9	6.9	8.9	8.9	10.9	10.9	12.9	12.9	14.9					
d3	7	9	9	10	10	13	13	16	16	19	19	23					
k	0.9	1	1	1	1	1.5	1.5	1.5	1.5	2	2	2					
L1	10	10	11.5	12	15	14.5	16	16	18.5	17	22	23					
L2	5.5	5.5	7.5	6.0	8.0	8.0	10	8.5	11	10	13	12					
Shear	1760	3920	3920	4510	4510	4900	4900	6860	6860	7840	7840	9800					
Tensile	5390	6860	6860	11760	11760	18630	18630	27450	27450	29410	29410	52950					
Length/d	M3	M4	M4	M5	M5	M6	M6	M8	M8	M10	M10	M12					
10	●	●															
11.5			●														
12				●													
14.5					●												
15						●											
16							●	●									
17										●							
18.5									●								
22											●						
23												●					

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COUNTERSUNK KNURLED INSERT NUT



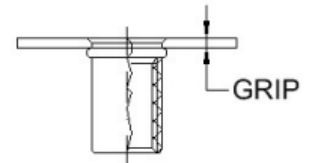
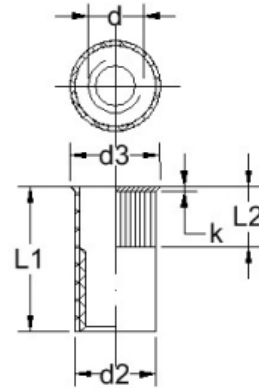
Material grades: A2: ●

d2	5.9	6.9	8.9	10.9	12.9														
d3	9	10	12	14	15														
k	1.5	1.5	1.5	1.5	1.5														
L1	11.5	13.5	16.0	19.0	21.0														
L2	4.0	5.0	5.5	5.5	5.5														
Shear	3720	4020	5490	7640	8040														
Tensile	10100	11760	20590	27450	32360														
Length/dim	M4	M5	M6	M8	M10														
11.5	●																		
13.5		●																	
16			●																
19				●															
21					●														

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REDUCED CSK KNURLED INSERT NUT



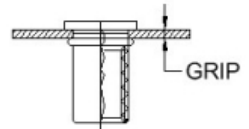
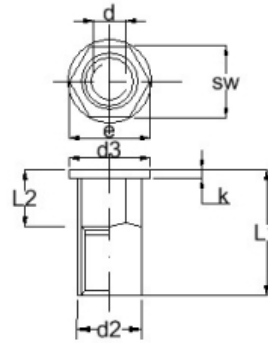
Material grades: A2: ●

d2	5.9	6.9	8.9	10.9	12.9														
d3	7	8	10	12	14.5														
k	1	1	1	1	1														
L1	10	11.5	14	15.5	19.5														
L2	5.5	5.5	6.5	7.5	9														
Shear	2940	4020	5190	5390	5880														
Tensile	6860	11760	18630	25490	34320														
Length/dim	M4	M5	M6	M8	M10														
10	●																		
11.5		●																	
14			●																
15.5				●															
19.5					●														

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FLAT HEAD HALF HEX INSERT NUT

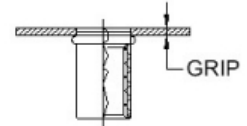
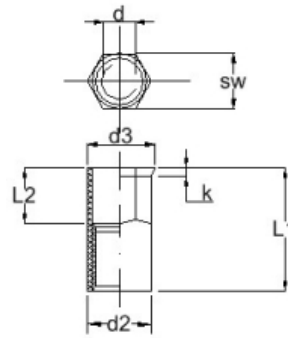


Material grades: A2: ●

d2	6	7	9	11	12.9														
d3	9.3	10.3	12.3	14.3	16.3														
k	1	1	1.5	1.5	2														
L1	11.5	13.5	15.5	17.5	22														
L2	6	7.5	8	8.5	9.7														
Shear	2640	3620	4700	6860	8620														
SW	6	7	9	11	13														
Tensile	9800	12740	21570	37260	47070														
Length/dim	M4	M5	M6	M8	M10														
11.5	●																		
13.5		●																	
15.5			●																
17.5				●															
22					●														

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REDUCED CSK HALF HEX INSERT NUT



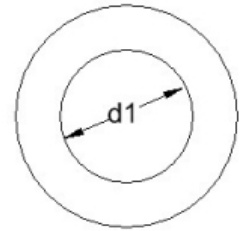
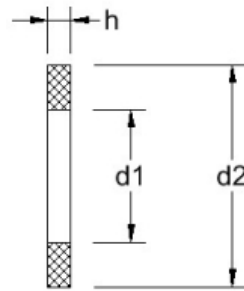
Material grades: A2: ●

d2	6	7	9	11	12.9														
d3	7	8	10	12	14														
k	0.6	0.6	0.6	0.6	0.6														
L1	12	14	16	17	20.5														
L2	6	7.5	8	8.5	9														
Shear	2940	3820	3430	4900	5000														
SW	6	7	9	11	13														
Tensile	8230	11760	21570	24510	47070														
Length/dim	M4	M5	M6	M8	M10														
12	●																		
14		●																	
16			●																
17				●															
20.5					●														

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FORM C FLAT WASHERS BS4320

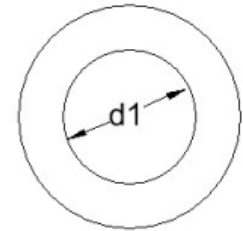
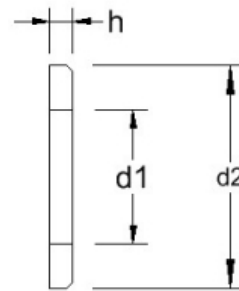


Material grades: A2: ● A4: ▲

d1	4.3	5.3	6.4	8.4	10.5	13	17	21										
d2	10	12.5	14	21	24	28	34	39										
h (Max)	0.8	1	1.6	1.6	2	2.5	3	3										
Length/dim	M4	M5	M6	M8	M10	M12	M16	M20										
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										

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FORM B FLAT WASHERS BS4320



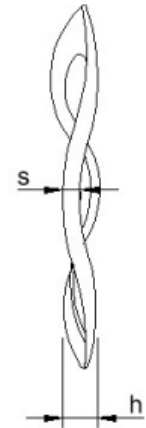
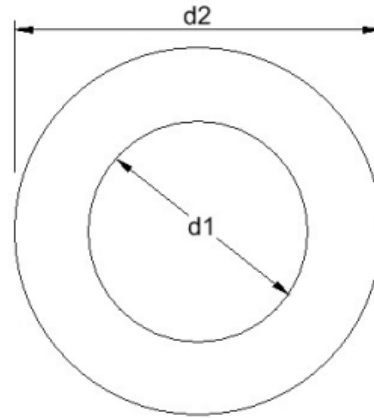
Material grades: A2: ● A4: ▲

d1	5.3	6.4	8.4	10.5	13	15	17	19	21	23	25						
d2	10	12.5	17	21	24	28	30	34	37	39	44						
h	0.8	0.8	1	1.25	1.6	1.6	2	2	2	2	2.5						
Length/dim	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24						
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						

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CRINKLE WASHERS BS4463

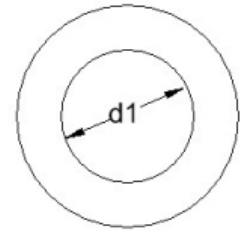
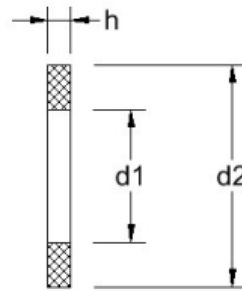


Material grades: A2: ●

d1 (Min)	1.7	2.2	2.7	3.2	3.7	4.3	5.3	6.4	8.4	10.5	13	17	21				
d2 (Max)	3.7	4.6	5.8	6.4	6.9	8.1	9.2	11.5	15	19.6	22	27.8	34.7				
h (Max)	0.51	0.53	0.53	0.61	0.79	0.84	0.89	1.14	1.4	1.7	1.9	2.41	2.66				
s	0.16	0.16	0.16	0.16	0.20	0.28	0.30	0.40	0.40	0.55	0.55	0.70	0.70				
Length/dim	M1.6	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12	M16	M20				
	●	●	●	●	●	●	●	●	●	●	●	●	●				

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ISO 7089 FLAT WASHERS 200HV



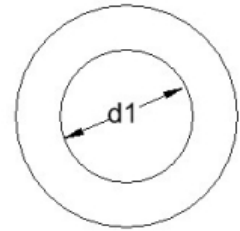
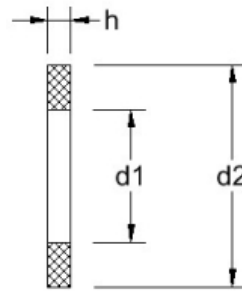
Material grades: A2: ● A4: ▲

d1	1.7	2.2	2.7	3.2	4.3	5.3	6.4	8.4	10.5	13	15	17	21	25	28	31	34
d2	4	5	6	7	9	10	12	16	20	24	28	30	37	44	50	56	60
h	0.3	0.3	0.5	0.5	0.8	1	1.6	1.6	2	2.5	2.5	3	3	4	4	4	5
Length/dim	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M14	M16	M20	M24	M27	M30	M33
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲

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ISO 7089 FLAT WASHERS 200HV

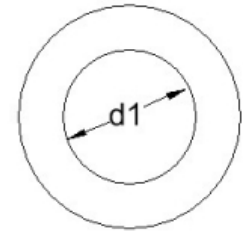
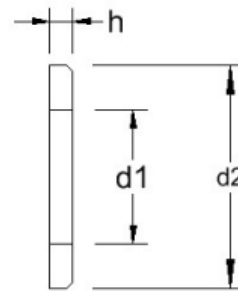


Material grades: A2: ● A4: ▲

d1	37	40	43	46	50	54	*												
d2	66	66	75	85	92	98	*												
h	5	6	7	7	8	8	*												
Length/dim	M36	M39	M42	M45	M48	M52	M56												
	●▲	●▲	●▲	●▲	●▲	●▲	●▲												

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ISO 7090 CHAMFERED FLAT WASHERS 200HV

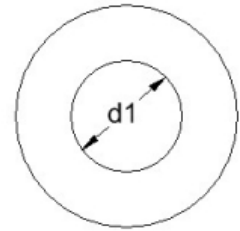
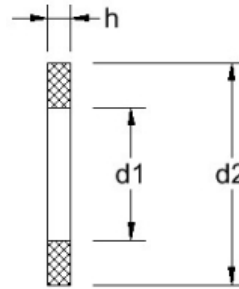


Material grades: A2: ● A4: ▲

d1 Min	5.3	6.4	8.4	10.5	13	15	17	19	21	23	25	28	31	34	37	42	45
d2 Max	10	12	16	20	24	28	30	34	37	39	44	50	56	60	66	72	78
h	1	1.6	1.6	2	2.5	2.5	3	3	3	3	4	4	4	5	5	6	8
Length/dim	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36	M39	M42
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲

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ISO 7093-1 LARGE SERIES FLAT WASHERS 200HV

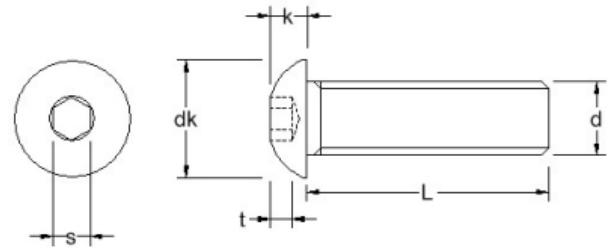


Material grades: A2: ● A4: ▲

d1 Min	3.2	3.7	4.3	5.3	6.4	8.4	10.5	13	15	17	19	21	23	25	30	33	36
d2 Max	9	11	12	15	18	24	30	37	44	50	56	60	66	72	85	92	105
h	0.8	0.8	1	1	1.6	2	2.5	3	3	3	4	4	5	5	6	6	6
Length/dim	M3	M3.5	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲

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SOCKET BUTTON SCREWS ISO 7380-1



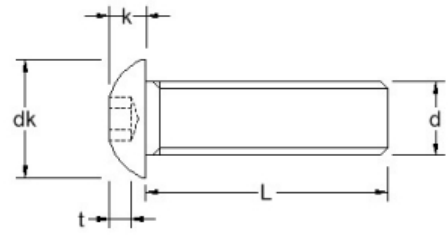
Material grades: A2: ● A4: ▲

dk(Max)	3.5	4.5	5.7	6.6	7.6	9.5	10.5	14	17.5	21							
k (Max)	1.3	1.5	1.65	1.9	2.2	2.75	3.3	4.4	5.5	6.6							
Pitch	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.25	1.5	1.75							
s	1.3	1.5	2	2	2.5	3	4	5	6	8							
t (Min)	0.8	1.0	1.04	1.2	1.3	1.56	2.08	2.60	3.12	4.16							
Length/dim	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12							
3	●▲	●▲	●▲														
4	●▲	●▲	●▲		●▲												
5	●▲	●▲	●▲	●▲	●▲	●▲											
6	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
9			●														
10	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
12	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
14			●▲		●▲	●▲	●▲	●▲	●▲								
16	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							
18			●▲		●▲	●▲	●▲	●▲	●▲	●▲							
20	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							
22			●▲		●▲	●▲	●▲	●▲	●▲	●▲	▲						
25			●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							
30			●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							

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SOCKET BUTTON SCREWS ISO 7380-1

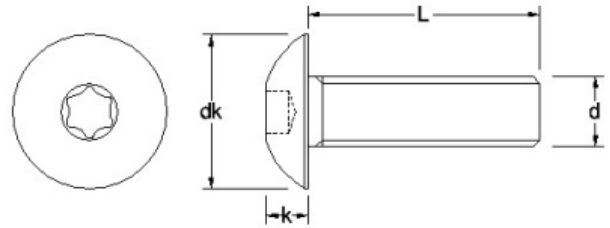


Material grades: A2: ● A4: ▲

dk(Max)	3.5	4.5	5.7	6.6	7.6	9.5	10.5	14	17.5	21							
k (Max)	1.3	1.5	1.65	1.9	2.2	2.75	3.3	4.4	5.5	6.6							
Pitch	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.25	1.5	1.75							
s	1.3	1.5	2	2	2.5	3	4	5	6	8							
t (Min)	0.8	1.0	1.04	1.2	1.3	1.56	2.08	2.60	3.12	4.16							
Length/dim	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12							
35			●▲		●▲	●▲	●▲	●▲	●▲	●▲							
40			●▲		●▲	●▲	●▲	●▲	●▲	●▲							
45			●▲		●▲	●▲	●▲	●▲	●▲	●▲							
50			●▲		●▲	●▲	●▲	●▲	●▲	●▲							
55					●▲	●▲	●▲	●▲	●▲	●▲							
60					●▲	●▲	●▲	●▲	●▲	●▲							
65						●▲	●▲	●▲	●▲	●▲							
70						●▲	●▲	●▲	●▲	●▲							
75						●▲	●▲	●▲	●▲	●▲							
80						●▲	●▲	●▲	●▲	●▲							
90							●▲	●▲	●▲	●▲							
100							●▲	●▲	●▲	●▲							
110							●▲	●▲	●▲	●▲							
120							●▲	●▲	●▲	●▲							

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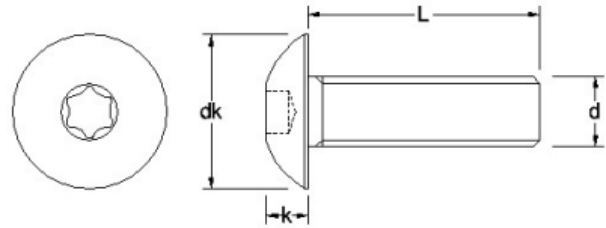
Material grades: A2: ●

dk(Max)	5.7	7.6	9.5	10.5	14	17.5	21											
k (Max)	1.65	2.2	2.75	3.3	4.4	5.5	6.6											
Pitch	0.5	0.7	0.8	1.0	1.25	1.5	1.75											
Length/dim	M3	M4	M5	M6	M8	M10	M12											
3	●																	
4	●	●																
5	●	●	●															
6	●	●	●	●														
8	●	●	●	●	●													
10	●	●	●	●	●													
12	●	●	●	●	●	●												
14	●	●	●	●	●	●	●											
16	●	●	●	●	●	●	●	●										
18	●	●	●	●	●	●	●	●	●									
20	●	●	●	●	●	●	●	●	●									
22	●	●	●	●	●	●	●	●	●									
25	●	●	●	●	●	●	●	●	●									
30	●	●	●	●	●	●	●	●	●									
35	●	●	●	●	●	●	●	●	●									
40	●	●	●	●	●	●	●	●	●									
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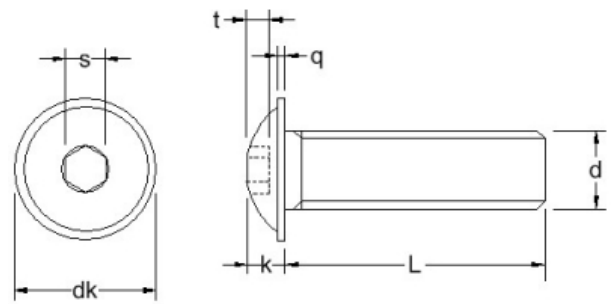


Material grades: A2: ●

dk(Max)	5.7	7.6	9.5	10.5	14	17.5	21											
k (Max)	1.65	2.2	2.75	3.3	4.4	5.5	6.6											
Pitch	0.5	0.7	0.8	1.0	1.25	1.5	1.75											
Length/dim	M3	M4	M5	M6	M8	M10	M12											
50	●	●	●	●	●	●	●											
55		●	●	●	●	●	●											
60		●	●	●	●	●	●											
65			●	●	●	●	●											
70			●	●	●	●	●											
75			●	●	●	●	●											
80			●	●	●	●	●											
90				●	●	●	●											
100				●	●	●	●											
110				●	●	●	●											
120				●	●	●	●											

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FLANGED SOCKET BUTTONS ISO 7380-2



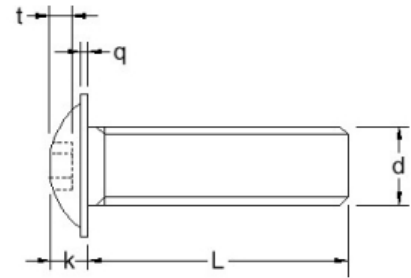
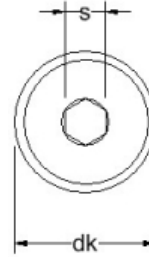
Material grades: A2: ● A4: ▲

dk (Max)	6.9	9.4	11.8	13.6	17.8	21.9	26											
k	1.65	2.2	2.75	3.3	4.4	5.5	6.6											
Pitch	0.5	0.7	0.8	1.0	1.25	1.5	1.75											
q	0.7	0.8	0.9	1.2	1.5	2.0	2.4											
s	2	2.5	3	4	5	6	8											
t (Min)	1.04	1.3	1.56	2.08	2.6	3.12	4.16											
Length/dim	M3	M4	M5	M6	M8	M10	M12											
3	●▲																	
4	●▲	●▲																
5	●▲	●▲	●▲															
6	●▲	●▲	●▲	●▲														
8	●▲	●▲	●▲	●▲	●▲													
10	●▲	●▲	●▲	●▲	●▲													
12	●▲	●▲	●▲	●▲	●▲	●▲												
14	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
16	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
18	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
20	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
22	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
25	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
30	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									

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FLANGED SOCKET BUTTONS ISO 7380-2

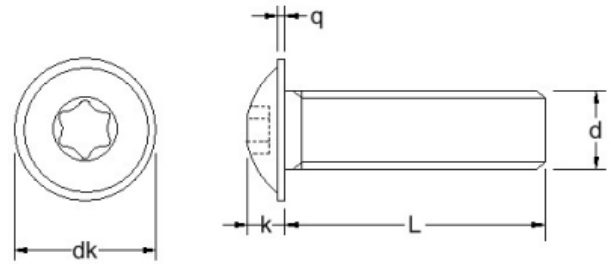


Material grades: A2: ● A4: ▲

dk (Max)	6.9	9.4	11.8	13.6	17.8	21.9	26										
k	1.65	2.2	2.75	3.3	4.4	5.5	6.6										
Pitch	0.5	0.7	0.8	1.0	1.25	1.5	1.75										
q	0.7	0.8	0.9	1.2	1.5	2.0	2.4										
s	2	2.5	3	4	5	6	8										
t (Min)	1.04	1.3	1.56	2.08	2.6	3.12	4.16										
Length/dim	M3	M4	M5	M6	M8	M10	M12										
35	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
40	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
45	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
50	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
55		●▲	●▲	●▲	●▲	●▲	●▲										
60		●▲	●▲	●▲	●▲	●▲	●▲										
65			●▲	●▲	●▲	●▲	●▲										
70			●▲	●▲	●▲	●▲	●▲										
75			●▲	●▲	●▲	●▲	●▲										
80			●▲	●▲	●▲	●▲	●▲										
90				●▲	●▲	●▲	●▲										
100				●▲	●▲	●▲	●▲										
110				●▲	●▲	●▲	●▲										
120				●▲	●▲	●▲	●▲										

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FLANGED TX BUTTONS ISO 7380-2



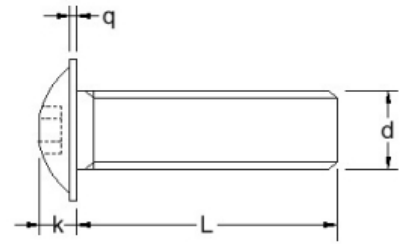
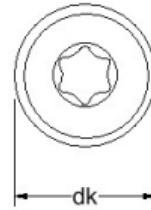
Material grades: A2: ●

dk (Max)	6.9	9.4	11.8	13.6	17.8	21.9	26												
k	1.65	2.2	2.75	3.3	4.4	5.5	6.6												
Pitch	0.5	0.7	0.8	1.0	1.25	1.5	1.75												
q	0.7	0.8	1.0	1.2	1.5	2.0	2.4												
Length/dim	M3	M4	M5	M6	M8	M10	M12												
3	●																		
4	●	●																	
5	●	●	●																
6	●	●	●	●															
8	●	●	●	●	●														
10	●	●	●	●	●														
12	●	●	●	●	●	●													
14	●	●	●	●	●	●													
16	●	●	●	●	●	●	●												
18	●	●	●	●	●	●	●	●											
20	●	●	●	●	●	●	●	●											
22	●	●	●	●	●	●	●	●											
25	●	●	●	●	●	●	●	●											
30	●	●	●	●	●	●	●	●											
35	●	●	●	●	●	●	●	●											
40	●	●	●	●	●	●	●	●											

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FLANGED TX BUTTONS ISO 7380-2

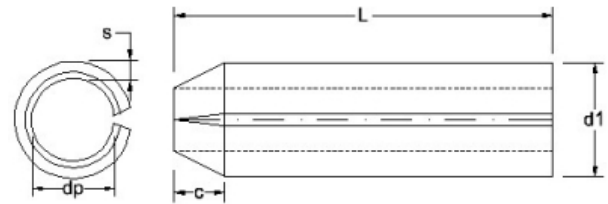


Material grades: A2: ●

dk (Max)	6.9	9.4	11.8	13.6	17.8	21.9	26										
k	1.65	2.2	2.75	3.3	4.4	5.5	6.6										
Pitch	0.5	0.7	0.8	1.0	1.25	1.5	1.75										
q	0.7	0.8	1.0	1.2	1.5	2.0	2.4										
Length/dim	M3	M4	M5	M6	M8	M10	M12										
45	●	●	●	●	●	●	●										
50	●	●	●	●	●	●	●										
55		●	●	●	●	●	●										
60		●	●	●	●	●	●										
65			●	●	●	●	●										
70			●	●	●	●	●										
75			●	●	●	●	●										
80			●	●	●	●	●										
90				●	●	●	●										
100				●	●	●	●										
110				●	●	●	●										
120				●	●	●	●										

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SLOTTED SPRING PINS DIN 1481/ISO 8752



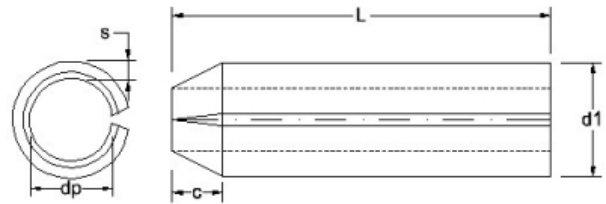
Material grades: A2: ●

c	0.15	0.25	0.35	0.4	0.5	0.6	0.65	0.8	0.9	1.2	2.0	2.0	2.0	*			
d1 (Min)	1.2	1.7	2.3	2.8	3.3	3.8	4.4	4.9	5.4	6.4	8.5	10.5	12.5	*			
dp (Min)	0.8	1.1	1.5	1.8	2.1	2.3	2.8	2.9	3.4	3.9	5.5	6.5	7.5	*			
s	0.2	0.3	0.4	0.5	0.6	0.75	0.8	1.0	1.0	1.25	1.5	2.0	2.5	*			
Length/dim	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0	8.0	10	12	14			
4	●	●	●	●	●	●	●										
5	●	●	●	●	●	●	●										
6	●	●	●	●	●	●	●		●								
8	●	●	●	●	●	●	●		●								
10	●	●	●	●	●	●	●	●	●	●	●	●					
12	●	●	●	●	●	●	●		●	●	●	●	●				
14	●	●	●	●	●	●	●	●	●	●	●	●	●				
16	●	●	●	●	●	●	●	●	●	●	●	●	●				
18	●	●	●	●	●	●	●	●	●	●	●	●	●				
20	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
22			●	●	●	●	●	●	●	●	●	●	●				
24			●	●	●		●	●	●	●	●	●	●				
25					●	●	●		●								
26			●	●	●	●	●	●	●	●	●	●	●				
28			●	●	●	●	●	●	●	●	●	●	●				
30			●	●	●	●	●	●	●	●	●	●	●				

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SLOTTED SPRING PINS DIN 1481/ISO 8752

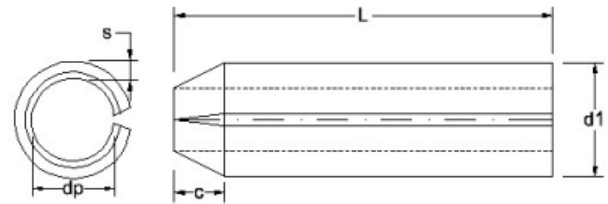


Material grades: A2: ●

c	0.15	0.25	0.35	0.4	0.5	0.6	0.65	0.8	0.9	1.2	2.0	2.0	2.0	*			
d1 (Min)	1.2	1.7	2.3	2.8	3.3	3.8	4.4	4.9	5.4	6.4	8.5	10.5	12.5	*			
dp (Min)	0.8	1.1	1.5	1.8	2.1	2.3	2.8	2.9	3.4	3.9	5.5	6.5	7.5	*			
s	0.2	0.3	0.4	0.5	0.6	0.75	0.8	1.0	1.0	1.25	1.5	2.0	2.5	*			
Length/dim	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0	8.0	10	12	14			
32					●	●	●	●	●	●	●	●					
35									●								
36					●	●	●	●	●	●	●	●	●	●			
40					●	●	●	●	●	●	●	●	●				
45							●	●	●	●	●	●	●				
50							●	●	●	●	●	●	●				
55									●	●	●	●					
60									●	●	●	●	●				
65									●		●	●					
70									●	●	●	●	●				
75										●	●	●					
80										●	●	●					
85											●	●					
90											●	●					
95											●						
100											●	●					

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SLOTTED SPRING PINS DIN 1481/ISO 8752



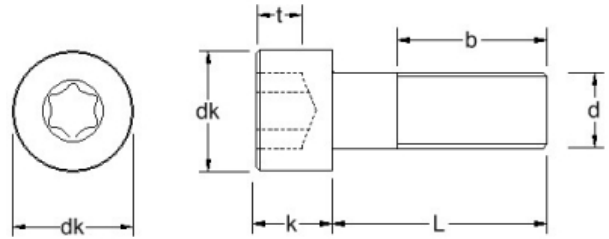
Material grades: A2: ●

c	0.15	0.25	0.35	0.4	0.5	0.6	0.65	0.8	0.9	1.2	2.0	2.0	2.0	*			
d1 (Min)	1.2	1.7	2.3	2.8	3.3	3.8	4.4	4.9	5.4	6.4	8.5	10.5	12.5	*			
dp (Min)	0.8	1.1	1.5	1.8	2.1	2.3	2.8	2.9	3.4	3.9	5.5	6.5	7.5	*			
s	0.2	0.3	0.4	0.5	0.6	0.75	0.8	1.0	1.0	1.25	1.5	2.0	2.5	*			
Length/dim	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0	8.0	10	12	14			
120												●					

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TX CAP SCREWS ISO 14579

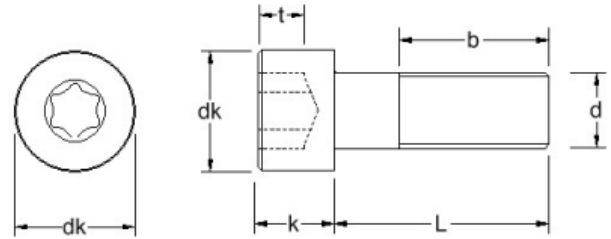


Material grades: A2: ●

b (Max) = L	16	17	18	20	22	24	28												
dk	3.8	4.5	5.5	7.0	8.5	10	13												
k (Max)	2.0	2.5	3	4	5	6	8												
Pitch	0.4	0.45	0.5	0.7	0.8	1.0	1.25												
t (Min)	1.0	1.1	1.3	2.0	2.5	3	4												
Length/dim	M2	M2.5	M3	M4	M5	M6	M8												
3	●	●																	
4	●	●	●																
5	●	●	●	●															
6	●	●	●	●	●	●													
8	●	●	●	●	●	●													
10	●	●	●	●	●	●													
12	●	●	●	●	●	●													
14	●	●	●	●	●	●													
16	●	●	●	●	●	●	●												
18	●	●	●	●	●	●	●	●											
20	●	●	●	●	●	●	●	●											
22			●	●	●	●	●	●											
25			●	●	●	●	●	●											
30			●	●	●	●	●	●											
35				●	●	●	●	●											

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TX CAP SCREWS ISO 14579



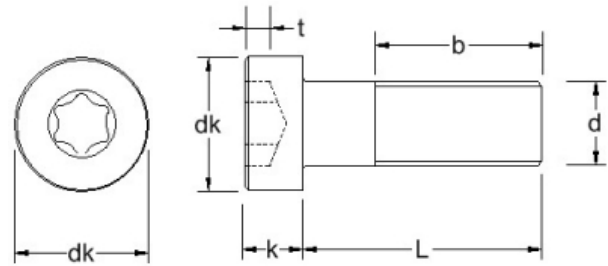
Material grades: A2: ●

b (Max) = L	16	17	18	20	22	24	28											
dk	3.8	4.5	5.5	7.0	8.5	10	13											
k (Max)	2.0	2.5	3	4	5	6	8											
Pitch	0.4	0.45	0.5	0.7	0.8	1.0	1.25											
t (Min)	1.0	1.1	1.3	2.0	2.5	3	4											
Length/dim	M2	M2.5	M3	M4	M5	M6	M8											
40				●	●	●	●											
45				●	●	●	●											
50				●	●	●	●											
60				●	●	●	●											

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TX LOW HEAD CAP SCREWS ISO 14580

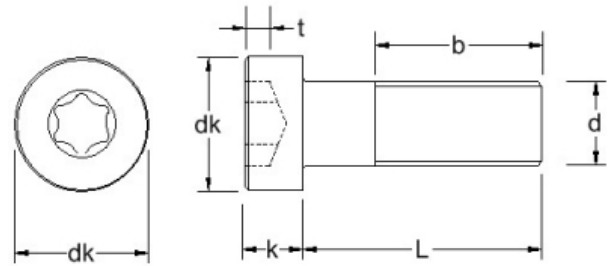


Material grades: A2: ●

b (Max) = L	25	25	25	38	38	38	38											
dk (Max)	3.8	4.5	5.5	7.0	8.5	10	13											
k (Max)	1.55	1.85	2.4	3.1	3.65	4.4	5.8											
Pitch	0.4	0.45	0.5	0.7	0.8	1.0	1.25											
t (Max)	0.84	0.91	1.27	1.66	1.91	2.29	3.05											
Length/dim	M2	M2.5	M3	M4	M5	M6	M8											
3	●	●																
4	●	●	●															
5	●	●	●															
6	●	●	●	●														
8	●	●	●	●	●	●												
10	●	●	●	●	●	●	●											
12	●	●	●	●	●	●	●											
16	●	●	●	●	●	●	●											
20	●	●	●	●	●	●	●											
25			●	●	●	●	●											
30			●	●	●	●	●											
35			●	●	●	●	●											
40			●	●	●	●	●											
45			●	●	●	●	●											
50			●	●	●	●	●											

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TX LOW HEAD CAP SCREWS ISO 14580



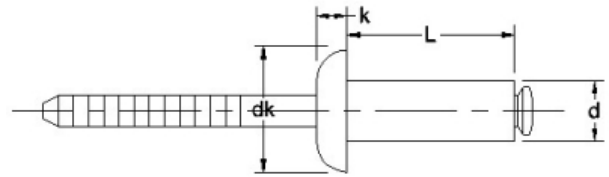
Material grades: A2: ●

b (Max) = L	25	25	25	38	38	38	38											
dk (Max)	3.8	4.5	5.5	7.0	8.5	10	13											
k (Max)	1.55	1.85	2.4	3.1	3.65	4.4	5.8											
Pitch	0.4	0.45	0.5	0.7	0.8	1.0	1.25											
t (Max)	0.84	0.91	1.27	1.66	1.91	2.29	3.05											
Length/dim	M2	M2.5	M3	M4	M5	M6	M8											
55					●	●	●											
60					●	●	●											
65						●	●											
70						●	●											
75							●											
80							●											

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DOME RIVETS ISO 15983

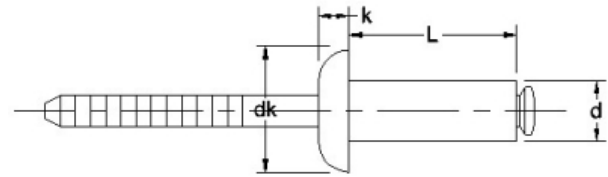


Material grades: A2: ● A4: ▲

dk (Max)	5	6.3	6.7	8.4	10.1	10.5	12	13									
k	0.55	1.3	1.3	1.7	2	2.1	2.5	2.6									
Shear	1000	1800	1900	2700	4000	4700	5700	6500									
Tensile	1500	2200	2500	3500	5000	5800	7500	8850									
Length/dim	2.4	3.0	3.2	4.0	4.8	5.0	6.0	6.4									
4	●																
6	●	●▲	●▲	●▲	●▲												
8	●	●▲	●▲	●▲	●▲	●▲	●										
10		●▲	●▲	●▲	●▲	●▲	●	●									
12		●▲	●▲	●▲	●▲	●▲	●	●▲									
14		●▲	●▲	●▲	●▲	●▲	●	●▲									
15								●									
16		●▲	●▲	●▲	●▲	●▲	●	●▲									
18			●▲	●▲	●▲	●▲	●	●▲									
20				●▲	●▲	●▲	●	●▲									
22						●		●									
24					●▲	●											
25				●▲	●▲	●▲	●	●▲									
26					●	●											
30					●▲	●▲	●	●									
35					●	●	●	●									

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DOMES RIVETS ISO 15983



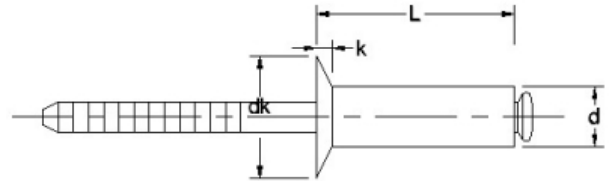
Material grades: A2: ● A4: ▲

dk (Max)	5	6.3	6.7	8.4	10.1	10.5	12	13										
k	0.55	1.3	1.3	1.7	2	2.1	2.5	2.6										
Shear	1000	1800	1900	2700	4000	4700	5700	6500										
Tensile	1500	2200	2500	3500	5000	5800	7500	8850										
Length/dim	2.4	3.0	3.2	4.0	4.8	5.0	6.0	6.4										
40					●	●▲	●	●										

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COUNTERSUNK HEAD RIVETS ISO 15984

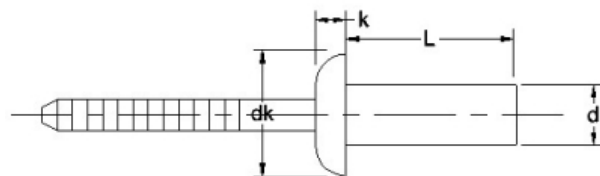


Material grades: A2: ●

dk (Max)	6.3	6.7	8.4	10.1	10.5												
k	1.3	1.3	1.7	2	2.1												
Shear	1800	1900	2700	4000	4700												
Tensile	2200	2500	3500	5000	5800												
Length/dim	3.0	3.2	4.0	4.8	5.0												
6	●	●															
8	●	●	●	●	●												
10	●	●	●	●	●												
12	●	●	●	●	●												
14			●	●	●												
16			●	●	●												
18			●	●	●												
20			●	●	●												
21				●													
25				●	●												
30				●	●												

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SEALED DOME RIVETS ISO 16585



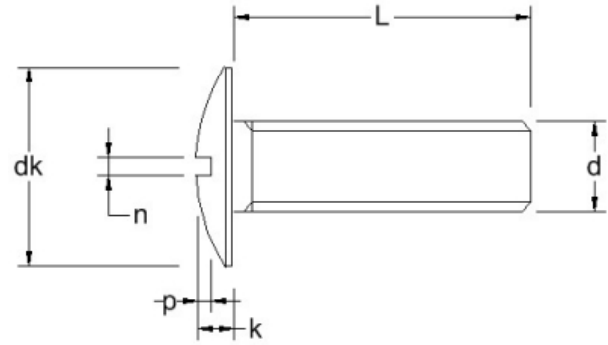
Material grades: A2: ●

dk (Max)	6.7	8.4	10.1	13.4														
k	1.3	1.7	2	2.7														
Shear	2000	3000	4000	6000														
Tensile	2200	3500	4400	8000														
Length/dim	3.2	4.0	4.8	6.4														
6	●	●																
8	●	●	●															
9.5	●	●	●															
10	●	●	●															
12	●	●	●	●														
14	●	●	●	●														
16		●	●	●														
20			●	●														

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SLOT MUSHROOM MACHINE SCREWS NF E 27-128

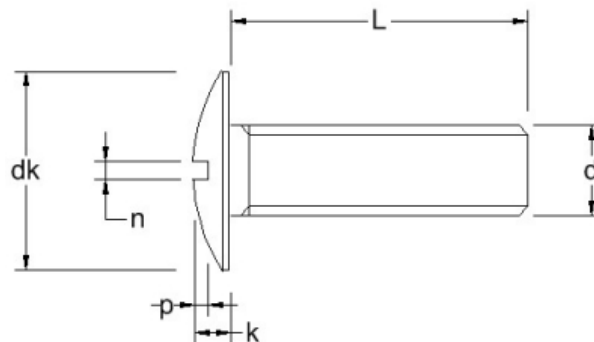


Material grades: A2: ●

dk	6.9	10	12.5	15	20														
k(Max)	2.0	2.2	2.7	3.3	4.4														
n	0.80	1.0	1.2	1.6	2.0														
Pitch	0.5	0.7	0.8	1.0	1.25														
p (Min)	0.95	1.0	1.2	1.44	1.92														
Length/dim	M3	M4	M5	M6	M8														
5	●																		
6	●																		
8	●	●	●	●															
10	●	●	●	●															
12	●	●	●	●	●														
16	●	●	●	●	●														
20	●	●	●	●	●														
25	●	●	●	●	●														
30	●	●	●	●	●														
35	●	●	●	●	●														
40	●	●	●	●	●														
45	●	●	●	●	●														
50	●	●	●	●	●														
60		●	●	●	●														
70		●	●	●	●														

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SLOT MUSHROOM MACHINE SCREWS NF E 27-128



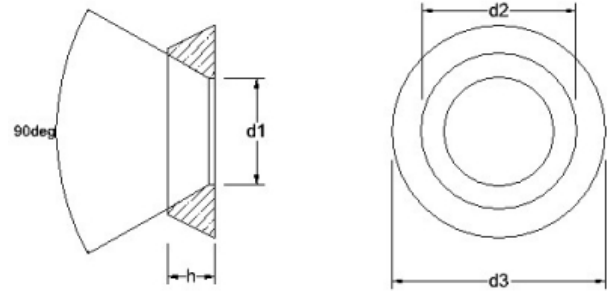
Material grades: A2: ●

dk	6.9	10	12.5	15	20														
k(Max)	2.0	2.2	2.7	3.3	4.4														
n	0.80	1.0	1.2	1.6	2.0														
Pitch	0.5	0.7	0.8	1.0	1.25														
p (Min)	0.95	1.0	1.2	1.44	1.92														
Length/dim	M3	M4	M5	M6	M8														
80			●	●	●														
90			●	●	●														
100			●	●	●														

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SOLID METAL FINISHING WASHERS (NF E 27-619)

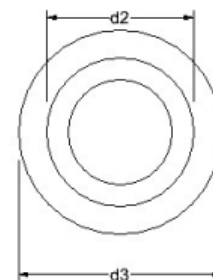
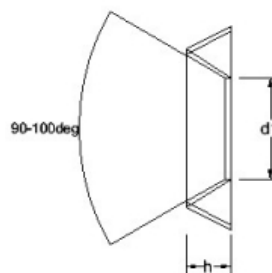


Material grades: A2: ● A4: ▲

d1	3.5	4.3	5.3	6.4	8.5	11												
d2	6.5	8	10	12	16	20												
d3	9	11	14	16	22	28												
h	2	2.5	3	3.5	4.5	5.5												
Length/dim	M3	M4	M5	M6	M8	M10	M12											
	●▲	●▲	●▲	●▲	●▲	●▲	●▲											

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STAMPED METAL FINISHING WASHERS (NF E 27-619)



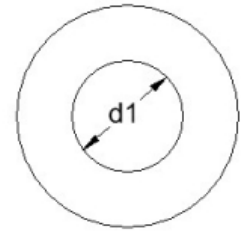
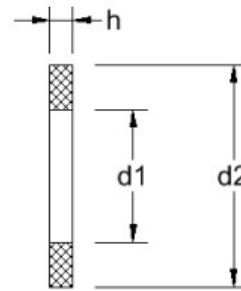
Material grades: A2: ●

d1	3.5	4.3	5.3	6.4	8.5	11												
d2	6.5	8	10	12	16	20												
d3	9	11	14	16	22	28												
h	2	2.5	3	3.5	4.5	5.5												
Length/dim	M3	M4	M5	M6	M8	M10												
	●	●	●	●	●	●												

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AFNOR FLAT WASHERS (NF E 25-514) TYPE Z

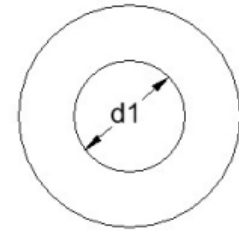
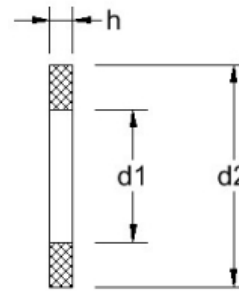


Material grades: A2: ● A4: ▲

d1 (Min)	2.2	2.7	3.2	4.3	5.3	6.4	8.4	10.5	13	17	21						
d2 (Max)	4	5	6	8	10	12	16	20	24	30	36						
h	0.5	0.5	0.8	0.8	1	1.2	1.5	2	2.5	3	3						
Length/dim	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M16	M20						
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						

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AFNOR FLAT WASHERS (NF E 25-514) TYPE M

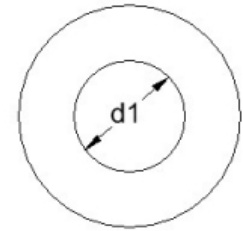
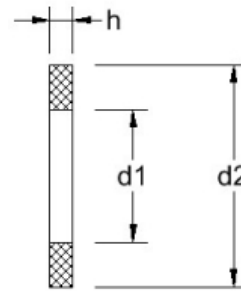


Material grades: A2: ● A4: ▲

d1 (Min)	2.2	2.7	3.2	4.3	5.3	6.4	8.4	10.5	13	15	17	19	21	23	25	28	31
d2 (Max)	5.5	7	8	10	12	14	18	22	27	30	32	36	40	45	50	55	60
h	0.5	0.5	0.8	0.8	1.0	1.2	1.5	2.0	2.5	2.5	3	3	3	3	4	4	4
Length/dim	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲

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AFNOR FLAT WASHERS (NF E 25-514) TYPE L



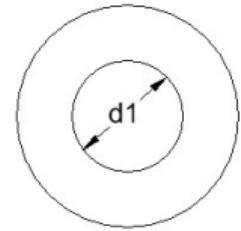
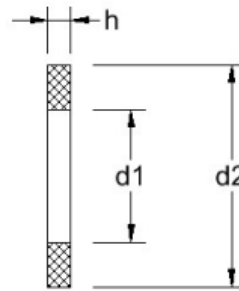
Material grades: A2: ● A4: ▲

d1 (Min)	3.2	4.3	5.3	6.4	8.4	10.5	13	15	17	19	21							
d2 (Max)	12	14	16	18	22	27	32	36	40	45	50							
h	0.8	0.8	1.0	1.2	1.5	2.0	2.5	2.5	3.0	3.0	3.0							
Length/dim	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20							
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							

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AFNOR FLAT WASHERS (NF E 25-514) TYPE LL

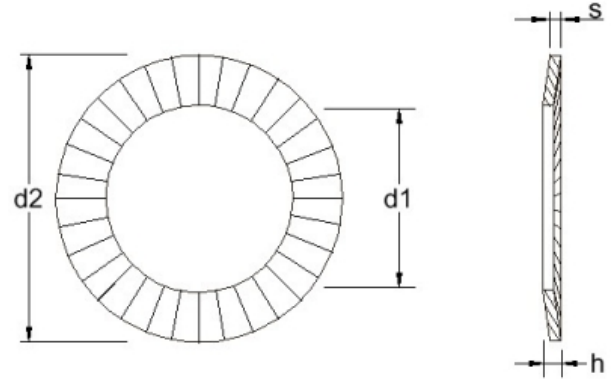


Material grades: A2: ● A4: ▲

d1 (Min)	3.2	4.3	5.3	6.4	8.4	10.5	13	17										
d2 (Max)	14	16	20	24	30	36	40	50										
h	0.5	0.8	1	1.2	1.5	2.0	2.5	3										
Length/dim	M3	M4	M5	M6	M8	M10	M12	M16										
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										

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AFNOR SERRATED CONICAL SPRING WASHERS TYPE M (NF E 25-511)



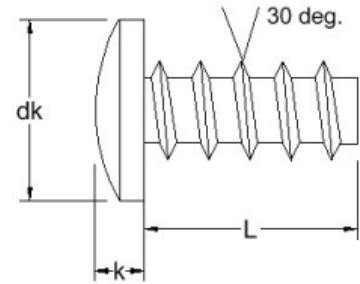
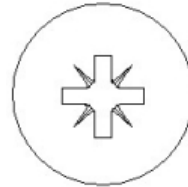
Material grades: A2: ● A4: ▲

d1 (Max)	3.35	4.4	5.4	6.4	8.58	10.56	12.83	14.83	16.83	21.02									
d2	8	10	12	14	18	22	27	30	32	40									
h (Max)	1.0	1.4	1.8	2.1	2.35	2.75	3.1	3.7	4.1	4.9									
s	0.6	0.9	1.1	1.3	1.4	1.6	1.8	2.4	2.8	3.2									
Length/dim	M3	M4	M5	M6	M8	M10	M12	M14	M16	M20									
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									

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POZI PAN POLYTECH 30

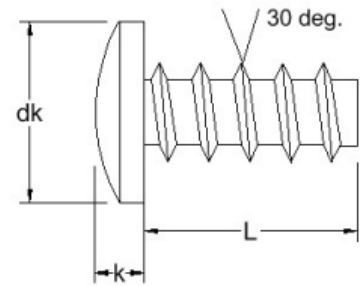
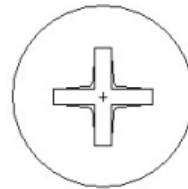


Material grades: A2: ●

Drive	#1	#1	#2	#2													
dk (Max)	3.9	5.3	6.1	7.0													
k (Max)	1.5	2.0	2.5	2.7													
Length/dim	2.5	3.0	3.5	4.0													
6	●	●															
8	●	●	●	●													
10		●	●	●													
12		●	●	●													
14		●	●	●													
16		●	●	●													
18		●	●	●													
20		●	●	●													
25			●	●													

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PHILLIPS PAN HEAD POLYTECH 30



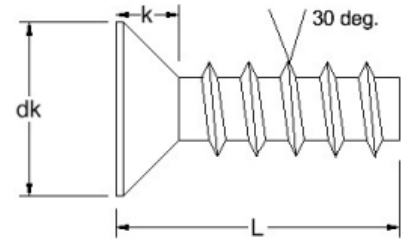
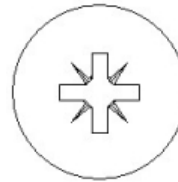
Material grades: A2: ●

Drive	#1	#2	#2															
dk (Max)	5.3	6.0	7.14															
k (Max)	2.2	2.55	2.7															
Length/dim	3.0	3.5	4.0															
8	●	●	●															
10	●	●	●															
12	●	●	●															
14	●	●	●															
16	●	●	●															
20	●	●	●															
25	●	●	●															

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POZI COUNTERSUNK POLYTECH 30

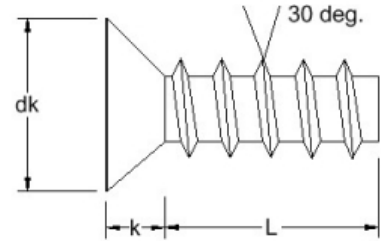
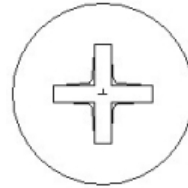


Material grades: A2: ●

Drive	#1	#2	#2														
dk (Max)	5.5	7.3	8.4														
k (Max)	2.05	2.8	3.25														
Length/dim	3.0	3.5	4.0														
8	●	●															
10	●	●	●														
12	●	●	●														
14		●	●														
16		●	●														

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PHILLIPS COUNTERSUNK HEAD POLYTECH 30



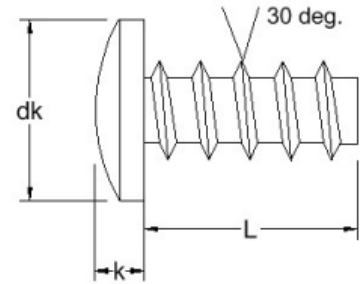
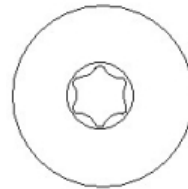
Material grades: A2: ●

Drive	#1	#2	#2															
dk (Max)	5.2	6.7	7.7															
k (Max)	2.2	2.55	2.7															
Length/dim	3.0	3.5	4.0															
8	●	●	●															
10	●	●	●															
12	●	●	●															
14	●	●	●															
16	●	●	●															

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TX PAN POLYTECH 30

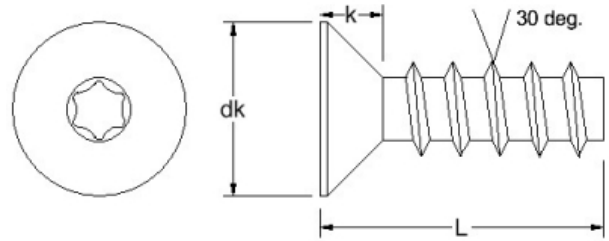


Material grades: A2: ●

Drive	TX7	TX10	TX10	TX20	TX20												
dk (Max)	4.2	5.6	6.9	7.5	8.2												
k (Max)	1.6	2.1	2.3	2.6	2.9												
Length/dim	2.5	3.0	3.5	4.0	5.0												
6	●	●															
8	●	●	●	●													
10		●	●	●	●												
12		●	●	●	●												
14		●	●	●													
16		●	●	●	●												
18		●	●	●													
20		●	●	●	●												
25				●	●												
30					●												

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TX COUNTERSUNK POLYTECH 30



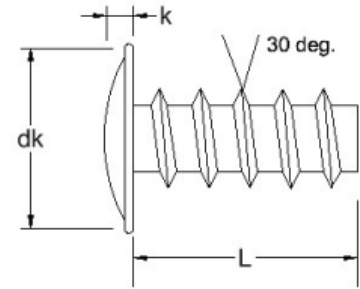
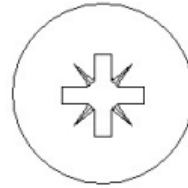
Material grades: A2: ●

Drive	TX10	TX10	TX20	TX20													
dk (Max)	5.5	7.3	8.4	9.3													
k (Max)	2.05	2.80	3.25	3.40													
Length/dim	3.0	3.5	4.0	5.0													
6	●																
8	●	●															
10	●	●	●	●													
12	●	●	●	●													
16	●	●	●	●													
20			●	●													
25				●													

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POZI FLANGED POLYTECH 30



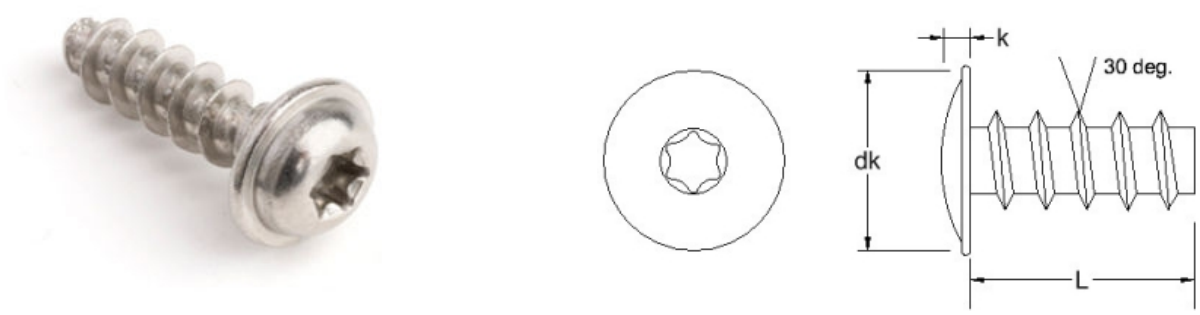
Material grades: A2: ●

Drive	#1	#2	#2															
dk (Max)	6.0	7.0	8.0															
k (Max)	2.1	2.4	2.5															
Length/dim	3.0	3.5	4.0															
8	●																	
10	●	●	●															
12	●	●	●															
14	●	●	●															
16		●	●															

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#)



TX FLANGED POLYTECH 30



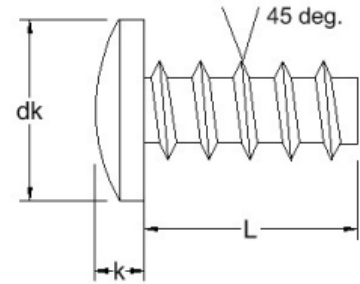
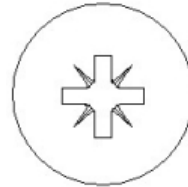
Material grades: A2: ●

Drive	T10	T10	T20	T20													
dk (Max)	6.0	7.0	8.0	10													
k (Max)	2.1	2.4	2.5	3.2													
Length/dim	3.0	3.5	4.0	5.0													
8	●																
10	●	●	●														
12	●	●	●	●													
14	●	●	●	●													
16		●	●	●													

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POZI PAN POLYFIX 45

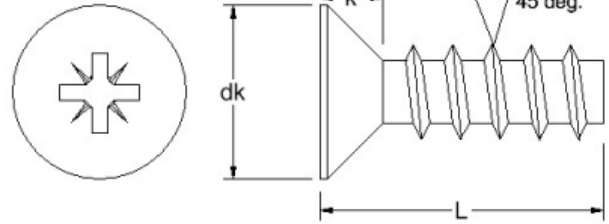


Material grades: A2: ●

Drive	#1	#1	#1	#2													
dk (Max)	4.0	5.0	6.0	7.0													
k (Max)	1.6	1.95	2.3	2.45													
Length/dim	2.5	3.0	3.5	4.0													
6	●	●	●														
8	●	●	●	●													
10	●	●	●	●													
12	●	●	●	●													
16		●	●	●													
20		●	●	●													
25			●	●													

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POZI COUNTERSUNK POLYFIX 45



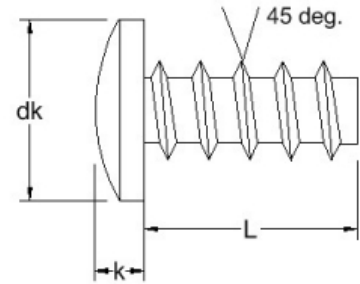
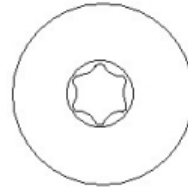
Material grades: A2: ●

Drive	#1	#1	#2															
dk (Max)	5.5	6.3	7.35															
k (Max)	1.60	1.65	1.90															
Length/dim	3.0	3.5	4.0															
6		●																
8	●	●	●															
10	●	●	●															
12	●	●	●															
16	●	●	●															
20	●	●	●															

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TX PAN POLYFIX 45

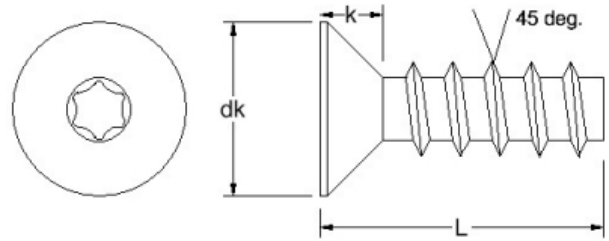


Material grades: A2: ●

Drive	TX8	TX10	TX15															
dk (Max)	5.0	6.0	7.0															
k (Max)	1.95	2.3	2.45															
Length/dim	3.0	3.5	4.0															
6	●	●	●															
8	●	●	●															
10	●	●	●															
12	●	●	●															
16	●	●	●															
20	●	●	●															

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TX COUNTERSUNK POLYFIX 45



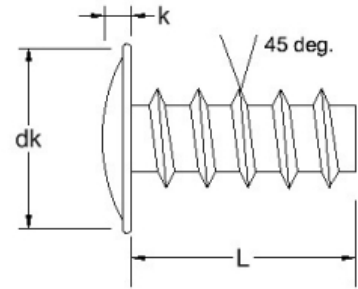
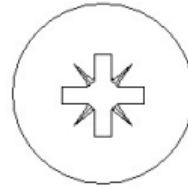
Material grades: A2: ●

Drive	TX8	TX10	TX15																
dk (Max)	5.5	6.3	7.35																
k (Max)	1.60	1.65	1.90																
Length/dim	3.0	3.5	4.0																
6	●	●																	
8	●	●	●																
10	●	●	●																
12	●	●	●																
16	●	●	●																
20	●	●	●																

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POZI FLANGED POLYFIX 45

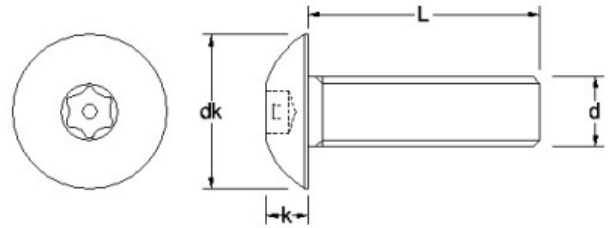


Material grades: A2: ●

Drive	#1	#2	#2															
dk (Max)	6.0	8.0	9.6															
k (Max)	1.60	2.00	2.30															
Length/dim	3.5	4.0	5.0															
6	●																	
8	●	●																
10	●	●																
12	●	●																
16	●	●	●															
20	●	●	●															
25	●	●	●															

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PIN TX BUTTON SCREWS



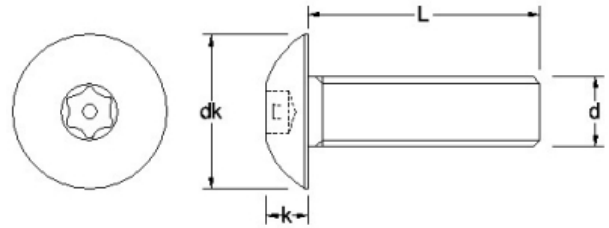
Material grades: A2: ●

dk	5.5	7.4	9.3	10.4	13.7	17												
k	1.6	2.1	2.7	3.2	4.3	5.8												
Pitch	0.5	0.7	0.8	1.0	1.25	1.5												
Length/dim	M3	M4	M5	M6	M8	M10												
6	●	●																
8	●	●	●	●														
10	●	●	●	●	●													
12	●	●	●	●	●													
16	●	●	●	●	●	●												
20	●	●	●	●	●	●												
25	●	●	●	●	●	●												
30	●	●	●	●	●	●												
35		●	●		●	●												
40		●	●	●	●	●												
45		●	●															
50		●	●	●	●	●												
60		●	●	●	●	●												
65						●												
70					●	●												
75					●													
80				●	●	●												

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PIN TX BUTTON SCREWS

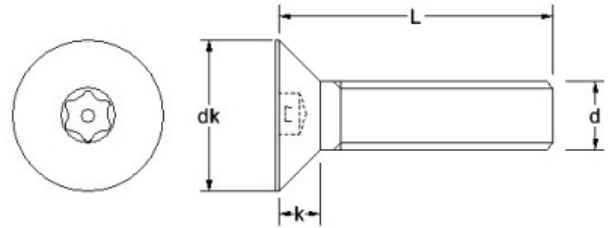
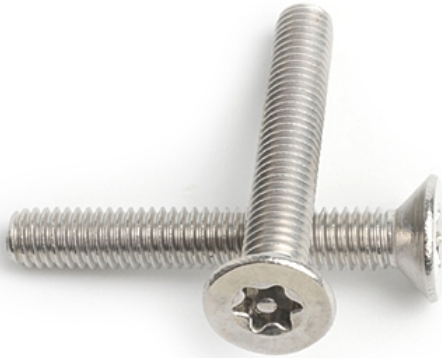


Material grades: A2: ●

dk	5.5	7.4	9.3	10.4	13.7	17												
k	1.6	2.1	2.7	3.2	4.3	5.8												
Pitch	0.5	0.7	0.8	1.0	1.25	1.5												
Length/dim	M3	M4	M5	M6	M8	M10												
100					●													

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PIN TX COUNTERSUNK SCREWS

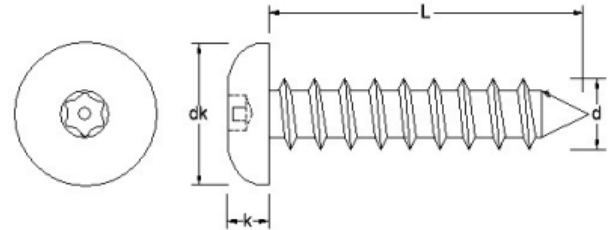


Material grades: A2: ●

dk	5.6	7.8	9.8	11.6	15.2	17.4										
k	2	2.3	2.8	3.3	5	5.1										
Pitch	0.5	0.7	0.8	1.0	1.25	1.5										
Length/dim	M3	M4	M5	M6	M8	M10										
6	●	●														
8	●	●	●	●												
10	●	●	●	●												
12	●	●	●	●												
16	●	●	●	●	●											
20	●	●	●	●	●											
25	●	●	●	●	●	●										
30		●	●	●	●											
35						●										
40		●	●	●	●	●										
50		●	●	●	●	●										
55					●											
60			●	●	●	●										
70		●		●												
80			●	●	●	●										

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PIN TX BUTTON SELF TAPPING SCREWS



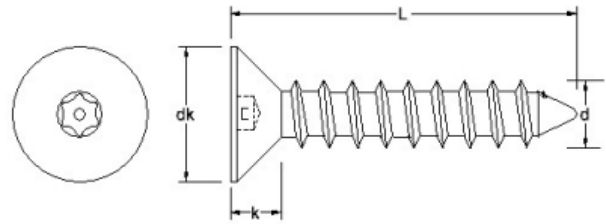
Material grades: A2: ●

dk	6.7	7.4	9.3	10.2	11													
k	2.6	2.2	2.6	3.1	3.4													
Length/dim	NO.6	NO.8	NO.10	NO.12	NO.14													
3/8	●	●																
1/2	●	●	●															
5/8	●	●	●															
3/4	●	●	●		●													
1	●	●	●	●	●													
1.1/4		●	●	●	●													
1.1/2	●	●	●	●	●													
2		●	●	●	●													
2.1/2				●														
3				●														

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PIN TX COUNTERSUNK SELF TAPPING SCREWS

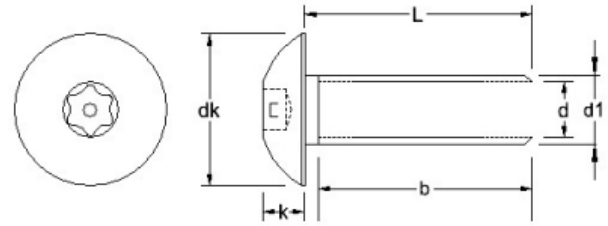


Material grades: A2: ●

dk	4.9	6.6	7.9	9.3	10.6	12.4											
k	1.5	2.1	2.5	3	3.4	3.8											
Length/dim	NO.4	NO.6	NO.8	NO.10	NO.12	NO.14											
1/2	●	●	●	●													
5/8		●	●	●													
3/4	●	●	●	●		●											
1		●	●	●	●	●											
1.1/4		●	●	●	●	●											
1.1/2		●	●	●	●	●											
2			●	●	●	●											
2.1/2			●	●	●												
3				●	●												
4				●													

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PIN TX BARREL NUTS



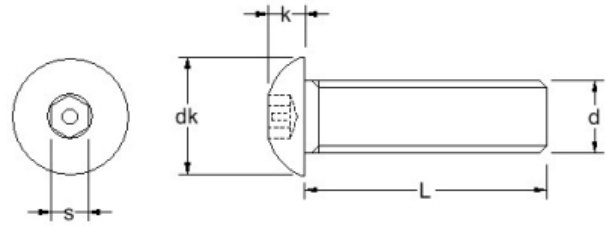
Material grades: A2: ●

b	6	6	9	20	12	25	14												
d1	5.2	6.3	8	8	10	10	12.5												
dk	9	10	12	12	14.3	14.3	18												
k	2.8	3.3	4.4	4.4	5	5	5.8												
L	9	10	12	25	16	30	20												
Pitch	0.7	0.8	1.0	1.0	1.25	1.25	1.5												
Length/dim	M4	M5	M6	M6	M8	M8	M10												
10	●	●																	
12			●																
16					●														
20							●												
25				●															
30							●												

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PIN HEX BUTTON SCREWS

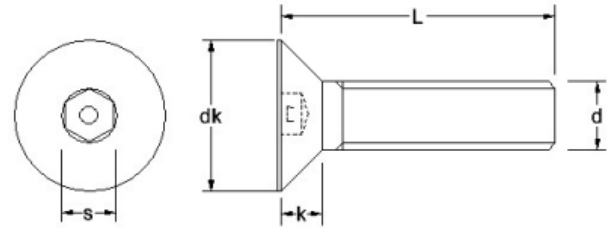


Material grades: A2: ●

dk	5.5	7.4	9.3	10.3	13.7	17.1	20.4												
k	1.5	2.2	2.7	3.2	4.4	5.6	6.5												
Pitch	0.5	0.7	0.8	1.0	1.25	1.5	1.75												
Length/dim	M3	M4	M5	M6	M8	M10	M12												
8		●																	
10	●	●	●	●															
12	●	●	●	●	●														
16	●	●	●	●	●	●													
20	●	●	●	●	●	●	●												
25		●	●	●	●	●	●												
30		●	●	●	●	●	●												
35						●													
40		●	●	●	●	●	●												
50			●	●	●	●	●												
60			●	●	●	●	●												
100							●												

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PIN HEX COUNTERSUNK SCREWS

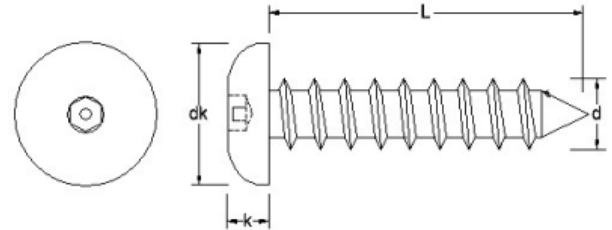


Material grades: A2: ●

dk	5.7	7.7	9.8	11.8	15.1	19.3	23.2											
k	1.7	2.3	2.8	3.3	5	6.7	7.4											
Pitch	0.5	0.7	0.8	1.0	1.25	1.5	1.75											
Length/dim	M3	M4	M5	M6	M8	M10	M12											
8		●	●	●														
10	●	●	●	●														
12	●	●	●	●	●													
16	●	●	●	●	●													
20	●	●	●	●	●	●	●											
25		●	●	●	●	●	●											
30		●	●	●	●	●	●											
35					●													
40		●	●	●	●	●	●											
50			●	●	●	●	●											
60			●	●	●	●												

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PIN HEX BUTTON SELF TAPPING SCREWS



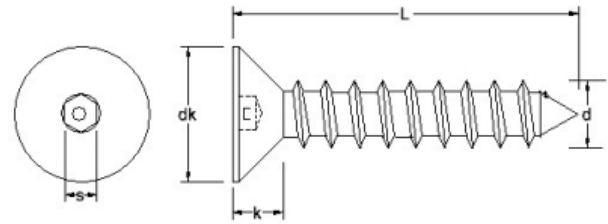
Material grades: A2: ●

dk	6.7	7.4	9.3	10.3	11													
k	2.5	2.1	2.6	3.2	3.4													
Length/dim	NO.6	NO.8	NO.10	NO.12	NO.14													
3/8	●																	
1/2	●	●	●															
5/8	●	●	●															
3/4	●	●	●	●	●													
1	●	●	●	●	●													
1.1/4		●	●	●	●													
1.1/2	●	●	●	●	●													
2		●	●	●	●													
2.1/2			●															

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PIN HEX COUNTERSUNK SELF TAPPING SCREWS

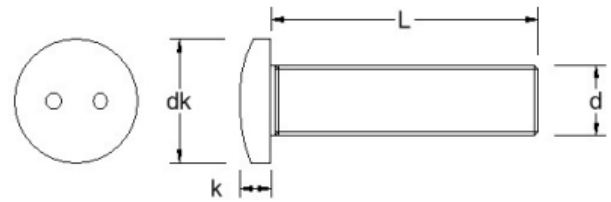


Material grades: A2: ●

dk	6.6	7.9	9.3	10.4	12.4													
k	2.1	2.5	3	3.4	3.8													
Length/dim	NO.6	NO.8	NO.10	NO.12	NO.14													
3/8	●																	
1/2	●	●	●															
5/8	●	●	●															
3/4	●	●	●	●	●													
1	●	●	●	●	●													
1.1/4		●	●	●	●													
1.1/2	●	●	●	●	●													
2		●	●	●	●													
2.1/2			●															

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2HOLE PAN SCREWS



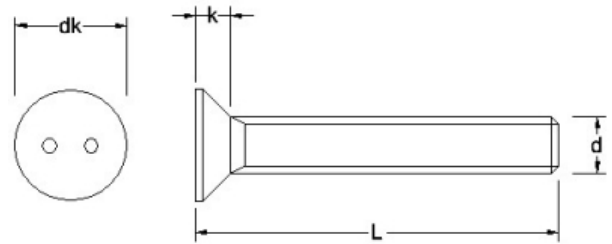
Material grades: A2: ●

dk	5.8	7.8	9.8	11.8														
k	1.7	2.4	2.9	3.5														
Pitch	0.5	0.7	0.8	1.0														
Length/dim	M3	M4	M5	M6														
6		●																
8			●															
10	●	●																
12	●	●	●	●														
16	●	●	●	●														
20		●	●	●														
25		●	●	●														
30			●	●														
35				●														
40				●														
45				●														
50				●														

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2HOLE COUNTERSUNK SCREWS



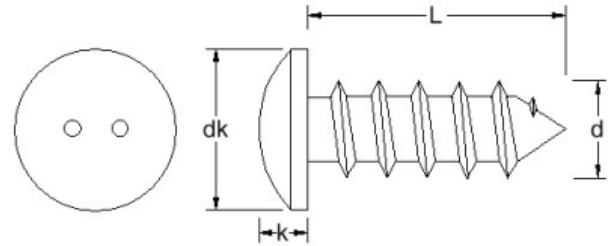
Material grades: A2: ●

dk	5.5	7.3	9.0	10.7															
k	1.7	2.2	2.5	3.0															
Pitch	0.5	0.7	0.8	1.0															
Length/dim	M3	M4	M5	M6															
8	●																		
10	●	●																	
12	●	●	●	●															
16	●	●	●	●															
20	●	●	●	●															
25	●	●	●	●															
30	●	●	●	●															
35	●	●	●																
40				●															

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2HOLE PAN SELF TAPPING SCREWS

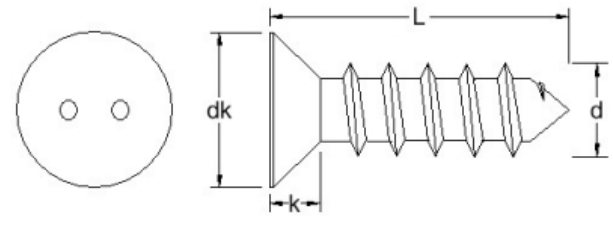


Material grades: A2: ●

dk	5.4	6.7	8.0	9.2	10.5	12.2													
k	1.6	2.0	2.3	2.7	3.1	3.5													
Length/dim	NO.4	NO.6	NO.8	NO.10	NO.12	NO.14													
3/8	●	●	●	●															
1/2	●	●	●	●	●														
5/8		●	●	●		●													
3/4	●	●	●	●		●													
1	●	●	●	●	●	●													
1.1/4		●	●	●	●	●													
1.1/2	●	●	●	●	●	●													
2		●	●	●	●	●													
2.1/2				●															

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2HOLE COUNTERSUNK SELF TAPPING SCREWS



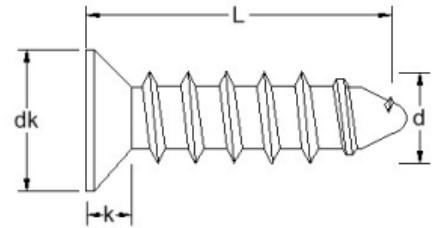
Material grades: A2: ●

dk	5.5	6.6	7.8	8.9	10.1	12.3											
k	1.7	2.1	2.5	3	3.4	3.9											
Length/dim	NO.4	NO.6	NO.8	NO.10	NO.12	NO.14											
3/8	●	●	●														
1/2	●	●	●	●													
5/8		●	●	●		●											
3/4	●	●	●	●		●											
1	●	●	●	●	●	●											
1.1/4	●	●	●	●	●	●											
1.1/2	●	●	●	●	●	●											
2		●	●	●	●	●											
2.1/2				●													

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POZI COUNTERSUNK CHIPBOARD SCREWS FULL THREAD

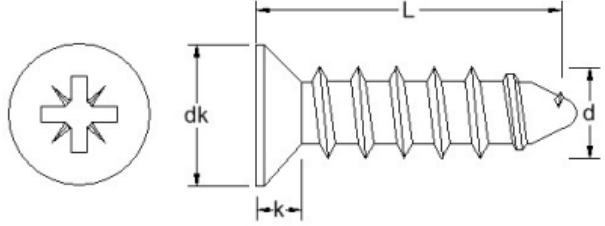
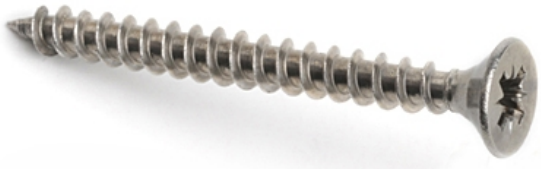


Material grades: A2: ● A4: ▲

dk (Max)	6	7	8	9	10	12											
k	1.5	1.75	2	2.25	2.5	3											
Length/dim	3.0	3.5	4.0	4.5	5.0	6.0											
12/12	●▲	●▲	●▲														
13/13		●	●▲														
14/14	●▲	▲	▲														
16/16	●▲	●▲	●▲	●▲													
20/20	●▲	●▲	●▲	●▲	●▲	●▲											
25/25	●▲	●▲	●▲	●▲	●▲	●▲											
30/30	●▲	●▲	●▲	●▲	●▲	●▲											
35/35	●▲	●▲	●▲	●▲	●▲	●▲											
40/40	●▲	●▲	●▲	●▲	●▲	●▲											
45/45	▲	●▲	●▲	●▲	●▲	●▲											
50/50	●▲	●▲	●▲	●▲	●▲	●▲											
55/55			●▲	●▲	●▲	●▲											
60/60			●▲	●▲	●▲	●▲											
65/65			●▲	●▲	●▲	●▲											
70/70			●▲	●▲	●▲	●▲											
75/75			▲														
80/80			●	●▲	●▲	●▲											
90/90					●▲	●▲											

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POZI COUNTERSUNK CHIPBOARD SCREWS FULL THREAD



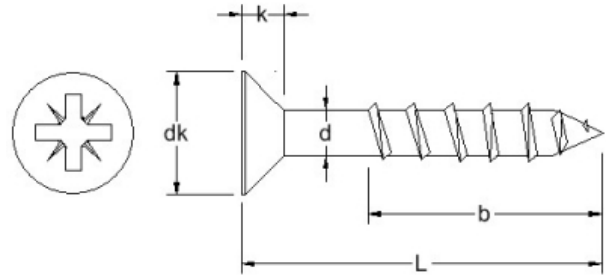
Material grades: A2: ● A4: ▲

dk (Max)	6	7	8	9	10	12										
k	1.5	1.75	2	2.25	2.5	3										
Length/dim	3.0	3.5	4.0	4.5	5.0	6.0										
100/100					●▲	●▲										
110/110					●	●										
120/120					●	●▲										
130/130						●										
140/140						●▲										

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POZI COUNTERSUNK CHIPBOARD SCREWS

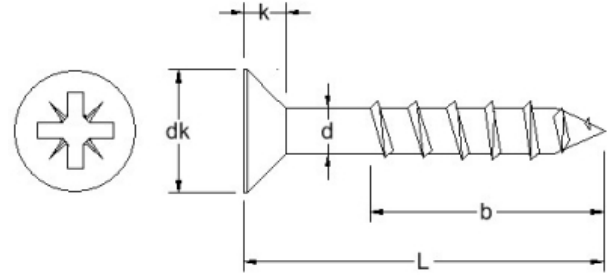


Material grades: A2: ● A4: ▲

b (approx)	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L											
dk (Max)	6	7	8	9	10	12											
k	1.5	1.75	2	2.25	2.5	3											
Length/dim	3.0	3.5	4.0	4.5	5.0	6.0											
25	▲	●▲	●▲	▲	▲												
30	●▲	●▲	●	●▲	●▲												
35	●▲	●▲	●▲	●▲	●▲												
40	●▲	●▲	●▲	●▲	●▲	●▲											
45	▲		●▲	●▲	●▲												
50	●▲	●▲	●▲	●▲	●▲	●▲											
55			●	●▲	●▲												
60			●▲	●▲	●▲	●▲											
65					●▲												
70			●▲	●▲	●▲	●▲											
80			●	●▲	●▲	●▲											
90					●▲	●▲											
100				●▲	●▲	●▲											
110					●▲	●▲											
120					●▲	●▲											
140						●▲											
150						●▲											

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POZI COUNTERSUNK CHIPBOARD SCREWS



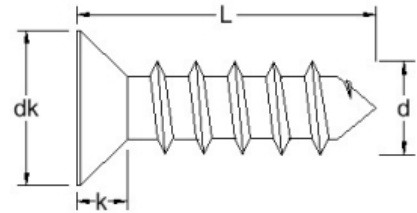
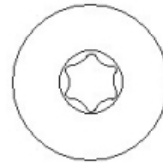
Material grades: A2: ● A4: ▲

b (approx)	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L										
dk (Max)	6	7	8	9	10	12										
k	1.5	1.75	2	2.25	2.5	3										
Length/dim	3.0	3.5	4.0	4.5	5.0	6.0										
160							●▲									
180							●▲									
200							●▲									

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TX COUNTERSUNK CHIPBOARD SCREWS FULL THREAD

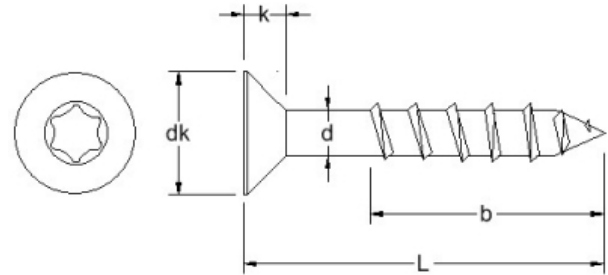


Material grades: A2: ● A4: ▲

dk (Max)	6	7	8	9	10	12											
k	1.5	1.75	2	2.25	2.5	3											
Length/dim	3.0	3.5	4.0	4.5	5.0	6.0											
10/10	●▲																
12/12	●	●															
13/13	●▲	●▲	●▲														
16/16	●▲	●▲	●▲														
20/20	●▲	●▲	●▲	●▲	●▲												
25/25	●▲	●▲	●▲	●▲	●▲												
30/30	●▲	●▲	●▲	●▲	●▲	●▲											
35/35	●▲	●▲	●▲	●▲	●▲	●▲											
40/40		●▲	●▲	●▲	●▲	●▲											
45/45			●▲	●▲	●▲	●▲											
50/50			●▲	●▲	●▲	●▲											
55/55			●▲	●▲	●▲	●▲											
60/60			●▲	●▲	●▲	●▲											
70/70			●▲	●▲	●▲	●▲											
80/80			●▲	●▲	●▲	●▲											
90/90					●▲	●▲											
100/100					●▲	●▲											

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TX COUNTERSUNK CHIPBOARD SCREWS



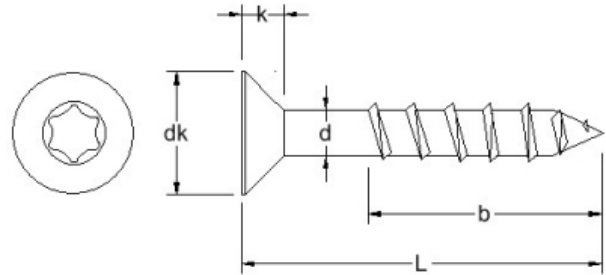
Material grades: A2: ● A4: ▲

b (approx)	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	55-105									
dk (Max)	6	7	8	9	10	12	14	*									
k	1.5	1.75	2	2.25	2.5	3	4	*									
Length/dim	3.0	3.5	4.0	4.5	5.0	6.0	8.0	10									
25	●▲	●▲	●▲	●	●												
30	●▲	●▲	●▲	●▲	●▲												
35	●	●▲	●▲	●▲	●▲												
40	●▲	●▲	●▲	●▲	●▲	●▲											
45		▲	●▲	●▲	●▲	●▲											
50		●▲	●▲	●▲	●▲	●▲											
60			●▲	●▲	●▲	●▲	●▲	●▲									
70			●▲	●▲	●▲	●▲	●▲										
80				●▲	●▲	●▲	●▲	●▲									
90					●▲	●▲	●▲										
100					●▲	●▲	●▲	●▲									
110						●											
120					●▲	●▲	●▲	●▲									
130						●											
140						●▲	●▲	●▲									
150						●											
160						●▲	●▲	●▲									

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TX COUNTERSUNK CHIPBOARD SCREWS

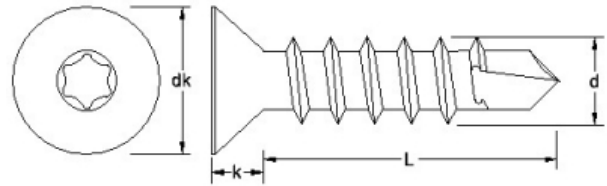


Material grades: A2: ● A4: ▲

b (approx)	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	55-105									
dk (Max)	6	7	8	9	10	12	14	*									
k	1.5	1.75	2	2.25	2.5	3	4	*									
Length/dim	3.0	3.5	4.0	4.5	5.0	6.0	8.0	10									
180						●▲	●▲	●▲									
200						●▲	●▲	●▲									
220						●	●▲	●▲									
240						●	●▲	●▲									
260						●	●▲	●▲									
280						●	●▲	●▲									
300						●	●▲	●▲									
320								●									
325							●										
340								●									
350							●										
360								●									
375							●	●									

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TX COUNTERSUNK SELF DRILL CHIPBOARD SCREWS



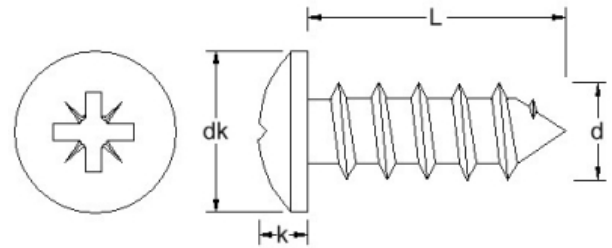
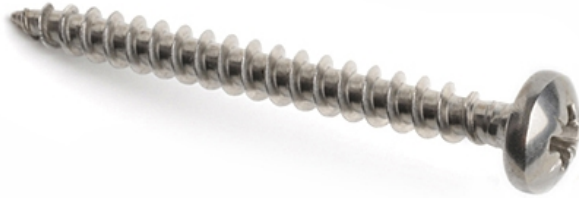
Material grades: A2: ●

b (approx)	0.6 x L	0.6 x L	0.6 x L	0.6 x L														
dk (Max)	8	9	10	12														
k	2	2.25	2.5	3														
Length/dim	4.0	4.5	5.0	6.0														
30	●	●																
35	●	●																
40	●	●	●	●														
45	●	●	●	●														
50	●	●	●	●														
55	●	●	●	●														
60	●	●	●	●														
65	●	●	●	●														
70	●	●	●	●														
80	●	●	●	●														
90			●	●														
100			●	●														
120				●														
140				●														
160				●														

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POZI PAN CHIPBOARD SCREWS FULL THREAD

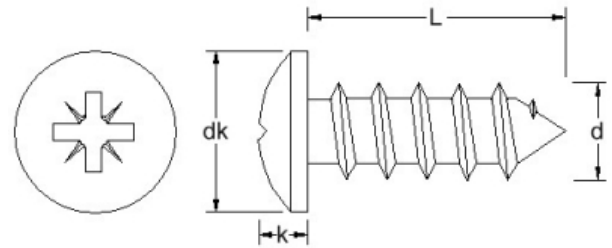


Material grades: A2: ● A4: ▲

b (approx)*	0.6 x L																	
dk (Max)	6	7	8	9	10	12												
k	1.6	1.8	2.1	2.9	3.3	3.8												
Length/dim	3.0	3.5	4.0	4.5	5.0	6.0												
10/10	●▲																	
12/12	●▲	●▲	●▲															
13/13			●															
16/16	●▲	●▲	●▲	●														
20/20	●▲	●▲	●▲	●▲	●▲	●▲												
25/25	●▲	●▲	●▲	●▲	●▲	●▲												
30/30	●▲	●▲	●▲	●▲	●▲	●▲												
35/35	●	●▲	●▲	●▲	●▲	●▲												
40/40		●▲	●▲	●▲	●▲	●▲												
45/45		●▲	●▲	●	●	●▲												
50/50		●	●▲	●▲	●▲	●▲												
55/55			●	●	●▲	●												
60/60			●▲	●▲	●▲	●▲												
65/65			●	●	●▲	●												
70/70			●	●	●▲	●▲												
75/75			●	●	●▲	●▲												

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POZI PAN CHIPBOARD SCREWS FULL THREAD



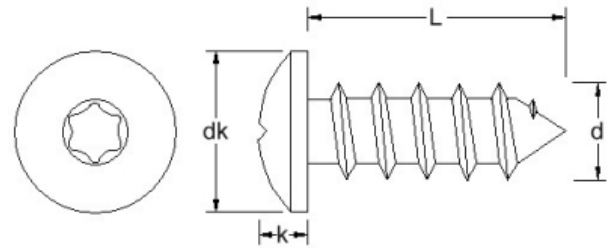
Material grades: A2: ● A4: ▲

b (approx)*	0.6 x L																
dk (Max)	6	7	8	9	10	12											
k	1.6	1.8	2.1	2.9	3.3	3.8											
Length/dim	3.0	3.5	4.0	4.5	5.0	6.0											
80/80					●	●▲											
90/90					●	●▲											
100/100					●	●▲											
110/110						●▲											
120/120						●▲											

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TX PAN CHIPBOARD SCREWS FULL THREAD

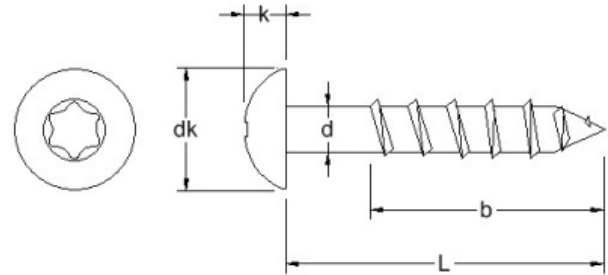


Material grades: A2: ●

dk (Max)	6	7	8	9	10	12												
k	1.6	1.8	2.1	2.9	3.3	3.8												
Length/dim	3.0	3.5	4.0	4.5	5.0	6.0												
10/10	●																	
12/12	●	●	●															
16/16	●	●	●	●														
20/20	●		●	●	●	●												
25/25	●	●	●	●	●	●												
30/30	●	●	●	●	●	●												
35/35	●	●	●	●	●	●												
40/40		●	●	●	●	●												
45/45		●	●	●	●	●												
50/50		●	●	●	●	●												
55/55					●													
60/60			●	●	●	●												
70/70			●	●	●	●												
80/80					●	●												
90/90					●	●												
100/100					●	●												
110/110						●												
120/120						●												

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TX PAN CHIPBOARD SCREWS



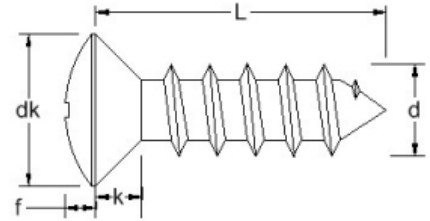
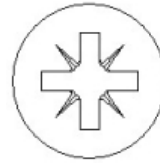
Material grades: A2: ●

b (approx)*	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L													
dk (Max)	7	8	9	10	12													
k	1.8	2.1	2.9	3.3	3.8													
Length/dim	3.5	4.0	4.5	5.0	6.0													
25	●																	
30	●	●	●	●														
35	●	●		●														
40	●	●	●	●	●													
45	●	●	●	●	●													
50	●	●	●	●	●													
60		●	●	●	●													
70		●	●	●	●													
80				●	●													
90				●	●													
100				●	●													
120					●													

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POZI RAISED COUNTERSUNK CHIPBOARD SCREWS FULL THREAD

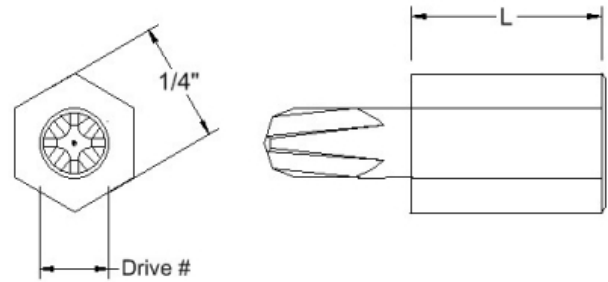


Material grades: A2: ●

b (approx)*	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L	0.6 x L											
dk (Max)	5.6	6.5	7.5	8.3	9.2	11											
k	1.65	1.93	2.2	2.35	2.5	3											
Length/dim	3.0	3.5	4.0	4.5	5.0	6.0											
12/12	●																
16/16	●	●	●	●													
20/20	●	●	●	●													
25/25	●	●	●		●	●											
30/30	●	●	●	●	●	●											
35/35	●	●	●	●	●	●											
40/40		●	●	●	●	●											
45/45		●	●	●	●	●											
50/50		●	●	●	●	●											
60/60			●	●	●	●											
65/65				●													
70/70			●	●	●	●											
80/80					●	●											
90/90					●	●											
100/100					●	●											
110/110						●											
120/120						●											

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POZI

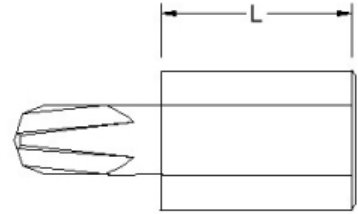
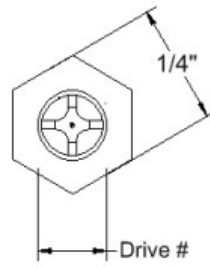


A/F	1/4	1/4	1/4	1/4	1/4															
L	25	25	25	25	25															
Length/dim	NO.0	NO.1	NO.2	NO.3	NO.4															
	●	●	●	●	●															

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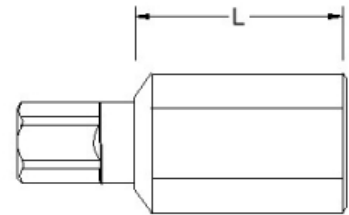
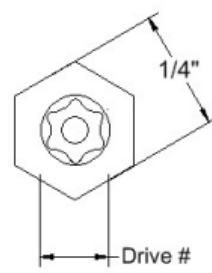
PHILLIPS



A/F	1/4	1/4	1/4	1/4	1/4														
L	25	25	25	25	25														
Length/dim	NO.0	NO.1	NO.2	NO.3	NO.4														
	●	●	●	●	●														

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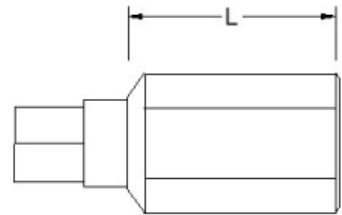
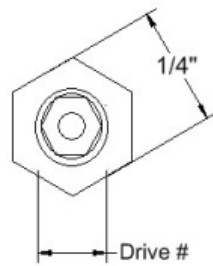
PIN TX



A/F	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4										
L	25	25	25	25	25	25	25	25										
Length/dim	TX10	TX15	TX20	TX25	TX27	TX30	TX40	TX45										
	●	●	●	●	●	●	●	●										

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PIN HEX

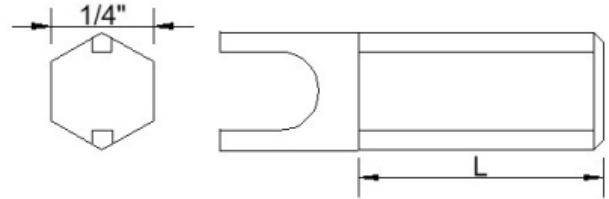


A/F	1/4	1/4	1/4	1/4	1/4	1/4													
L	25	25	25	25	25	25													
Length/dim	HEX20	HEX30	HEX40	HEX50	HEX60	HEX80													
	●	●	●	●	●	●													

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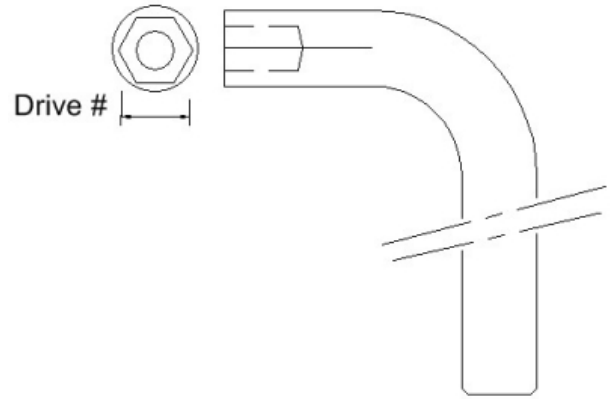
2HOLE



A/F	1/4	1/4	1/4	1/4	1/4	1/4												
L	25	25	25	25	25	25												
Length/dim	TH3	TH4	TH5	TH6	TH7	TH8												
	●	●	●	●	●	●												

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PIN HEX KEY WRENCH

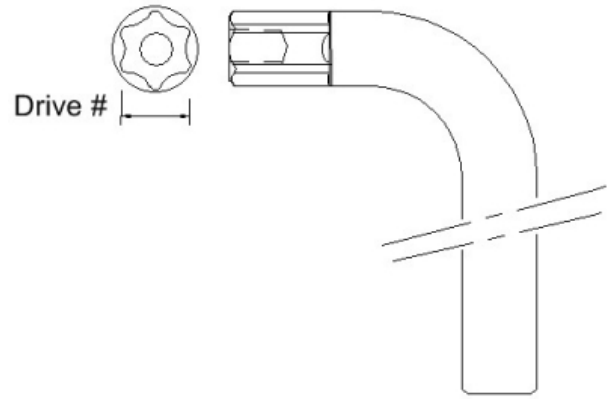


A/F	1/4	1/4	1/4	1/4	1/4	1/4										
Length/dim	HEX20	HEX30	HEX40	HEX50	HEX60	HEX80										
	●	●	●	●	●	●										

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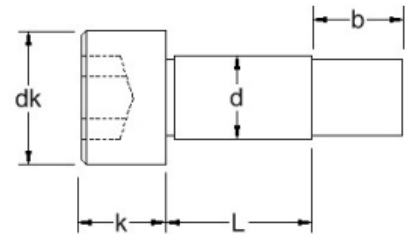
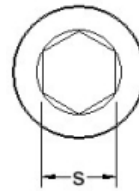
PIN TX KEY WRENCH



A/F	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4								
Length/dim	TX10	TX15	TX20	TX25	TX27	TX30	TX40	TX45								
	●	●	●	●	●	●	●	●								

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SOCKET SHOULDER SCREWS



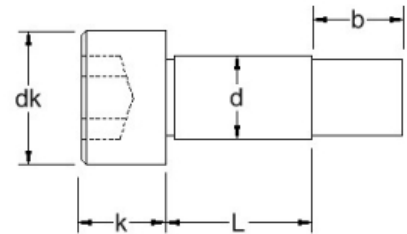
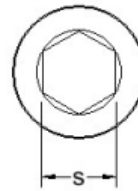
Material grades: A2: ● 416: ◆

	4.0	5	6	11	11	12	16										
b	4.0	5	6	11	11	12	16										
dk	6.0	9.0	10	13	16	16	18										
k	3.0	4.0	4.5	5.5	7	7	9										
s	2	2.5	3	4	5	5	6										
Thread	M3	M4	M5	M6	M6	M8	M10										
Length/d	4.0	5.0	6.0	8.0	10	10	12										
4	●◆	●◆	●◆														
5	●◆	●◆	●◆														
6	●◆	●◆	●◆	●◆													
8	●◆	●◆	●◆	●◆	●◆	●◆											
10	●◆	●◆	●◆	●◆	●◆	●◆											
12		●◆	●◆	●◆	●◆	●◆	●◆										
14		●◆	●◆														
16		●◆	●◆	●◆	●◆	●◆	●◆										
20		●◆	●◆	●◆													
25	●	●◆	●◆				●◆										
30		●◆	●◆														

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KNURLED SOCKET SHOULDER SCREWS

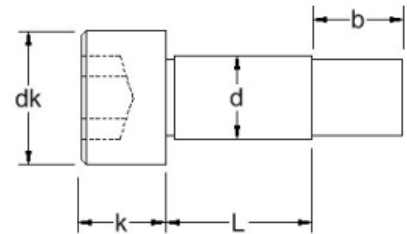


Material grades: A2: ● A4: ▲

b	3.8	4.5	4.5	9.5	11	13	16	18	22										
dk	5.0	6.0	9.0	10	13	16	18	24	30										
k	2.0	3.0	4.0	4.5	5.5	7	9	11	14										
s	2.0	2	2.5	3	4	5	6	8	10										
Thread	M2	M3	M4	M5	M6	M8	M10	M12	M16										
Length/d	3.0	4.0	5.0	6.0	8.0	10	12	16	20										
4	●▲	●▲	●▲	●▲															
5	●▲	●▲	●▲	●▲															
6	●▲	●▲	●▲	●▲															
7		●▲		●▲															
8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
10	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
12		●▲	●▲	●▲	●▲	●▲	●▲	●▲											
14		●▲	●▲	●▲	●▲	●▲	●▲	●▲											
16		●▲	●▲	●▲	●▲	●▲	●▲	●▲											
18		●▲	●▲	●▲	●▲	●▲	●▲	●▲											
20		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
25		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
30		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
35		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
40		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								

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KNURLED SOCKET SHOULDER SCREWS



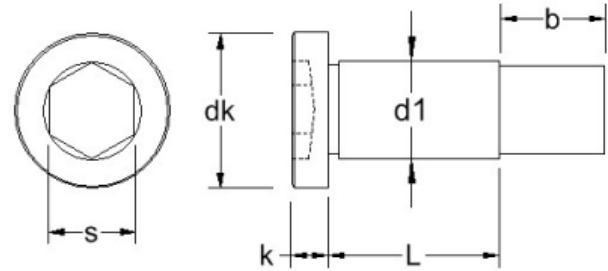
Material grades: A2: ● A4: ▲

	b	3.8	4.5	4.5	9.5	11	13	16	18	22								
dk		5.0	6.0	9.0	10	13	16	18	24	30								
k		2.0	3.0	4.0	4.5	5.5	7	9	11	14								
s		2.0	2	2.5	3	4	5	6	8	10								
Thread		M2	M3	M4	M5	M6	M8	M10	M12	M16								
Length/d		3.0	4.0	5.0	6.0	8.0	10	12	16	20								
45			●▲	●▲	●▲	●▲	●▲	●▲	●▲									
50			●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
55						●▲	●▲	●▲	●▲									
60						●▲	●▲	●▲	●▲	●▲								
70						●▲	●▲	●▲	●▲	●▲								
80						●▲	●▲	●▲	●▲	●▲								
90						●▲	●▲	●▲	●▲	●▲								
100						●▲	●▲	●▲	●▲	●▲								
120										●▲								

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ULTRA LOW HEAD SOCKET SHOULDER SCREWS

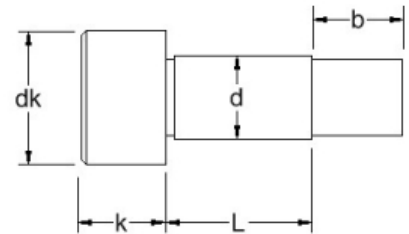
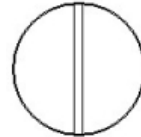


Material grades: **A4: ▲**

b	4.0	5	6	11														
dk	6.0	9.0	10	13														
k	1.3	1.3	1.7	2.0														
s	2	2.5	3	4														
Thread	M3	M4	M5	M6														
Length/d	4.0	5.0	6.0	8.0														
4	▲	▲	▲															
5	▲	▲	▲															
6	▲	▲	▲	▲														
8	▲	▲	▲	▲														
10	▲	▲	▲	▲														
12		▲	▲	▲														
16		▲	▲	▲														
20		▲	▲	▲														

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SLOTTED SHOULDER SCREWS



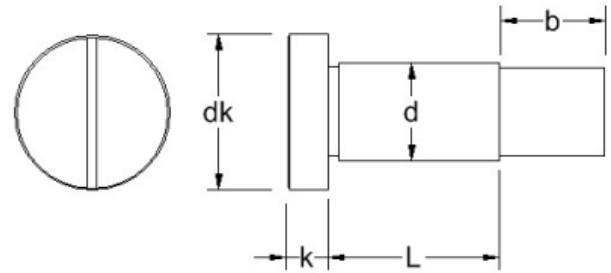
Material grades: A2: ●

b	4	5	6	11	11	12	16											
dk	6.0	8.0	10	12	14	14	20											
k	3.0	4.0	5.0	6.0	7.0	7.0	8.0											
Thread	M3	M4	M5	M6	M6	M8	M10											
Length/d	4.0	5.0	6.0	8.0	10	10	12											
4	●	●	●															
5	●	●	●															
6	●	●	●	●														
8	●	●	●	●	●	●												
10	●	●	●	●	●	●												
12		●	●	●	●	●	●											
14		●	●															
16		●	●	●	●	●	●											
20		●	●	●														
25		●	●															
30		●	●															

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ULTRA LOW HEAD SLOTTED SHOULDER SCREWS

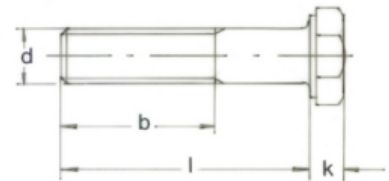
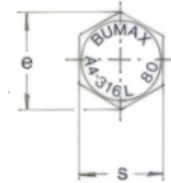


Material grades: **A4: ▲**

b	4	5	6	11													
dk	6.0	9.0	10	13													
k	1.3	1.3	1.7	2.0													
Thread	M3	M4	M5	M6													
Length/d	4.0	5.0	6.0	8.0													
4	▲	▲	▲														
5	▲	▲	▲														
6	▲	▲	▲	▲													
8	▲	▲	▲	▲													
10	▲	▲	▲	▲													
12		▲	▲	▲													
16		▲	▲	▲													
20		▲	▲	▲													

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BUMAX HEXAGON BOLTS ISO 4014



Material grades: BUMAX 88:❖ BUMAX 109:*

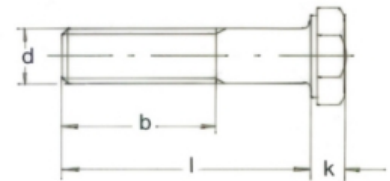
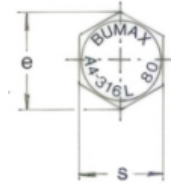
b (Max)	18	22	26	30	34	38	42	46	54	60	66	78				
b (Max) (L > 125mm)	24	28	32	36	40	44	48	52	60	66	72	84				
k (Min)	3.76	5.06	6.11	7.21	8.51	9.71	11.15	12.15	14.65	16.65	18.28	22.08				
Pitch	1.0	1.25	1.5	1.75	2.0	2.0	2.5	2.5	3.0	3.0	3.5	4.0				
s (Max)	10	13	16	18	21	24	27	30	36	41	46	55				
Length/dim	M6	M8	M10	M12	M14	M16	M18	M20	M24	M27	M30	M36				
30	❖*															
35	❖*	❖*		*												
40	❖*	❖*	❖	❖*												
42	❖															
45	❖*	❖*	❖*	❖*												
50	❖*	❖*	❖*	❖*		❖										
55	❖*	❖*	❖*	❖*		❖										
60	❖*	❖*	❖*	❖*		❖*		❖								
65	❖*	❖*	❖*	❖*		❖*		❖								
70	❖*	❖*	❖*	❖*		❖*	❖	❖								
75	*	❖	❖	❖		❖*		❖	❖			❖				
80	❖*	❖*	❖*	❖*	❖*	❖*	❖	❖	❖			❖				
85			❖													
90	❖	❖	❖*	❖*	❖	❖*	❖	❖	❖			❖				
100	❖	❖	❖*	❖*	❖	❖*	❖	❖	❖	❖	❖	❖				

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BUMAX HEXAGON BOLTS ISO 4014



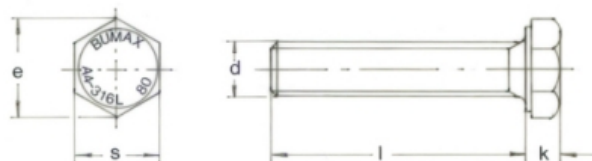
Material grades: **BUMAX 88:** ♦ **BUMAX 109:** *

b (Max)	18	22	26	30	34	38	42	46	54	60	66	78					
b (Max) (L > 125mm)	24	28	32	36	40	44	48	52	60	66	72	84					
k (Min)	3.76	5.06	6.11	7.21	8.51	9.71	11.15	12.15	14.65	16.65	18.28	22.08					
Pitch	1.0	1.25	1.5	1.75	2.0	2.0	2.5	2.5	3.0	3.0	3.5	4.0					
s (Max)	10	13	16	18	21	24	27	30	36	41	46	55					
Length/dim	M6	M8	M10	M12	M14	M16	M18	M20	M24	M27	M30	M36					
110			♦	♦		♦*		♦	♦	♦	♦						
120			♦	♦*	♦	♦*	♦	♦	♦	♦	♦	♦					
130			♦	♦		♦		♦	♦	♦	♦	♦					
140				♦	♦	♦	♦	♦	♦	♦	♦	♦					
150			♦	♦		♦	♦	♦	♦	♦	♦	♦					
160			♦	♦		♦		♦	♦	♦	♦	♦					
170						♦			♦								
180				♦		♦		♦	♦	♦	♦	♦					
200						♦		♦	♦	♦	♦	♦					
210																	♦
220									♦								
235													♦				
310									♦								
340									♦								

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BUMAX HEXAGON SET SCREWS ISO 4017



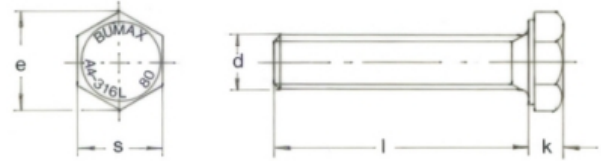
Material grades: **BUMAX 88:◆** **BUMAX 109:***

e	s x 1.15	s x 1.15	s x 1.15	s x 1.15	s x 1.15	s x 1.15	s x 1.15	s x 1.15	s x 1.15	s x 1.15	s x 1.15	s x 1.15	s x 1.15	s x 1.15			
k (Max)	2.925	3.65	4.15	5.45	6.58	7.68	8.98	10.18	11.715	12.715	15.215	17.35	19.12	22.92			
Pitch	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.0	2.5	2.5	3.0	3.0	3.5	4.0			
s (Max)	7	8	10	13	16	18	21	24	27	30	36	41	46	55			
Length/dim	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M24	M27	M30	M36			
6	◆																
8	◆																
10	◆	◆	◆	◆													
12	◆	◆	◆*	◆	◆												
14		◆	◆	◆	*												
16	◆*	◆	◆*	◆	◆*												
20	◆*	◆	◆*	◆*	◆*	◆*											
22			◆*	◆*													
25	◆	◆	◆*	◆*	◆*	◆*		◆									
30	◆	◆	◆*	◆*	◆*	◆*	◆	◆*		◆							
32						◆											
35		◆	◆	◆*	◆*	◆*	◆	◆*		◆							
40		◆	◆	◆	◆*	◆*	◆	◆*	◆	◆	◆						
45		◆	◆	◆	◆	◆		◆*		◆	◆						
50		◆	◆	◆	◆	◆	◆	◆*	◆	◆	◆	◆	◆				
55			◆	◆	◆	◆	◆	◆*		◆	◆						

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BUMAX HEXAGON SET SCREWS ISO 4017

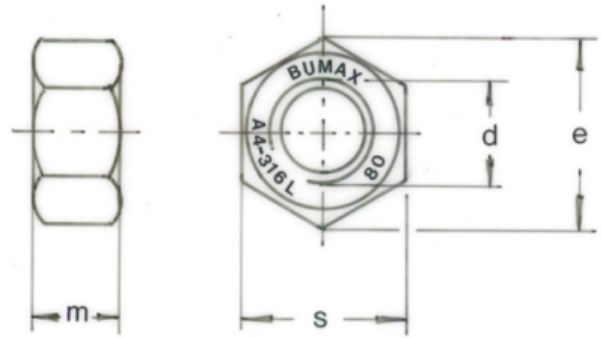


Material grades: **BUMAX 88:◆** **BUMAX 109:***

e	s x 1.15	s x 1.15	s x 1.15	s x 1.15	s x 1.15	s x 1.15	s x 1.15	s x 1.15	s x 1.15	s x 1.15	s x 1.15	s x 1.15	s x 1.15	s x 1.15			
k (Max)	2.925	3.65	4.15	5.45	6.58	7.68	8.98	10.18	11.715	12.715	15.215	17.35	19.12	22.92			
Pitch	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.0	2.5	2.5	3.0	3.0	3.5	4.0			
s (Max)	7	8	10	13	16	18	21	24	27	30	36	41	46	55			
Length/dim	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M24	M27	M30	M36			
60			◆	◆	◆	◆	◆	◆*	◆	◆	◆	◆	◆				
65			*	*	◆	◆				◆	◆						
70			◆	◆*	◆	◆	◆	◆	◆	◆	◆	◆	◆				
75										◆	◆						
80			◆	◆	◆	◆		◆*	◆	◆	◆	◆	◆	◆			
90					◆	◆		◆*		◆	◆	◆	◆	◆			
100					◆	◆		◆		◆	◆	◆	◆	◆			
110					◆						◆						
120					◆			◆			◆	◆	◆	◆			
130					◆					◆			◆	◆			
140											◆	◆	◆	◆			
150										◆		◆		◆			

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BUMAX HEXAGON FULL NUTS ISO 4032



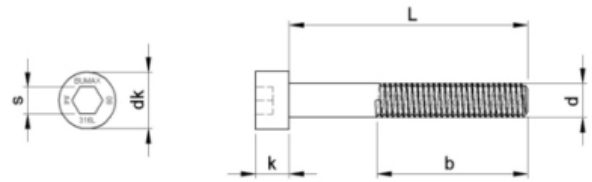
Material grades: BUMAX 88:❖ BUMAX 109:✧

e	11.5	14.95	18.4	20.7	24.15	27.6	31.05	34.5	41.4	47.15	52.9	63.25					
m (Max)	5.2	6.8	8.4	10.8	12.8	14.8	15.8	18	21.5	23.8	25.6	31					
Pitch	1.00	1.25	1.50	1.75	2.00	2.00	2.50	2.50	3.00	3.00	3.50	4.00					
s (Max)	10	13	16	18	21	24	27	30	36	41	46	55					
Length/dim	M6	M8	M10	M12	M14	M16	M18	M20	M24	M27	M30	M36					
	❖✧	❖✧	❖✧	❖✧	❖✧	❖✧	❖	❖	❖	❖	❖	❖					

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BUMAX SOCKET CAP SCREWS ISO 4762



Material grades: **BUMAX 88:◆** **BUMAX 109:✱**

b (Max)	18	20	22	24	28	32	36	44	52	60						
dk	5.5	7.0	8.5	10	13	16	18	24	30	36						
k (Max)	3	4	5	6	8	10	12	16	20	24						
Pitch	0.5	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.5	3.0						
s	2.5	3	4	5	6	8	10	14	17	19						
t (Min)	1.3	2.0	2.5	3	4	5	6	8	10	12						
Length/dim	M3	M4	M5	M6	M8	M10	M12	M16	M20	M24						
6	◆	◆														
8	◆	◆														
10	◆	◆	◆													
12	◆	◆✱	◆	◆✱												
14		◆		◆✱												
16	◆	◆✱	◆	◆✱	◆✱	◆										
20	◆	◆✱	◆	◆✱	◆✱	◆✱	◆									
22				◆	◆	✱										
25	◆	◆	◆	◆✱	◆✱	◆✱	◆✱									
30	◆	◆	◆	◆✱	◆✱	◆✱	◆✱	◆	◆							
35	◆	◆	◆	◆✱	◆✱	◆✱	◆✱	◆								
40		◆✱	◆	◆✱	◆✱	◆✱	◆✱	◆✱	◆							
45		◆	◆	◆✱	◆✱	◆✱	◆✱	◆	◆							
50		◆	◆	◆✱	◆✱	◆✱	◆✱	◆✱	◆	◆						

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BUMAX SOCKET CAP SCREWS ISO 4762



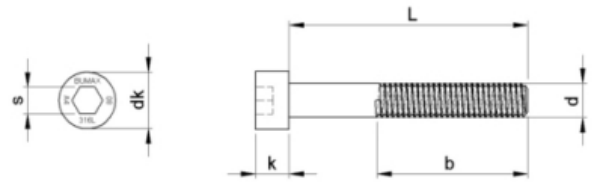
Material grades: **BUMAX 88:** ♦ **BUMAX 109:** *

b (Max)	18	20	22	24	28	32	36	44	52	60							
dk	5.5	7.0	8.5	10	13	16	18	24	30	36							
k (Max)	3	4	5	6	8	10	12	16	20	24							
Pitch	0.5	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.5	3.0							
s	2.5	3	4	5	6	8	10	14	17	19							
t (Min)	1.3	2.0	2.5	3	4	5	6	8	10	12							
Length/dim	M3	M4	M5	M6	M8	M10	M12	M16	M20	M24							
55		♦	♦	♦*	♦*	♦	♦*	♦									
60			♦	♦*	♦*	♦*	♦*	♦	♦	♦							
65				♦*	♦*	♦*	♦	♦		♦							
70			♦	♦*	♦*	♦*	♦*	♦	♦	♦							
73			♦														
75				♦*	♦*	♦*	♦*		♦								
80		♦		♦*	♦*	♦*	♦*	♦*	♦	♦							
90				♦	♦*	♦*	♦*	♦*	♦	♦							
100			♦	♦	♦	♦*	♦*	♦*	♦	♦							
110						♦*	♦*	♦	♦	♦							
115							♦										
120						♦	♦*	♦	♦	♦							
125							♦										
130							♦	♦*	♦	♦							

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BUMAX SOCKET CAP SCREWS ISO 4762

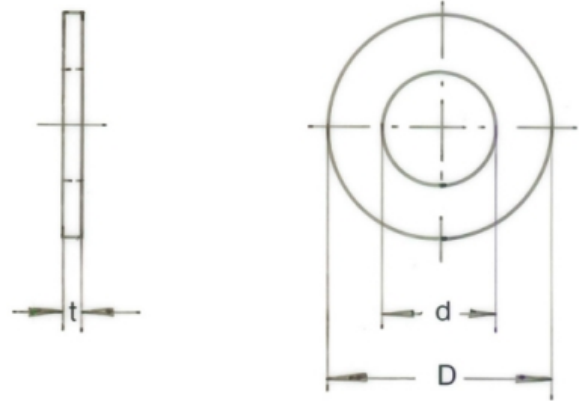


Material grades: **BUMAX 88:◆** **BUMAX 109:***

b (Max)	18	20	22	24	28	32	36	44	52	60							
dk	5.5	7.0	8.5	10	13	16	18	24	30	36							
k (Max)	3	4	5	6	8	10	12	16	20	24							
Pitch	0.5	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.5	3.0							
s	2.5	3	4	5	6	8	10	14	17	19							
t (Min)	1.3	2.0	2.5	3	4	5	6	8	10	12							
Length/dim	M3	M4	M5	M6	M8	M10	M12	M16	M20	M24							
135								◆									
140							◆	◆	◆*	◆							
150							◆	◆	◆	◆							
160									◆								
170										◆							
180									◆								
190									◆								

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BUMAX FLAT WASHERS ISO 7089 200HV



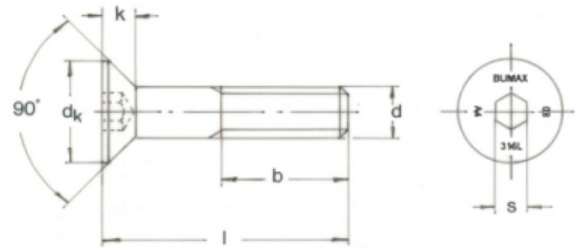
Material grades: BUMAX 88:❖ BUMAX 109:✱

D	9	10	12	16	20	24		30	37	39	44	50	56	66			
d	4.3	5.3	6.4	8.4	10.5	13		17	21	23	25	28	31	37			
t	0.8	1	1.6	1.6	2	2.5		3	3	3	4	4	4	5			
Length/dim	M4	M5	M6	M8	M10	M12	M14	M16	M20	M22	M24	M27	M30	M36			
	❖✱	❖✱	❖✱	❖✱	❖✱	❖✱	❖✱	❖✱	❖✱	❖	❖✱	❖	❖	❖			

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BUMAX SOCKET COUNTERSUNK SCREWS ISO 10642

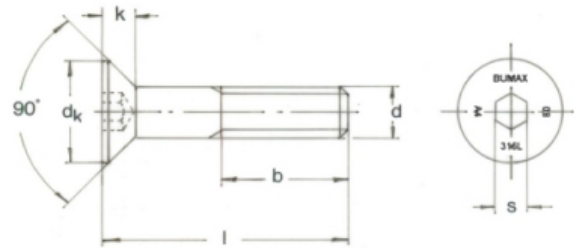


Material grades: **BUMAX 88** ♦

dk (Max)	6.72	8.96	11.20	13.44	17.92	22.40	26.88	30.88										
k (Max)	1.86	2.48	3.1	3.72	4.96	6.2	7.44	8.8										
Pitch	0.5	0.7	0.8	1.0	1.25	1.5	1.75	2.0										
s	2	2.5	3	4	5	6	8	10										
t (Min)	1.1	1.5	1.9	2.2	3.0	3.6	4.3	4.8										
Length/dim	M3	M4	M5	M6	M8	M10	M12	M16										
6	♦																	
8	♦																	
10	♦	♦	♦	♦														
12	♦	♦	♦	♦	♦													
14					♦													
16	♦	♦	♦	♦	♦													
20	♦	♦	♦	♦	♦	♦												
25		♦	♦	♦	♦	♦												
30		♦	♦	♦	♦	♦	♦											
35					♦	♦												
40				♦	♦	♦	♦	♦										
45						♦	♦											
50				♦	♦	♦	♦	♦										
60				♦	♦		♦	♦										
70					♦		♦	♦										

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BUMAX SOCKET COUNTERSUNK SCREWS ISO 10642

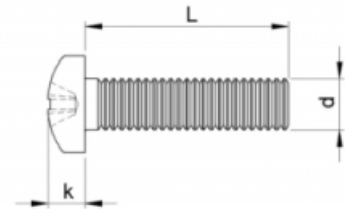


Material grades: **BUMAX 88** ♦

dk (Max)	6.72	8.96	11.20	13.44	17.92	22.40	26.88	30.88										
k (Max)	1.86	2.48	3.1	3.72	4.96	6.2	7.44	8.8										
Pitch	0.5	0.7	0.8	1.0	1.25	1.5	1.75	2.0										
s	2	2.5	3	4	5	6	8	10										
t (Min)	1.1	1.5	1.9	2.2	3.0	3.6	4.3	4.8										
Length/dim	M3	M4	M5	M6	M8	M10	M12	M16										
80								♦										
100								♦										

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BUMAX TORX PAN MACHINE SCREWS ISO 14583



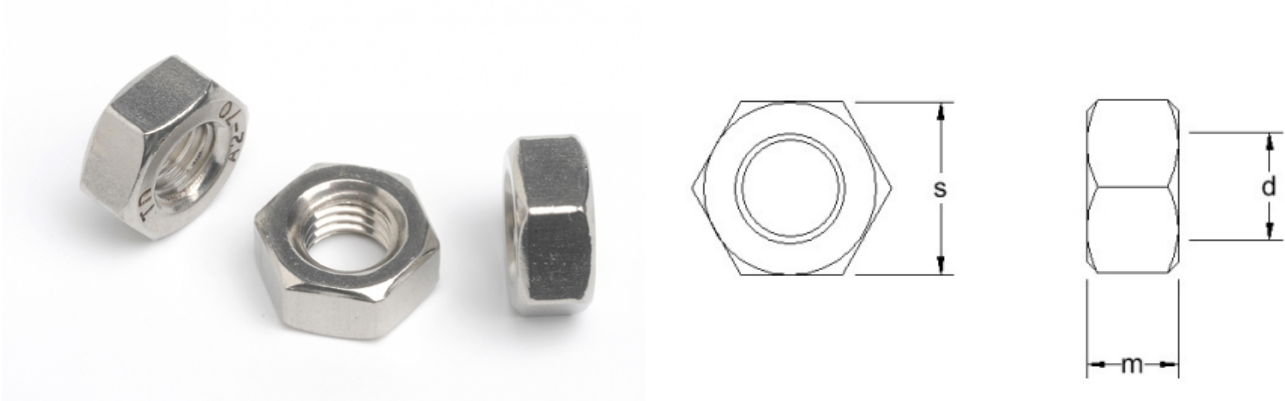
Material grades: **BUMAX 88** ♦

dk (Max)	12	16	20																
k (Max)	4.6	6.0	7.5																
Pitch	1.0	1.25	1.5																
Length/dim	M6	M8	M10																
6	♦																		
12		♦																	
16		♦																	
18		♦																	
20		♦																	
25		♦	♦																
30		♦	♦																
35		♦																	
40		♦	♦																
45		♦																	
50		♦	♦																
60		♦	♦																
70		♦	♦																
80		♦	♦																
90			♦																
100		♦	♦																
120			♦																

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HEXAGON FULL NUTS ANSI B18.6.3

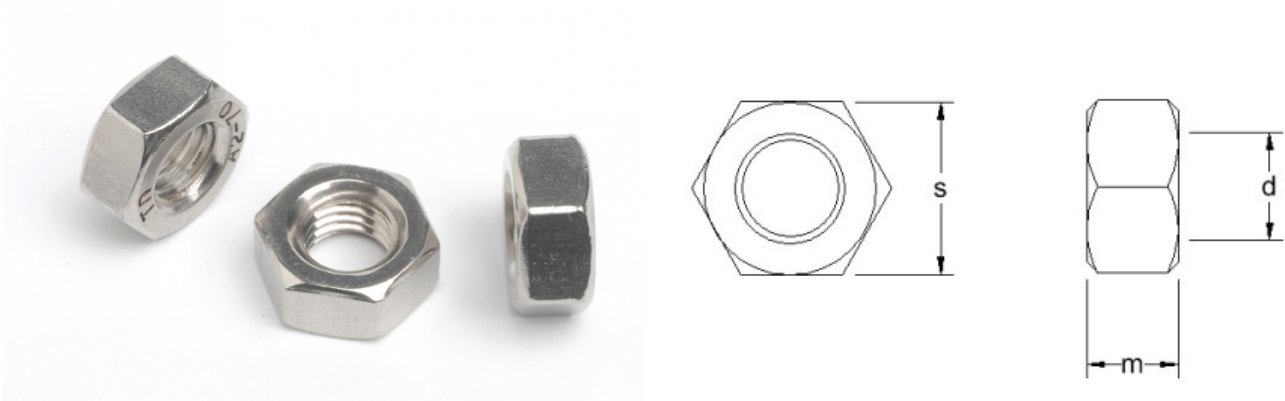


Material grades: A2: ● A4: ▲

m (Max)	0.050	0.050	0.050	0.066	0.066	0.066	0.066	0.098	0.098	0.114	0.114	0.114	0.114	0.130	0.130	0.130	0.130
s (Max)	0.156	0.156	0.156	0.188	0.188	0.188	0.188	0.250	0.250	0.312	0.312	0.312	0.312	0.344	0.344	0.375	0.375
Length/dim	0-80	1-64	1-72	2-56	2-64	3-48	3-56	4-40	4-48	5-40	5-44	6-32	6-40	8-32	8-36	10-24	10-32
	●	●	●	●	●	●	●	●▲	●	●▲	●	●▲	●	●▲	●	●▲	●▲

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HEXAGON FULL NUTS ANSI B18.6.3



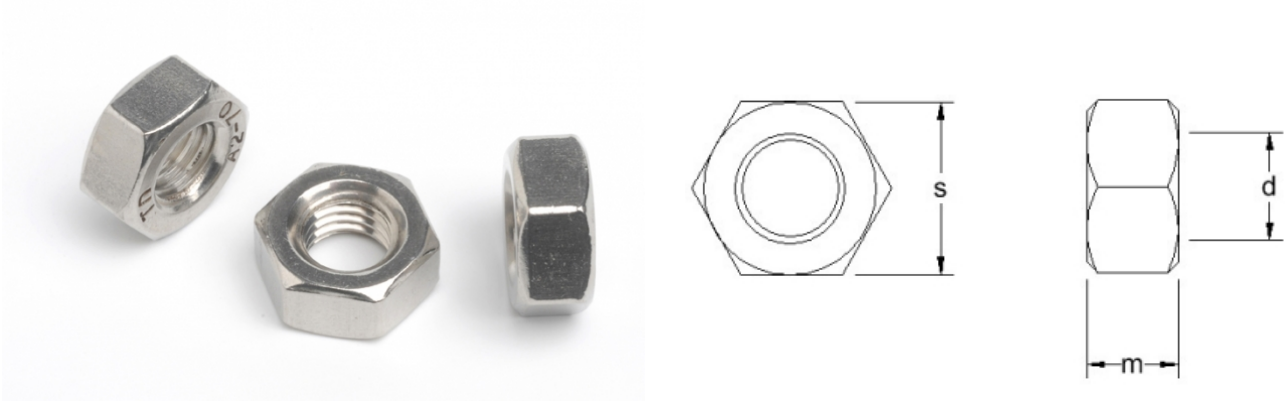
Material grades: A2: ● A4: ▲

m (Max)	0.161	0.161	0.226	0.226	0.273	0.273	0.337	0.337	0.385	0.385	0.448	0.448	0.496	0.496	0.559	0.559	0.665
s (Max)	0.438	0.438	0.438	0.438	0.500	0.500	0.562	0.562	0.688	0.688	0.750	0.750	0.875	0.875	0.938	0.938	1.125
Length/dim	12-24	12-28	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24	7/16-14	7/16-20	1/2-13	1/2-20	9/16-12	9/16-18	5/8-11	5/8-18	3/4-10
	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲

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HEXAGON FULL NUTS ANSI B18.6.3

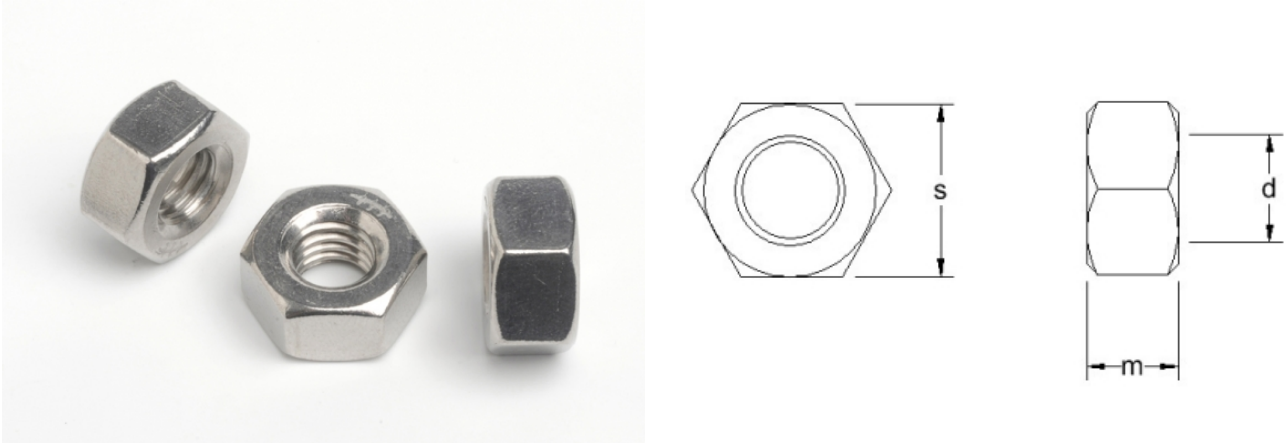


Material grades: A2: ● A4: ▲

m (Max)	0.665	0.776	0.776	0.887	0.887	0.999	0.999	1.094	1.094	1.206	1.206	1.317	1.317	1.500	1.500	1.718	1.718
s (Max)	1.125	1.312	1.312	1.500	1.500	1.688	1.688	1.875	1.875	2.062	2.062	2.250	2.250	2.625	2.625	3.000	3.000
Length/dim	3/4-16	7/8-9	7/8-14	1-8	1-12	1.1/8-7	1.1/8-12	1.1/4-7	1.1/4-12	1.3/8-6	1.3/8-12	1.1/2-6	1.1/2-12	1.3/4-5	1.3/4-8	2-4.1/2	2-8
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲

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USA HEAVY HEXAGON FULL NUTS ANSI B18.2.2



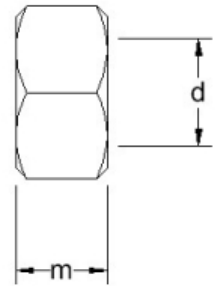
Material grades: A2: ● A4: ▲

m (Max)	0.250	0.250	0.314	0.314	0.377	0.377	0.441	0.441	0.504	0.504	0.568	0.568	0.631	0.631	0.758	0.758	0.885
s (Max)	0.500	0.500	0.562	0.562	0.687	0.687	0.750	0.750	0.875	0.875	0.937	0.937	1.062	1.062	1.250	1.250	1.437
Length/dim	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24	7/16-14	7/16-20	1/2-13	1/2-20	9/16-12	9/16-18	5/8-11	5/8-18	3/4-10	3/4-16	7/8-9
	●▲	●	●▲	●	●▲	●	●▲	●	●▲	●	●	●	●▲	●	●▲	●	●▲

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USA HEAVY HEXAGON FULL NUTS ANSI B18.2.2

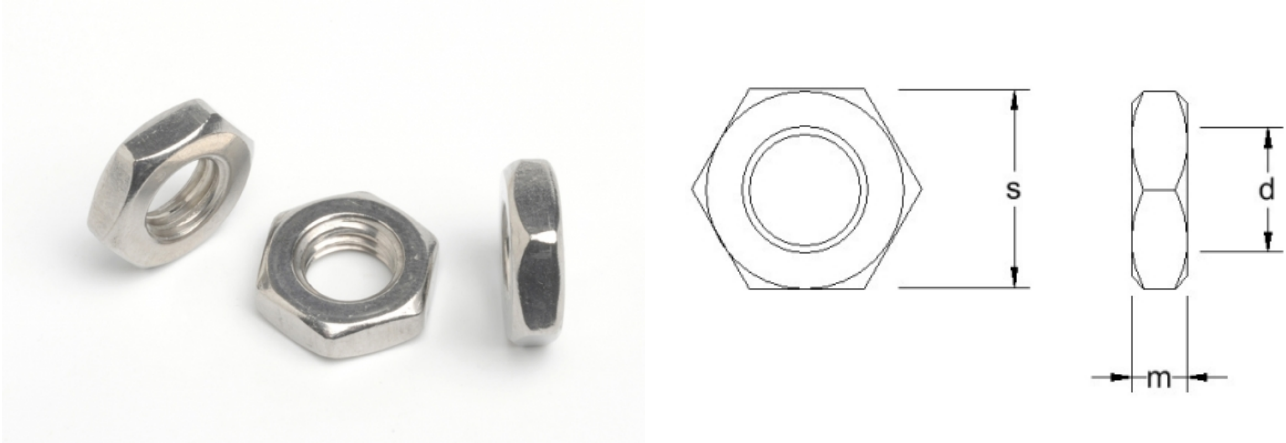


Material grades: A2: ● A4: ▲

m (Max)	0.885	1.012	1.012																		
s (Max)	1.437	1.625	1.625																		
Length/dim	7/8-14	1-8	1-12																		
	●	●▲	●																		

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HEXAGON THIN NUTS ANSI B18.2.2



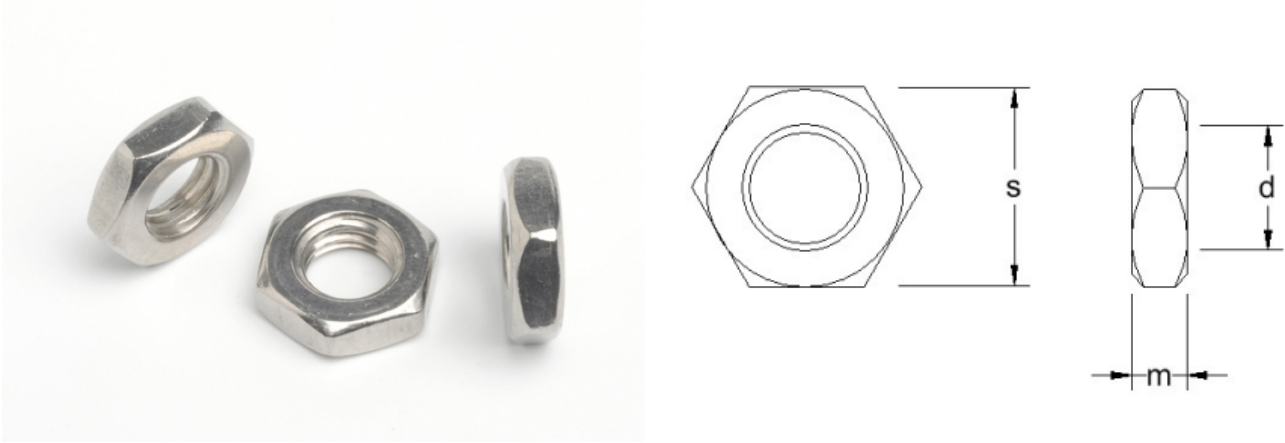
Material grades: A2: ● A4: ▲

m (Max)	0.163	0.163	0.195	0.195	0.227	0.227	0.260	0.260	0.323	0.323	0.324	0.324	0.387	0.387	0.446	0.446	0.510
s (Max)	0.438	0.438	0.500	0.500	0.562	0.562	0.688	0.688	0.750	0.750	0.875	0.875	0.938	0.938	1.125	1.125	1.312
Length/dim	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24	7/16-14	7/16-20	1/2-13	1/2-20	9/16-12	9/16-18	5/8-11	5/8-18	3/4-10	3/4-16	7/8-9
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲

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HEXAGON THIN NUTS ANSI B18.2.2

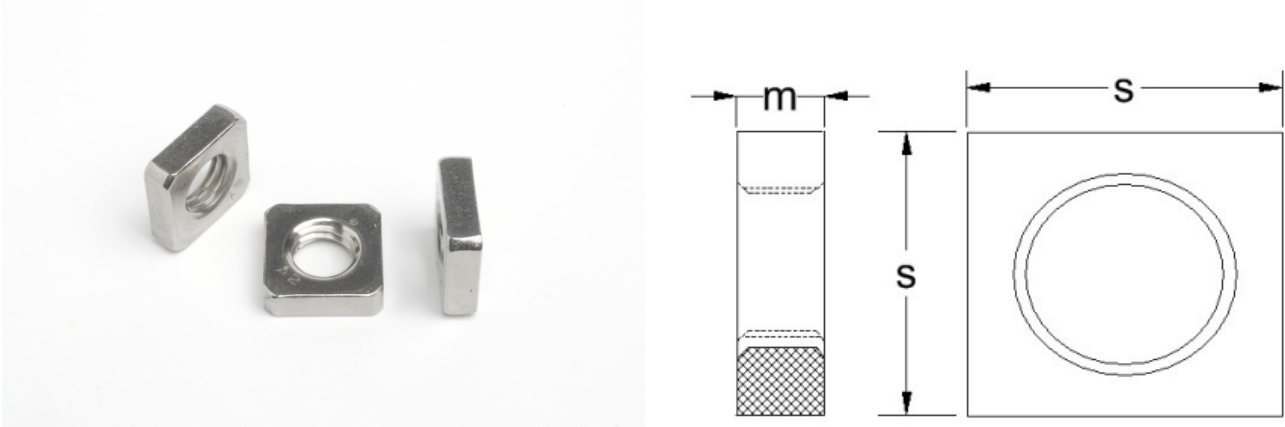


Material grades: A2: ● A4: ▲

m (Max)	0.510	0.575	0.575																	
s (Max)	1.312	1.500	1.500																	
Length/dim	7/8-14	1-8	1-12																	
	●	●▲	●																	

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SQUARE NUTS ANSI B18.2.2



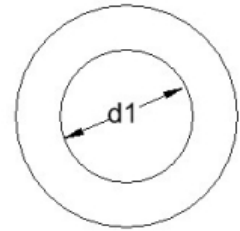
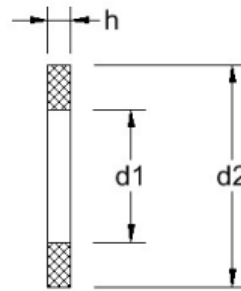
Material grades: A2: ● A4: ▲

m (Max)	0.098	0.114	0.130	0.130	0.130	0.235	0.283	0.346	0.394	0.458	0.569	0.680						
s (Max)	0.250	0.312	0.344	0.375	0.375	0.438	0.562	0.625	0.750	0.812	1.000	1.125						
Length/dim	4-40	6-32	8-32	10-24	10-32	1/4-20	5/16-18	3/8-16	7/16-14	1/2-13	5/8-11	3/4-10						
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	▲	●▲	●	●						

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USA FLAT WASHERS ANSI B18.22.1

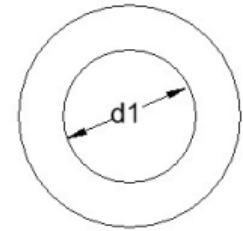
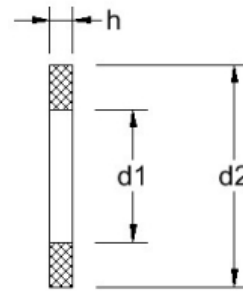


Material grades: A2: ● A4: ▲

d1	0.078	0.099	0.109	0.125	0.140	0.149	0.174	0.203	0.250	0.281	0.343	0.406	0.500	0.531	0.687	0.812	0.937	
d2	0.187	0.250	0.250	0.312	0.438	0.375	0.375	0.437	0.562	0.625	0.750	0.875	1.125	1.250	1.500	1.875	2.00	
h	0.020	0.031	0.031	0.031	0.046	0.031	0.031	0.063	0.050	0.050	0.050	0.050	0.062	0.062	0.078	0.109	0.109	
Length/dim	#0	#2	#3	#4	#5	#6	#8	#10	#12	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	
	●	●	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲

CLICK HERE TO RETURN TO THE CONTENTS PAGE

USA FLAT WASHERS ANSI B18.22.1



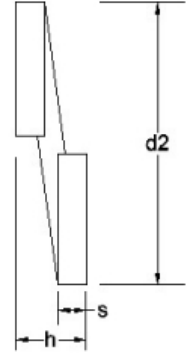
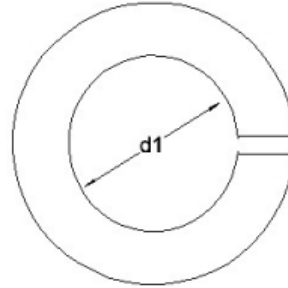
Material grades: A2: ● A4: ▲

d1	1.062	1.187	1.312	1.500	1.562	1.812	2.125											
d2	2.00	2.50	2.75	3.25	3.25	3.50	4.00											
h	0.125	0.125	0.125	0.140	0.140	0.140	0.187											
Length/dim	1	1.1/8	1.1/4	1.3/8	1.1/2	1.3/4	2											
	●▲	●▲	●▲	●▲	●▲	●▲	●▲											

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USA SPRING WASHERS ANSI B18.21.1

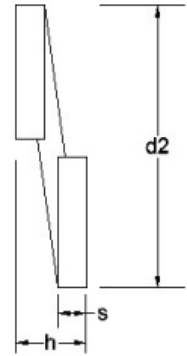
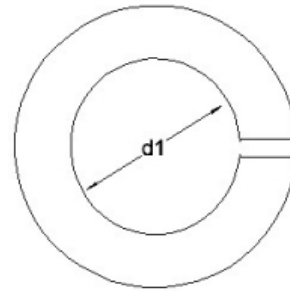


Material grades: A2: ● A4: ▲

d1 (Min)	0.062	0.075	0.088	0.101	0.114	0.127	0.141	0.167	0.193	0.220	0.252	0.314	0.377	0.440	0.502		0.628	
d2 (Max)	0.137	0.150	0.172	0.195	0.209	0.236	0.250	0.293	0.334	0.377	0.487	0.583	0.680	0.776	0.869		1.072	
h (Min)	0.020	0.022	0.035	0.040	0.040	0.047	0.047	0.055	0.062	0.070	0.109	0.125	0.141	0.156	0.171		0.203	
s (Min)	0.017	0.020	0.020	0.025	0.025	0.031	0.031	0.040	0.047	0.056	0.062	0.078	0.094	0.109	0.125		0.156	
Length/dim	#0	#1	#2	#3	#4	#5	#6	#8	#10	#12	1/4	5/16	3/8	7/16	1/2	9/16	5/8	
	●	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) >

USA SPRING WASHERS ANSI B18.21.1



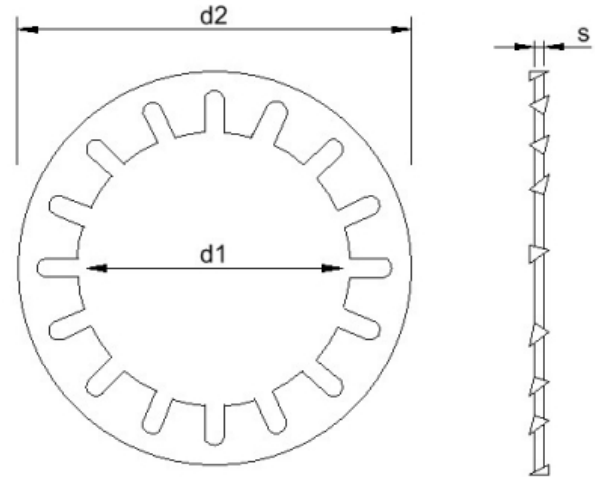
Material grades: A2: ● A4: ▲

d1 (Min)	0.753	0.878	1.003	1.129	1.254	1.379	1.504												
d2 (Max)	1.264	1.455	1.647	1.838	2.028	2.210	2.409												
h (Min)	0.234	0.266	0.297	0.328	0.359	0.391	0.422												
s (Min)	0.188	0.219	0.250	0.281	0.312	0.344	0.375												
Length/dim	3/4	7/8	1	1.1/8	1.1/4	1.3/8	1.1/2												
	●▲	●▲	●▲	●▲	●▲	●▲	●▲												

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USA INTERNAL TOOTH WASHERS ANSI B18.21.1

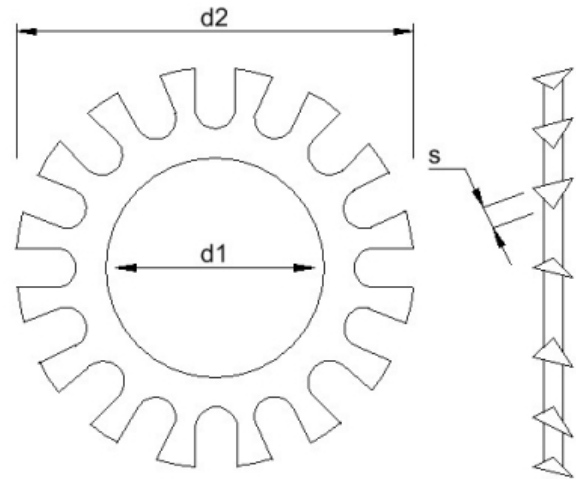


Material grades: A2: ●

d1 (Min)	0.089	0.102	0.115	0.141	0.168	0.195	0.221	0.256	0.320	0.384	0.448	0.512		0.640	0.769	0.894	1.019
d2 (Max)	0.200	0.232	0.270	0.295	0.340	0.381	0.410	0.478	0.610	0.692	0.789	0.900		1.071	1.245	1.410	1.637
s (Max)	0.016	0.016	0.018	0.022	0.023	0.024	0.027	0.028	0.034	0.040	0.040	0.045		0.050	0.055	0.060	0.067
Length/dim	#2	#3	#4	#6	#8	#10	#12	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

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USA EXTERNAL TOOTH WASHERS ANSI B18.21.1



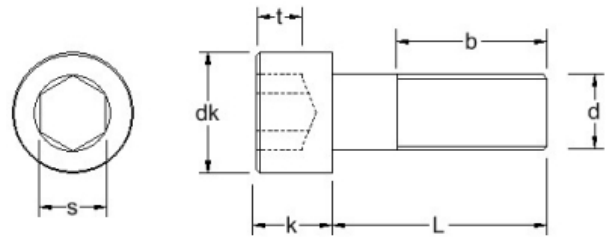
Material grades: A2: ●

d1 (Min)	*	0.102	0.115	0.141	0.168	0.195	0.221	0.256	0.320	0.384	0.448	0.513		0.641	0.768	0.897	1.025	
d2 (Max)	*	0.235	0.260	0.320	0.381	0.410	0.475	0.510	0.610	0.694	0.760	0.900		1.070	1.260	1.410	1.620	
s (Max)	*	0.016	0.018	0.022	0.023	0.024	0.027	0.028	0.034	0.040	0.040	0.045		0.050	0.055	0.060	0.067	
Length/dim		#2	#3	#4	#6	#8	#10	#12	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1
		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

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SOCKET CAP SCREWS ANSI B18.3



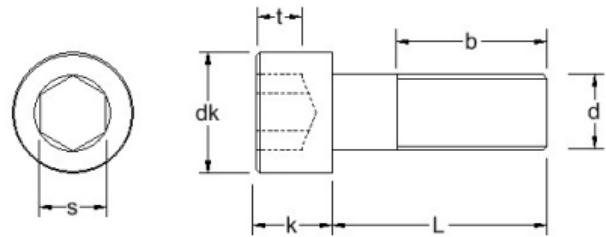
Material grades: A2: ● A4: ▲

b	0.50 - 0.99	0.62 - 0.99	0.62 - 0.99	0.62 - 0.99	0.62 - 0.99	0.62 - 0.99	0.62 - 0.99	0.75 - 0.99	0.75 - 0.99	0.75 - 1.00	0.75 - 1.05	0.75 - 1.05	0.88 - 1.19	0.88 - 1.19	0.88 - 1.27	0.88 - 1.27	0.88 - 1.27
dk (Max)	0.096	0.118	0.118	0.140	0.140	0.161	0.161	0.183	0.183	0.205	0.226	0.226	0.270	0.270	0.312	0.312	0.343
k (Max)	0.060	0.073	0.073	0.086	0.086	0.099	0.099	0.112	0.112	0.125	0.138	0.138	0.164	0.164	0.190	0.190	0.216
s	0.050	1/16	1/16	5/64	5/64	5/64	5/64	3/32	3/32	3/32	7/64	7/64	9/64	9/64	5/32	5/32	5/32
t (Min)	0.025	0.031	0.031	0.038	0.038	0.044	0.044	0.051	0.051	0.057	0.064	0.064	0.077	0.077	0.090	0.090	0.090
Length/dim	0-80	1-64	1-72	2-56	2-64	3-48	3-56	4-40	4-48	5-40	6-32	6-40	8-32	8-36	10-24	10-32	12-24
3/32	●																
1/8	●	●	●	●	●			●			●	●	●				
5/32	●	●	●	●	●												
3/16	●	●	●	●	●	●		●▲	●		●	●	●	●	●	●	●
7/32	●	●	●														
1/4	●	●	●	●▲	●	●	●	●▲	●	●	●▲	●	●▲	●	●▲	●▲	●
5/16	●	●	●	●▲	●	●	●	●▲	●	●	●▲	●	●▲	●	●▲	●▲	●
3/8	●	●	●	●▲	●	●	●	●▲	●	●	●▲	●	●▲	●	●▲	●▲	●
7/16	●	●	●	●▲	●	●		●▲	●	●	●▲	●	●▲	●	●▲	●▲	●
1/2	●	●	●	●▲	●	●	●	●▲	●	●	●▲	●	●▲	●	●▲	●▲	●
9/16	●	●	●	●	●	●	●	●▲	●	●	●▲	●	●▲	●	●▲	●▲	●
5/8	●	●	●	●	●	●	●	●▲	●	●	●▲	●	●▲	●	●▲	●▲	●
3/4	●		●	●	●	●	●	●▲	●	●	●▲	●	●▲	●	●▲	●▲	●
7/8				●		●	●	●▲	●		●▲	●	●▲	●	●▲	●▲	●
1	●			●		●	●	●▲	●	●	●▲	●	●▲	●	●▲	●▲	●

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SOCKET CAP SCREWS ANSI B18.3



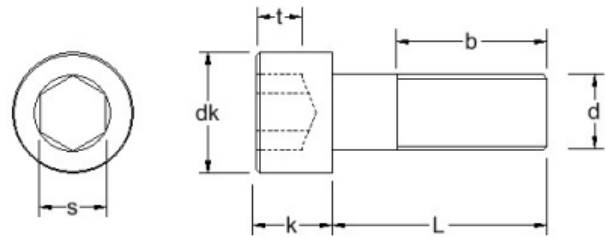
Material grades: A2: ● A4: ▲

b	1.00 - 1.50	1.00 - 1.50	1.12 - 1.71	1.12 - 1.71	1.25 - 1.94	1.25 - 1.94	1.38 - 2.17	1.38 - 2.17	1.50 - 2.38	1.50 - 2.38	1.75 - 2.82	1.75 - 2.82	2.00 - 3.25	2.00 - 3.25	2.25 - 3.69	2.25 - 3.69	2.50 - 4.12
dk (Max)	0.375	0.375	0.469	0.469	0.562	0.562	0.656	0.656	0.750	0.750	0.938	0.938	1.125	1.125	1.312	1.312	1.500
k (Max)	0.250	0.250	0.312	0.312	0.375	0.375	0.438	0.438	0.500	0.500	0.625	0.625	0.750	0.750	0.875	0.875	1.000
s	3/16	3/16	1/4	1/4	5/16	5/16	3/8	3/8	3/8	3/8	1/2	1/2	5/8	5/8	3/4	3/4	3/4
t (Min)	0.120	0.120	0.151	0.151	0.182	0.182	0.213	0.213	0.245	0.245	0.307	0.307	0.370	0.370	0.432	0.432	0.495
Length/dim	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24	7/16-14	7/16-20	1/2-13	1/2-20	5/8-11	5/8-18	3/4-10	3/4-16	7/8-9	7/8-14	1-8
3/32																	
1/8																	
5/32																	
3/16																	
7/32																	
1/4	●	●	●	●													
5/16	●	●															
3/8	●▲	●	●	●	●												
7/16	●▲																
1/2	●▲	●▲	●▲	●▲	●▲	●	●		●								
9/16	●▲																
5/8	●▲	●▲	●▲	●▲	●▲	●			●								
3/4	●▲	●▲	●▲	●▲	●▲	●▲	●		●▲	●							
7/8	●▲	●▲	●▲	●▲	●▲	●▲	●	●	●▲								
1	●▲	●▲	●▲	●▲	●▲	●▲	●	●	●▲	●	●▲	●	●				

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SOCKET CAP SCREWS ANSI B18.3

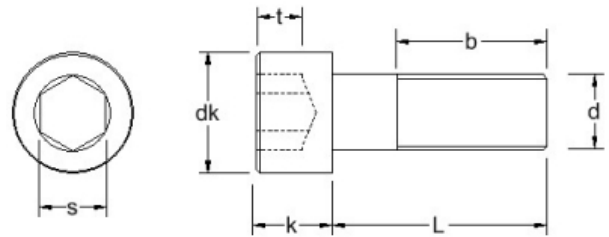


Material grades: A2: ● A4: ▲

b	0.50 - 0.99	0.62 - 0.99	0.62 - 0.99	0.62 - 0.99	0.62 - 0.99	0.62 - 0.99	0.62 - 0.99	0.75 - 0.99	0.75 - 0.99	0.75 - 1.00	0.75 - 1.05	0.75 - 1.05	0.88 - 1.19	0.88 - 1.19	0.88 - 1.27	0.88 - 1.27	0.88 - 1.27
dk (Max)	0.096	0.118	0.118	0.140	0.140	0.161	0.161	0.183	0.183	0.205	0.226	0.226	0.270	0.270	0.312	0.312	0.343
k (Max)	0.060	0.073	0.073	0.086	0.086	0.099	0.099	0.112	0.112	0.125	0.138	0.138	0.164	0.164	0.190	0.190	0.216
s	0.050	1/16	1/16	5/64	5/64	5/64	5/64	3/32	3/32	3/32	7/64	7/64	9/64	9/64	5/32	5/32	5/32
t (Min)	0.025	0.031	0.031	0.038	0.038	0.044	0.044	0.051	0.051	0.057	0.064	0.064	0.077	0.077	0.090	0.090	0.090
Length/dim	0-80	1-64	1-72	2-56	2-64	3-48	3-56	4-40	4-48	5-40	6-32	6-40	8-32	8-36	10-24	10-32	12-24
1.1/8								●		●	●▲	●	●▲		●▲	●▲	●
1.1/4				●				●		●	●▲	●	●▲		●▲	●▲	●
1.3/8								●		●	●▲		●▲		●▲	●▲	●
1.1/2				●				●		●	●▲		●▲		●	●▲	●
1.5/8																●▲	
1.3/4								●			●		●		●▲	●▲	
1.7/8																	
2								●			●		●		●▲	●▲	
2.1/4											●		●		●	●	
2.3/8																	
2.1/2											●		●		●	●	
2.3/4											●				●	●	
3											●		●		●	●	
3.1/4															●	●	
3.1/2													●		●	●	

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SOCKET CAP SCREWS ANSI B18.3



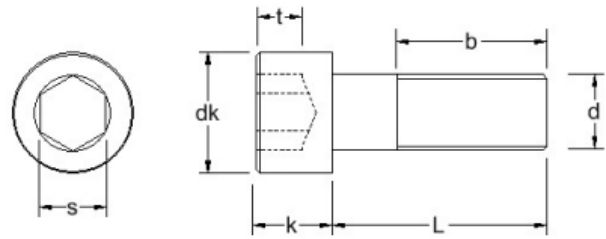
Material grades: A2: ● A4: ▲

b	1.00 - 1.50	1.00 - 1.50	1.12 - 1.71	1.12 - 1.71	1.25 - 1.94	1.25 - 1.94	1.38 - 2.17	1.38 - 2.17	1.50 - 2.38	1.50 - 2.38	1.75 - 2.82	1.75 - 2.82	2.00 - 3.25	2.00 - 3.25	2.25 - 3.69	2.25 - 3.69	2.50 - 4.12
dk (Max)	0.375	0.375	0.469	0.469	0.562	0.562	0.656	0.656	0.750	0.750	0.938	0.938	1.125	1.125	1.312	1.312	1.500
k (Max)	0.250	0.250	0.312	0.312	0.375	0.375	0.438	0.438	0.500	0.500	0.625	0.625	0.750	0.750	0.875	0.875	1.000
s	3/16	3/16	1/4	1/4	5/16	5/16	3/8	3/8	3/8	3/8	1/2	1/2	5/8	5/8	3/4	3/4	3/4
t (Min)	0.120	0.120	0.151	0.151	0.182	0.182	0.213	0.213	0.245	0.245	0.307	0.307	0.370	0.370	0.432	0.432	0.495
Length/dim	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24	7/16-14	7/16-20	1/2-13	1/2-20	5/8-11	5/8-18	3/4-10	3/4-16	7/8-9	7/8-14	1-8
1.1/8	●▲	●▲															
1.1/4	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●	●▲	●	●▲	●	●▲				
1.3/8	●▲	●▲					●▲	●	●▲	●							
1.1/2	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲	●	●▲	●			
1.5/8																	
1.3/4	●▲	●▲	●▲	●▲	●▲	●	●▲	●	●▲	●▲	●▲	●	●▲	●			
1.7/8		●▲															
2	●▲	●▲	●▲	●▲	●▲	●	●▲	●	●▲	●▲	●▲	●	●▲	●	●	●	●
2.1/4	●▲	●	●▲	●	●▲	●	●▲		●▲	●▲	●▲	●	●▲		●	●	
2.3/8	●▲																
2.1/2	●▲	●	●▲	●	●▲	●	●▲		●▲	●▲	●▲	●	●▲	●	●	●	●
2.3/4	●▲	●	●▲	●	●▲	●	●▲		●▲	●▲	●▲	●	●▲		●	●	
3	●▲	●	●▲	●	●▲	●	●▲		●▲	●▲	●▲	●	●▲	●	●	●	●
3.1/4	●▲	●	●▲	●	●▲	●			●▲	●▲	●▲	●	●▲				
3.1/2	●▲	●	●▲	●	●▲	●	●▲		●▲	●▲	●▲	●	●▲	●	●	●	●

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SOCKET CAP SCREWS ANSI B18.3

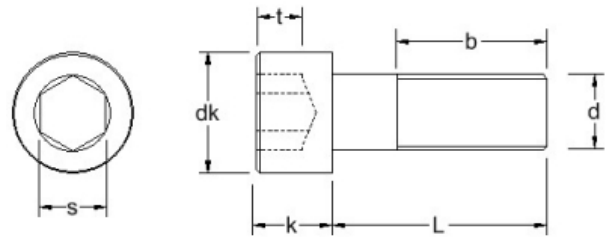


Material grades: A2: ●

b	0.50 - 0.99	0.62 - 0.99	0.62 - 0.99	0.62 - 0.99	0.62 - 0.99	0.62 - 0.99	0.62 - 0.99	0.75 - 0.99	0.75 - 0.99	0.75 - 1.00	0.75 - 1.05	0.75 - 1.05	0.88 - 1.19	0.88 - 1.19	0.88 - 1.27	0.88 - 1.27	0.88 - 1.27
dk (Max)	0.096	0.118	0.118	0.140	0.140	0.161	0.161	0.183	0.183	0.205	0.226	0.226	0.270	0.270	0.312	0.312	0.343
k (Max)	0.060	0.073	0.073	0.086	0.086	0.099	0.099	0.112	0.112	0.125	0.138	0.138	0.164	0.164	0.190	0.190	0.216
s	0.050	1/16	1/16	5/64	5/64	5/64	5/64	3/32	3/32	3/32	7/64	7/64	9/64	9/64	5/32	5/32	5/32
t (Min)	0.025	0.031	0.031	0.038	0.038	0.044	0.044	0.051	0.051	0.057	0.064	0.064	0.077	0.077	0.090	0.090	0.090
Length/dim	0-80	1-64	1-72	2-56	2-64	3-48	3-56	4-40	4-48	5-40	6-32	6-40	8-32	8-36	10-24	10-32	12-24
3.3/4																	
4													●		●	●	
4.1/2																	
5															●	●	
5.1/2																	
6															●	●	
7																	
8																	
9																	
10																	
11																	
12																	

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SOCKET CAP SCREWS ANSI B18.3



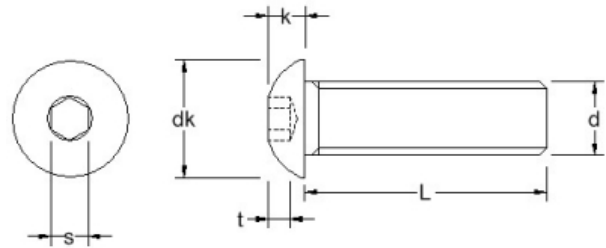
Material grades: A2: ● A4: ▲

b	1.00 - 1.50	1.00 - 1.50	1.12 - 1.71	1.12 - 1.71	1.25 - 1.94	1.25 - 1.94	1.38 - 2.17	1.38 - 2.17	1.50 - 2.38	1.50 - 2.38	1.75 - 2.82	1.75 - 2.82	2.00 - 3.25	2.00 - 3.25	2.25 - 3.69	2.25 - 3.69	2.50 - 4.12
dk (Max)	0.375	0.375	0.469	0.469	0.562	0.562	0.656	0.656	0.750	0.750	0.938	0.938	1.125	1.125	1.312	1.312	1.500
k (Max)	0.250	0.250	0.312	0.312	0.375	0.375	0.438	0.438	0.500	0.500	0.625	0.625	0.750	0.750	0.875	0.875	1.000
s	3/16	3/16	1/4	1/4	5/16	5/16	3/8	3/8	3/8	3/8	1/2	1/2	5/8	5/8	3/4	3/4	3/4
t (Min)	0.120	0.120	0.151	0.151	0.182	0.182	0.213	0.213	0.245	0.245	0.307	0.307	0.370	0.370	0.432	0.432	0.495
Length/dim	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24	7/16-14	7/16-20	1/2-13	1/2-20	5/8-11	5/8-18	3/4-10	3/4-16	7/8-9	7/8-14	1-8
3.3/4	●	●	●▲	●	●▲	●			●▲	●▲							
4	●▲	●	●▲	●	●▲	●	●▲		●▲	●▲	●▲	●	●▲	●	●	●	●
4.1/2	●▲		●▲		●▲	●			●▲	●▲	●▲	●	●▲		●	●	●
5	●▲		●▲		●▲	●			●▲	●▲	●▲	●	●▲		●	●	●
5.1/2	●▲		●▲		●▲	●			●▲	●▲	●▲		●▲		●	●	
6	●▲		●▲		●▲	●			●▲	●▲	●▲		●▲		●	●	●
7	●		●		●				●▲		●▲		●▲		●	●	●
8	●		●		●				●▲		●▲		●▲		●	●	●
9									●▲		▲		●▲				
10									●▲		▲		●▲				
11									●▲		▲		●▲				
12									●▲		▲		●▲				

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SOCKET BUTTON SCREWS ANSI B18.3



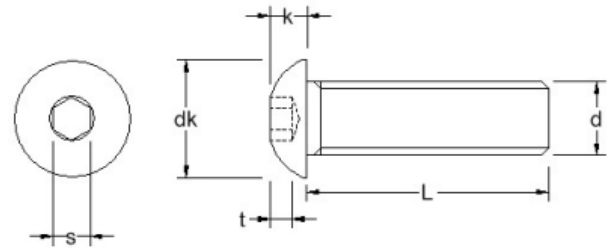
Material grades: A2: ● A4: ▲

Length/dim	0-80	2-56	4-40	5-40	6-32	8-32	10-24	10-32	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24	1/2-13	1/2-20	5/8-11
dk (Max)	0.114	0.164	0.213	0.238	0.262	0.312	0.361	0.361	0.437	0.437	0.547	0.547	0.656	0.656	0.875	0.875	1.00
k (Max)	0.032	0.046	0.059	0.066	0.073	0.087	0.101	0.101	0.132	0.132	0.166	0.166	0.199	0.199	0.265	0.265	0.331
s	0.035	0.050	1/16	5/64	5/64	3/32	1/8	1/8	5/32	5/32	3/16	3/16	7/32	7/32	5/16	5/16	3/8
t (Min)	0.020	0.028	0.035	0.044	0.044	0.052	0.070	0.070	0.087	0.087	0.105	0.105	0.122	0.122	0.175	0.175	0.210
1/8	●	●	●		●	●											
3/16	●	●	●	●	●	●		●									
1/4	●	●	●▲	●	●▲	●▲	●	●▲	●▲	●▲							
5/16		●	●▲	●	●▲	●▲	●	●▲	●▲	●							
3/8	●	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲	●	●					
7/16		●	●▲	●	●▲		●▲	●▲	●▲	●							
1/2	●	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●	●▲		●		
5/8	●	●	●	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●	●▲		●		
3/4	●	●	●	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●	●▲	●	●▲	●	
7/8		●	●		●▲	●	●▲	●▲	●▲	●	●▲	●	●▲	●			
1	●	●	●		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●	●▲	●	●▲	●	●
1.1/4			●		●	●	●	●	●▲	●	●▲	●	●▲	●	●▲	●	●
1.1/2			●		●	●	●	●	●▲	●	●▲	●	●▲	●	●▲	●	●
1.3/4					●	●	●	●	●▲	●	●▲	●	●▲		●▲	●	●
2						●	●	●	●▲	●	●▲	●	●▲		●▲	●	●
2.1/4							●		●▲	●	●▲		●▲				●

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SOCKET BUTTON SCREWS ANSI B18.3



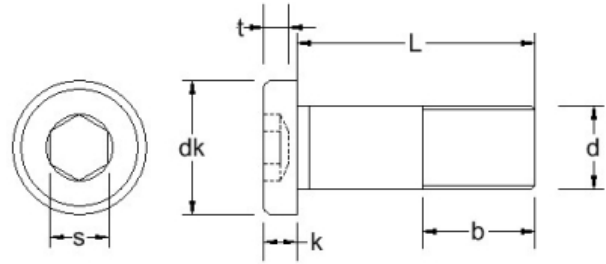
Material grades: A2: ● A4: ▲

Length/dim	0-80	2-56	4-40	5-40	6-32	8-32	10-24	10-32	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24	1/2-13	1/2-20	5/8-11
dk (Max)	0.114	0.164	0.213	0.238	0.262	0.312	0.361	0.361	0.437	0.437	0.547	0.547	0.656	0.656	0.875	0.875	1.00
k (Max)	0.032	0.046	0.059	0.066	0.073	0.087	0.101	0.101	0.132	0.132	0.166	0.166	0.199	0.199	0.265	0.265	0.331
s	0.035	0.050	1/16	5/64	5/64	3/32	1/8	1/8	5/32	5/32	3/16	3/16	7/32	7/32	5/16	5/16	3/8
t (Min)	0.020	0.028	0.035	0.044	0.044	0.052	0.070	0.070	0.087	0.087	0.105	0.105	0.122	0.122	0.175	0.175	0.210
2.1/2							●	●	●▲	●	●▲		●▲		●▲	●	●
2.3/4											●▲		●▲				
3							●	●	●▲	●	●▲		●▲		●▲	●	
3.1/2										●	●		●		●		
4										●	●		●		●		
4.1/2															●		
5													●		●		
6													●		●		

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LOW HEAD SOCKET CAP SCREWS ANSI B18.3

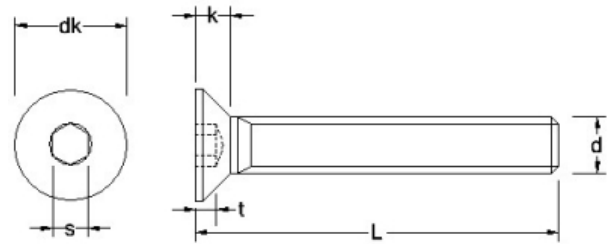


Material grades: A2: ●

b	0.75 - 1.05	0.88 - 1.19	0.88 - 1.27	0.88 - 1.27	1.00 - 1.50	1.12 - 1.71	1.25 - 1.94										
dk (Max)	0.226	0.270	0.312	0.312	0.375	0.437	0.562										
k (Max)	0.072	0.085	0.098	0.098	0.127	0.158	0.192										
s	1/16	5/64	3/32	3/32	1/8	5/32	3/16										
t (Min)	0.050	0.060	0.072	0.072	0.094	0.110	0.115										
Length/dim	6-32	8-32	10-24	10-32	1/4-20	5/16-18	3/8-16										
1/4	●	●															
3/8	●	●			●												
1/2	●	●	●	●	●	●	●										
5/8	●	●	●	●	●	●	●										
3/4	●	●	●	●	●	●	●										
1	●	●	●	●	●	●	●										
1.1/4			●	●	●	●	●										
1.1/2			●	●	●	●	●										
1.3/4					●	●	●										
2					●	●	●										

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SOCKET COUNTERSUNK SCREWS ANSI B18.3



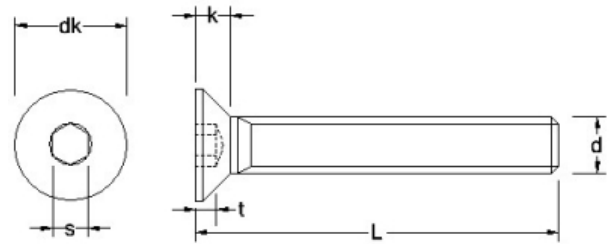
Material grades: A2: ● A4: ▲

Length/dim	0-80	1-72	2-56	4-40	5-40	6-32	6-40	8-32	10-24	10-32	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24	7/16-14
1/8	●	●	●														
3/16	●	●	●	●▲													
1/4	●	●	●	●▲	●	●▲	●	●▲	●	●							
5/16			●	●▲	●	●▲		●▲	●	●							
3/8	●	●	●	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●					
7/16	●	●	●	●▲	●	●▲		●▲	●▲	●▲	●▲	●					
1/2	●	●	●	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲	●	●		
5/8	●	●	●	●▲	●	●▲		●▲	●▲	●▲	●▲	●▲	●▲	●	●		
3/4		●	●	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲	●	●▲	●	
7/8			●	●		●		●▲	●▲	●▲	●▲	●▲	●▲	●	●▲	●	
1			●	●		●	●	●▲	●▲	●▲	●▲	●▲	●▲	●	●▲	●	●
1.1/4				●		●		●	●	●▲	●▲	●	●▲	●	●▲	●	●
1.1/2				●		●		●	●	●▲	●▲	●	●▲	●	●▲	●	●
1.3/4						●		●	●	●	●▲	●	●▲	●	●▲	●	●
2						●		●	●	●	●▲	●	●▲	●	●▲	●	●
2.1/4											●▲	●	●▲	●	●▲	●	●

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SOCKET COUNTERSUNK SCREWS ANSI B18.3

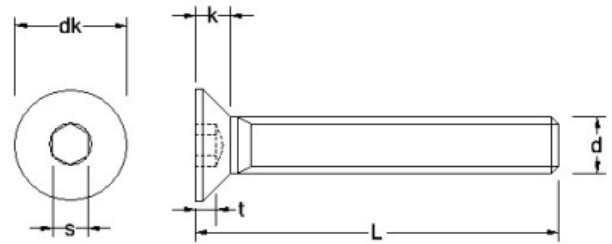


Material grades: A2: ● A4: ▲

dk (Max)	0.938	0.938	1.188	1.438	1.688													
k (Max)	0.251	0.251	0.324	0.396	0.468													
s	5/16	5/16	3/8	1/2	9/16													
t (Min)	0.172	0.172	0.220	0.220	0.248													
Length/dim	1/2-13	1/2-20	5/8-11	3/4-10	7/8-9													
1/8																		
3/16																		
1/4																		
5/16																		
3/8																		
7/16																		
1/2																		
5/8																		
3/4	●▲	●																
7/8	●▲	●																
1	●▲	●	●▲	▲														
1.1/4	●▲	●	●▲	●▲														
1.1/2	●▲	●	●▲	●▲														
1.3/4	●▲	●	●▲	●▲														
2	●▲	●	●▲	●▲														
2.1/4	●▲	●																

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SOCKET COUNTERSUNK SCREWS ANSI B18.3



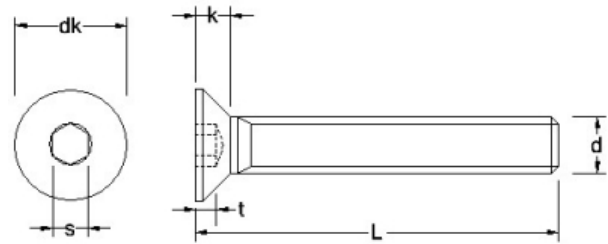
Material grades: A2: ● A4: ▲

Length/dim	0-80	1-72	2-56	4-40	5-40	6-32	6-40	8-32	10-24	10-32	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24	7/16-14
dk (Max)	0.138	0.168	0.197	0.255	0.281	0.307	0.307	0.359	0.411	0.411	0.531	0.531	0.656	0.656	0.781	0.781	0.844
k (Max)	0.044	0.054	0.064	0.083	0.090	0.097	0.097	0.112	0.127	0.127	0.161	0.161	0.198	0.198	0.234	0.234	0.234
s	0.035	0.050	0.050	1/16	5/64	5/64	5/64	3/32	1/8	1/8	5/32	5/32	3/16	3/16	7/32	7/32	1/4
t (Min)	0.025	0.031	0.038	0.055	0.061	0.066	0.066	0.076	0.087	0.087	0.111	0.111	0.135	0.135	0.159	0.159	0.159
2.1/2									●	●	●▲	●	●▲	●	●▲	●	●
2.3/4															●▲	●	●
3									●	●	●▲	●	●▲	●	●▲	●	●
3.1/2									●	●	●	●	●▲	●	●▲	●	●
4									●	●	●	●	●▲	●	●▲	●	●
4.1/2											●		●		●▲		
5											●		●		●▲		
5.1/2																	
6											●		●		●▲		
7															●		
8															●		
9															●		
10															●		

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SOCKET COUNTERSUNK SCREWS ANSI B18.3

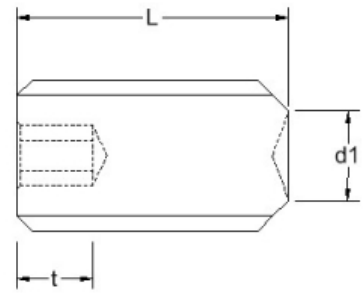
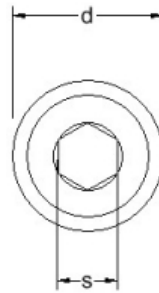


Material grades: A2: ● A4: ▲

dk (Max)	0.938	0.938	1.188	1.438	1.688														
k (Max)	0.251	0.251	0.324	0.396	0.468														
s	5/16	5/16	3/8	1/2	9/16														
t (Min)	0.172	0.172	0.220	0.220	0.248														
Length/dim	1/2-13	1/2-20	5/8-11	3/4-10	7/8-9														
2.1/2	● ▲	●	● ▲	● ▲															
2.3/4																			
3	● ▲	●	● ▲	● ▲	●														
3.1/2	● ▲		● ▲	● ▲	●														
4	● ▲		● ▲	● ▲	●														
4.1/2	●		●																
5	●		●	●	●														
5.1/2	●																		
6	●		●	●	●														
7	●																		
8	●																		
9	●																		
10	●																		

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SOCKET SET SCREWS CUP POINT ANSI B18.3



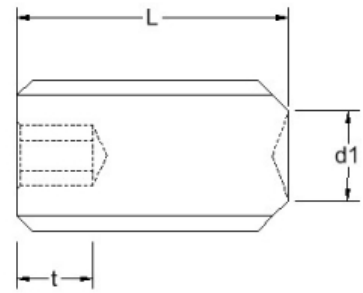
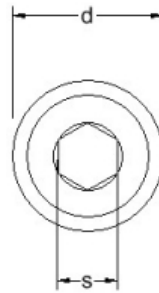
Material grades: A2: ● A4: ▲

d1 (Max)	0.033	0.040	0.047	0.054	0.054	0.061	0.061	0.067	0.074	0.074	0.087	0.087	0.102	0.102	0.132	0.132	0.172
s	0.028	0.028	0.035	0.050	0.050	0.050	0.050	1/16	1/16	1/16	5/64	5/64	3/32	3/32	1/8	1/8	5/32
t (Min)	0.050	0.060	0.060	0.070	0.070	0.070	0.070	0.080	0.080	0.080	0.090	0.090	0.100	0.100	0.125	0.125	0.156
Length/dim	0-80	1-72	2-56	3-48	3-56	4-40	4-48	5-40	6-32	6-40	8-32	8-36	10-24	10-32	1/4-20	1/4-28	5/16-18
1/16		●	●▲														
3/32	●	●	●▲	●	●	●▲	●										
1/8	●	●	●▲	●	●	●▲	●	●	●▲	●	●▲	●	●▲	●▲			
5/32	●					●▲	●										
3/16	●	●	●▲	●	●	●▲	●	●	●▲	●	●▲	●	●▲	●▲	●▲	●▲	
7/32	●																
1/4	●	●	●▲	●	●	●▲	●	●	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲
5/16	●	●	●▲	●	●	●▲	●	●	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲
3/8	●	●	●▲	●	●	●▲	●	●	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲
7/16	●		●	●	●	●▲	●	●	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲
1/2	●		●	●	●	●▲	●	●	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲
5/8			●			●▲	●	●	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲
3/4			●			●▲	●	●	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲
7/8			●			●	●	●	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲
1			●			●	●	●	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲
1.1/4						●			●▲		●▲		●▲	●▲	●▲	●	●▲
1.1/2						●			●▲		●▲		●▲	●▲	●▲	●	●▲

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SOCKET SET SCREWS CUP POINT ANSI B18.3

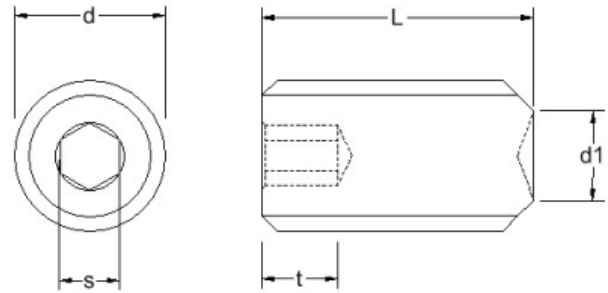


Material grades: A2: ● A4: ▲

d1 (Max)	0.172	0.212	0.212	0.252	0.252	0.291	0.291	0.371	0.450									
s	5/32	3/16	3/16	7/32	7/32	1/4	1/4	5/16	3/8									
t (Min)	0.156	0.188	0.188	0.219	0.219	0.250	0.250	0.312	0.375									
Length/dim	5/16-24	3/8-16	3/8-24	7/16-14	7/16-20	1/2-13	1/2-20	5/8-11	3/4-10									
1/16																		
3/32																		
1/8																		
5/32																		
3/16																		
7/32																		
1/4	●▲	●▲	●▲															
5/16	●▲	●▲	●▲															
3/8	●▲	●▲	●▲	●	●	●▲	●▲											
7/16	●▲	●▲	●▲	●	●													
1/2	●▲	●▲	●▲	●	●	●▲	●▲	●▲										
5/8	●▲	●▲	●▲	●	●	●▲	●▲	●▲	●▲									
3/4	●▲	●▲	●▲	●	●	●▲	●▲	●▲	●▲									
7/8	●▲	●▲	●▲	●	●	●▲	●▲	●▲										
1	●▲	●▲	●▲	●	●	●▲	●▲	●▲	●▲									
1.1/4	●	●▲	●	●	●	●▲	●▲	●▲	●▲									
1.1/2	●	●▲	●	●	●	●▲	●▲	●▲	●▲									

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SOCKET SET SCREWS CUP POINT ANSI B18.3



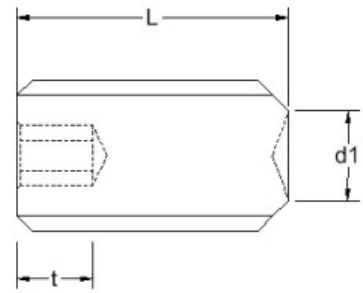
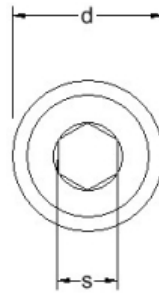
Material grades: A2: ● A4: ▲

d1 (Max)	0.033	0.040	0.047	0.054	0.054	0.061	0.061	0.067	0.074	0.074	0.087	0.087	0.102	0.102	0.132	0.132	0.172
s	0.028	0.028	0.035	0.050	0.050	0.050	0.050	1/16	1/16	1/16	5/64	5/64	3/32	3/32	1/8	1/8	5/32
t (Min)	0.050	0.060	0.060	0.070	0.070	0.070	0.070	0.080	0.080	0.080	0.090	0.090	0.100	0.100	0.125	0.125	0.156
Length/dim	0-80	1-72	2-56	3-48	3-56	4-40	4-48	5-40	6-32	6-40	8-32	8-36	10-24	10-32	1/4-20	1/4-28	5/16-18
1.3/4									●		●		●	●	●▲	●	●▲
2									●		●		●	●	●▲	●	●▲
2.1/2															●		●
3															●		●
3.1/2																	●
4																	●

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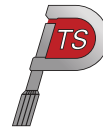
SOCKET SET SCREWS CUP POINT ANSI B18.3



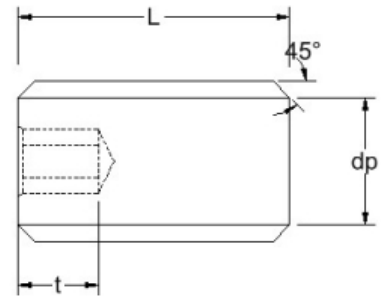
Material grades: A2: ● A4: ▲

d1 (Max)	0.172	0.212	0.212	0.252	0.252	0.291	0.291	0.371	0.450									
s	5/32	3/16	3/16	7/32	7/32	1/4	1/4	5/16	3/8									
t (Min)	0.156	0.188	0.188	0.219	0.219	0.250	0.250	0.312	0.375									
Length/dim	5/16-24	3/8-16	3/8-24	7/16-14	7/16-20	1/2-13	1/2-20	5/8-11	3/4-10									
1.3/4	●	●▲	●	●	●	●▲	●		●▲									
2	●	●▲	●	●	●	●▲	●	●▲	●▲									
2.1/2		●				●	●	●▲	●▲									
3		●				●	●	●▲	●▲									
3.1/2		●				●			●▲									
4		●				●			●▲									

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SOCKET SET SCREWS FLAT POINT ANSI B18.3



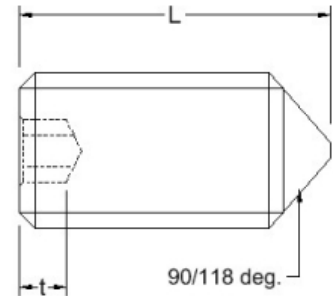
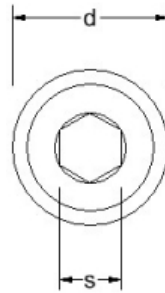
Material grades: A2: ● A4: ▲

dp(Max)	0.047	0.061	0.074	0.087	0.102	0.102	0.132	0.132	0.172	0.212						
s	0.035	0.050	1/16	5/64	3/32	3/32	1/8	1/8	5/32	3/16						
t (Min)	0.060	0.070	0.080	0.090	0.100	0.100	0.125	0.125	0.156	0.188						
Length/dim	2-56	4-40	6-32	8-32	10-24	10-32	1/4-20	1/4-28	5/16-18	3/8-16						
1/8	●	●▲	●▲	●▲												
3/16	●	●▲	●▲	●▲	●▲	●▲										
1/4	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
5/16	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●							
3/8	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●	●						
7/16		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●	●						
1/2		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●	●						
5/8			●▲	●▲	●▲	●▲	●▲	●▲	●	●						
3/4			●▲	●▲	●▲	●▲	●▲	●▲	●	●						
7/8				●	●	●	●▲	●▲		●						
1				●	●	●	●▲	●▲	●	●						
1.1/4							●		●	●						
1.1/2							●		●	●						
1.3/4										●						
2										●						

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SOCKET SET SCREWS CONE POINT ANSI B18.3

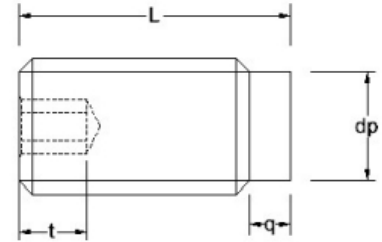


Material grades: A2: ● A4: ▲

L1 *	0.13	0.13	0.19	0.19	0.19	0.25	0.25	0.25	0.31	0.31	0.38	0.38	0.44	0.44			
s	0.035	0.050	0.050	1/16	1/16	5/64	3/32	3/32	1/8	1/8	5/32	5/32	3/16	3/16			
t (Min)	0.060	0.070	0.070	0.080	0.080	0.090	0.100	0.100	0.125	0.125	0.156	0.156	0.188	0.188			
Length/dim	2-56	3-48	4-40	5-40	6-32	8-32	10-24	10-32	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24			
1/8	●▲	●	●▲														
3/16	●▲	●	●▲	●	●▲	●▲											
1/4	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲							
5/16	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●					
3/8	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●	●▲	●			
7/16			●▲		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●	●▲	●			
1/2			●▲		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●	●▲	●			
5/8					●▲	●▲	●▲	●▲	●▲	▲	●▲	●	●▲	●			
3/4					●▲	●▲	●▲	●▲	●▲	▲	●▲	●	●▲	●			
7/8							▲	▲	●▲	▲	●▲	●	●▲	●			
1							▲	▲	●▲	▲	●▲	●	●▲	●			
1.1/4									●▲		●▲		●▲				
1.1/2									●▲		●▲		●▲				
1.3/4											▲		●▲				
2											▲		●▲				

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SOCKET SET SCREWS DOG POINT ANSI B18.3



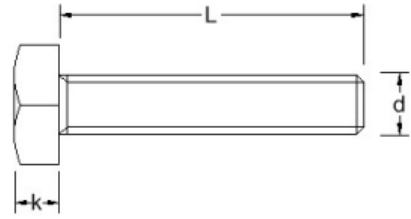
Material grades: A2: ●

dp (Max)	0.057	0.075	0.092	0.109	0.127	0.127	0.156	0.203	0.250										
q (Max)	0.024	0.030	0.038	0.043	0.049	0.049	0.067	0.082	0.099										
s	0.035	0.050	1/16	5/64	3/32	3/32	1/8	5/32	3/16										
t (Min)	0.060	0.070	0.080	0.090	0.100	0.100	0.125	0.156	0.188										
Length/dim	2-56	4-40	6-32	8-32	10-24	10-32	1/4-20	5/16-18	3/8-16										
1/8	●	●																	
3/16	●	●	●	●															
1/4	●	●	●	●	●	●	●												
5/16	●	●	●	●	●	●	●	●											
3/8	●	●	●	●	●	●	●	●	●										
7/16		●	●	●	●	●	●	●	●										
1/2		●	●	●	●	●	●	●	●										
5/8			●	●	●	●	●	●	●										
3/4			●	●	●	●	●	●	●										
7/8				●	●	●	●	●	●										
1				●	●	●	●	●	●										
1.1/4							●	●	●										
1.1/2							●	●	●										
1.3/4							●	●	●										
2							●	●	●										

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HEXAGON HEAD SET SCREWS ANSI B18.2.1



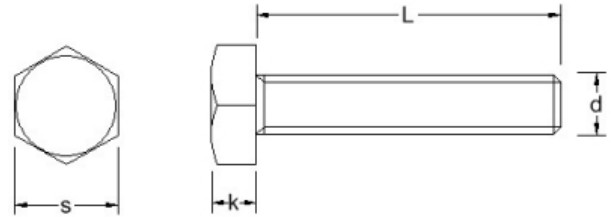
Material grades: A2: ● A4: ▲

k (Max)	0.060	0.093	0.110	0.120	0.120	0.155	0.163	0.163	0.211	0.211	0.243	0.243	0.291	0.291	0.323	0.323	0.371
s (Max)	0.188	0.250	0.250	0.312	0.312	0.312	0.438	0.438	0.500	0.500	0.562	0.562	0.625	0.625	0.750	0.750	0.812
Length/dim	4-40	6-32	8-32	10-24	10-32	12-24	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24	7/16-14	7/16-20	1/2-13	1/2-20	9/16-12
1/4	●	●	●		●												
5/16	●	●▲	●▲	●▲	●												
3/8	●	●▲	●▲	●▲	●▲		●▲	●	●		●						
7/16	●	●▲	●▲				●▲										
1/2	●	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲			●	●▲	
9/16	●	●▲	●▲														
5/8	●	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲			●		
3/4	●	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	
7/8	●	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲		●▲	●▲	●▲	
1	●	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲
1.1/8							●▲	●	●▲	●▲	●▲	●▲			●▲		
1.1/4		●▲	●▲	●▲	●▲		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲
1.1/2		●▲	●▲	●▲	●▲		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲
1.3/4			●	●	●		●▲	●▲	●▲	●▲	●▲	●▲	●▲	▲	●▲	●▲	●▲
2			●	●	●		●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲
2.1/4				●	●		●▲	●	●▲	●▲	●▲	●		●▲	●▲	●	
2.1/2				●	●		●▲	●	●▲	●▲	●▲	●	●	●▲	●▲	●	
2.3/4					●		●▲	●	●		●▲	●	●▲	●▲	●▲	●	

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HEXAGON HEAD SET SCREWS ANSI B18.2.1



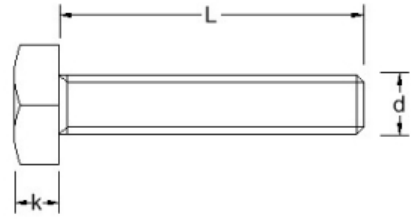
Material grades: A2: ● A4: ▲

k (Max)	0.371	0.403	0.403	0.483	0.483	0.563	0.563	0.627	0.627										
s (Max)	0.812	0.938	0.938	1.125	1.125	1.312	1.312	1.500	1.500										
Length/dim	9/16-18	5/8-11	5/8-18	3/4-10	3/4-16	7/8-9	7/8-14	1-8	1-12										
1/4																			
5/16																			
3/8																			
7/16																			
1/2																			
9/16																			
5/8																			
3/4		●▲																	
7/8																			
1	▲	●▲	●▲	●															
1.1/8																			
1.1/4	▲	●▲	●▲	●▲	▲														
1.1/2	●▲	●▲	●▲	●▲	●▲	●▲	●▲												
1.3/4	●▲	●▲	●▲	●▲	●▲	●▲	●▲	▲	▲										
2	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲										
2.1/4		●▲	▲	●▲			●▲	●▲	●▲	●▲									
2.1/2		▲	▲	●▲			●▲	●▲	●▲	●▲									
2.3/4		●▲		●▲			●▲		●▲	●▲									

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HEXAGON HEAD SET SCREWS ANSI B18.2.1

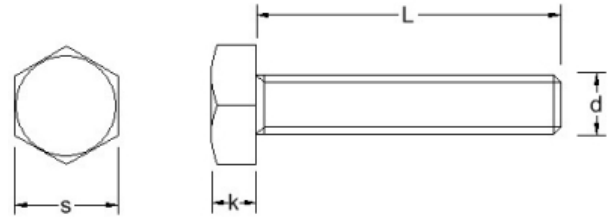


Material grades: A2: ● A4: ▲

k (Max)	0.060	0.093	0.110	0.120	0.120	0.155	0.163	0.163	0.211	0.211	0.243	0.243	0.291	0.291	0.323	0.323	0.371
s (Max)	0.188	0.250	0.250	0.312	0.312	0.312	0.438	0.438	0.500	0.500	0.562	0.562	0.625	0.625	0.750	0.750	0.812
Length/dim	4-40	6-32	8-32	10-24	10-32	12-24	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24	7/16-14	7/16-20	1/2-13	1/2-20	9/16-12
3					●		●▲	●	●▲	●	●▲	●	●▲	●▲	●▲	●	
3.1/4									●▲		●▲				●▲	●	
3.1/2							●▲		●▲		●▲		●▲	●	●▲	●	
3.3/4									●▲								
4							●▲		●▲		●▲		●▲	●	●▲	●	
4.1/2							●▲		●▲		●▲				●▲	●	
5							●▲		●▲		●▲		●▲		●▲	●	
5.1/2															●▲	●	
6							●▲		●▲		●▲				●▲	●	
7									▲		●▲				●▲		
8									▲		●▲				●▲		
9											●				●		
10															●		
11															●		
12															●		

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HEXAGON HEAD SET SCREWS ANSI B18.2.1



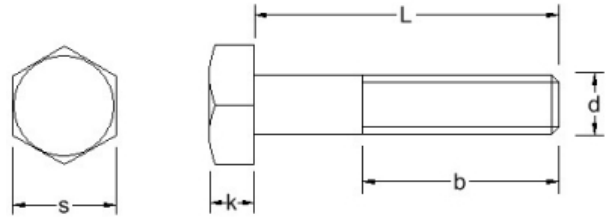
Material grades: A2: ● A4: ▲

k (Max)	0.371	0.403	0.403	0.483	0.483	0.563	0.563	0.627	0.627									
s (Max)	0.812	0.938	0.938	1.125	1.125	1.312	1.312	1.500	1.500									
Length/dim	9/16-18	5/8-11	5/8-18	3/4-10	3/4-16	7/8-9	7/8-14	1-8	1-12									
3		●▲		●▲		●▲		●▲	●▲									
3.1/4								●▲	●▲									
3.1/2		●▲		●▲		●▲		●▲	●▲									
3.3/4																		
4		●▲		●▲		●▲		●▲										
4.1/2		●▲		●▲		●▲		●▲										
5		●▲		●▲		●▲		●▲										
5.1/2				●▲		●▲												
6		●▲		●▲		●▲		●▲										
7		●▲		●▲		●		●										
8		●▲		●▲		●		●										
9		●		●		●		●										
10		●		●		●		●										
11		●		●		●		●										
12		●		●		●		●										

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HEXAGON HEAD BOLTS ANSI B18.2.1



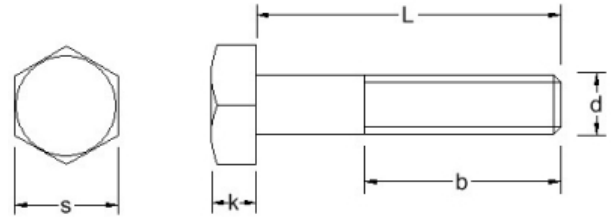
Material grades: A2: ● A4: ▲

k (Max)	0.163	0.163	0.211	0.211	0.243	0.243	0.291	0.291	0.323	0.323	0.371	0.371	0.403	0.403	0.483	0.483	0.563
s (Max)	0.438	0.438	0.500	0.500	0.562	0.562	0.625	0.625	0.750	0.750	0.812	0.812	0.938	0.938	1.125	1.125	1.312
Length/dim	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24	7/16-14	7/16-20	1/2-13	1/2-20	9/16-12	9/16-18	5/8-11	5/8-18	3/4-10	3/4-16	7/8-9
1.1/4	●▲	●▲															
1.3/8	●▲	●▲															
1.1/2	●▲	●▲	●▲	●▲	●▲	●▲											
1.5/8	●▲	●▲															
1.3/4	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲							
2	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●		▲			
2.1/4	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●	●▲	●▲			
2.1/2	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲	●	●▲
2.3/4	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲	●	●▲
3	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲	●	●▲
3.1/4	●▲	●▲	●▲	●▲	●▲		●▲	●▲	●▲	●▲			●▲		●▲	●	●▲
3.1/2	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲	●	●▲
3.3/4	●▲	●▲	●▲		●▲	●▲			●▲	●▲			●▲	●▲	●▲	●	
4	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲	●	●▲
4.1/4															●▲		
4.1/2	●▲	●▲	●▲	●	●▲	●	●▲	▲	●▲	●▲	●		●▲	●	●▲	●	●▲
5	●▲	●	●▲	●	●▲	●	●▲		●▲	●▲	●		●▲	●	●▲	●	●▲
5.1/2	●▲	●	●▲	●	●▲	●	●▲		●▲	●			●▲	●	●▲	●	●▲

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HEXAGON HEAD BOLTS ANSI B18.2.1



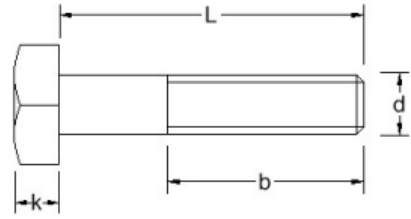
Material grades: A2: ● A4: ▲

k (Max)	0.563	0.627																		
s (Max)	1.312	1.500																		
Length/dim	7/8-14	1-8																		
1.1/4																				
1.3/8																				
1.1/2																				
1.5/8																				
1.3/4																				
2																				
2.1/4																				
2.1/2	●	●▲																		
2.3/4	●	●▲																		
3	●	●▲																		
3.1/4	●	●▲																		
3.1/2	●	●▲																		
3.3/4	●	●▲																		
4	●	●▲																		
4.1/4																				
4.1/2	●	●▲																		
5	●	●▲																		
5.1/2	●	●▲																		

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HEXAGON HEAD BOLTS ANSI B18.2.1

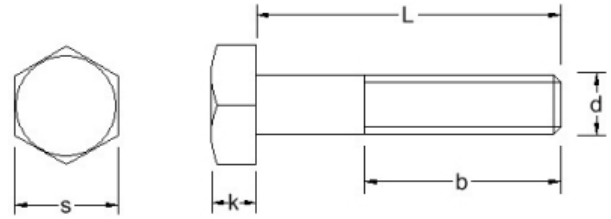


Material grades: A2: ● A4: ▲

k (Max)	0.163	0.163	0.211	0.211	0.243	0.243	0.291	0.291	0.323	0.323	0.371	0.371	0.403	0.403	0.483	0.483	0.563
s (Max)	0.438	0.438	0.500	0.500	0.562	0.562	0.625	0.625	0.750	0.750	0.812	0.812	0.938	0.938	1.125	1.125	1.312
Length/dim	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24	7/16-14	7/16-20	1/2-13	1/2-20	9/16-12	9/16-18	5/8-11	5/8-18	3/4-10	3/4-16	7/8-9
6	●▲	●	●▲	●	●▲	●	●▲		●▲	●			●▲	●	●▲	●	●▲
6.1/2					●▲				▲				●▲		●▲		
7	●▲		●▲		●▲				●▲				●▲		●▲		●▲
7.1/2					●▲				●▲								
8	●▲		●▲		●▲				●▲				●▲		●▲		●▲
8.1/2					●▲				●▲								
9	●▲		●▲		●▲				●▲				●▲		●▲		●▲
10	●▲		●▲		●▲				●▲				●▲		●▲		●▲
11	●		●		●				●▲				●▲		●▲		●▲
12	●		●		●				●▲				●▲		●▲		●▲
14					●				●▲				●▲		●▲		●▲
16					●				●				●▲		●▲		●
18									●				●		●▲		●
20									●				●		●		●

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HEXAGON HEAD BOLTS ANSI B18.2.1



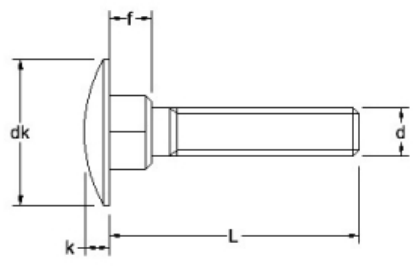
Material grades: A2: ● A4: ▲

k (Max)	0.563	0.627																		
s (Max)	1.312	1.500																		
Length/dim	7/8-14	1-8																		
6	●	●▲																		
6.1/2		●▲																		
7		●▲																		
7.1/2																				
8		●▲																		
8.1/2																				
9		●▲																		
10		●▲																		
11		●▲																		
12		●▲																		
14		●▲																		
16		●																		
18		●																		
20																				

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CARRIAGE BOLTS FULL THREAD ANSI B18.5

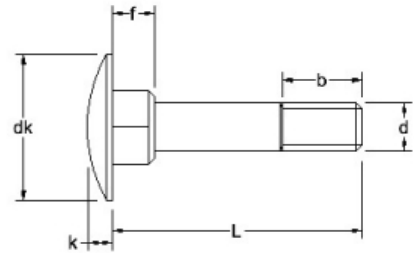
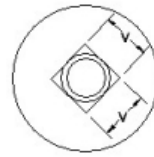


Material grades: A2: ●

dk (Max)	0.594	0.719	0.844	1.094	1.344	1.594												
f (Max)	0.156	0.187	0.219	0.281	0.344	0.406												
k (Max)	0.145	0.176	0.208	0.270	0.344	0.406												
v (Max)	0.260	0.324	0.388	0.515	0.642	0.768												
Length/dim	1/4-20	5/16-18	3/8-16	1/2-13	5/8-11	3/4-10												
1	●	●																
1.1/4	●	●																
1.1/2	●	●	●	●	●													
2	●	●	●	●	●	●												
2.1/4		●																
2.1/2	●	●	●	●	●	●												
2.3/4		●																
3	●	●	●	●	●	●												
3.1/2	●	●	●	●	●	●												
4	●	●	●	●	●	●												

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CARRIAGE BOLTS ANSI B18.5



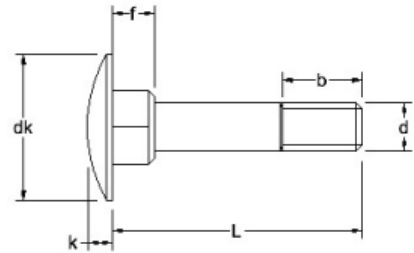
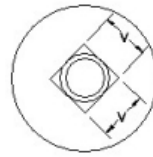
Material grades: A2: ●

dk (Max)	0.594	0.719	0.844	1.094	1.344	1.594													
f (Max)	0.156	0.187	0.219	0.281	0.344	0.406													
k (Max)	0.145	0.176	0.208	0.270	0.344	0.406													
v (Max)	0.260	0.324	0.388	0.515	0.642	0.768													
Length/dim	1/4-20	5/16-18	3/8-16	1/2-13	5/8-11	3/4-10													
4.1/2	●	●	●	●	●	●													
5	●	●	●	●	●	●													
5.1/2	●	●	●	●	●														
6	●	●	●	●	●	●													
6.1/2	●	●	●	●	●														
7	●	●	●	●	●	●													
7.1/2		●	●	●	●														
8	●	●	●	●	●	●													
8.1/2		●	●	●	●														
9	●	●	●	●	●	●													
9.1/2		●	●	●															
10	●	●	●	●	●	●													
11		●	●	●															
12		●	●	●	●	●													
14		●	●	●	●	●													
16			●	●	●	●													

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CARRIAGE BOLTS ANSI B18.5

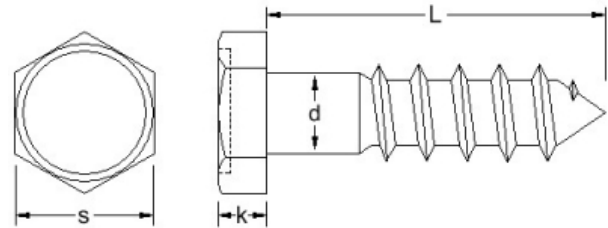
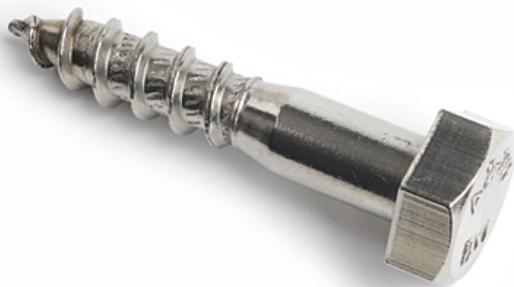


Material grades: A2: ●

dk (Max)	0.594	0.719	0.844	1.094	1.344	1.594												
f (Max)	0.156	0.187	0.219	0.281	0.344	0.406												
k (Max)	0.145	0.176	0.208	0.270	0.344	0.406												
v (Max)	0.260	0.324	0.388	0.515	0.642	0.768												
Length/dim	1/4-20	5/16-18	3/8-16	1/2-13	5/8-11	3/4-10												
18			●	●	●	●												

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HEXAGON HEAD COACH SCREWS ANSI B18.2.1



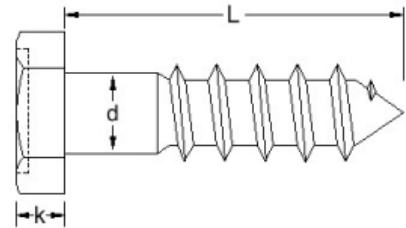
Material grades: A2: ●

d (Max)	0.260	0.324	0.388	0.515	0.642	0.768											
k (Max)	0.188	0.235	0.268	0.364	0.444	0.524											
s (Max)	0.375	0.500	0.562	0.750	0.938	1.125											
TPI	10	9	7	6	5	4.1/2											
Length/dim	1/4	5/16	3/8	1/2	5/8	3/4											
2	●	●	●	●	●	●											
2.1/2	●	●	●	●	●	●											
3	●	●	●	●	●	●											
3.1/2	●	●	●	●	●	●											
4	●	●	●	●	●	●											
5	●	●	●	●	●	●											
6	●	●	●	●	●	●											
6.1/2	●	●	●	●	●	●											
7	●	●	●	●	●	●											
7.1/2			●	●	●												
8	●	●	●	●	●	●											
8.1/2			●	●	●												
9			●	●	●	●											
10	●	●	●	●	●	●											
11				●	●												
12			●	●	●	●											

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HEXAGON HEAD COACH SCREWS ANSI B18.2.1

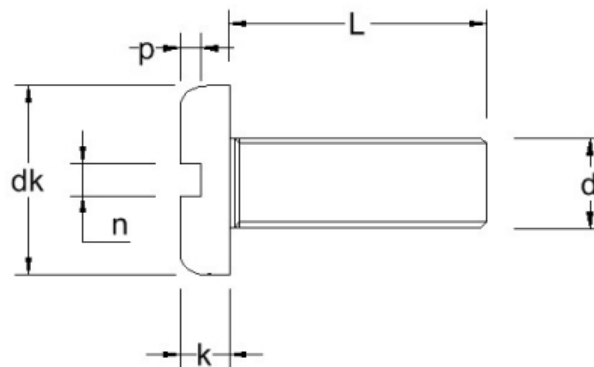


Material grades: A2: ●

d (Max)	0.260	0.324	0.388	0.515	0.642	0.768													
k (Max)	0.188	0.235	0.268	0.364	0.444	0.524													
s (Max)	0.375	0.500	0.562	0.750	0.938	1.125													
TPI	10	9	7	6	5	4.1/2													
Length/dim	1/4	5/16	3/8	1/2	5/8	3/4													
14			●	●	●	●													
16				●															

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SLOT PAN MACHINE SCREWS ANSI B18.6.3



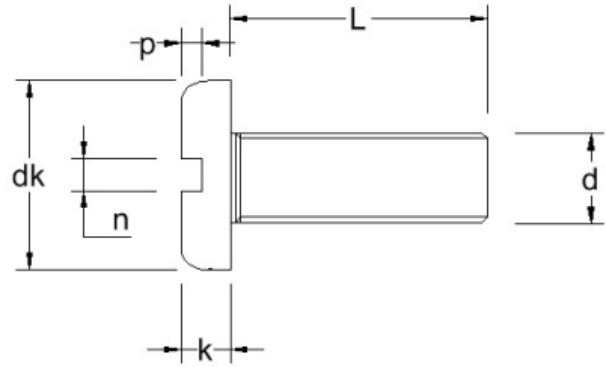
Material grades: A2: ● A4: ▲

dk (Max)	0.116	0.142	0.142	0.167	0.193	0.219	0.219	0.245	0.270	0.322	0.373	0.373	0.425	0.492	0.492	0.615	0.740
k (Max)	0.039	0.046	0.046	0.053	0.060	0.068	0.068	0.075	0.082	0.096	0.110	0.110	0.125	0.144	0.144	0.178	0.212
n (Max)	0.023	0.026	0.026	0.031	0.035	0.039	0.039	0.043	0.048	0.054	0.060	0.060	0.067	0.075	0.075	0.084	0.094
p (Max)	0.022	0.027	0.027	0.031	0.036	0.040	0.040	0.045	0.050	0.058	0.068	0.068	0.077	0.087	0.087	0.106	0.124
Length/dim	0-80	1-64	1-72	2-56	3-48	4-40	4-48	5-40	6-32	8-32	10-24	10-32	12-24	1/4-20	1/4-28	5/16-18	3/8-16
1/8	●	●	●	●	●	●▲	●		●▲								
3/16	●	●	●	●	●	●▲	●	●	●▲	●▲	●▲	●▲					
1/4	●	●	●	●	●	●▲	●	●	●▲	●▲	●▲	●▲	●	●▲	●		
5/16	●	●	●	●	●	●▲	●	●	●▲	●▲	●▲	●▲	●	●▲	●		
3/8	●	●	●	●	●	●▲	●	●	●▲	●▲	●▲	●▲	●	●▲	●	●▲	
7/16	●	●	●	●	●	●▲	●	●	●▲	●▲	●▲	●▲	●	●▲	●		
1/2	●	●	●	●	●	●▲	●	●	●▲	●▲	●▲	●▲	●	●▲	●	●▲	●▲
9/16	●	●	●	●		●▲	●	●	●▲	●▲							
5/8	●	●	●	●	●	●▲	●	●	●▲	●▲	●▲	●▲	●	●▲	●	●▲	●▲
3/4	●	●	●	●	●	●▲	●	●	●▲	●▲	●▲	●▲	●	●▲	●	●▲	●▲
7/8	●	●	●	●	●	●▲	●	●	●▲	●▲	●▲	●▲	●	●▲	●	●▲	●▲
1	●	●	●	●	●	●▲	●	●	●▲	●▲	●▲	●▲	●	●▲	●	●▲	●▲
1.1/8						●											
1.1/4				●	●	●		●	●▲	●▲	●	●	●	●▲	●	●	●
1.1/2				●	●	●		●	●▲	●▲	●	●	●	●▲	●	●	●
1.3/4						●			●▲	●▲	●	●	●	●▲	●	●	●

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SLOT PAN MACHINE SCREWS ANSI B18.6.3

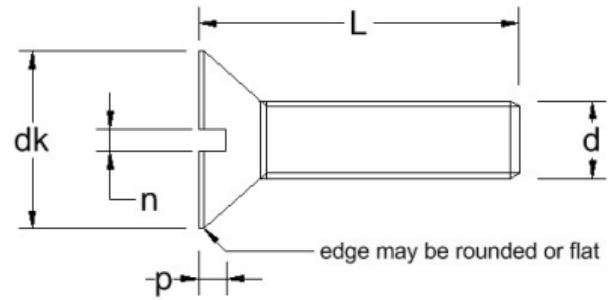


Material grades: A2: ● A4: ▲

dk (Max)	0.116	0.142	0.142	0.167	0.193	0.219	0.219	0.245	0.270	0.322	0.373	0.373	0.425	0.492	0.492	0.615	0.740
k (Max)	0.039	0.046	0.046	0.053	0.060	0.068	0.068	0.075	0.082	0.096	0.110	0.110	0.125	0.144	0.144	0.178	0.212
n (Max)	0.023	0.026	0.026	0.031	0.035	0.039	0.039	0.043	0.048	0.054	0.060	0.060	0.067	0.075	0.075	0.084	0.094
p (Max)	0.022	0.027	0.027	0.031	0.036	0.040	0.040	0.045	0.050	0.058	0.068	0.068	0.077	0.087	0.087	0.106	0.124
Length/dim	0-80	1-64	1-72	2-56	3-48	4-40	4-48	5-40	6-32	8-32	10-24	10-32	12-24	1/4-20	1/4-28	5/16-18	3/8-16
2						●			●▲	●▲	●	●	●	●▲	●	●	●
2.1/4									●	●	●	●					
2.1/2									●	●	●	●	●	●			●
2.3/4									●	●	●	●					●
3									●	●	●	●	●	●			●
3.1/2														●			●
4														●			●
4.1/2																	●
5																	●
6																	●

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SLOT COUNTERSUNK MACHINE SCREWS ANSI B18.6.3



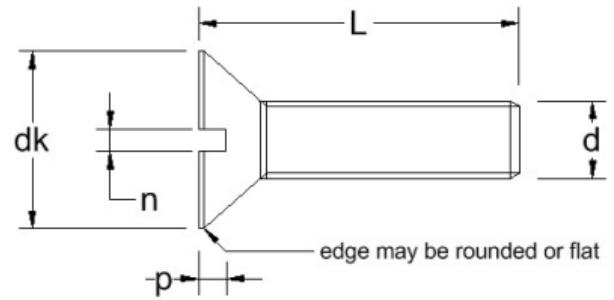
Material grades: A2: ● A4: ▲

dk (Max)	0.112	0.137	0.137	0.162	0.162	0.212	0.237	0.262	0.262	0.312	0.362	0.362	0.412	0.477	0.477	0.597	0.597
k	0.035	0.043	0.043	0.051	0.051	0.067	0.075	0.083	0.083	0.100	0.116	0.116	0.132	0.153	0.153	0.191	0.191
L1	1/8	1/8	1/8	1/8	1/8	3/16	3/16	3/16	3/16	1/4	5/16	5/16	3/8	7/16	7/16	1/2	1/2
n (Max)	0.023	0.026	0.026	0.031	0.031	0.039	0.043	0.048	0.048	0.054	0.060	0.060	0.067	0.075	0.075	0.084	0.084
t (Max)	0.015	0.019	0.019	0.023	0.023	0.030	0.034	0.038	0.038	0.045	0.053	0.053	0.060	0.070	0.070	0.088	0.088
Length/dim	0-80	1-64	1-72	2-56	2-64	4-40	5-40	6-32	6-40	8-32	10-24	10-32	12-24	1/4-20	1/4-28	5/16-18	5/16-24
3/32	●																
1/8	●	●	●	●	●	●▲		●▲	●								
5/32	●	●	●	●	●												
3/16	●	●	●	●	●	●▲	●	●▲		●▲	●▲	●▲					
1/4	●	●	●	●	●	●▲	●	●▲	●	●▲	●▲	●▲	●	●▲	●▲		
5/16	●	●	●	●	●	●▲	●	●▲	●	●▲	●▲	●▲	●	●▲	●▲		
3/8	●	●	●	●	●	●▲	●	●▲	●	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲
7/16	●	●	●	●	●		●	●▲	●	●▲	●▲	●▲	●	●▲	●▲		
1/2	●	●	●	●	●	●▲	●	●▲	●	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲
9/16	●	●	●	●	●	●▲	●	●▲	●	●▲							
5/8	●	●	●	●	●	●▲	●	●▲	●	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲
3/4	●	●	●	●	●	●▲	●	●▲	●	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲
7/8	●	●	●	●	●	●▲	●	●▲	●	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲
1	●	●	●	●	●	●▲	●	●▲	●	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲
1.1/4				●	●	●▲	●	●▲	●	●▲	●▲	●▲	●	●▲	●	●▲	●

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SLOT COUNTERSUNK MACHINE SCREWS ANSI B18.6.3

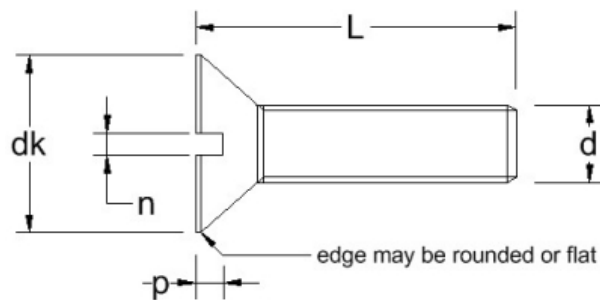


Material grades: A2: ● A4: ▲

dk (Max)	0.717	0.815	1.050																
k	0.230	0.223	0.298																
L1	9/16	3/4	*																
n (Max)	0.094	0.106	0.133																
t (Max)	0.106	0.103	0.137																
Length/dim	3/8-16	1/2-13	5/8-11																
3/32																			
1/8																			
5/32																			
3/16																			
1/4																			
5/16																			
3/8																			
7/16																			
1/2	● ▲																		
9/16																			
5/8	● ▲	● ▲																	
3/4	● ▲	● ▲																	
7/8	● ▲	● ▲																	
1	● ▲	● ▲	● ▲																
1.1/4	● ▲	● ▲	● ▲																

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SLOT COUNTERSUNK MACHINE SCREWS ANSI B18.6.3



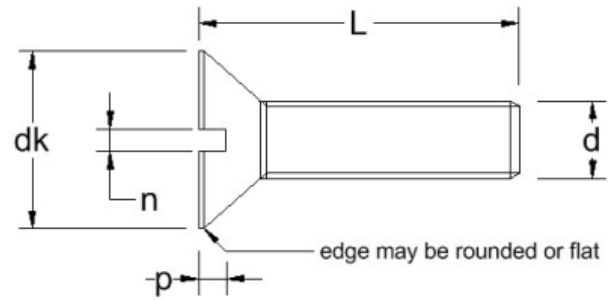
Material grades: A2: ● A4: ▲

dk (Max)	0.112	0.137	0.137	0.162	0.162	0.212	0.237	0.262	0.262	0.312	0.362	0.362	0.412	0.477	0.477	0.597	0.597
k	0.035	0.043	0.043	0.051	0.051	0.067	0.075	0.083	0.083	0.100	0.116	0.116	0.132	0.153	0.153	0.191	0.191
L1	1/8	1/8	1/8	1/8	1/8	3/16	3/16	3/16	3/16	1/4	5/16	5/16	3/8	7/16	7/16	1/2	1/2
n (Max)	0.023	0.026	0.026	0.031	0.031	0.039	0.043	0.048	0.048	0.054	0.060	0.060	0.067	0.075	0.075	0.084	0.084
t (Max)	0.015	0.019	0.019	0.023	0.023	0.030	0.034	0.038	0.038	0.045	0.053	0.053	0.060	0.070	0.070	0.088	0.088
Length/dim	0-80	1-64	1-72	2-56	2-64	4-40	5-40	6-32	6-40	8-32	10-24	10-32	12-24	1/4-20	1/4-28	5/16-18	5/16-24
1.1/2				●	●	●▲	●	●▲	●	●▲	●▲	●▲	●	●▲	●	●▲	●
1.3/4						●▲		●▲	●	●▲	●▲	●▲	●	●▲	●	●▲	●
2						●▲		●▲	●	●▲	●▲	●▲	●	●▲	●	●▲	●
2.1/4								●▲		●▲	●▲	●▲		●▲			
2.1/2								●▲		●▲	●▲	●▲	●	●▲		●▲	
2.3/4								●▲		●▲	●▲	●▲					
3								●▲		●▲	●▲	●▲	●	●▲		●▲	
3.1/2														●▲		●▲	
4														●▲		●▲	
4.1/2																●▲	
5																●▲	
6																●▲	

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SLOT COUNTERSUNK MACHINE SCREWS ANSI B18.6.3

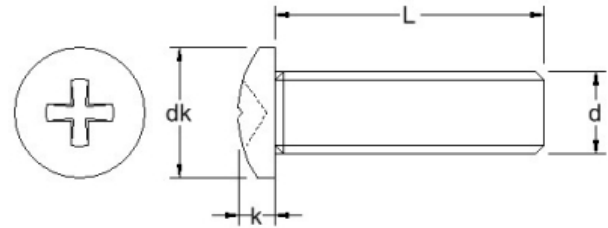


Material grades: A2: ● A4: ▲

dk (Max)	0.717	0.815	1.050																
k	0.230	0.223	0.298																
L1	9/16	3/4	*																
n (Max)	0.094	0.106	0.133																
t (Max)	0.106	0.103	0.137																
Length/dim	3/8-16	1/2-13	5/8-11																
1.1/2	●▲	●▲	●▲																
1.3/4	●▲	●▲	●▲																
2	●▲	●▲	●▲																
2.1/4	●▲	●▲	●▲																
2.1/2	●▲	●▲	●▲																
2.3/4																			
3	●▲	●▲	●▲																
3.1/2	●▲	●▲	●▲																
4	●▲	●▲	●▲																
4.1/2																			
5	●▲	●▲	●▲																
6	●▲	●▲	●▲																

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PHILLIPS PAN MACHINE SCREWS ANSI B18.6.3

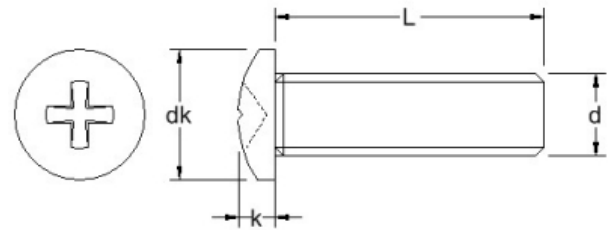


Material grades: A2: ● A4: ▲

Drive	#0	#0	#0	#1	#1	#1	#1	#1	#2	#2	#2	#2	#2	#3	#3	#3	#4
dk (Max)	0.116	0.142	0.142	0.167	0.193	0.193	0.219	0.219	0.245	0.270	0.322	0.373	0.373	0.425	0.492	0.492	0.615
k (Max)	0.044	0.053	0.053	0.062	0.071	0.071	0.080	0.080	0.089	0.097	0.115	0.133	0.133	0.151	0.175	0.175	0.218
Length/dim	0-80	1-64	1-72	2-56	3-48	3-56	4-40	4-48	5-40	6-32	8-32	10-24	10-32	12-24	1/4-20	1/4-28	5/16-18
1/8	●	●	●	●▲	●▲	●	●▲	●	●▲	●▲							
5/32				●▲			●▲	●									
3/16	●	●	●	●▲	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲				
1/4	●	●	●	●▲	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲				
5/16	●	●	●	●▲	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●	●▲	●▲	
3/8	●	●	●	●▲	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲
7/16	●	●	●	●▲	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲
1/2	●	●	●	●▲	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲
9/16				●▲			●▲	●		●▲	●▲	●▲	●▲				
5/8	●	●	●	●▲	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲
3/4	●	●	●	●▲	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲
7/8	●	●	●	●▲	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲
1	●	●	●	●▲	●▲	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲
1.1/8				●▲			●▲			●▲	●▲	●▲	●▲		●▲	●	
1.1/4				●▲			●▲		●▲	●▲	●▲	●▲	●▲	●	●▲	●	●▲
1.3/8											●▲	●▲	●▲				
1.1/2				●▲			●▲		●▲	●▲	●▲	●▲	●▲	●	●▲	●	●▲

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PHILLIPS PAN MACHINE SCREWS ANSI B18.6.3

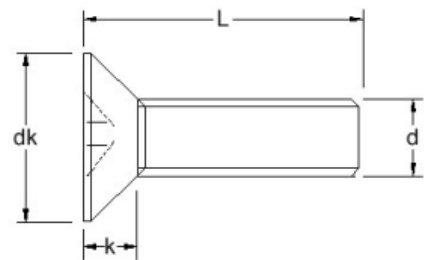


Material grades: A2: ● A4: ▲

Drive	#0	#0	#0	#1	#1	#1	#1	#1	#2	#2	#2	#2	#2	#3	#3	#3	#4
dk (Max)	0.116	0.142	0.142	0.167	0.193	0.193	0.219	0.219	0.245	0.270	0.322	0.373	0.373	0.425	0.492	0.492	0.615
k (Max)	0.044	0.053	0.053	0.062	0.071	0.071	0.080	0.080	0.089	0.097	0.115	0.133	0.133	0.151	0.175	0.175	0.218
Length/dim	0-80	1-64	1-72	2-56	3-48	3-56	4-40	4-48	5-40	6-32	8-32	10-24	10-32	12-24	1/4-20	1/4-28	5/16-18
1.5/8												●▲	●▲				
1.3/4							●▲		●▲	●▲	●▲	●▲	●▲	●	●▲	●	●▲
2							●▲		●▲	●▲	●▲	●▲	●▲	●	●▲	●	●▲
2.1/4										●▲	●▲	●▲	●▲		●▲	●	●▲
2.1/2							●▲			●▲	●▲	●▲	●▲	●	●▲	●	●▲
2.3/4										●▲	●▲	●▲	●▲		●▲	●	●▲
3							●▲			●▲	●▲	●▲	●▲	●	●▲	●	●▲
3.1/4												●▲					
3.1/2											●▲	●▲	●▲		●		●▲
4											●▲	●▲	●▲		●		●▲
4.1/2															●		●
5															●		●
6															●		●

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PHILLIPS COUNTERSUNK MACHINE SCREWS ANSI B18.6.3

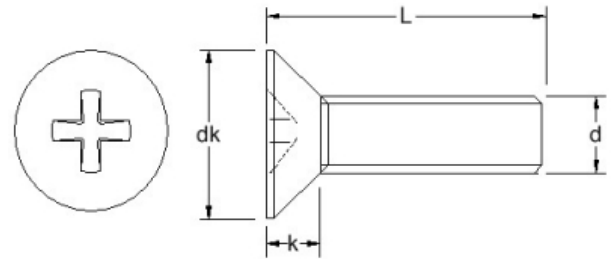


Material grades: A2: ● A4: ▲

Drive	#0	#0	#0	#1	#1	#1	#1	#1	#2	#2	#2	#2	#2	#3	#3	#3	#4
dk (Max)	0.112	0.137	0.137	0.162	0.187	0.187	0.212	0.212	0.237	0.262	0.312	0.362	0.362	0.412	0.477	0.477	0.597
k	0.035	0.043	0.043	0.051	0.059	0.059	0.067	0.067	0.075	0.083	0.100	0.116	0.116	0.132	0.153	0.153	0.191
L1	1/8	1/8	1/8	1/8	1/8	1/8	3/16	3/16	3/16	3/16	1/4	5/16	5/16	3/8	7/16	7/16	1/2
Length/dim	0-80	1-64	1-72	2-56	3-48	3-56	4-40	4-48	5-40	6-32	8-32	10-24	10-32	12-24	1/4-20	1/4-28	5/16-18
1/8	●	●	●	●▲			●▲	●									
5/32				●▲													
3/16	●	●	●	●▲	●	●	●▲	●	●	●▲							
1/4	●	●	●	●▲	●	●	●▲	●	●	●▲	●▲	●▲	●▲				
5/16	●	●	●	●▲	●	●	●▲	●	●	●▲	●▲	●▲	●▲	●			
3/8	●	●	●	●▲	●	●	●▲	●	●	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲
7/16	●	●	●	●▲	●		●▲	●	●	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲
1/2	●	●	●	●▲	●	●	●▲	●	●	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲
9/16	●	●	●	●▲			●▲	●		●▲							
5/8	●	●	●	●▲	●	●	●▲	●	●	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲
3/4	●	●	●	●▲	●	●	●▲	●	●	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲
7/8		●	●	●▲	●	●	●▲	●	●	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲
1		●	●	●▲	●	●	●▲	●	●	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲
1.1/8				●▲													
1.1/4				●▲	●		●▲	●	●	●▲	●▲	●▲	●▲	●	●▲	●	●▲
1.1/2				●▲	●		●▲	●	●	●▲	●▲	●▲	●▲	●	●▲	●	●▲

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PHILLIPS COUNTERSUNK MACHINE SCREWS ANSI B18.6.3

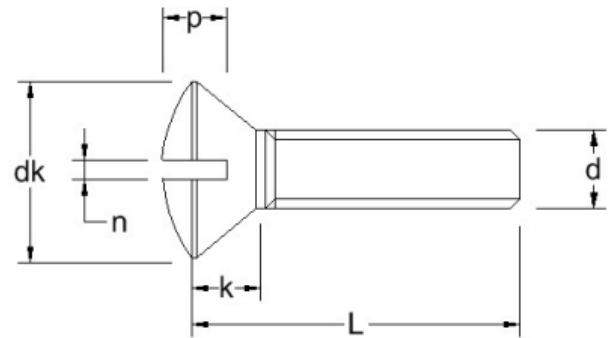


Material grades: A2: ● A4: ▲

Drive	#0	#0	#0	#1	#1	#1	#1	#1	#2	#2	#2	#2	#2	#3	#3	#3	#4
dk (Max)	0.112	0.137	0.137	0.162	0.187	0.187	0.212	0.212	0.237	0.262	0.312	0.362	0.362	0.412	0.477	0.477	0.597
k	0.035	0.043	0.043	0.051	0.059	0.059	0.067	0.067	0.075	0.083	0.100	0.116	0.116	0.132	0.153	0.153	0.191
L1	1/8	1/8	1/8	1/8	1/8	1/8	3/16	3/16	3/16	3/16	1/4	5/16	5/16	3/8	7/16	7/16	1/2
Length/dim	0-80	1-64	1-72	2-56	3-48	3-56	4-40	4-48	5-40	6-32	8-32	10-24	10-32	12-24	1/4-20	1/4-28	5/16-18
1.3/4							●▲	●	●	●▲	●▲	●▲	●▲	●	●▲	●	●▲
2							●▲	●	●	●▲	●▲	●▲	●▲	●	●▲	●	●▲
2.1/4															●▲	●	●▲
2.1/2										●▲	●▲	●▲	●▲	●	●▲	●	●▲
2.3/4															●▲	●	
3										●▲	●▲	●▲	●▲	●	●▲	●	●▲
3.1/2											●▲	●▲	●▲		●▲		●▲
4											●▲	●▲	●▲		●▲		●▲
5															●▲		●▲
6																	●▲

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SLOT RAISED COUNTERSUNK MACHINE SCREWS ANSI B18.6.3



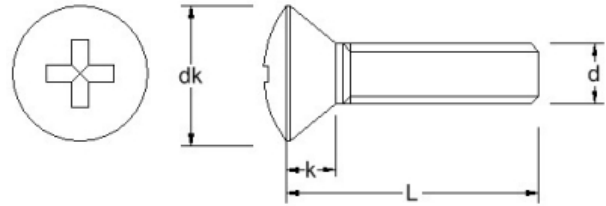
Material grades: A2: ●

dk	0.162	0.212	0.237	0.262	0.312	0.362	0.362	0.477									
k (Max)	0.080	0.104	0.116	0.128	0.152	0.176	0.176	0.232									
n (Max)	0.031	0.039	0.043	0.048	0.054	0.060	0.060	0.075									
p (Max)	0.045	0.059	0.067	0.074	0.088	0.103	0.103	0.136									
Length/dim	2-56	4-40	5-40	6-32	8-32	10-24	10-32	1/4-20									
3/16	●																
1/4	●	●	●	●													
5/16	●	●	●	●	●	●	●										
3/8	●	●	●	●	●	●	●	●									
7/16	●	●	●	●	●	●	●	●									
1/2	●	●	●	●	●	●	●	●									
5/8	●	●	●	●	●	●	●	●									
3/4	●	●	●	●	●	●	●	●									
7/8		●	●	●	●	●	●	●									
1	●	●	●	●	●	●	●	●									
1.1/4		●	●	●	●	●	●	●									
1.1/2		●	●	●	●	●	●	●									
1.3/4				●	●	●	●	●									
2				●	●	●	●	●									
2.1/2						●	●	●									
3								●									

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PHILLIPS RAISED COUNTERSUNK MACHINE SCREWS ANSI B18.6.3

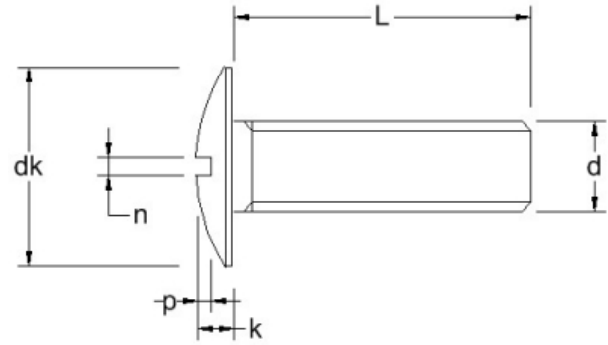


Material grades: A2: ● A4: ▲

Drive	#1	#1		#2	#2	#2	#2	#3	#3								
dk (Max)	0.162	0.212		0.262	0.312	0.362	0.362	0.477	0.477								
k (Max)	0.080	0.104		0.128	0.152	0.176	0.176	0.232	0.232								
Length/dim	2-56	4-40	5-40	6-32	8-32	10-24	10-32	1/4-20	1/4-28								
3/16	●																
1/4	●	●▲	●	●▲													
5/16	●	●▲	●	●▲	●▲	●▲	●▲										
3/8	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●								
7/16	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●								
1/2	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●								
5/8	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●								
3/4	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●								
7/8		●▲	●	●▲	●▲	●▲	●▲	●▲	●								
1	●	●▲	●	●▲	●▲	●▲	●▲	●▲	●								
1.1/4		●▲	●	●▲	●▲	●▲	●▲	●▲									
1.1/2		●▲	●	●▲	●▲	●▲	●▲	●▲									
1.3/4				●▲	●▲	●▲	●▲	●▲									
2				●▲	●▲	●▲	●▲	●▲									
2.1/2						●▲	●▲	●▲									
3								●▲									

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SLOT MUSHROOM MACHINE SCREWS ANSI B18.6.3



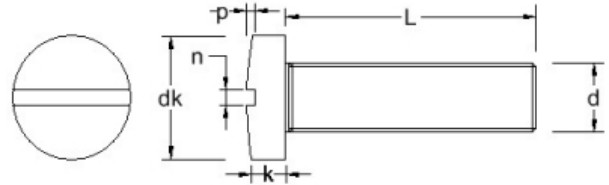
Material grades: A2: ●

dk (Max)	0.321	0.384	0.448	0.448	0.573	0.573	0.698	0.823									
k (Max)	0.086	0.102	0.128	0.128	0.150	0.150	0.183	0.215									
n (Max)	0.048	0.054	0.060	0.060	0.075	0.075	0.084	0.094									
p (Max)	0.050	0.058	0.068	0.068	0.087	0.087	0.106	0.124									
Length/dim	6-32	8-32	10-24	10-32	1/4-20	1/4-28	5/16-18	3/8-16									
1/4	●	●	●	●													
5/16	●	●	●	●													
3/8	●	●	●	●	●	●											
7/16	●	●			●	●											
1/2	●	●	●	●	●	●	●	●									
5/8	●	●	●	●	●	●	●	●	●								
3/4	●	●	●	●	●	●	●	●	●								
7/8	●	●	●	●	●	●	●	●	●								
1	●	●	●	●	●	●	●	●	●								
1.1/4		●	●	●	●	●	●	●	●								
1.1/2		●	●	●	●	●	●	●	●								
1.3/4			●	●	●	●	●	●	●								
2			●	●	●	●	●	●	●								
2.1/2					●	●	●	●	●								
3					●	●	●	●	●								

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SLOT FILLISTER MACHINE SCREWS ANSI B18.6.3

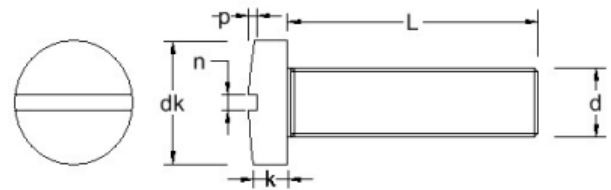


Material grades: A2: ●

dk (Max)	0.096	0.118	0.118	0.140	0.140	0.161	0.161	0.183	0.183	0.205	0.226	0.226	0.270	0.313	0.313	0.357	0.414
k (Max)	0.055	0.066	0.066	0.083	0.083	0.095	0.095	0.107	0.107	0.120	0.132	0.132	0.156	0.180	0.180	0.205	0.237
n (Max)	0.023	0.026	0.026	0.031	0.031	0.035	0.035	0.039	0.039	0.043	0.048	0.048	0.054	0.060	0.060	0.067	0.075
p (Max)	0.025	0.031	0.031	0.037	0.037	0.043	0.043	0.048	0.048	0.054	0.060	0.060	0.071	0.083	0.083	0.094	0.109
Length/dim	0-80	1-64	1-72	2-56	2-64	3-48	3-56	4-40	4-48	5-40	6-32	6-40	8-32	10-24	10-32	12-24	1/4-20
1/8	●	●	●	●	●	●	●	●	●								
5/32	●																
3/16	●	●	●	●	●	●	●	●	●	●	●		●	●	●		
1/4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
5/16	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
3/8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
7/16	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
1/2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
9/16	●							●	●	●	●	●	●				
5/8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
3/4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
7/8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1.1/8											●		●				
1.1/4						●		●		●	●	●	●	●	●	●	●
1.1/2						●	●	●	●	●	●	●	●	●	●	●	●

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SLOT FILLISTER MACHINE SCREWS ANSI B18.6.3



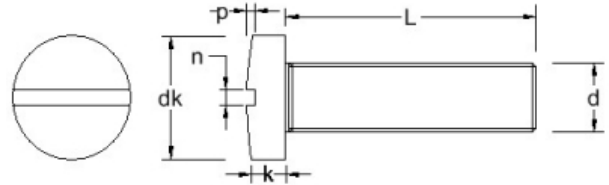
Material grades: A2: ●

dk (Max)	0.414	0.518	0.622																
k (Max)	0.237	0.295	0.355																
n (Max)	0.075	0.084	0.094																
p (Max)	0.109	0.137	0.164																
Length/dim	1/4-28	5/16-18	3/8-16																
1/8																			
5/32																			
3/16																			
1/4																			
5/16	●																		
3/8	●	●																	
7/16																			
1/2	●	●	●																
9/16																			
5/8	●	●	●																
3/4	●	●	●																
7/8	●	●	●																
1	●	●	●																
1.1/8																			
1.1/4	●	●	●																
1.1/2	●	●	●																

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SLOT FILLISTER MACHINE SCREWS ANSI B18.6.3

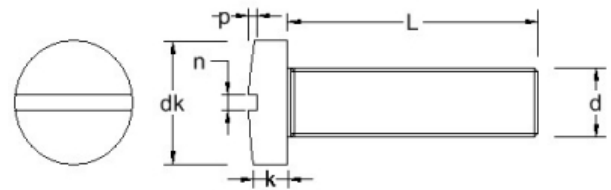
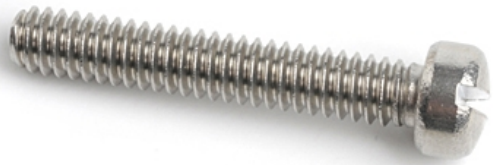


Material grades: A2: ●

dk (Max)	0.096	0.118	0.118	0.140	0.140	0.161	0.161	0.183	0.183	0.205	0.226	0.226	0.270	0.313	0.313	0.357	0.414
k (Max)	0.055	0.066	0.066	0.083	0.083	0.095	0.095	0.107	0.107	0.120	0.132	0.132	0.156	0.180	0.180	0.205	0.237
n (Max)	0.023	0.026	0.026	0.031	0.031	0.035	0.035	0.039	0.039	0.043	0.048	0.048	0.054	0.060	0.060	0.067	0.075
p (Max)	0.025	0.031	0.031	0.037	0.037	0.043	0.043	0.048	0.048	0.054	0.060	0.060	0.071	0.083	0.083	0.094	0.109
Length/dim	0-80	1-64	1-72	2-56	2-64	3-48	3-56	4-40	4-48	5-40	6-32	6-40	8-32	10-24	10-32	12-24	1/4-20
1.3/4											●	●	●	●	●	●	●
2											●	●	●	●	●	●	●
2.1/4														●	●		
2.1/2														●	●	●	●
2.3/4														●	●		
3														●	●	●	●
3.1/2																	●
4																	●
4.1/2																	
5																	
6																	

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SLOT FILLISTER MACHINE SCREWS ANSI B18.6.3



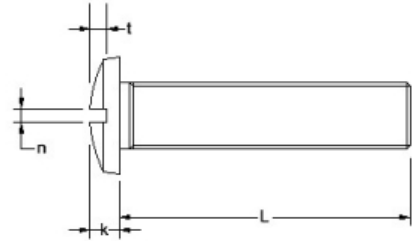
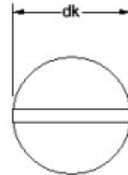
Material grades: A2: ●

dk (Max)	0.414	0.518	0.622																	
k (Max)	0.237	0.295	0.355																	
n (Max)	0.075	0.084	0.094																	
p (Max)	0.109	0.137	0.164																	
Length/dim	1/4-28	5/16-18	3/8-16																	
1.3/4	●	●	●																	
2	●	●	●																	
2.1/4																				
2.1/2	●	●	●																	
2.3/4																				
3	●	●	●																	
3.1/2	●	●	●																	
4	●	●	●																	
4.1/2		●																		
5		●	●																	
6			●																	

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SLOT BINDING MACHINE SCREWS ANSI B18.6.3

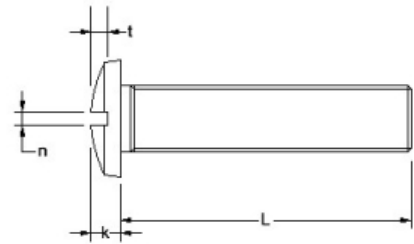
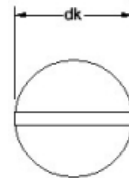


Material grades: A2: ●

dk	0.181	0.208	0.235	0.263	0.290	0.344	0.399	0.399	0.525	0.525	0.656	0.788					
k (Max)	0.050	0.059	0.068	0.078	0.087	0.105	0.123	0.123	0.165	0.165	0.209	0.253					
n (Max)	0.031	0.035	0.039	0.043	0.048	0.054	0.060	0.060	0.075	0.075	0.084	0.094					
p (Max)	0.030	0.036	0.042	0.048	0.053	0.065	0.077	0.077	0.105	0.105	0.134	0.163					
Length/dim	2-56	3-48	4-40	5-40	6-32	8-32	10-24	10-32	1/4-20	1/4-28	5/16-18	3/8-16					
1/8	●	●	●	●													
3/16	●	●	●	●	●												
1/4	●	●	●	●	●	●	●	●									
5/16	●	●	●	●	●	●	●	●	●	●							
3/8	●	●	●	●	●	●	●	●	●	●	●						
7/16	●	●	●	●	●	●	●	●	●	●	●						
1/2	●	●	●	●	●	●	●	●	●	●	●	●					
9/16	●	●	●	●	●												
5/8	●	●	●	●	●	●	●	●	●	●	●	●					
3/4	●	●	●	●	●	●	●	●	●	●	●	●	●				
7/8	●	●	●	●	●	●	●	●	●	●	●	●	●				
1	●	●	●	●	●	●	●	●	●	●	●	●	●				
1.1/4			●	●	●	●	●	●	●	●	●	●	●				
1.1/2			●	●	●	●	●	●	●	●	●	●	●				
1.3/4					●	●	●	●	●	●	●	●	●				
2					●	●	●	●	●	●	●	●	●				

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SLOT BINDING MACHINE SCREWS ANSI B18.6.3



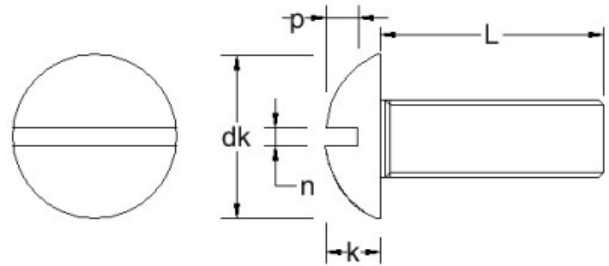
Material grades: A2: ●

dk	0.181	0.208	0.235	0.263	0.290	0.344	0.399	0.399	0.525	0.525	0.656	0.788					
k (Max)	0.050	0.059	0.068	0.078	0.087	0.105	0.123	0.123	0.165	0.165	0.209	0.253					
n (Max)	0.031	0.035	0.039	0.043	0.048	0.054	0.060	0.060	0.075	0.075	0.084	0.094					
p (Max)	0.030	0.036	0.042	0.048	0.053	0.065	0.077	0.077	0.105	0.105	0.134	0.163					
Length/dim	2-56	3-48	4-40	5-40	6-32	8-32	10-24	10-32	1/4-20	1/4-28	5/16-18	3/8-16					
2.1/4									●	●	●						
2.1/2									●	●	●	●					
2.3/4									●	●	●						
3									●	●	●	●					
3.1/2												●					
4												●					

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SLOT ROUND MACHINE SCREWS ANSI B18.6.3

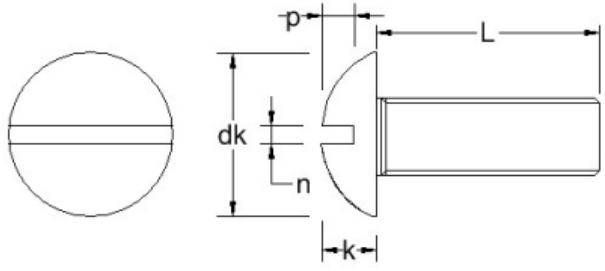


Material grades: A2: ●

dk (Max)	0.162	0.187	0.211	0.236	0.260	0.309	0.359	0.359	0.472	0.472	0.590	0.708				
k (Max)	0.069	0.078	0.086	0.095	0.103	0.120	0.137	0.137	0.175	0.175	0.216	0.256				
n (Max)	0.031	0.035	0.039	0.043	0.048	0.054	0.060	0.060	0.075	0.075	0.084	0.094				
p (Max)	0.048	0.053	0.058	0.063	0.068	0.077	0.087	0.087	0.109	0.109	0.132	0.155				
Length/dim	2-56	3-48	4-40	5-40	6-32	8-32	10-24	10-32	1/4-20	1/4-28	5/16-18	3/8-16				
1/8	●	●	●	●	●											
3/16	●	●	●	●	●											
1/4	●	●	●	●	●	●	●	●								
5/16	●	●	●	●	●	●	●	●	●	●						
3/8	●	●	●	●	●	●	●	●	●	●	●					
7/16	●	●	●	●	●	●	●	●	●	●	●					
1/2	●	●	●	●	●	●	●	●	●	●	●	●				
9/16	●	●	●	●	●											
5/8	●	●	●	●	●	●	●	●	●	●	●	●				
3/4	●	●	●	●	●	●	●	●	●	●	●	●	●			
7/8	●	●	●	●	●	●	●	●	●	●	●	●	●			
1	●	●	●	●	●	●	●	●	●	●	●	●	●			
1.1/4			●	●	●	●	●	●	●	●	●	●	●			
1.1/2			●	●	●	●	●	●	●	●	●	●	●			
1.3/4					●	●	●	●	●	●	●	●	●			
2					●	●	●	●	●	●	●	●	●			

[CLICK HERE TO RETURN TO THE CONTENTS PAGE](#) >

SLOT ROUND MACHINE SCREWS ANSI B18.6.3



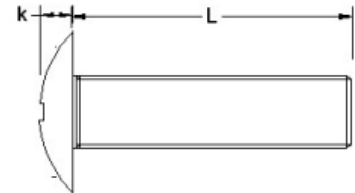
Material grades: A2: ●

dk (Max)	0.162	0.187	0.211	0.236	0.260	0.309	0.359	0.359	0.472	0.472	0.590	0.708					
k (Max)	0.069	0.078	0.086	0.095	0.103	0.120	0.137	0.137	0.175	0.175	0.216	0.256					
n (Max)	0.031	0.035	0.039	0.043	0.048	0.054	0.060	0.060	0.075	0.075	0.084	0.094					
p (Max)	0.048	0.053	0.058	0.063	0.068	0.077	0.087	0.087	0.109	0.109	0.132	0.155					
Length/dim	2-56	3-48	4-40	5-40	6-32	8-32	10-24	10-32	1/4-20	1/4-28	5/16-18	3/8-16					
2.1/4							●		●	●	●						
2.1/2							●	●	●	●	●	●					
2.3/4							●	●	●	●	●						
3							●	●	●	●	●	●					
3.1/2												●					
4												●					

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PHILLIPS MUSHROOM MACHINE SCREWS ANSI B18.6.3

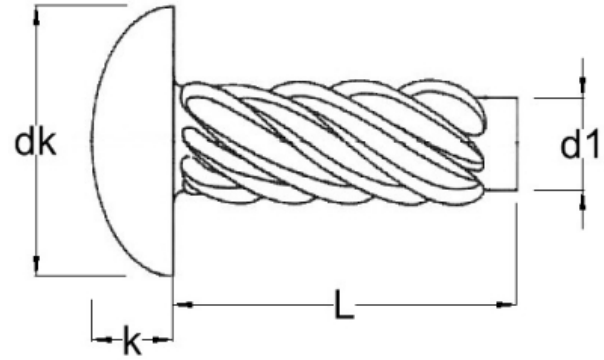


Material grades: A2: ●

Drive	#2	#2	#2	#2	#3	#3	#4	#4										
dk (Max)	0.321	0.384	0.448	0.448	0.573	0.573	0.698	0.823										
k (Max)	0.086	0.102	0.128	0.128	0.150	0.150	0.183	0.215										
Length/dim	6-32	8-32	10-24	10-32	1/4-20	1/4-28	5/16-18	3/8-16										
1/4	●	●	●	●														
5/16	●	●	●	●														
3/8	●	●	●	●	●	●												
7/16	●	●	●	●	●	●												
1/2	●	●	●	●	●	●	●	●										
5/8	●	●	●	●	●	●	●	●	●									
3/4	●	●	●	●	●	●	●	●	●									
7/8	●	●	●	●	●	●	●	●	●									
1	●	●	●	●	●	●	●	●	●									
1.1/4		●	●	●	●	●	●	●	●									
1.1/2		●	●	●	●	●	●	●	●									
1.3/4			●	●	●	●	●	●	●									
2			●	●	●	●	●	●	●									
2.1/2					●	●	●	●	●									
3					●	●	●	●	●									

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ROUND HEAD HAMMER DRIVES ANSI B18.6.4



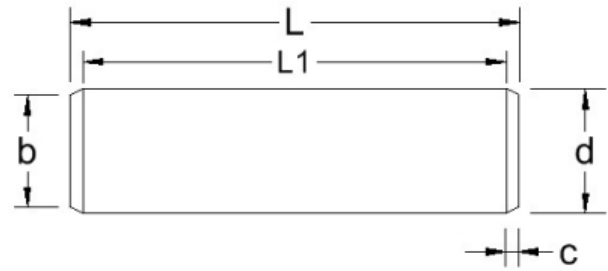
Material grades: A2: ●

d1 (Max)	0.049	0.063	0.083	0.096	0.116	0.136	0.150	0.177	0.202								
dk (Max)	0.099	0.127	0.162	0.211	0.260	0.309	0.359	0.408	0.457								
k (Max)	0.034	0.049	0.069	0.086	0.103	0.120	0.137	0.153	0.170								
Length/dim	NO.00	NO.0	NO.2	NO.4	NO.6	NO.8	NO.10	NO.12	NO.14								
1/8	●	●	●														
3/16	●	●	●	●													
1/4	●	●	●	●	●	●											
5/16	●	●	●	●	●	●											
3/8	●	●	●	●	●	●	●										
1/2			●		●	●	●	●	●								
5/8					●												
3/4					●												

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DOWEL PINS ANSI B18.8.2



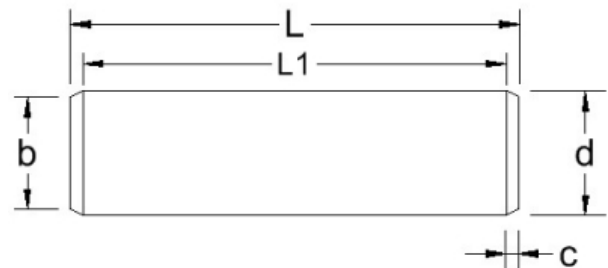
Material grades: A2: ● A4: ▲

b (Max)	0.058	0.089	0.120	0.180	0.240	0.302	0.365	0.424	0.486	0.611	0.735											
c (Max)	0.020	0.031	0.041	0.062	0.083	0.104	0.125	0.146	0.167	0.208	0.250											
Hole Size	0.0620 - 0.0625		0.0932 - 0.0937		0.1245 - 0.1250		0.1870 - 0.1875		0.2495 - 0.2500		0.3120 - 0.3125		0.3745 - 0.3750		0.4370 - 0.4375		0.4995 - 0.5000		0.6245 - 0.6250		0.7495 - 0.7500	
Length/dim	1/16	3/32	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4											
3/16	●▲																					
1/4	●▲	●▲	●▲																			
5/16	●▲	●▲	●▲																			
3/8	●▲	●▲	●▲	●▲																		
1/2	●▲	●▲	●▲	●▲	●▲	●▲	●▲															
5/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲															
3/4	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●	●													
7/8		●		●▲	●▲	●▲	●▲	●														
1	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●	●	●												
1.1/4			●▲	●▲	●▲	●▲	●▲	●	●	●												
1.1/2			●▲	●▲	●▲	●▲	●▲	●	●	●	●											
1.3/4			●▲	●▲	●▲	●▲	●▲	●	●	●	●											
2			●▲	●▲	●▲	●▲	●▲	●	●	●	●											
2.1/4					●▲	●▲	●▲	●	●	●	●											
2.1/2					●▲	●▲	●▲	●	●	●	●											
3					●▲	●▲	●▲	●	●	●	●											
3.1/2					●▲	●▲	●▲	●	●	●	●											

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DOWEL PINS ANSI B18.8.2



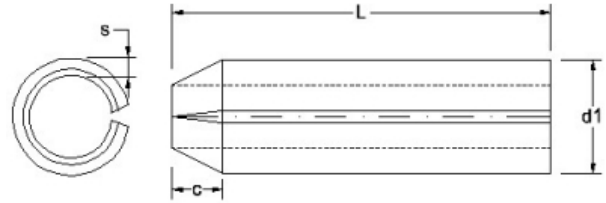
Material grades: A2: ● A4: ▲

b (Max)	0.058	0.089	0.120	0.180	0.240	0.302	0.365	0.424	0.486	0.611	0.735						
c (Max)	0.020	0.031	0.041	0.062	0.083	0.104	0.125	0.146	0.167	0.208	0.250						
Hole Size	0.0620 - 0.0625	0.0932 - 0.0937	0.1245 - 0.1250	0.1870 - 0.1875	0.2495 - 0.2500	0.3120 - 0.3125	0.3745 - 0.3750	0.4370 - 0.4375	0.4995 - 0.5000	0.6245 - 0.6250	0.7495 - 0.7500						
Length/dim	1/16	3/32	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4						
4					● ▲	● ▲	● ▲	●	●	●	●						
4.1/2							● ▲	●	●	●	●						
5							● ▲	●	●	●	●						
5.1/2									●	●	●						
6									●	●	●						

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SLOTTED SPRING PINS ANSI B18.8.2

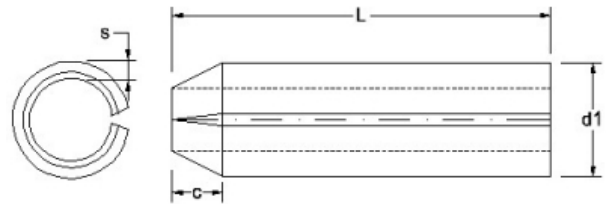


Material grades: A2: ●

c (Max)	0.028	0.038	0.044	0.055	0.065	0.080	0.095	0.095	0.110	0.125	0.150						
d1 (Max)	0.069	0.103	0.135	0.199	0.264	0.330	0.395	0.459	0.524	0.653	0.784						
Hole Size	0.062 - 0.065	0.094 - 0.097	0.125 - 0.129	0.187 - 0.192	0.250 - 0.256	0.312 - 0.318	0.375 - 0.382	0.437 - 0.445	0.500 - 0.510	0.625 - 0.638	0.750 - 0.764						
s	0.012	0.022	0.028	0.040	0.048	0.062	0.077	0.077	0.094	0.125	0.150						
Length/dim	1/16	3/32	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4						
3/16		●															
1/4	●	●															
5/16	●	●	●														
3/8	●	●	●														
7/16		●	●														
1/2	●	●	●	●	●												
9/16	●	●															
5/8	●	●	●	●	●												
3/4	●	●	●	●	●	●	●										
7/8		●	●	●	●	●	●										
1		●	●	●	●	●	●	●									
1.1/4		●	●	●	●	●	●	●	●								
1.1/2		●	●	●	●	●	●	●	●								
1.3/4			●	●	●	●	●	●	●								
2			●	●	●	●	●	●	●	●							
2.1/4				●	●	●	●	●	●	●	●						

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SLOTTED SPRING PINS ANSI B18.8.2



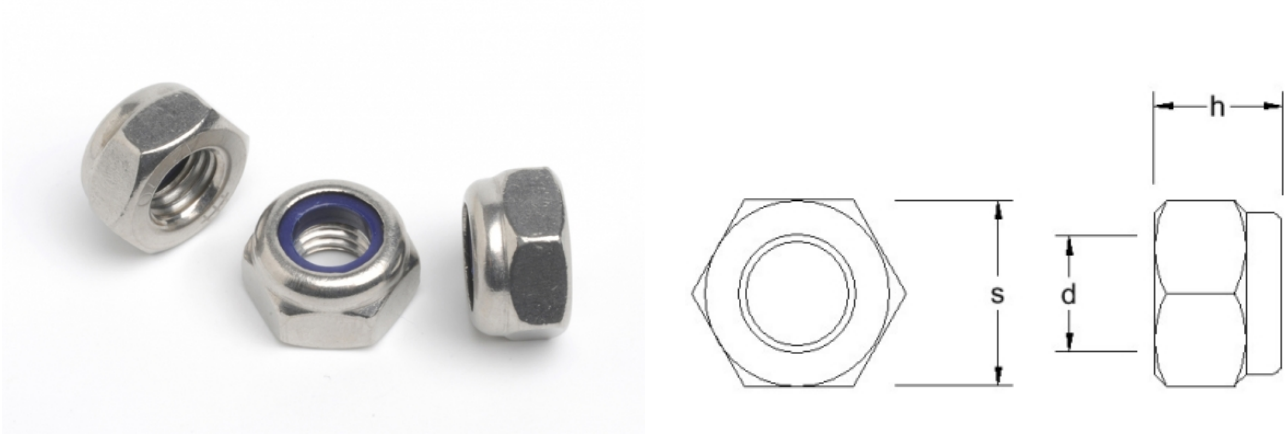
Material grades: A2: ●

c (Max)	0.028	0.038	0.044	0.055	0.065	0.080	0.095	0.095	0.110	0.125	0.150						
d1 (Max)	0.069	0.103	0.135	0.199	0.264	0.330	0.395	0.459	0.524	0.653	0.784						
Hole Size	0.062 - 0.065	0.094 - 0.097	0.125 - 0.129	0.187 - 0.192	0.250 - 0.256	0.312 - 0.318	0.375 - 0.382	0.437 - 0.445	0.500 - 0.510	0.625 - 0.638	0.750 - 0.764						
s	0.012	0.022	0.028	0.040	0.048	0.062	0.077	0.077	0.094	0.125	0.150						
Length/dim	1/16	3/32	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4						
2.1/2				●	●	●	●	●	●	●	●						
2.3/4					●	●	●	●	●	●	●						
3					●	●	●	●	●	●	●						
3.1/2					●	●	●	●	●	●	●						
4						●	●	●	●	●	●						
4.1/2										●	●						
5										●	●						
5.1/2										●	●						
6										●	●						

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NYLON INSERT NUTS

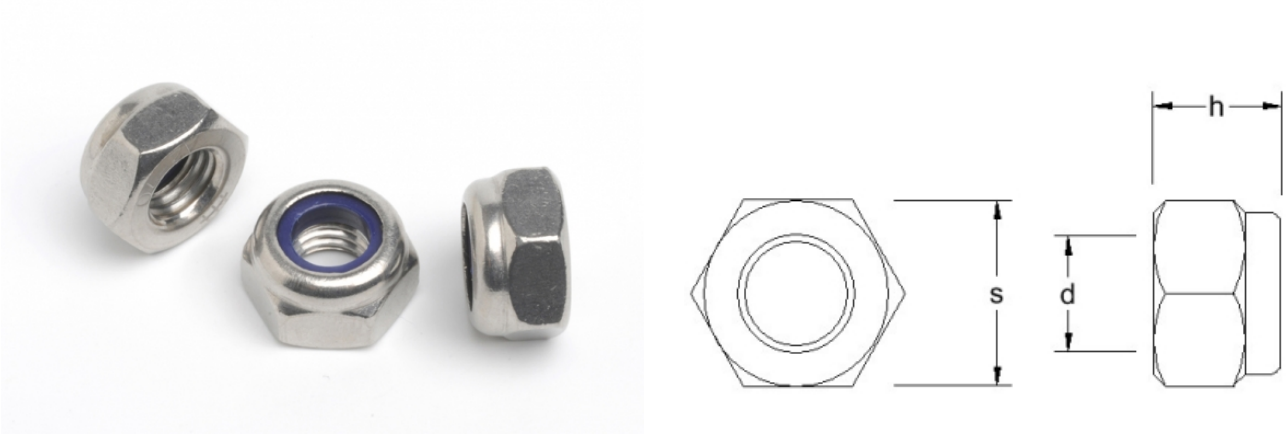


Material grades: A2: ● A4: ▲

h(Max)	0.141	0.141	0.141	0.172	0.234	0.234	0.234	0.313	0.313	0.313	0.344	0.344	0.453	0.453	0.453	0.453	0.594
s (Max)	0.250	0.250	0.250	0.312	0.344	0.375	0.375	0.438	0.438	0.438	0.500	0.500	0.562	0.562	0.688	0.688	0.750
Length/dim	2-56	4-40	5-40	6-32	8-32	10-24	10-32	12-24	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24	7/16-14	7/16-20	1/2-13
	●	●	●	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲

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NYLON INSERT NUTS



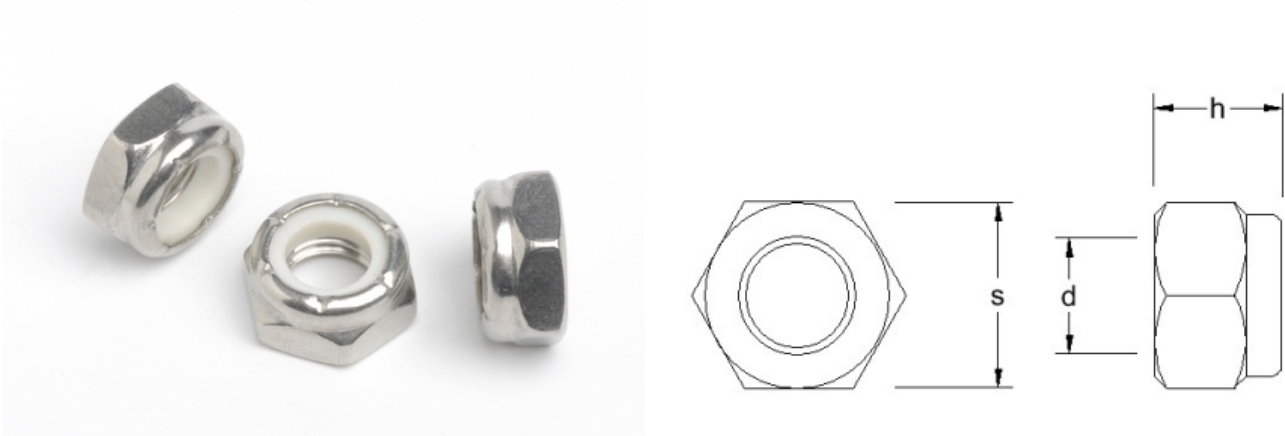
Material grades: A2: ● A4: ▲

h(Max)	0.594	0.640	0.640	0.750	0.750	0.875	0.875	0.984	0.984	1.047	1.047						
s (Max)	0.750	0.875	0.875	0.938	0.938	1.063	1.063	1.250	1.250	1.440	1.440						
Length/dim	1/2-20	9/16-12	9/16-18	5/8-11	5/8-18	3/4-10	3/4-16	7/8-9	7/8-14	1-8	1-12						
	●▲	●▲	●	●▲	●▲	●▲	●▲	●▲	●	●▲	▲						

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NYLON INSERT NUTS THIN TYPE



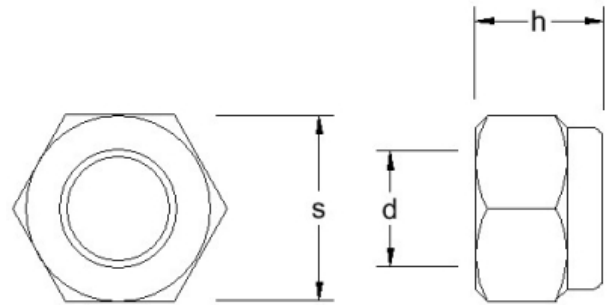
Material grades: A2: ● A4: ▲

h	0.109	0.125	0.172	0.172	0.172	0.203	0.203	0.250	0.250	0.266	0.266	0.313	0.313	0.313	0.313	0.391	0.391
s (Max)	0.250	0.312	0.344	0.375	0.375	0.438	0.438	0.500	0.500	0.563	0.563	0.688	0.688	0.750	0.750	0.938	0.938
Length/dim	4-40	6-32	8-32	10-24	10-32	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24	7/16-14	7/16-20	1/2-13	1/2-20	5/8-11	5/8-18
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●	●	●▲	●▲	●▲	●

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NYLON INSERT NUTS THIN TYPE



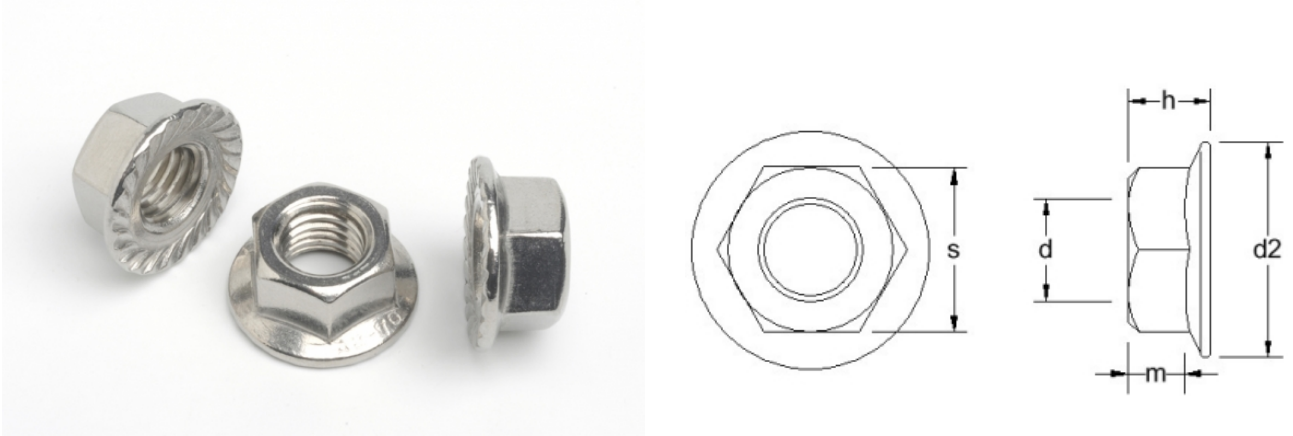
Material grades: A2: ● A4: ▲

h	0.408	0.562																	
s (Max)	1.063	1.440																	
Length/dim	3/4-10	1-8																	
	●▲	●▲																	

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SERRATED FLANGED NUTS



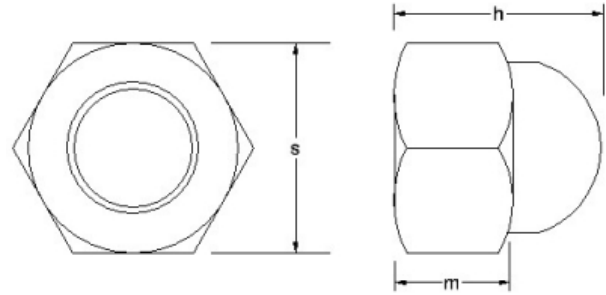
Material grades: A2: ● A4: ▲

d2 (Max)	0.422	0.469	0.500	0.500	0.594	0.594	0.594	0.680	0.680	0.750	0.750	1.031	1.031				
h (Max)	0.171	0.203	0.219	0.219	0.236	0.236	0.236	0.283	0.283	0.347	0.347	0.458	0.458				
m (Min)	0.10	0.13	0.13	0.13	0.14	0.14	0.14	0.17	0.17	0.23	0.23	0.31	0.31				
s (Max)	0.312	0.344	0.375	0.375	0.438	0.438	0.438	0.500	0.500	0.562	0.562	0.750	0.750				
Length/dim	6-32	8-32	10-24	10-32	12-24	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24	1/2-13	1/2-20				
	●▲	●▲	●▲	●▲	●	●▲	●	●▲	●	●▲	●	●▲	●				

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HEXAGON DOMED NUTS



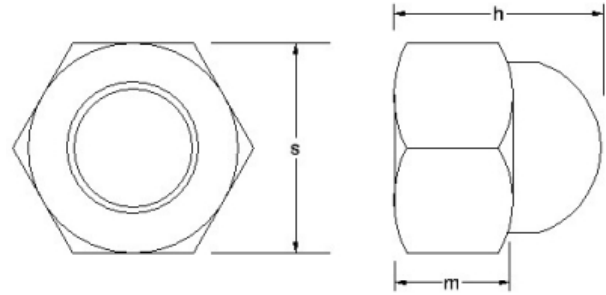
Material grades: A2: ● A4: ▲

h	0.250	*	0.296	0.312	0.390	0.390	0.421	0.468	0.468	0.531	0.531	0.625	0.625	0.718	0.718	0.812	0.812
m	*	*	0.171	0.171	0.203	0.203	0.203	0.234	0.234	0.281	0.281	0.312	0.312	0.343	0.343	0.421	0.421
s (Max)	0.250	*	0.312	0.312	0.375	0.375	0.375	0.437	0.437	0.562	0.562	0.625	0.625	0.625	0.625	0.750	0.750
Length/dim	4-40	5-40	6-32	8-32	10-24	10-32	12-24	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24	7/16-14	7/16-20	1/2-13	1/2-20
	●▲	●▲	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲	●	●	●▲	●▲

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HEXAGON DOMED NUTS

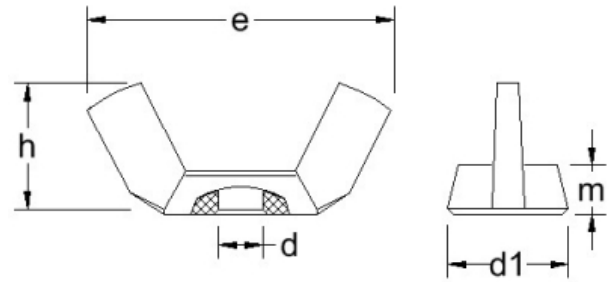


Material grades: A2: ● A4: ▲

h	0.984	1.187																		
m	0.531	0.593																		
s (Max)	1.000	1.062																		
Length/dim	5/8-11	3/4-10																		
	●▲	●▲																		

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WING NUTS



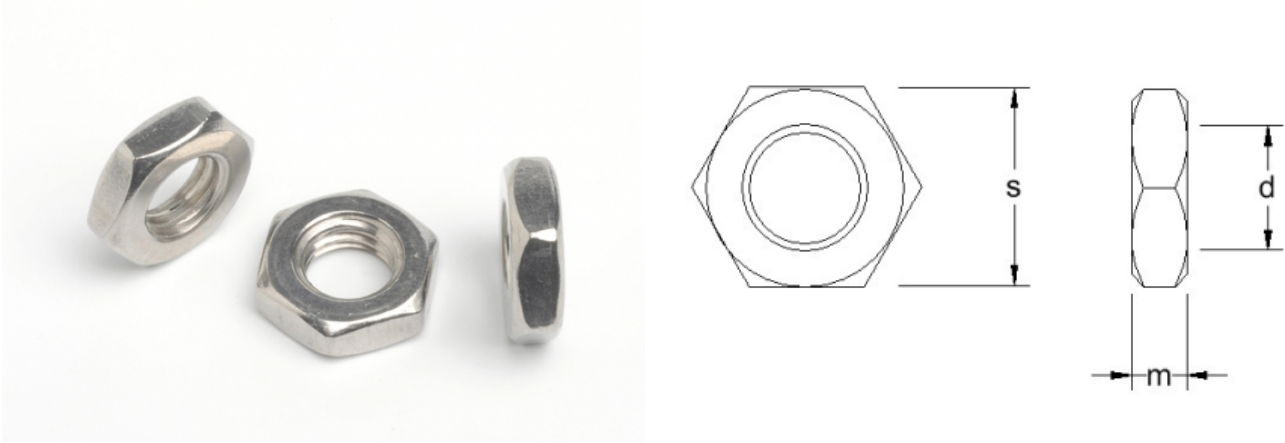
Material grades: A2: ● A4: ▲

d1 (Max)	0.33	0.43	0.43	0.43	0.50	0.50	0.50	0.58	0.58	0.70	0.70	0.93	0.93	0.93	1.19	1.19	
e (Max)	0.720	0.910	0.910	0.910	1.10	1.100	1.100	1.250	1.250	1.440	1.440	1.94	1.940	1.940	2.760	2.760	
h (Max)	0.410	0.470	0.470	0.470	0.570	0.570	0.570	0.660	0.660	0.790	0.790	1.00	1.00	1.00	1.44	1.44	
m (Max)	0.14	0.18	0.18	0.18	0.22	0.22	0.22	0.25	0.25	0.30	0.30	0.39	0.39	0.39	0.55	0.55	
Length/dim	6-32	8-32	10-24	10-32	12-24	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24	7/16-14	1/2-13	1/2-20	5/8-11	3/4-10	
	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	

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USA SMALL PATTERN HEXAGON NUTS

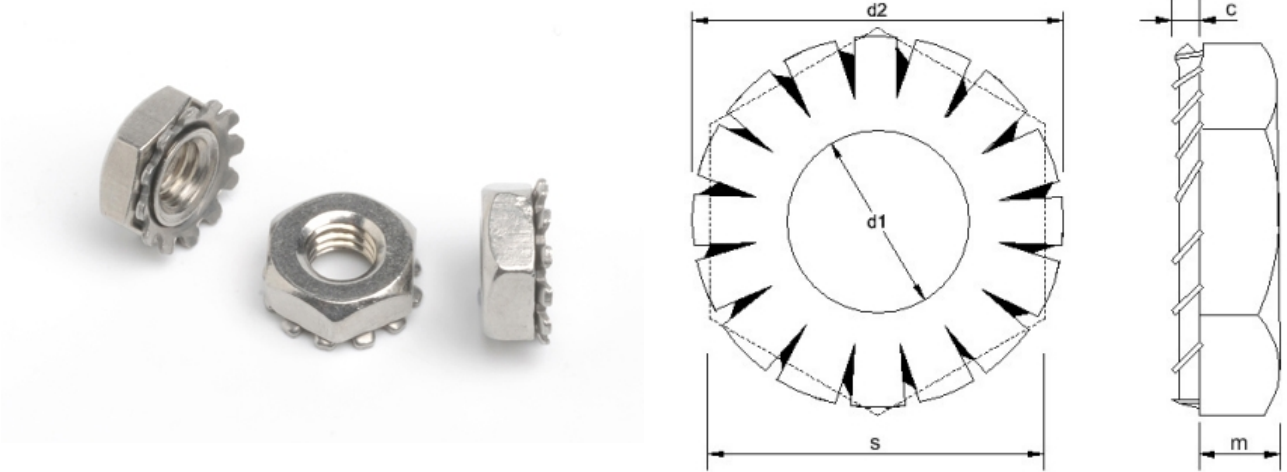


Material grades: A2: ●

m (Max)	0.047	0.047	0.062	0.062	0.093	0.093	0.109	0.125	0.125								
s (Max)	0.125	0.125	0.156	0.187	0.250	0.250	0.312	0.343	0.343								
Length/dim	0-80	1-64	2-56	4-40	5-40	6-32	8-32	10-24	10-32								
1/8AF	●	●															
5/32AF			●														
3/16AF				●													
1/4AF					●	●	●										
5/16AF							●	●	●								
11/32AF								●	●								

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USA KEP NUTS



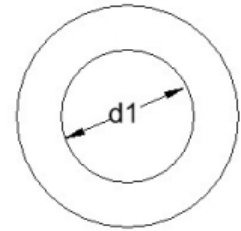
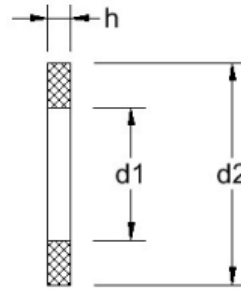
Material grades: A2: ●

c	0.014	0.018	0.021	0.023	0.023	0.026	0.026	0.031	0.031	0.031	0.031						
d2	0.281	0.343	0.375	0.406	0.406	0.500	0.500	0.578	0.578	0.656	0.656						
m	0.094	0.109	0.125	0.125	0.125	0.218	0.218	0.265	0.265	0.328	0.328						
s	0.250	0.312	0.344	0.375	0.375	0.438	0.438	0.500	0.500	0.562	0.562						
Length/dim	4-40	6-32	8-32	10-24	10-32	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24						
	●	●	●	●	●	●	●	●	●	●	●						

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USA 800 SERIES FLAT WASHERS

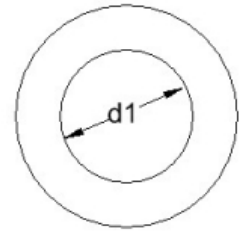
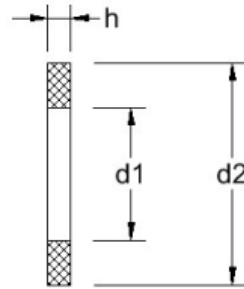


Material grades: A2: ●

d2	0.078	0.093	0.125	0.125	0.156	0.156	0.187	0.218	0.188	0.219	0.250	0.281	0.343	0.312	0.406	0.375	0.468
Thickness/d1	0.187	0.250	0.250	0.312	0.312	0.375	0.375	0.437	0.438	0.500	0.562	0.625	0.687	0.750	0.812	0.875	0.921
0.0200	●	●															
0.0220			●														
0.0320				●													
0.0370					●												
0.0510						●	●	●	●	●							
0.0650											●	●	●	●	●		●
0.0840																●	
0.0980																	
0.1090																	
0.1340																	
0.1500																	
0.1640																	

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USA 800 SERIES FLAT WASHERS



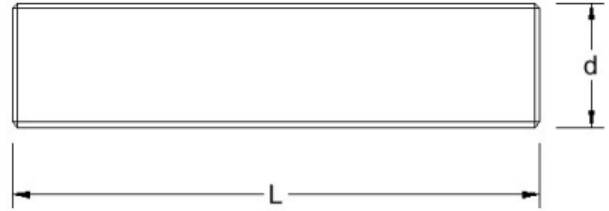
Material grades: A2: ●

d2	0.437	0.531	0.500	0.656	0.562	0.812	0.687	0.937	0.812	1.062	0.937	1.062				
Thickness/d1	1.000	1.062	1.250	1.312	1.375	1.500	1.750	1.750	2.000	2.000	2.250	2.500				
0.0200																
0.0220																
0.0320																
0.0370																
0.0510																
0.0650																
0.0840	●		●													
0.0980		●		●												
0.1090					●											
0.1340						●	●	●		●						
0.1500									●							
0.1640											●	●				

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THREADED ROD X 36"

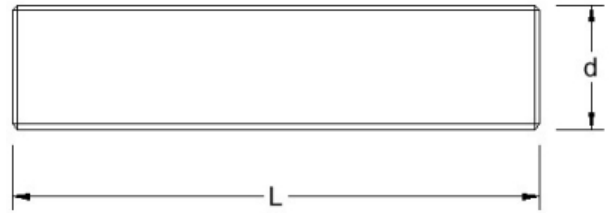


Material grades: A2: ● A4: ▲

L	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
Length/dim	2-56	4-40	5-40	6-32	6-40	8-32	10-24	10-32	12-24	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24	7/16-14	7/16-20
3FT	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲

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THREADED ROD X 36"



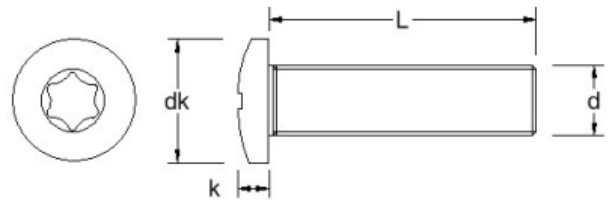
Material grades: A2: ● A4: ▲

L	36	36	36	36	36	36	36	36	36	36	36	36				
Length/dim	1/2-13	1/2-20	9/16-12	9/16-18	5/8-11	5/8-18	3/4-10	3/4-16	7/8-9	7/8-14	1-8	1-12				
3FT	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				

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TX PAN MACHINE SCREWS



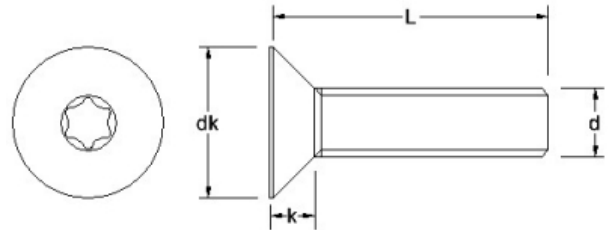
Material grades: A2: ●

dk (Max)	0.219	0.270	0.322	0.373	0.373	0.492	0.615	0.740									
k (Max)	0.080	0.097	0.115	0.133	0.133	0.175	0.218	0.261									
Length/dim	4-40	6-32	8-32	10-24	10-32	1/4-20	5/16-18	3/8-16									
1/4	●	●	●														
5/16	●																
3/8	●	●	●														
1/2	●	●	●	●	●	●											
3/4		●	●	●	●	●	●	●									
1		●	●	●	●	●	●	●									
1.1/4				●	●	●	●	●									
1.1/2				●	●	●		●									

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TX COUNTERSUNK MACHINE SCREWS



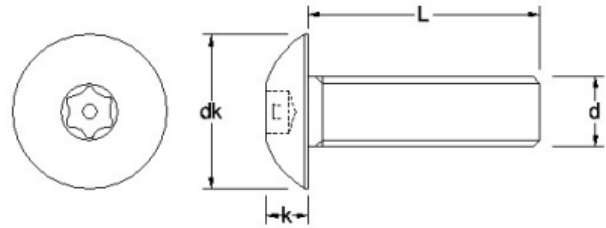
Material grades: A2: ●

dk (Max)	0.212	0.262	0.312	0.362	0.362	0.477											
k	0.067	0.083	0.100	0.116	0.116	0.153											
Length/dim	4-40	6-32	8-32	10-24	10-32	1/4-20											
1/4	●	●															
3/8	●	●	●														
1/2	●	●	●	●	●	●											
3/4		●		●	●	●											

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PIN TX BUTTON SCREWS

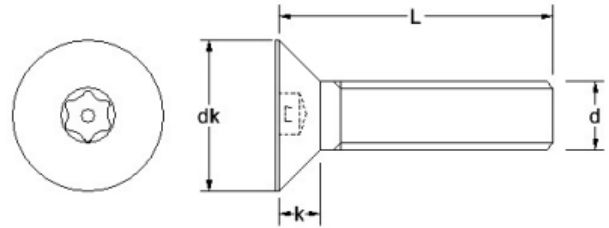


Material grades: A2: ●

dk (Max)	0.213	0.262	0.312	0.361	0.361	0.437	0.547	0.656											
k (Max)	0.059	0.073	0.087	0.101	0.101	0.132	0.166	0.199											
Length/dim	4-40	6-32	8-32	10-24	10-32	1/4-20	5/16-18	3/8-16											
1/4	●	●	●	●															
3/8	●	●	●	●	●														
1/2	●	●	●	●	●	●													
5/8			●	●	●	●													
3/4		●	●	●	●	●	●	●											
1		●	●	●	●	●	●	●											
1.1/4			●	●	●	●	●	●											
1.1/2				●	●	●	●	●											
2						●													

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PIN TX COUNTERSUNK SCREWS



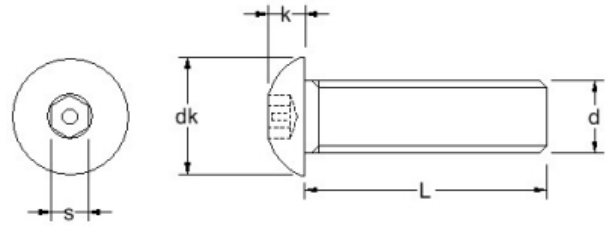
Material grades: A2: ●

dk (Max)	0.307	0.359	0.411	0.411	0.531												
k (Max)	0.097	0.112	0.127	0.127	0.161												
Length/dim	6-32	8-32	10-24	10-32	1/4-20												
3/8	●	●															
1/2	●	●	●	●	●												
3/4	●	●	●	●	●												
1	●	●	●	●	●												
1.1/2					●												

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PIN HEX BUTTON SCREWS

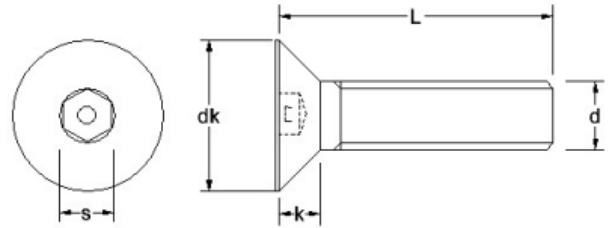


Material grades: A2: ●

dk (Max)	0.262	0.312	0.361	0.361	0.437	0.547	0.656											
k (Max)	0.073	0.087	0.101	0.101	0.132	0.166	0.199											
s	1/8	1/8	5/32	5/32	5/32	3/16	7/32											
Length/dim	6-32	8-32	10-24	10-32	1/4-20	5/16-18	3/8-16											
1/4	●		●	●														
3/8	●	●	●	●														
1/2	●	●	●	●	●	●	●											
5/8			●	●	●													
3/4	●	●	●	●	●	●	●											
1	●	●	●	●	●	●	●											
1.1/4			●	●	●	●	●											
1.1/2		●	●	●	●	●	●											
1.3/4								●										
2			●	●	●	●	●	●										
2.1/4								●										
2.1/2								●										
2.3/4								●										
3								●										
3.1/4								●										
4								●										

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PIN HEX COUNTERSUNK SCREWS



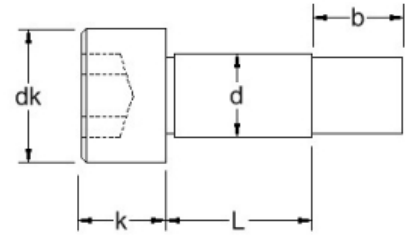
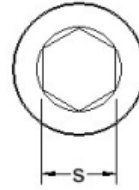
Material grades: A2: ●

dk (Max)	0.307	0.359	0.411	0.411	0.531	0.656	0.781											
k (Max)	0.097	0.112	0.127	0.127	0.161	0.198	0.234											
s	1/8	1/8	5/32	5/32	5/32	3/16	7/32											
Length/dim	6-32	8-32	10-24	10-32	1/4-20	5/16-18	3/8-16											
3/8	●	●	●	●														
1/2	●	●	●	●	●	●												
3/4	●	●	●	●	●	●	●											
1		●	●	●	●	●	●											
1.1/4					●													
1.1/2			●	●	●													

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SOCKET SHOULDER SCREWS

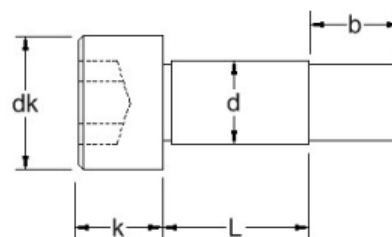
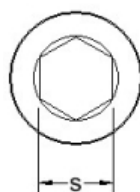


Material grades: A2: ● 416: ◆

	b	5/32	3/16	3/16	3/8	1/4	7/16	7/16	1/2	5/8								
dk	1/4	9/32	5/16	3/8	3/8	7/16	9/16	9/16	9/16	3/4								
k	1/8	1/8	5/32	3/16	3/16	7/32	1/4	1/4	1/4	5/16								
s	5/64	3/32	3/32	1/8	1/8	5/32	3/16	3/16	3/16	1/4								
Thread	4-40	6-32	8-32	10-24	10-32	1/4-20	1/4-20	5/16-18	3/8-16									
Length/d	1/8	5/32	3/16	1/4	1/4	5/16	3/8	3/8	1/2									
1/8	●◆	●◆	●◆	●◆	●◆													
3/16	●◆	●◆	●◆	●◆	●◆													
1/4	●◆	●◆	●◆	●◆	●◆	●◆												
5/16	●◆	●◆	●◆	●◆	●◆	●◆	●◆	●◆										
3/8	●◆	●◆	●◆	●◆	●◆	●◆	●◆	●◆										
7/16	●◆	●◆																
1/2	●◆	●◆	●◆	●◆	●◆	●◆	●◆	●◆	●◆	●◆								
5/8			●◆	●◆	●◆	●◆	●◆	●◆	●◆	●◆								
3/4			●◆	●◆	●◆	●◆	●◆	●◆	●◆	●◆								
1			●◆	●◆	●◆	●◆	●◆	●◆	●◆	●◆								
1.1/4			●◆	●◆	●◆	●◆	●◆	●◆	●◆	●◆								
1.1/2			●◆	●◆	●◆	●◆	●◆	●◆	●◆	●◆								

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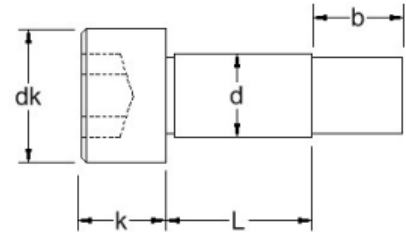
Material grades: A2: ● A4: ▲

	b	5/32	3/16	3/16	3/16	3/8	1/4	7/16	3/4	1/2	5/8	3/4	7/8	1	1.1/8	1.1/2		
dk	1/4	9/32	5/16	5/16	3/8	3/8	7/16	9/16	9/16	3/4	7/8	1	1.5/16	1.3/4	2.1/8			
k	1/8	1/8	5/32	5/32	3/16	3/16	7/32	1/4	1/4	5/16	3/8	1/2	5/8	3/4	1			
s	5/64	3/32	3/32	3/16	1/8	1/8	5/32	3/16	3/16	1/4	5/16	3/8	1/2	5/8	7/8			
Thread	4-40	6-32	8-32	8-32	10-24	10-32	1/4-20	1/4-20	5/16-18	3/8-16	1/2-13	5/8-11	3/4-10	7/8-9	1.1/8-7			
Length/d	1/8	5/32	3/16	7/32	1/4	1/4	5/16	3/8	3/8	1/2	5/8	3/4	1	1.1/4	1.1/2			
1/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
5/32	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
3/16	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲									
7/32	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
1/4	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
9/32	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
5/16	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
11/32	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
3/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
13/32	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
7/16	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
15/32	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
1/2	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
9/16	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
5/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				

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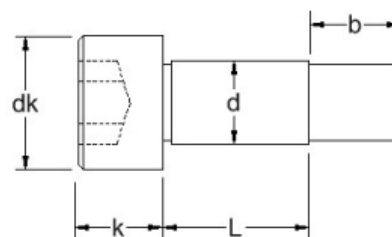
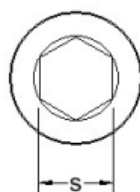
Material grades: A2: ● A4: ▲

	5/32	3/16	3/16	3/16	3/8	1/4	7/16	3/4	1/2	5/8	3/4	7/8	1	1.1/8	1.1/2		
b	5/32	3/16	3/16	3/16	3/8	1/4	7/16	3/4	1/2	5/8	3/4	7/8	1	1.1/8	1.1/2		
dk	1/4	9/32	5/16	5/16	3/8	3/8	7/16	9/16	9/16	3/4	7/8	1	1.5/16	1.3/4	2.1/8		
k	1/8	1/8	5/32	5/32	3/16	3/16	7/32	1/4	1/4	5/16	3/8	1/2	5/8	3/4	1		
s	5/64	3/32	3/32	3/16	1/8	1/8	5/32	3/16	3/16	1/4	5/16	3/8	1/2	5/8	7/8		
Thread	4-40	6-32	8-32	8-32	10-24	10-32	1/4-20	1/4-20	5/16-18	3/8-16	1/2-13	5/8-11	3/4-10	7/8-9	1.1/8-7		
Length/d	1/8	5/32	3/16	7/32	1/4	1/4	5/16	3/8	3/8	1/2	5/8	3/4	1	1.1/4	1.1/2		
11/16	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
3/4	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
13/16	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
7/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲						
15/16	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
1	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲		
1.1/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
1.1/4	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲		
1.3/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
1.1/2	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲		
1.5/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
1.3/4	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲		
1.7/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲								
2	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲		
2.1/4			●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				

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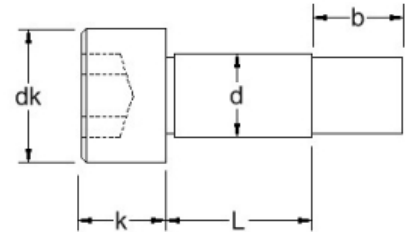
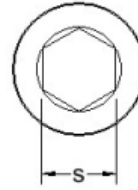
Material grades: A2: ● A4: ▲

	b	5/32	3/16	3/16	3/16	3/8	1/4	7/16	3/4	1/2	5/8	3/4	7/8	1	1.1/8	1.1/2		
dk	1/4	9/32	5/16	5/16	3/8	3/8	7/16	9/16	9/16	3/4	7/8	1	1.5/16	1.3/4	2.1/8			
k	1/8	1/8	5/32	5/32	3/16	3/16	7/32	1/4	1/4	5/16	3/8	1/2	5/8	3/4	1			
s	5/64	3/32	3/32	3/16	1/8	1/8	5/32	3/16	3/16	1/4	5/16	3/8	1/2	5/8	7/8			
Thread	4-40	6-32	8-32	8-32	10-24	10-32	1/4-20	1/4-20	5/16-18	3/8-16	1/2-13	5/8-11	3/4-10	7/8-9	1.1/8-7			
Length/d	1/8	5/32	3/16	7/32	1/4	1/4	5/16	3/8	3/8	1/2	5/8	3/4	1	1.1/4	1.1/2			
2.1/2			●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲		
2.3/4					●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
3					●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲		
3.1/4								●▲	●▲	●▲	●▲	●▲	●▲	●▲				
3.1/2					●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲			
3.3/4								●▲	●▲	●▲	●▲	●▲	●▲	●▲				
4					●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲			
4.1/4											●▲	●▲	●▲	●▲				
4.1/2					●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲				
4.3/4											●▲	●▲	●▲	●▲				
5					●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲			
5.1/2							●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲			
6							●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲			
6.1/2								●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲			
7								●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲			

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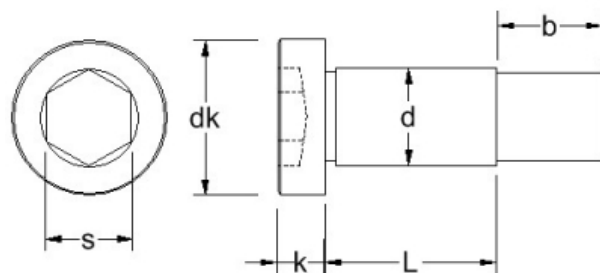
Material grades: A2: ● A4: ▲

b	5/32	3/16	3/16	3/16	3/8	1/4	7/16	3/4	1/2	5/8	3/4	7/8	1	1.1/8	1.1/2		
dk	1/4	9/32	5/16	5/16	3/8	3/8	7/16	9/16	9/16	3/4	7/8	1	1.5/16	1.3/4	2.1/8		
k	1/8	1/8	5/32	5/32	3/16	3/16	7/32	1/4	1/4	5/16	3/8	1/2	5/8	3/4	1		
s	5/64	3/32	3/32	3/16	1/8	1/8	5/32	3/16	3/16	1/4	5/16	3/8	1/2	5/8	7/8		
Thread	4-40	6-32	8-32	8-32	10-24	10-32	1/4-20	1/4-20	5/16-18	3/8-16	1/2-13	5/8-11	3/4-10	7/8-9	1.1/8-7		
Length/d	1/8	5/32	3/16	7/32	1/4	1/4	5/16	3/8	3/8	1/2	5/8	3/4	1	1.1/4	1.1/2		
7.1/2								●▲	●▲	●▲	●▲	●▲	●▲				
8								●▲	●▲	●▲	●▲	●▲	●▲				

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LOW HEAD SOCKET SHOULDER SCREWS



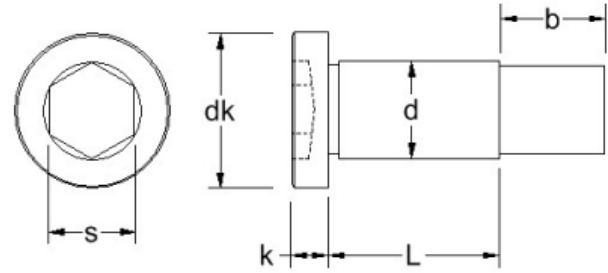
Material grades: A2: ● A4: ▲

	1/8	5/32	3/16	3/16	1/4	7/16	1/2											
b	1/8	5/32	3/16	3/16	1/4	7/16	1/2											
dk	3/16	1/4	9/32	5/16	3/8	7/16	9/16											
k	1/16	3/32	5/64	7/64	1/8	1/8	3/32											
s	5/64	5/64	3/32	3/32	1/8	5/32	3/16											
Thread	2-56	4-40	6-32	8-32	10-32	1/4-20	5/16-18											
Length/d	3/32	1/8	5/32	3/16	1/4	5/16	3/8											
1/16	●▲	●▲																
3/32	●▲	●▲																
1/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
5/32	●▲	●▲																
3/16	●▲	●▲	●▲	●▲	●▲													
1/4	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
5/16	●▲	●▲	●▲	●▲	●▲													
3/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
1/2		●▲		●▲	●▲	●▲	●▲											
5/8				●▲	●▲	●▲	●▲											
3/4				●▲	●▲	●▲	●▲											
1				●▲	●▲	●▲	●▲											

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ULTRA LOW HEAD SOCKET SHOULDER SCREWS

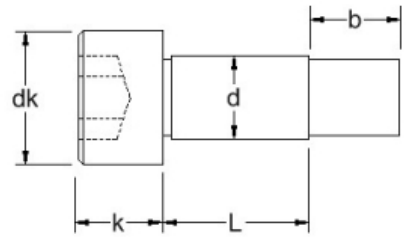
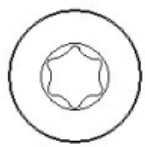


Material grades: **A4: ▲**

b	1/8	5/32	3/16	3/16	1/4														
dk	3/16	1/4	9/32	5/16	3/8														
k	1/32	3/64	3/64	3/64	1/16														
s	5/64	5/64	3/32	3/32	1/8														
Thread	2-56	4-40	6-32	8-32	10-32														
Length/d	3/32	1/8	5/32	3/16	1/4														
1/8	▲	▲	▲	▲															
3/16	▲	▲	▲	▲															
1/4	▲	▲	▲	▲	▲														
5/16		▲	▲	▲	▲														
3/8	▲	▲	▲	▲	▲														
1/2		▲	▲	▲	▲														
5/8				▲	▲														
3/4				▲	▲														
1				▲	▲														

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TX SHOULDER SCREWS



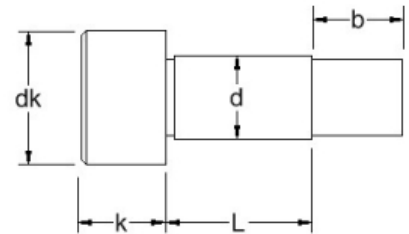
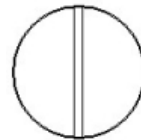
Material grades: A2: ● A4: ▲

b	5/32	3/16	1/4																	
dk	1/4	5/16	3/8																	
k	1/8	5/32	3/16																	
T Drive	T10	T25	T30																	
Thread	4-40	8-32	10-32																	
Length/d	1/8	3/16	1/4																	
1/8	●▲	●▲	●▲																	
3/16	●▲	●▲	●▲																	
1/4	●▲	●▲	●▲																	
5/16	●▲	●▲	●▲																	
3/8	●▲	●▲	●▲																	
1/2	●▲	●▲	●▲																	
5/8		●▲	●▲																	
3/4		●▲	●▲																	
1		●▲	●▲																	

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SLOTTED SHOULDER SCREWS

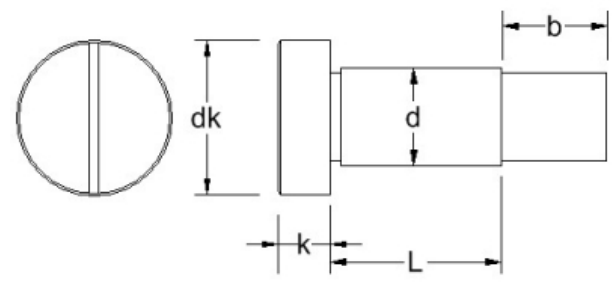


Material grades: A2: ●

b	5/32	3/16	3/16	3/8	1/4	7/16	7/16	1/2	5/8								
dk	1/4	9/32	5/16	3/8	3/8	7/16	9/16	9/16	3/4								
k	1/8	1/8	5/32	3/16	3/16	7/32	1/4	1/4	5/16								
Thread	4-40	6-32	8-32	10-24	10-32	1/4-20	1/4-20	5/16-18	3/8-16								
Length/d	1/8	5/32	3/16	1/4	1/4	5/16	3/8	3/8	1/2								
1/8	●	●	●	●	●												
3/16	●	●	●	●	●												
1/4	●	●	●	●	●	●											
5/16	●	●	●	●	●	●	●	●									
3/8	●	●	●	●	●	●	●	●									
7/16	●																
1/2	●	●	●	●	●	●	●	●	●								
5/8			●	●	●	●	●	●	●								
3/4			●	●	●	●	●	●	●								
1			●	●	●	●	●	●	●								
1.1/4			●	●	●	●	●	●	●								
1.1/2			●	●	●	●	●	●	●								

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LOW HEAD SLOTTED SHOULDER SCREWS



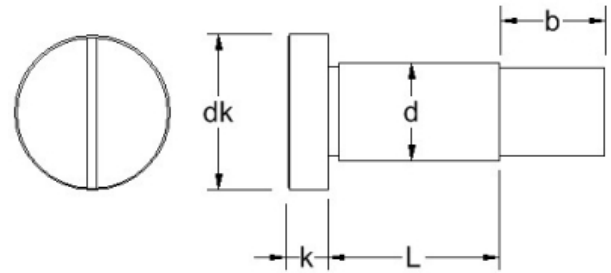
Material grades: A2: ● A4: ▲

b	1/8	5/32	3/16	3/16	1/4	7/16	1/2											
dk	3/16	1/4	9/32	5/16	3/8	7/16	9/16											
k	1/16	3/32	5/64	7/64	1/8	1/8	3/32											
Thread	2-56	4-40	6-32	8-32	10-32	1/4-20	5/16-18											
Length/d	3/32	1/8	5/32	3/16	1/4	5/16	3/8											
1/16	●▲	●▲																
3/32	●▲	●▲																
1/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
5/32	●▲	●▲																
3/16	●▲	●▲	●▲	●▲	●▲													
1/4	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
5/16	●▲	●▲	●▲	●▲	●▲													
3/8	●▲	●▲	●▲	●▲	●▲	●▲	●▲											
1/2		●▲		●▲	●▲	●▲	●▲											
5/8				●▲	●▲	●▲	●▲											
3/4				●▲	●▲	●▲	●▲											
1				●▲	●▲	●▲	●▲											

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ULTRA LOW HEAD SLOTTED SHOULDER SCREWS



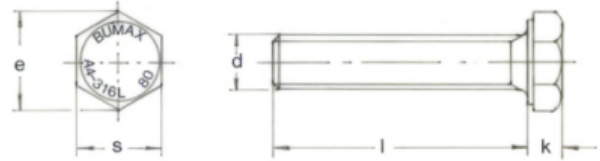
Material grades: **A4: ▲**

b	1/8	5/32	3/16	3/16	1/4													
dk	3/16	1/4	9/32	5/16	3/8													
k	1/32	3/64	3/64	3/64	1/16													
Thread	2-56	4-40	6-32	8-32	10-32													
Length/d	3/32	1/8	5/32	3/16	1/4													
1/8	▲	▲	▲	▲														
3/16	▲	▲	▲	▲														
1/4	▲	▲	▲	▲	▲													
5/16	▲	▲	▲	▲	▲													
3/8	▲	▲	▲	▲	▲													
1/2		▲	▲	▲	▲													
5/8				▲	▲													
3/4				▲	▲													
1				▲	▲													

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BUMAX HEXAGON SET SCREWS ANSI B18.2.1



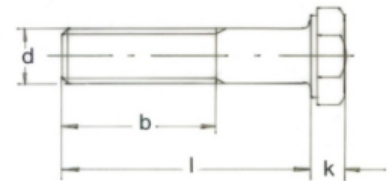
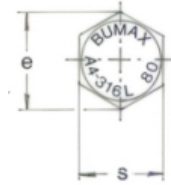
Material grades: **BUMAX 88** ♦

k (Max)	0.163	0.211	0.243	0.627	0.403	0.483												
s (Max)	0.438	0.500	0.562	1.500	0.938	1.125												
T.P.I UNC	20	18	16	8	11	10												
Length/dim	1/4-20	5/16-18	3/8-16	1/2-13	5/8-11	3/4-10	1-8											
1/2	♦	♦																
5/8	♦	♦	♦															
3/4	♦	♦	♦															
7/8			♦															
1		♦	♦	♦	♦													
1.1/4				♦	♦	♦												
1.1/2				♦	♦	♦												
1.3/4					♦	♦												
2						♦	♦											
2.1/4							♦											
2.1/2							♦											

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BUMAX HEXAGON BOLTS ANSI B18.2.1

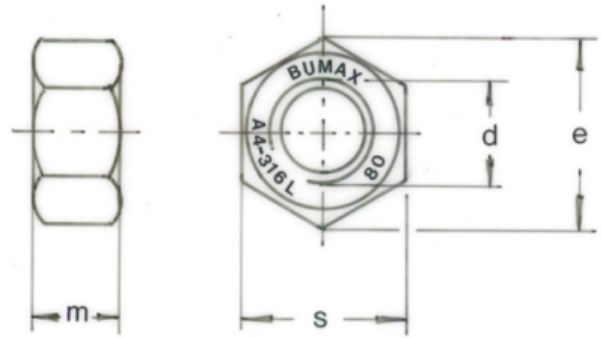


Material grades: **BUMAX 88** ♦

k (Max)	0.163	0.211	0.243	0.323	0.403	0.483	0.563	0.627									
s (Max)	0.438	0.500	0.562	0.750	0.938	1.125	1.312	1.500									
Length/dim	1/4-20	5/16-18	3/8-16	1/2-13	5/8-11	3/4-10	7/8-9	1-8									
1	♦																
1.1/4	♦	♦	♦														
1.1/2	♦	♦	♦														
1.3/4	♦	♦	♦	♦													
2	♦	♦	♦	♦	♦												
2.1/4			♦	♦	♦	♦											
2.1/2	♦	♦	♦	♦	♦	♦	♦										
2.3/4			♦	♦	♦	♦	♦										
3	♦	♦	♦	♦	♦	♦	♦	♦									
3.1/4			♦	♦	♦	♦	♦	♦									
3.1/2		♦	♦	♦	♦	♦	♦	♦									
4		♦	♦	♦	♦	♦	♦	♦									
4.1/2			♦	♦	♦	♦	♦	♦									
5			♦	♦	♦	♦	♦	♦									
5.1/2				♦	♦	♦		♦									
6			♦	♦	♦	♦	♦	♦									
6.1/2						♦		♦									
7						♦											

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BUMAX HEXAGON FULL NUTS ANSI B18.2.2



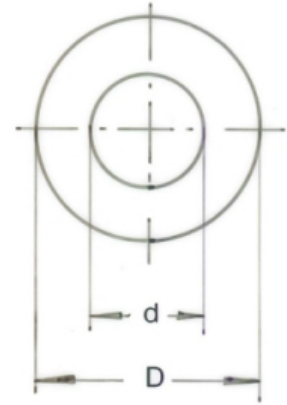
Material grades: **BUMAX 88** ♦

e	s x 1.15	s x 1.15	s x 1.15	s x 1.15	s x 1.15	s x 1.15	s x 1.15										
m (Max)	0.226	0.273	0.337	0.887	0.559	0.665	0.776										
s (Max)	0.438	0.500	0.562	1.500	0.938	1.125	1.312										
T.P.I UNC	20	18	16	8	11	10	9										
Length/dim	1/4-20	5/16-18	3/8-16	1/2-13	5/8-11	3/4-10	7/8-9	1-8									
	♦	♦	♦	♦	♦	♦	♦	♦									

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BUMAX FLAT WASHERS ANSI B18.22.1 200HV

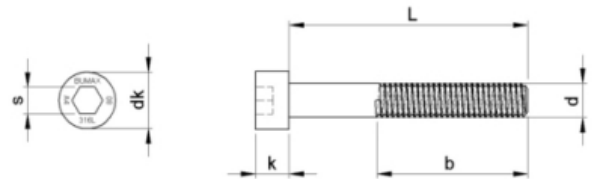


Material grades: **BUMAX 88** ♦

D	0.625	0.750	0.875	1.250	1.500	1.875	2.00	2.00									
d	0.281	0.343	0.406	0.531	0.687	0.812	0.937	1.062									
t	0.050	0.050	0.050	0.062	0.078	0.109	0.109	0.125									
Length/dim	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1									
	♦	♦	♦	♦	♦	♦	♦	♦									

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BUMAX SOCKET CAP SCREWS ANSI B18.3



Material grades: **BUMAX 88** ♦

	1.00 - 1.50	1.12 - 1.71	1.25 - 1.94	2.50 - 4.12	1.75 - 2.82	2.00 - 3.25	2.25 - 3.69								
b	1.00 - 1.50	1.12 - 1.71	1.25 - 1.94	2.50 - 4.12	1.75 - 2.82	2.00 - 3.25	2.25 - 3.69								
dk (Max)	0.375	0.469	0.562	1.500	0.938	1.125	1.312								
k (Max)	0.250	0.312	0.375	1.000	0.625	0.750	0.875								
s	3/16	1/4	5/16	3/4	1/2	5/8	3/4								
T.P.I UNC	20	18	16	8	11	10	9								
t (Min)	0.120	0.151	0.182	0.495	0.307	0.370	0.432								
Length/dim	1/4-20	5/16-18	3/8-16	1/2-13	5/8-11	3/4-10	7/8-9	1-8							
1/2	♦	♦													
5/8	♦	♦													
3/4	♦	♦	♦												
7/8	♦	♦	♦												
1	♦	♦	♦	♦											
1.1/4	♦	♦	♦	♦	♦										
1.1/2	♦	♦	♦	♦	♦										
1.3/4			♦		♦										
2		♦	♦	♦	♦	♦	♦	♦							
2.1/4				♦	♦										
2.1/2			♦	♦	♦	♦									
3				♦	♦	♦	♦	♦							
4					♦		♦	♦							

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