

CAP SCREWS & BOLTS

DIN 603 Carriage Bolt, A2 SS

DIN 603 Carriage Bolt, A4 SS

DIN 931 Class 8.8 Hex Cap Screw, Steel Zinc

DIN 931 Class 10.9 Hex Cap Screw, Plain Steel

DIN 933 Class 8.8 Hex Cap Screw, Steel Zinc

DIN 933 Class 10.9 Hex Cap Screw, Plain Steel

DIN 6921 Flange Screw

- · A2 Stainless
- · Class 8.8 RoHS Zinc
- · Class 8.8 Plain
- · Class 10.9 Black Phosphate
- · Class 10.9 Plain

DIN 6921 Serrated Flange Screw

- A2 Stainless
- · Class 8.8 Zinc

MACHINE SCREWS

DIN 965 Flat Phillips (Type H)

- 18-8 Stainless
- · A4 Stainless
- Black Oxide over 18-8 SS
- · Steel Zinc
- Steel Black Oxide

DIN 7985 Six-Lobe Pan Steel, RoHS Zinc

DIN 7985A Pan Phillips (Type H)

- 18-8 SS
- A4 Stainless
- Black Oxide over 18-8 SS
- · Steel Zinc
- Steel Black Oxide

ISO 7045 Pan Six-Lobe

- A2 SS
- · Steel Black Oxide
- · Steel RoHS Zinc

ISO 14581 Flat Six-Lobe

- Class 8.8 Steel RoHS Zinc
- 18-8 Stainless

ISO 14583 Pan Six-Lobe

- · Class 8.8 Steel RoHS Zinc
- A2 Stainless
- A4 Stainless

JIS-B1111 Small Head Pan Phillips

- Steel Zinc
- A2 Stainless

JIS-B 1111 Truss Phillips A2 Stainless

ELECTRONIC HARDWARE

Self-Clinching Nut, Steel Zinc

Flush Head Self-Clinching Studs, Steel Zinc

Hex Male-Female Standoffs

- · 4.5mm Aluminum
- 6 mm Aluminum
- 4.5 mm 18-8 SS
- 6 mm 18-8 SS

RIVET NUTS

Hex Body Thin Head, Steel Zinc Yellow Round Ribbed Body

- Small Head, Steel Zinc Yellow
- · Large Flange, Steel Zinc Yellow

Round Body Large Flange

- Aluminum
- · Steel Zinc Yellow

SPRING PINS

THREAD-ROLLING SCREWS

DIN 7500-C Pan Type Z Recess (1A)

- · Steel Zinc & Waxed
- · Steel RoHS Zinc Yellow & Waxed
- · Steel Black Zinc & Waxed
- 18-8 SS, Passivized & Waxed

DIN 7500-CE Pan Six-Lobe Recess

- 18-8 SS, Passivized & Waxed
- · Steel Zinc & Waxed

DIN 7500~D Hex Washer Unslotted

- 18-8 SS, Passivized & Waxed
- · Steel Zinc & Waxed
- · Steel Zinc Black & Waxed

DIN 7500-M Flat Six-Lobe

18-8 SS, Passivized & Waxed

DIN 7500-M Flat Type Z Recess (1A)

- Steel Zinc & Waxed
- 18-8 SS, Passivized & Waxed

Alternatives To Plastite® / Plas-Fix® 45

- Flat Six-Lobe, Steel RoHS Zinc
- Pan Six-Lobe, Steel RoHS Zinc
- · Pan Pozi, Steel RoHS Zinc

THREAD-FORMING SCREWS

Alternatives to EJOT® Type-PT®, A2 Stainless

- Flat Phillips
- · Pan Phillips
- Flat Six-Lobe
- Pan Six-Lobe
- Round Washer Six-Lobe

Alternatives to EJOT® Type-PT®, Steel Zinc

- Flat Phillips
- · Pan Phillips
- · Flat Six-Lobe
- Pan Six-Lobe
- · Round Washer Six-Lobe

SEMS

DIN 7985A Pan Phillips

- Flat Washer to DIN 6902A, Steel Zinc
- · Internal Tooth, A2 SS
- Spring Lock Washer, 18-8 SS
- Spring Lock Washer, Steel Zinc

ISO 7045 Pan Phillips

- Conical Washer, Stainless
- · Conical Washer, Steel Zinc
- External Tooth L/W, Stainless
- · External Tooth L/W, Steel Black Oxide
- External Tooth L/W, Steel Zinc
- Internal Tooth L/W, Stainless
- Internal Tooth L/W, Steel Zinc
- Helical Split L/W, A2 StainlessHelical Split L/W, Steel Zinc

JIS-B1187 Hex Phillips Split Lock/Flat Washer

- Steel Zinc Yellow
- · Steel RoHS Zinc Yellow

JIS-B1188 Pan Phillips

- Split L/W, Steel Zinc
- Split Lock/Flat Washer, A2 Stainless
- Split Lock/Flat Washer, Steel Zinc
- Split Lock/Flat Washer, Steel Zinc Yellow
- Split Lock/Flat Washer, Steel RoHS Zinc Yellow
- External Tooth, Steel Zinc Yellow
- External Tooth, Steel RoHS Zinc Yellow
- Internal Tooth L/W, Steel RoHS Zinc Yellow

NUTS

Cage Nuts, Steel Zinc

Coupling, Type-9070 Round, A2 Stainless

DIN 439 B Hex Jam

- · Class A2 Stainless
- · Steel Zinc

DIN 466 Knurled Thumb, A2 Stainless

DIN 557 Square, A2 Stainless

DIN 562 Thin Square, A2 Stainless

DIN 917 Low-Type Hex Cap, A2 Stainless

DIN 934 Hex

- Classes 6 & 8, Style 1, Steel Zinc
- · Class 10, Style 1, Steel Zinc
- · Class 10, Style 1, Plain Steel
- · Class 50, 18-8 SS
- Class 50, A4 SS
- Class 50, Black Oxide over 18-8

DIN 980 Prevailing Torque Top Lock, A2 Stainless

DIN 982 Nylon Insert High Hex Stop

- A2 Stainless
- A4 Stainless

DIN 985 Nylon Insert Stop

- 18-8 Stainless
- A4 Stainless
- · Class 8, Steel Zinc
- · Class 8, Steel Black Oxide

DIN 986 Nylon Insert Dome Cap Stop, A2 Stainless

DIN 1587 Acorn Cap

- · A2 Stainless
- A4 Stainless

DIN 6334 Hex Coupling

- A2 Stainless
- A4 Stainless

DIN 6923 Serrated Flange

- Class 70 A2 Stainless
- Class 8 Steel Zinc

DIN 6923 Flange

- 18-8 & 316 Stainless
- Class 8 Steel RoHS Zinc
- Class 8 Steel RoHS Zinc Yellow
- Class 8 Steel RoHS Zinc Yellow, Serrated
- Class 10 Steel RoHS Zinc & Zinc Yellow Baked

DIN 6926 Nylon Insert Flange

- A2 Stainless
- · A2 Stainless, Serrated
- · Class 8 Steel Zinc

DIN 6927 Flange Top Lock

• Class 10 Steel Black Phosphate & Oil

ISO 4032 Class A2-70 Stainless

K-Lock Nuts

- A2 Stainless
- Class 8 Steel Zinc

Prevailing Torque Lock Nuts, Class 10 Steel

- · DIN980V, Cad & Wax
- ASME B18.16.3M, Cad & Wax

Wing Nuts, Cold Forged, Steel Zinc

- Wing Nuts, Type-315 American-Style
 A2 Stainless
 - A4 Stainless

WELD NUTS

Offset Hole, Single Projection

Center Hole, Multiple Projection

DIN 928 Square

- A2 SS
- Steel Plain

DIN 929 Hex

- A2 SSA4 SS
- Steel Plain

WASHERS

DIN 125A Standard Flat

- 18-8 SS
- Black Oxide over 18-8 SS
- · Steel Zinc

DIN 127B Split Lock

- 18-8 SS
- Black Oxide over 18-8 SS
- · Steel Zinc
- · Steel Thermal Black

DIN 128 Curved Spring Lock

- A2 Stainless
- A4 Stainless

DIN 433 Small Flat, Steel Zinc

DIN 6797A External Tooth Lock

- A2 Stainless
- · Steel Black Oxide
- Steel Zinc

DIN 6797J Internal Tooth Lock

- A2 Stainless
- · Steel Black Oxide
- Steel Zinc

DIN 6798 Serrated Ext Tooth Lock, A2 Stainless

DIN 7980 High Collar Split Lock

- A2 Stainless
- Steel Plain
- Steel Zinc

DIN 9021 Fender

- A2 Stainless
- A4 Stainless

Finishing, Countersunk

- A2 Stainless
- A4 Stainless

Serrated Conical Spring Lock, A2 Stainless

SOCKETS (SIX-LOBE & HEX)

ISO 7380 Six-Lobe Button Head

- · Class 10.9 Steel Zinc
- A2 Stainless

HEX SOCKETS (BLUE DEVIL® — ALLOY)

Socket Head Cap Screws

Flat Head Cap Screws

Button Head Cap Screws

Socket Set Screws—Cup Point Hex Wrenches—Short Arm

WOOD-WORKING SCREWS

European Drawer Screws—Flat Head

- Phillips, Steel Zinc
- Phillips, Steel Nickel
- Pozi, Steel NickelSquare Recess, Steel Zinc
- · Square Recess, Steel Nickel

WING SCREWS

Light Series Cold Forged American-Type, A2 SS

DIN Standard	ISO Standard	JIS Standard	Bossard Standard		
			Steel Zinc (Unless Noted)	Stainless (Class Noted)	Category Descriptions
13	68				Internal Threads, Class 6H
13	898-1				External Threads, Class 6g
13	R1501				Internal Threads, Class 6H
84	1207		330	650 (A2) 651 (A4)	Machine Screws, Slotted Cheese Head
85	1580		344	652 (A2) 653 (A4)	Machine Screws, Slotted Pan Head
125A	7089		715	670 (A2) 671 (A4)	Flat Washers, Standard
126	7091		724		Flat Washers, Wider I.D.
127B			762	672 (A2) 673 (A4)	Split Lockwashers
128			769	674 (A2) 8856 (A4)	Curved Spring Lockwashers
267	4759/1				Tolerance Values for Metric Fasterners
315			208		Malleable Cast Wing Nuts
439B	4035		124	630 (A2) 631 (A4)	Hex Jam Nuts
433	7092		726	1414 (A2) 6 (A4)	Flat Washers, Small O.D.
466			215	10904 (A1)	Knurled Thumb Nuts
557			147	10769 (A2)	Square Nuts
562			145	3525 (A2)	Thin Square Nuts
603	8677	B1171	30401	645 (A2) 31107 (A4)	Carriage Bolts, Regular Square Neck
603	8678	B1171			Carriage Bolts, Short Neck
911	2936		1169*		Hex Keys
912	4762		8**	611 (A2) 613 (A4)	Socket Head Cap Screws, Partially Threaded
712			7**	610 (A2) 612 (A4)	Socket Head Cap Screws, Fully Threaded
913	4026		24*	617 (A2) 4723 (A4)	Socket Set Screws - Flat Point
914	4027		25*	618 (A2) 33032 (A4)	Socket Set Screws - Cone Point
915	4028		26*	619 (A2)	Socket Set Screws - Dog Point
916	4029		27*	621 (A2) 4721 (A4)	Socket Set Screws - Cup Point
917			154 (Cl 6 ZP)	13244 (A2) 634 (A4)	Hex Cap Nut, Low Type
929			193 (plain)	31 (A2) 10766 (A4)	Hex Weld Nuts, with 3 Projections
931	4014		55 (8.8 plain) 57 (8.8 ZP) 72 (10.9 plain)	623 (A2) 625 (A4)	Hex Bolts, Partial Thread
933	4017		56 (8.8 ZP) 71 (10.9 plain)	622 (A2) 624 (A4)	Hex Cap Screws, Full Thread
934	4032		109 (CI 6 ZP) 117 (CI 8 ZP) 121 (CI 10 plain)	5713 (A2) 2586 (A4)	Hex Nuts, Style 1, Class 6, 8 (some sizes), 10 (some sizes)Coarse
934K			1364		K-Lock Nuts, Class 8

DIN Standard	ISO Standard	JIS Standard	Bossard Standard		
			Steel Zinc (Unless Noted)	Stainless (Class Noted)	Category Descriptions
963	2009		357	654 (A2) 655 (A4)	Machine Screws, Slotted Flat Head
964	2010		368	656 (A2) 657 (A4)	Machine Screws, Slotted Oval Head
965	7046		388 (Phil)	661 (A2 Phil)	Machine Screws, Phillips Flat Head
966	7047		392	78 (A2)	Machine Screws, Phillips Oval Head
970	4032				Hex Nuts, Style 1, Classes 6, 8 & 10
980 V	7719		40036 (CI 10 ZP)	5242 (A2)	All Metal Lock Nuts
982	7041		164 (Cl 8 ZP)	20739 (A2) 2079 (A4)	Nylon Insert Lock Nuts, Heavy Pattern
985	7040		163 (Cl 8 ZP)	637 (A2) 1722 (A4)	Nylon insert Lock Nuts, Regular Pattern
986			167 (CI 6/8 ZP)		Prevailing Torque Domed Hex Cap Nuts
1587			150 (Cl 6 ZP)	635 (A2) 1721 (A4)	Domed Hex Cap Nuts
3155					Cold Formed Wing Nuts, Class 5
6334					Hex Coupling Nuts
6797A		B1255	789	2842 (A2)	External Tooth Lockwashers
6797J		B1255	790	2843 (A2)	Internal Tooth Lockwashers
6798A			781	675 (A2)	Serrated External Tooth Lockwashers
6798V		B1255	30718		Countersunk External Tooth Lockwasheres
6921		B1189	41200 (CI 8.8 ZP) 20170 (CI 8.8 ZP)•		Flange Bolts
6923	4161	B 1190	41187 (CI 8 ZP) 1973 (CI 8 ZY) 30312 (CI 8 ZP) •	14476 (A2) 11207 (A4) •	Flange Nuts
6926	7043		6783		Prevailing Torque Hex Flange Lock Nuts
6999D		B1255			Combination External-InternalTooth Lockwashers
7971C	1481		941	692 (A2)	Slotted Tapping Screws - Pan Head
7972C	1482		990	693 (A2)	Slotted Tapping Screws - Flat Head
7973C	1483		991		Slotted Tapping Screws - Oval Head
7976C	1479		2707		Slotted Tapping Screws - Hex Head
7981C	7049		994	695 (A2)	Phillips Tapping Screws - Hex Head
7982C	7050		995	696 (A2)	Phillips Tapping Screws - Flat Head
7983C	7051		996	697 (A2)	Phillips Tapping Screws - Oval Head
7985	7045		384	660 (A2)	Machine Screws, Phillips Pan Head
7991	10632		20 (Cl 10.9 plain)	616 (A2)	Flat Socket Cap Screws



FREQUENTLY ASKED QUESTIONS

DIN, ISO & JIS Standards... Why so many?

- DIN standards originated in Germany in the early 20th century
- JIS (Japanese Industrial Standards) was established following World War II
- ISO standards organization followed a year after JIS but it was not until 2001 that the fastener industry "agreed" that ISO would become the one universal metric fastener system

The mission of any distributor, however, is to provide the customer with what he/she wants and in the metric fastener industry, that often means supplying parts to the DIN or JIS standards as well as ISO.

Why? Often, this demand is driven by end users who require parts that were written into an older design. There is nothing improper about requiring or selling fasteners to an older standard, if that is what the customer wants. The chart that is included elsewhere in this document lists which standards are equivalent to each other. In some cases, a DIN fastener may be identical to the equivalent ISO standard—but not always.

Kanebridge carries some fastener varieties to multiple standards to meet the specific demands our customers need to meet.

What are A2 and A4 stainless steels?

A2 and A4 are ISO (International Standards Organization) designations for different varieties of austenitic stainless.

- A2 is comparable to 18-8 stainless—most specifically Class 304
- A4 is closely comparable to 316 stainless

The A2 and A4 can also be followed by a hyphen and another number.

- -50 denotes a "soft" stainless
- -70 means the material has been "cold-worked"
- · -80 denotes "high-strength"

If you see a fastener marked as A2 or A4 stainless, you can be sure it is metric.

How is Thread Pitch designated on metric fasteners?

The thread pitch of metric screws and nuts is measured as the distance from thread to the next adjacent thread (in millimeters). For this reason, a coarse thread part will have a greater thread pitch than a fine thread part of the same diameter. Inch-sized parts, on the other hand, typically refer to the number of threads per inch when distinguishing between coarse and fine thread variations.

How are metric countersunk (flat) heads different from Imperial (inch) flat heads?

Inch-sized flat head screws are available with an 82° or a 100° countersink. The standard countersink angle for metric flat heads is 90°. Also, metric flat heads are rarely furnished with an undercut head.

How do I tell the difference between the various bolt grades in the metric system?

As with Imperial (inch) bolts and cap-screws, metric hex bolts are marked on the top of the head with that bolt's "class" of steel.

- The two most common classes are 8.8 and 10.9—the heads are marked with those numbers. A metric Class 8.8 bolt is approximately equivalent to an Imperial Grade-5 and a Class 10.9 is equivalent to a Grade-8. Some metric socket cap screws are made of a Class 12.9 alloy steel that has greater tensile strength than a Class 10.9.
- A low-carbon steel metric screw or bolt is typically a Class 4.8, equivalent to a Grade-2. Just as a Grade-2 part does not require head markings, neither does a Class 4.8.
- Metric nut classes are noted by whole numbers. Class 4 and 6 nuts are low-carbon, Class 8 is equivalent to a Grade-5 and Class 10 is equivalent to a Grade-8 nut.

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We will accept returns of full carton quantities for any reason. There is no restocking charge on items returned within 30 days, without any alterations and accompanied with a return authorization. Material returned after 30 days will be subject to a 20% restocking charge; after 90 days returns may not be accepted. We prefer returns in our original boxes and lots must not be mingled. Thru-hardened or military grade fasteners will not be accepted unless returned in the original box(es).



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