

MASTER CATALOGUE

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Socket Head Cap Screws



METRIC

Family Code	Description
718	8.8 DIN912 Plain
854	8.8 DIN912 Zinc
532	12.9 DIN912 Plain
876	12.9 DIN912 Zinc CR+3
558	12.9 DIN912 Fine Pitch Plain
731	12.9 DIN912 Zinc Yellow
841	12.9 DIN912 Mechanical Zinc
538	Stainless A2-70 DIN912

IMPERIAL

Family Code	Description
011/581	1936/1960 UNC/UNF Plain
837	1960 UNC/UNF Mechanical Zinc
307	1936 British UNC/UNF/UNS plain
813	WHIT/BSF BS2470 Plain
820	BA BS2470 Plain
012/592	Stainless A2 (18-8) 1960 UNC/UNF
014	Stainless A4 (316) UNC/UNF

PRODUCT SIZE / RANGE

Diameter	Min. Length	Max Length	Diameter	Min. Length	Max Length
#0	1/8"	3/4"	M1.4	5 MM	5 MM
#1	1/8"	1/2"	M1.6	3 MM	12 MM
#2	3/32"	1"	M2	3 MM	16 MM
#3	3/16"	1"	M2.5	4 MM	28 MM
#4	1/8"	2"	M3	4 MM	60 MM
#5	1/8"	2"	M4	5 MM	100 MM
#6	1/8"	3"	M5	6 MM	200 MM
#8	1/8"	3"	M6	6 MM	200 MM
#10	3/16"	6"	M8	8 MM	190 MM
#12	3/8"	1 1/2"	M10	10 MM	260 MM
1/8"	3/8"	3/4"	M12	12 MM	300 MM
3/16"	1/4"	2"	M14	20 MM	260 MM
1/4"	1/4"	8"	M16	20 MM	360 MM
5/16"	3/8"	6 1/2"	M18	30 MM	300 MM
3/8"	3/8"	8"	M20	30 MM	500 MM
7/16"	5/8"	6"	M22	45 MM	280 MM
1/2"	3/8"	16"	M24	40 MM	350 MM
9/16"	1"	4"	M27	60 MM	380 MM
5/8"	5/8"	12"	M30	60 MM	440 MM
3/4"	3/4"	14"	M36	70 MM	400 MM
7/8"	1 1/4"	9"	M42	100 MM	340 MM
1"	1 1/2"	12"			
1 1/8"	4"	5"			
1 1/4"	2 1/2"	12"			
1 3/8"	4"	6"			
1 1/2"	2 1/2"	12"			
1 3/4"	3 1/2"	3 1/2"			
2"	14"	14"			

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Countersunk Head Socket Screws



METRIC

Family Code	Description
564	10.9 DIN7991 Plain
734	10.9 DIN7991 Zinc Yellow
888	10.9 DIN7991 Zinc CR+3
823	Stainless A2-70 DIN7991

IMPERIAL

Family Code	Description
211/721	UNC/UNF Plain
840	UNC/UNF Mechanical Zinc
814	WHIT/BSF BS2470 Plain
818	BA BS2470 Plain
212/712	Stainless A2 (18-8)



PRODUCT SIZE / RANGE

Diameter	Min. Length	Max Length
#0	1/8"	1"
#1	1/8"	1"
#2	1/8"	1"
#3	3/16"	1"
#4	3/16"	1 1/2"
#5	3/16"	1 1/2"
#6	3/16"	8"
#8	3/16"	3"
#10	1/4"	4"
#12	3/8"	3"
3/16"	1/4"	1 1/2"
1/4"	1/4"	6"
5/16"	3/8"	4"
3/8"	3/8"	6"
7/16"	3/4"	4"
1/2"	1/2"	8"
5/8"	1"	8"
3/4"	3/4"	8"
7/8"	1 3/4"	8"
1"	1 3/4"	8"
1 1/4"	3"	8"

Diameter	Min. Length	Max Length
M2	4 MM	20 MM
M2.5	4 MM	25 MM
M3	4 MM	60 MM
M4	5 MM	80 MM
M5	5 MM	120 MM
M6	6 MM	150 MM
M8	8 MM	160 MM
M10	10 MM	200 MM
M12	15 MM	240 MM
M14	20 MM	150 MM
M16	20 MM	260 MM
M20	25 MM	300 MM
M24	40 MM	240 MM
M30	50 MM	140 MM

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Button Head Socket Screws

METRIC

Family Code	Description
565	10.9 ISO7380 Plain
735	10.9 ISO7380 Zinc Yellow
889	10.9 ISO7380 Zinc CR+3
765	10.9 Flange Button Head Plain
750	10.9 Flange Button Head Zinc
824	Stainless A2-70 ISO7380

IMPERIAL

Family Code	Description
201/701	UNC/UNF Plain
839	UNC/UNF Mechanical Zinc
817	WHIT/BSF BS2470 Plain
819	BA BS2470 Plain
202/702	Stainless A2 UNC/UNF

PRODUCT SIZE / RANGE

Diameter	Min. Length	Max Length	Diameter	Min. Length	Max Length
#0	1/8"	1"	M2	3 MM	16 MM
#1	1/8"	1"	M2.5	3 MM	20 MM
#2	1/8"	1"	M3	4 MM	40 MM
#3	3/16"	1"	M4	4 MM	50 MM
#4	1/8"	1 1/4"	M5	5 MM	65 MM
#5	1/4"	1 1/2"	M6	5 MM	90 MM
#6	1/8"	3"	M8	8 MM	140 MM
#8	3/16"	2"	M10	10 MM	120 MM
#10	3/16"	3"	M12	14 MM	120 MM
3/16"	1/4"	1"	M14	30 MM	85 MM
1/4"	1/4"	4"	M16	20 MM	120 MM
5/16"	3/8"	4"	M20	25 MM	150 MM
3/8"	3/8"	5"	M24	60 MM	150 MM
7/16"	1"	1"			
1/2"	3/4"	4"			
5/8"	1"	4"			



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Socket Set Screws



METRIC

Family Code	Description
832	45H DIN913 Flat Point Plain
831	45H DIN914 Cone Point Plain
833	45H DIN915 Dog Point Plain
533	45H DIN916 Cup Point Plain
877	45H DIN916 Cup Point Zinc CR+3
821	45H DIN916 Knurled Cup Point Plain
539	Stainless A2 DIN916 Cup Point

IMPERIAL

Family Code	Description
101/601	UNC/UNF Cup Point Plain
111	UNC/UNF Knurled Cup Point Plain
121/604	UNC/UNF Cone Point Plain
131/605	UNC/UNF Oval Point Plain
141/606	UNC/UNF 1/2 Dog Point Plain
151/603	UNC/UNF Flat Point Plain
722	WHIT BS2470 Cup Point Plain
723	BSF BS2470 Cup Point Plain
724	BA BS2470 Cup Point Plain
102/602	Stainless A2 (18-8) UNC/UNF Cup Point
703	Stainless A2 (18-8) UNC/UNF Flat Point
706	Stainless A2 (18-8) UNC/UNF 1/2 Dog Point
104	Stainless A4 (316) UNC/UNF Cup Point

PRODUCT SIZE / RANGE

Diameter	Min. Length	Max Length	Diameter	Min. Length	Max Length
#0	1/16"	1/4"	M1.6	2 MM	6 MM
#1	1/16"	1/4"	M2	2.5 MM	25 MM
#2	1/16"	3/4"	M2.5	3 MM	12 MM
#3	1/8"	3/16"	M3	3 MM	25 MM
#4	3/32"	5/8"	M4	3 MM	35 MM
#5	1/8"	3/4"	M5	4 MM	50 MM
#6	1/8"	2"	M6	5 MM	50 MM
#8	1/8"	1 1/2"	M8	6 MM	80 MM
#10	1/8"	2 1/2"	M10	8 MM	100 MM
1/8"	3/16"	1/2"	M12	10 MM	100 MM
5/32"	5/16"	5/16"	M14	16 MM	40 MM
3/16"	3/16"	1 1/4"	M16	16 MM	100 MM
1/4"	3/16"	2 3/4"	M20	20 MM	100 MM
5/16"	1/4"	3"	M24	25 MM	100 MM
3/8"	1/4"	3 1/2"			
7/16"	3/8"	2 1/2"			
1/2"	3/8"	4"			
9/16"	1/2"	1/2"			
5/8"	1/2"	5"			
3/4"	5/8"	4"			
7/8"	7/8"	3"			
1"	1"	4"			
1 1/4"	4"	4"			

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Socket Shoulder Screws

METRIC

Family Code	Description
537	12.9 ISO7379 Plain

IMPERIAL

Family Code	Description
221/771	UNC/UNF Plain
710	Stainless A2 (18-8) UNC/UNF

PRODUCT SIZE / RANGE

Diameter	Min. Length	Max Length	Diameter	Min. Length	Max Length
1/4"	1/4"	3"	M6	6 MM	100 MM
5/16"	1/4"	3 1/2"	M8	8 MM	100 MM
3/8"	1/4"	4 1/2"	M10	10 MM	120 MM
1/2"	1/2"	5"	M12	12 MM	140 MM
5/8"	1/2"	6"	M16	20 MM	140 MM
3/4"	1/2"	6 1/2"	M20	25 MM	120 MM
1"	1 1/2"	3"	M24	40 MM	120 MM



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Low Head Socket Cap Screws



METRIC

Family Code	Description
531	10.9 DIN7984 Plain

IMPERIAL

Family Code	Description
019	UNC/UNF Plain



PRODUCT SIZE / RANGE

Diameter	Min. Length	Max Length
#8	3/8"	1"
#10	3/8"	1"
1/4"	3/8"	1 1/4"
5/16"	1/2"	1 1/2"
3/8"	1/2"	1 1/2"
1/2"	3/4"	1 1/2"

Diameter	Min. Length	Max Length
M3	25 MM	25 MM
M4	6 MM	40 MM
M5	8 MM	50 MM
M6	8 MM	60 MM
M8	10 MM	80 MM
M10	12 MM	80 MM
M12	20 MM	150 MM
M16	20 MM	100 MM
M20	50 MM	70 MM

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Pressure Plugs



Family Code	Description
231	Imperial Taper Pressure Plugs Alloy Dry-Seal 3/4" Taper Black Oxide
233	Imperial Taper Pressure Plugs Alloy Flush-Seal 7/8" Taper Black Oxide
230	Imperial Taper Pressure Plugs Brass Dry-Seal 3/4" Taper
232	Imperial Taper Pressure Plugs Stainless Steel 18-8 Dry-Seal 3/4" Taper
822	Imperial Taper Pressure Plugs Alloy BSPT

PRODUCT SIZE / RANGE

Min. Size	Max Size
1/16	2

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Hex Head Bolts / Set Screws



METRIC

Family Code	Description
643	8.8 DIN933/DIN961 Plain
644	8.8 DIN931/DIN960 Plain
883	8.8 DIN933/DIN961 Zinc CR+3
884	8.8 DIN931/DIN960 Zinc CR+3
460	10.9 DIN931/DIN933 Zinc CR+3
461	10.9 DIN931 Plain
462	10.9 DIN933 Plain
631	Stainless A2-70 DIN931
827	Stainless A2-70 DIN933
794	Stainless A4-80 DIN 931
795	Stainless A4-80 DIN 933

IMPERIAL

Family Code	Description
846	Grade 5 UNC/UNF/UNS Plain
847	Grade 5 UNC/UNF/UNS Zinc CR+3
451	Grade 8 UNC/UNF/UNS Plain
454	Grade 8 UNC/UNF/UNS Zinc Yellow CR+3
455	Grade 8 UNC/UNF/UNS Zinc Yellow CR+6
400	Stainless A2 (18-8) UNC/UNF Hex Bolt/Set
401	Stainless A4 (316) UNC/UNF Hex Bolt/Set

PRODUCT SIZE / RANGE

Diameter	Min. Length	Max Length	Diameter	Min. Length	Max Length
1/4"	1/2"	6"	M4	10 MM	35 MM
5/16"	1/2"	6"	M5	8 MM	70 MM
3/8"	1/2"	9"	M6	10 MM	130 MM
7/16"	3/4"	6 1/2"	M8	10 MM	180 MM
1/2"	3/4"	8"	M10	10 MM	220 MM
9/16"	1"	6"	M12	16 MM	300 MM
5/8"	1"	10"	M14	16 MM	180 MM
3/4"	1"	15"	M16	25 MM	280 MM
7/8"	1 1/2"	10"	M18	30 MM	150 MM
1"	1 1/2"	10"	M20	25 MM	300 MM
1 1/8"	3"	7"	M22	30 MM	150 MM
1 1/4"	3"	15"	M24	40 MM	300 MM
1 1/2"	3"	16"	M30	70 MM	300 MM
			M36	130 MM	200 MM



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Hex Nuts

METRIC

Family Code	Description
337	Class 8 DIN 934 Plain
315	Class 10 DIN 934 Zinc CR+3
338	DIN 936 Thin Nut
834	Stainless A2-70 DIN934
559	Stainless A4-80 DIN934

IMPERIAL

Family Code	Description
319	UNC/UNF Zinc CR+3
321	UNC/UNF Zinc Yellow
323	UNC/UNF HDS Galvanized
320	UNC/UNF A563-A Heavy Nut Zinc CR+3
848	Grade 5 UNC/UNF Zinc CR+3
306	Grade 8 UNC/UNF Zinc Yellow CR+6
764	Stainless A2 (18-8) UNC/UNF Machine Nut

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter	Min. Diameter	Max Diameter
1/4"	1 1/2"	M3	M80



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Nylon Insert and All Metal Locking Nuts

METRIC

Family Code	Description
812	Class 8 DIN985/DIN982 Zinc CR+3

IMPERIAL

Family Code	Description
305	Grade A UNC/UNF Zinc CR+3
825	Grade C UNC/UNF Zinc CR+3
828	Grade C UNC/UNF Phos & Oil
310	Stainless A2 (18-8)

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter	Min. Diameter	Max Diameter
#5	1 1/2"	M3	M36



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Dowel Pins



METRIC

Family Code	Description
536	DIN 6325 Through Hardened Plain
548	DIN 7979 Pull Out, Through Hardened Plain

IMPERIAL

Family Code	Description
241	Inch B18.8.2 Through Hardened Plain
261	Inch B18.8.2 Pull Out, Through Hardened Plain
242	Stainless A2 (18-8)

PRODUCT SIZE / RANGE

Diameter	Min. Length	Max Length	Diameter	Min. Length	Max Length
1/16"	1/4"	1"	M2	6 MM	20 MM
3/32"	3/16"	1"	M2.5	6 MM	12 MM
1/8"	1/4"	2"	M3	6 MM	60 MM
3/16"	1/2"	2 1/2"	M4	10 MM	55 MM
1/4"	3/8"	3"	M5	10 MM	80 MM
5/16"	1/2"	3 1/2"	M6	10 MM	100 MM
3/8"	1/2"	4"	M8	12 MM	100 MM
7/16"	1"	3"	M10	16 MM	120 MM
1/2"	3/4"	4"	M12	16 MM	120 MM
5/8"	1"	5"	M14	120 MM	120 MM
3/4"	2"	6"	M16	24 MM	120 MM
7/8"	2"	6"	M20	36 MM	140 MM
1"	2"	4 1/2"	M25	50 MM	150 MM



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Spring Pins



METRIC

Family Code	Description
802	ISO 8752 Black Oxide Med. Carbon

IMPERIAL

Family Code	Description
801	Inch B18.8.2 Black Oxide
803	Stainless 420 (Inch)



PRODUCT SIZE / RANGE

Diameter	Min. Length	Max Length
1/16"	3/16"	1"
5/64"	3/16"	1 1/2"
3/32"	5/16"	1 1/2"
7/32"	9/16"	3"
1/8"	1/4"	1 7/8"
5/32"	3/8"	2 1/4"
3/16"	9/16"	2 1/2"
1/4"	1/2"	3 1/2"
5/16"	3/4"	4"
3/8"	3/4"	4"
7/16"	1"	3 3/4"
1/2"	1 3/4"	3 1/2"

Diameter	Min. Length	Max Length
M3	16 MM	40 MM
M4	6 MM	6 MM
M5	6 MM	70 MM
M6	14 MM	45 MM
M8	16 MM	50 MM
M10	70 MM	70 MM
M12	70 MM	70 MM

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Spring Washers

Family Code	Description
361	DIN 127B Through Hardened Zinc CR+3
341	B18.21.1 Through Hardened Heat Treat Zinc Yellow
342	B18.21.1 Heavy Through Hardened Plain



PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter	Min. Diameter	Max Diameter
1/4"	1 1/2"	M6	M24



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Flat Washers

METRIC

Family Code	Description
368	DIN 125A Plain
370	DIN 125A Zinc CR+3
371	Metric B18.22M Narrow Through Hardened Zinc CR+3
369	Stainless A2 DIN125A

IMPERIAL

Family Code	Description
351	Inch B18.21.1 Through Hardened Zinc Yellow
381	Inch SAE B18.21.1 Through Hardened Zinc Yellow
852	Inch SAE B18.21.1 Through Hardened Zinc CR+3
363	Stainless A2 (18-8) BBI Standard
364	Stainless A4 (316) BBI Standard

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter	Min. Diameter	Max Diameter
1/4"	1"	M3	M36



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Alloy 6150 / 8650 Hex Keys

METRIC

Family Code	Description
513	Metric 6150 CRV Alloy, Short Arm, Black
514	Metric 6150 CRV Alloy, Long Arm, Black
530	Metric 8650 CRV Alloy, Short Arm, Plain
528	Metric 8650 CRV Alloy, Long Arm, Plain
529	Metric & Inch 8650 Key Sets

IMPERIAL

Family Code	Description
511	Inch 6150 CRV Alloy, Short Arm, Black
512	Inch 6150 CRV Alloy, Long Arm, Black
509	Inch 8650 CRV Alloy, Short Arm, Plain
519	Inch 8650 CRV Alloy, Long Arm, Plain

PRODUCT SIZE / RANGE

	Min.	Max
Short Arm	0.028	1 1/4"
Long Arm	0.05	1"

	Min.	Max
Short Arm	M1.5	M32
Long Arm	M1.3	M32



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Low Carbon Square Head Set Screws

Family Code	Description
409	UNC Cup Point Case Hardened Plain
412	UNF Cup Point Case Hardened Plain



PRODUCT SIZE / RANGE

Diameter	Min. Length	Max Length
1/4"	1/2"	2 1/4"
5/16"	5/8"	2"
3/8"	1/2"	5"
7/16"	3/4"	3"
1/2"	3/4"	3 1/2"
5/8"	1 1/4"	4 1/2"
3/4"	1 1/4"	3"
7/8"	3"	3"

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T-Slot Bolts

Family Code	Description
748	T-Slot Bolts Plain (Metric & Inch)



PRODUCT SIZE / RANGE

Diameter	Min. Length	Max Length
3/8"	3 1/2"	4"
1/2"	2"	10"
5/8"	4 1/2"	10"
3/4"	3"	12"
7/8"	3"	9"
1"	3"	16"

Diameter	Min. Length	Max Length
M10	80 MM	80 MM
M12	40 MM	125 MM
M16	50 MM	240 MM
M20	80 MM	180 MM
M24	80 MM	240 MM

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L9[®] Fastening System

Country of Origin: U.S.A.

Family Code	Description
440	L9



PRODUCT SIZE / RANGE

Diameter	Length
1/4"	2 1/2"
1/2"	4 1/2"

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