



ACCURATE
MANUFACTURED
PRODUCTS
GROUP

2022 Look Book



Longevity

AMPG is a privately-owned family business started by current management in 1987. With the second generation in the business, already for many years, we are realizing a future of serving our customers, collaborating with our employees, and contributing to a vibrant domestic manufacturing economy.

Philosophy

We're proud to be an American manufacturer dedicated to innovating, designing, and providing solutions for our diverse customer base. Our philosophy is simple...

"...to provide unparalleled customer service, produce beautiful, precise parts and keep inventory levels high to ship at a moment's notice."

We are committed to our customers and our products.

Stock & Custom...**FAST**

As a precision manufacturer of specialized fasteners, architectural hardware, mechanical components and industrial accessories, AMPG stocks over 35,000 products. We also offer custom manufacturing supported by developing, product testing and engineering services. To see the latest and most complete catalog of our over 35,000 different items, visit www.ampg.com.



How to Buy Our Products

We go to market in partnership with the largest domestic and international distributors in the world, and we thank them for their continued support.

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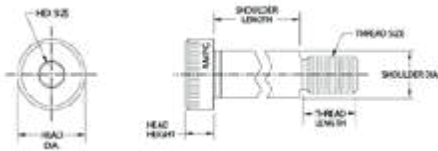
Knurled Head Shoulder Screw



Materials offered in: 316 SS, 18-8 SS, Alloy
Drive type: Hex drive

***Exotic Alloys:** 17-4 PH SS, 316 H5 SS, Aluminum, Monel, Grade 2 & 5 Titanium

AMPG has assembled the most complete line of nonferrous shoulder screws manufactured in North America. Each shoulder bolt is made in one operation on state of the art Swiss Lathes. AMPG begins with precision ground DFARS compliant material. A finished part is made in one operation without the need for secondary broaching, slotting or thread rolling which can lead to many inconsistencies. AMPG's process ensures shoulder diameter concentricity and tight tolerances. Each part is then carefully cleaned and packaged.



Inch

Shoulder Diameter	Thread Size x Lg.	Shoulder Lengths Available (inch)
1/8	4-40 x 5/32	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, 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
5/32	6-32 x 3/16	
3/16	8-32 x 3/16	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, 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, 2-1/2
7/32	8-32 x 3/16	
1/4 Course	10-24 x 3/8	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, 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, 2-1/2, 2-3/4, 3, 3-1/4, 3-1/2, 4, 4-1/2, 5
1/4 Fine	10-32 x 1/4	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, 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, 2-1/2, 2-3/4, 3
5/16	1/4-20 x 7/16	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, 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, 2-1/2, 2-3/4, 3, 3-1/2, 4, 4-1/2, 5, 5-1/2, 6
3/8	5/16-18 x 1/2	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, 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, 2-1/2, 2-3/4, 3, 3-1/2, 3-3/4, 4, 4-1/2, 5, 5-1/2, 6, 6-1/2, 7, 7-1/2, 8
3/8	1/4-20 x 3/4	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, 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, 2-1/2, 2-3/4, 3
1/2	3/8-16 x 5/8	1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 7/8, 1, 1-1/4, 1-1/2, 1-3/4, 2, 2-1/4, 2-1/2, 2-3/4, 4, 4-1/4, 4-1/2, 4-3/4, 5, 5-1/2, 6, 6-1/2, 7, 7-1/2, 8
5/8	1/2-13 x 3/4	1/4, 5/16, 3/8, 7/16, 1/2, 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, 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, 7-1/2, 8
3/4	5/8-11 x 7/8	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, 3-3/4, 4, 4-1/4, 4-1/2, 4-3/4, 5, 5-1/2, 6, 6-1/2, 7, 7-1/2, 8
1	3/4-10 x 1	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, 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, 7-1/2, 8
1-1/4	7/8-9 x 1-1/8	1, 1-1/4, 1-1/2, 1-3/4, 2, 2-1/2, 3, 3-1/2, 4
1-1/2	1-1/8-7 x 1-1/2	1, 1-1/4, 1-1/2, 1-3/4, 2, 2-1/2, 3

Metric

Shoulder Diameter	Thread Size x Lg.	Shoulder Lengths Available (mm)
3mm	M2 x 0.4 x 3.8	3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, 25, 30, 35, 40, 45, 50
4mm	M3 x 0.5 x 4.5	3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, 25, 28, 30, 35, 40, 45, 50
5mm	M4 x 0.7 x 4.5	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 22, 25, 30, 35, 40, 45, 50, 60, 70
6mm	M5 x 0.8 x 9.5	4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 22, 25, 30, 35, 40, 45, 50, 52, 60, 70, 80, 90, 100, 110
8mm	M6 x 1 x 11	6, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 22, 25, 28, 30, 35, 40, 45, 50, 55, 60, 70, 80, 90, 100, 110, 120, 130, 140
10mm	M8 x 1.25 x 13	6, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 22, 25, 30, 35, 40, 45, 50, 55, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150
12mm	M10 x 1.5 x 16	6, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 22, 25, 30, 35, 40, 45, 50, 55, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180
16mm	M12 x 1.75 x 18	10, 12, 16, 19, 20, 22, 25, 30, 35, 40, 45, 50, 55, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190
20mm	M16 x 2 x 22	12, 16, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190
24mm	M20 x 3 x 27	12, 16, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190
30mm	M27 x 3 x 35	50, 60, 70, 80, 90, 100, 120
36mm	M33 x 3.5 x 40	

*Exotic alloys may not be available in all sizes

Shoulder Screws

Shortened Thread Knurled Head



Materials offered in: Alloy (Inch only)
316 SS, 18-8 SS (Metric only)

These speciality shoulder screws have thread lengths that are shorter than our standard knurled head shoulder screws.

Inch

Shoulder Diameter	Thread Size x Lg.	Shoulder Lengths Available (inch)
1/4	10-32 x 5/32	1/4, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2, 2
5/16	1/4-28 x 11/64	
3/8	5/16-24 x 3/16	1/4, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2, 2
1/2	3/8-24 x 13/64	

Metric

Shoulder Diameter	Thread Size x Lg.	Shoulder Lengths Available (mm)
3mm	M2 x 0.4 x 2.5	4, 5, 6, 7, 8, 10
4mm	M3 x 0.5 x 3.8	4, 5, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 35, 40, 45, 50
5mm	M4 x 0.7 x 4.5	4, 5, 6, 8, 10, 12, 16, 20, 25, 30
6mm	M5 x 0.8 x 8	4, 5, 6, 7, 8, 10, 12, 16, 20, 25, 30, 40, 50, 70

Self-Locker Knurled Head



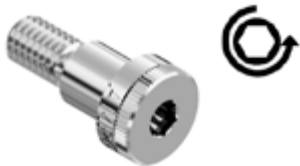
Materials offered in: 316 SS, 18-8 SS

Shoulder screws with AMPG Self-Locker adhesive securely lock against loosening from vibration. The pre-applied patch is a micro-encapsulated adhesive designed for threaded fasteners.

Inch

Shoulder Diameter	Thread Size x Lg.	Shoulder Lengths Available (inch)
1/8	4-40 x 5/32	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 3/4, 1
5/32	6-32 x 3/16	
3/16	8-32 x 3/16	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1
1/4	10-24 x 3/8	
5/16	1/4-20 x 7/16	1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2, 1-3/4, 2
3/8	5/16-18 x 1/2	
1/2	3/8-16 x 5/8	1/4, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2, 1-3/4, 2, 2-1/2
5/8	1/2-13 x 3/4	
3/4	5/8-11 x 7/8	1, 1-1/2, 2

Left Hand Threaded Knurled Head



Materials offered in: 18-8 SS

Tighten these shoulder screws by turning them to the left; once fastened, they resist loosening from counterclockwise motion and vibration.

Inch

Shoulder Diameter	Thread Size x Lg.	Shoulder Lengths Available (inch)
1/8	4-40 x 5/32	1/8, 3/16, 1/4, 3/8, 1/2
5/32	6-32 x 3/16	
3/16	8-32 x 3/16	1/8, 3/16, 1/4, 3/8, 1/2, 3/4, 1
1/4	10-24 x 3/8	
5/16	1/4-20 x 7/16	1/4, 3/8, 1/2, 5/8, 3/4, 1
3/8	5/16-18 x 1/2	
1/2	3/8-16 x 5/8	1/2, 3/4, 1, 1-1/2, 2

Oversized Thread Knurled Head



Materials offered in: 316 SS, 18-8 SS, Alloy

With threads are the same size as the shoulder, these screws offer higher strength properties than standard sized shoulder screws.

Inch

Shoulder Diameter	Thread Size x Lg.	Shoulder Lengths Available (inch)
1/8	5-40 x 5/32	3/16, 1/4, 3/8, 1/2, 5/8, 3/4
3/16	10-32 x 3/16	
1/4	1/4-20 x 3/8	1/4, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2, 1-3/4, 2
5/16	5/16-18 x 7/16	
3/8	3/8-16 x 1/2	1/4, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2, 1-3/4, 2
1/2	1/2-13 x 5/8	

Metric on page 3

Oversized Thread Knurled Head



Materials offered in: 316 SS, 18-8 SS, Alloy

Metric

Shoulder Diameter	Thread Size x Lg.	Shoulder Lengths Available (mm)
4mm	M4 x 0.7 x 4.5	4, 5, 6, 8, 10, 12, 16
5mm	M5 x 0.8 x 9.5	
6mm	M6 x 1 x 11	6, 8, 10, 12, 16, 20, 25, 30, 35, 40, 45, 50
8mm	M8 x 1.25 x 13	
10mm	M10 x 1.5 x 16	
12mm	M12 x 1.75 x 18	6, 8, 10, 12, 16, 20, 25, 30, 35, 40, 45, 50

82° Flat Head



Materials offered in: 18-8 SS
Drive type: Hex drive

Flat head screws are angled under the head to sit flush within countersunk holes. Head angle is 82°.

Inch

Shoulder Diameter	Thread Size x Lg.	Shoulder Lengths Available (inch)
1/4	10-24 x 3/8	1/4, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2, 2
5/16	1/4-20 x 7/16	
3/8	5/16-18 x 1/2	1/4, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2, 2
1/2	3/8-16 x 5/8	

External Wrenching Hex Head



Materials offered in: 18-8 SS, Zinc-Plated Steel
Drive type: Hex head

These can be used for the same basic applications as our stripper bolts, but with a hex head for wrenching.

Inch

Shoulder Diameter	Thread Size x Lg.	Shoulder Lengths Available (inch)
3/8	1/4-20 x 3/4	1-5/16, 1-3/8, 1-7/16, 1-1/2, 1-9/16, 1-5/8, 1-3/4, 1-7/8, 2, 2-1/8, 2-1/4, 2-1/2
1/2	3/8-16 x 3/4	

Double Drive Knurled Head



Materials offered in: 18-8 SS
Drive type: Hex drive

Screws have an additional internal hex socket drive at the threaded end of the screw.

Inch

Shoulder Diameter	Thread Size x Lg.	Shoulder Lengths Available (inch)
3/16	8-32 x 3/16	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1
1/4	10-24 x 3/8	
5/16	1/4-20 x 7/16	1/4, 3/8, 1/2, 3/4, 1
3/8	5/16-18 x 1/2	

Shoulder Nut for Studs and Bolts



Materials offered in: 18-8 SS
Drive type: Hex drive

Internal threads allow you to screw these shoulders onto a stud and bolt.

Inch

Shoulder Diameter	Thread Size x Lg.	Shoulder Lengths Available (inch)
1/4	4-40 x 1/4	1/2, 3/4, 1, 1-1/4, 1-1/2, 2
5/16	6-32 x 1/4	
3/8	8-32 x 1/4	1/2, 3/4, 1, 1-1/4, 1-1/2, 2
1/2	10-32 x 1/4	

Shoulder Screws

Low Profile Knurled Head Shoulder Screw



Materials offered in: Alloy Steel, Black Oxide
Drive type: Hex drive

These speciality shoulder screws have 2/3 the head height of a standard shoulder screw.

Ultra Low Profile Knurled Head Shoulder Screw



Materials offered in: Alloy Steel, Black Oxide
Drive type: Hex drive

These speciality shoulder screws have 1/3 the head height of a standard shoulder screw.

Inch

Shoulder Diameter	Thread Size x Lg.	Shoulder Lengths Available (inch)
1/4	10-24 x 3/8	1/4, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2
5/16	1/4-20 x 7/16	1/4, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2
3/8	5/16-18 x 1/2	1/4, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2
1/2	3/8-16 x 5/8	3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2, 2

Metric

Shoulder Diameter	Thread Size x Lg.	Shoulder Lengths Available (mm)
6mm	M5 x 0.8 x 10	8, 10, 12, 16, 20, 25, 30
8mm	M6 x 1 x 11	6, 8, 10, 12, 16, 20, 25, 30
10mm	M8 x 1.25 x 13	10, 12, 16, 20, 25, 30
12mm	M10 x 1.5 x 16	12, 16, 20, 25, 30

Inch

Shoulder Diameter	Thread Size x Lg.	Shoulder Lengths Available (inch)
1/4	10-24 x 3/8	1/4, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2
5/16	1/4-20 x 7/16	1/4, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2
3/8	5/16-18 x 1/2	1/4, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2
1/2	3/8-16 x 5/8	3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2, 2

Metric

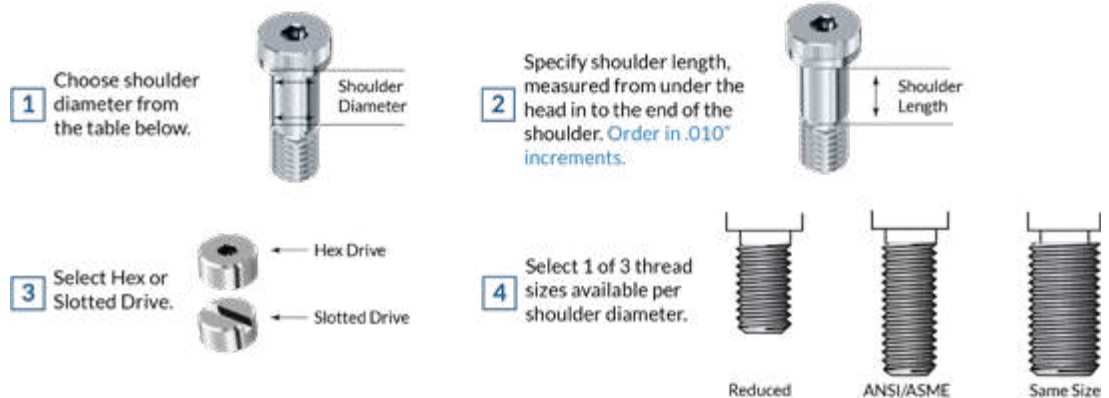
Shoulder Diameter	Thread Size x Lg.	Shoulder Lengths Available (mm)
6mm	M5 x 0.8 x 10	8, 10, 12, 16, 20, 25, 30
8mm	M6 x 1 x 11	6, 8, 10, 12, 16, 20, 25, 30
10mm	M8 x 1.25 x 13	10, 12, 16, 20, 25, 30
12mm	M10 x 1.5 x 16	12, 16, 20, 25, 30

Custom Shoulder Screws

All parts are USA made in Indiana from DFARS compliant bar stock.

Thread Class is 3A and Shoulder Length Tolerance is ± 0.005 .

Certification is available, if chemical and physical certification is required on the material.



5 Select from the following materials:

Material	Part # Code	Material	Part # Code	Material	Part # Code
18-8 Stainless	188	A286 Stainless	286	Gr 5 Titanium	Ti5
316 Stainless	316	Aluminum 6061	061	High Five Stainless	616
17-4 Stainless	174	Brass 360	360	Monel 405	405
416 Stainless	416	Gr 2 Titanium	Ti2		

Tight Tolerance Smooth Head



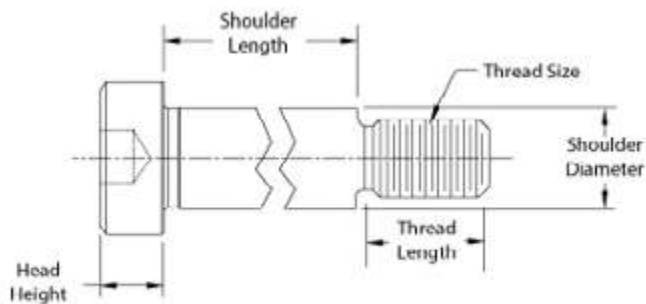
***Materials offered in:** 316 SS, 18-8 SS, 416 SS, A286 SS, Alloy Steel, Brass

Drive type: Hex drive, slotted drive, 6-lobe drive

**416 SS, A286 SS, Alloy Steel and Brass may not be available in all sizes and head styles*

Tight Tolerance Smooth Head shoulder screws are available with Standard Profile Heights, Low Profile Heights and Ultra Low Profile heights. Tight Tolerance Smooth Head shoulder screws are available with Standard Profile Head Heights, Low Profile Head Heights, and Ultra Low Profile Head Heights.

Screws are machined with hex socket, slotted and 6-lobe drives on precise unmarked smooth heads, with an undercut portion between the thread and shoulder to allow a close fit.



Inch

Shoulder Diameter	Thread Size x Lg.	Shoulder Lengths Available (inch)
3/32	2-56 x 1/8	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, 1
1/8	4-40 x 5/32	1/16, 3/32, 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, 11/16, 3/4, 7/8, 1
5/32	6-32 x 3/16	1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 7/8, 1, 1-1/8, 1-1/4, 1-3/8, 1-1/2, 1-5/8, 1-3/4, 2
3/16	8-32 x 3/16	1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 7/8, 1, 1-1/8, 1-1/4, 1-3/8, 1-1/2, 1-5/8, 1-3/4, 2
1/4	10-32 x 1/4	1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 7/8, 1, 1-1/8, 1-1/4, 1-3/8, 1-1/2, 1-5/8, 1-3/4, 2
1/4	10-24 x 3/8	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
5/16	1/4-20 x 7/16	1/8, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4, 1-1/2
3/8	5/16-18 x 1/2	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4
3/8	1/4-20 x 7/16	5/16, 3/8, 1/2, 5/8
1/2	3/8-16 x 5/8	1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2, 2

Metric

Shoulder Diameter	Thread Size x Lg.	Shoulder Lengths Available (mm)
3mm	M2 x 0.4 x 4	2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 20, 25
4mm	M3 x 0.5 x 4	2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 20, 25, 30, 35, 40, 45, 50
5mm	M4 x 0.7 x 5	4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65
6mm	M5 x 0.8 x 6	4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65
8mm	M6 x 1 x 11	4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 20, 25, 30, 35, 40, 45, 50
10mm	M6 x 1 x 11	8, 10, 12, 16
10mm	M8 x 1.25 x 12	8, 10, 12, 14, 16, 18, 20, 25, 30, 35, 40, 45, 50
12mm	M10 x 1.5 x 16	8, 10, 12, 14, 16, 18, 20, 25, 30, 35, 40, 45, 50

Extended Thread Smooth Head



Materials offered in: 18-8 SS

Drive type: Hex drive

Inch

Shoulder Diameter	Thread Size x Lg.	Shoulder Lengths Available (inch)
1/8	4-40 x 5/16	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1
5/32	6-32 x 3/8	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1
3/16	8-32 x 3/8	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2
1/4	10-24 x 3/4	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2, 1-3/4, 2

Mil Spec Smooth Head



Materials offered in: 18-8 SS

Drive type: Hex drive, slotted drive

Inch

Shoulder Diameter	Thread Size x Lg.	Shoulder Lengths Available (inch)
1/8	4-40 x 5/32	1/8, 3/16, 1/4, 5/16, 3/8
3/16	8-32 x 3/16	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4
1/4	10-32 x 1/4	3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2
5/16	14-20 x 7/16	1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2
3/8	5/16-18 x 1/2	5/8
1/2	3/8-16 x 5/8	5/8, 3/4, 1, 1-1/4, 1-1/2

Washers & Shims

Alignment (Spherical) Washer



Materials offered in: 18-8 SS & 316 SS
Finishes: Plain, black oxide, zinc-plated

Also known as Spherical Washers, these consist of a male and female washer that, when nested, swivel slightly to compensate for tolerance variations and uneven surfaces.

ANSI B Washer



Materials offered in: 18-8 SS & Zinc-Plated Steel
Finishes: Plain

Type B Plain Washers were designed to distribute load pressures over larger areas of primarily lower strength materials. All washers are made in the USA, and conform to all ANSI specifications. Available in Narrow, Regular and Wide OD.

Component Thick Washer



Materials offered in: 18-8 SS, Case Hardened Steel, Low Carbon Steel, 17-4 PH, Brass, 4140, 316H5

Finishes: Plain, black oxide, zinc yellow

These washers are thicker than general purpose washers for covering large holes or for use as spacers and levelers.

Component (Roughneck) Thick Washer



Materials offered in: 18-8 SS, Steel Case Hardened

Finishes: Plain, black oxide

A thick Flat Washer used for spacing applications where appearance and tight tolerances are not needed.

Countersunk Washer



Materials offered in: 18-8 SS, 316 SS, Steel Case Hardened

Finishes: Plain, black oxide

Flat and oval head screws sit flush within them for a neater appearance. Inch has a 82° and 100° countersunk angle, for metric screws, washers are available with a 90° and 100° countersunk angle.

Countersunk Pyramid Washer



Materials offered in: 316 SS

Finishes: Plain

Machined with a fine surface finish out of Type 316 Stainless Steel. Inner Diameters are 82° countersunk to accept Flat Head Machine Screws, or Oval Countersunk Machine Screws and present a finished appearance.

DIN Washer



Materials offered in: Titanium Grade 2

Finishes: Plain

Inch

For Screw Sizes

1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/8, 1-1/4, 1-1/2

Thickness : .187 - .500

Metric

For Screw Sizes (mm)

M6, M8, M10, M12, M16, M20, M24, M30

Thickness : 4.20 - 19.20mm

Inch

For Screw Sizes

#0, #1, #2, #4, #6, #8, #10, 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

Thickness : .022 - .266

Inch

For Screw Sizes

#0, #1, #2, #4, #6, #8, #10, 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

Thickness : .019 - .281

Metric

For Screw Sizes (mm)

M3, M4, M5, M6, M8, M10, M12, M14, M16, M20, M24, M30, M36

Thickness : 2.00 - 5.00mm

Inch

For Screw Sizes

3/8, 1/2, 5/8, 3/4

Thickness : .187 - .250

Inch

For Screw Sizes

#4, #5, #6, #8, #10, 1/4

Thickness : .093 - .125

Metric

For Screw Sizes (mm)

M3, M4, M5, M6, M8, M10, M12, M14, M16, M20, M24, M30, M36

Thickness : 2.00 - 5.00mm

Inch

For Screw Sizes

#10, 1/4

Thickness : .125

Metric

For Screw Sizes (mm)

M2, M2.5, M3, M3.5, M4, M5, M6, M8, M10, M12

Thickness : .20 - 2.70mm

Easy On Slotted Washer



Materials offered in: 18-8 SS, Steel Case Hardened
Finishes: Plain, black oxide

Also known as C Washers. The slot allows addition or removal of the washer without taking the assembly completely apart.

Inch

For Screw Sizes

1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4

Thickness : .250 - .438

Fender (Large O.D) Washer



Materials offered in: 18-8 SS, 316 SS, Steel, Steel Case Hardened

Finishes: Plain, black oxide, zinc-plated

These washers have exaggerated diameters and/or thicknesses for covering oversized holes or for use as spacers and levelers.

Inch

For Screw Sizes

#4, #6, #8, #10, #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

Thickness : .024 - .500

Fender (Jumbo O.D) Washer



Materials offered in (Inches): 18-8 SS, 316 SS, 4140 Thru-Hardened, Steel Case Hardened, Steel, Brass, 17-4 PH SS

Finishes: Plain, black oxide, hot dip galvanized

Materials offered in (Metric): 18-8 SS, 316 SS, 17-4 PH SS

Finishes: Plain

Used on machinery, presses, large diameter bolts, shafts, studs and rollers or whatever a large flat washer is needed.

Inch

For Screw Sizes

#4, #5, #6, #8, #10, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4, 1-3/8, 1-1/2, 1-3/4, 2, 2-1/2, 3, 3-1/2, 4

Thickness : .024 - .385

Metric

For Screw Sizes (mm)

M3, M4, M5, M6, M8, M10, M12, M14, M16, M18, M20, M24, M30, M36

Thickness : 2.50- 9.80mm

Machined Spacing Washer



Materials offered in: Steel, 4140 Alloy Hardened

Finishes: Plain, black oxide

A thick Flat Washer used for spacing applications. These washers are manufactured on our screw machines — NOT stamped.

Inch

For Screw Sizes

#5, #8, #10, #12, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/8, 1-1/4

Thickness : .060 - .312

Machined Spacing Beveled Washer



Materials offered in: Steel, Case Hardened Steel, 18-8 SS

Finishes: Plain, oiled, zinc plating

A thick Flat Washer used for spacing applications. These washers are manufactured on our screw machines — NOT stamped — with a large bevel on the outside edge.

Inch

For Screw Sizes

#10, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1, 1-1/8, 1-1/4

Thickness : .060 - .312

Machined Dress Washer



Materials offered in: 18-8 SS, Case Hardened Steel

Finishes: Plain, nickel plated

Turned — Not Stamped
 A superior finished straight side washer, perfect for a finished appearance. These washers have straight sides, and present a finely finished appearance.

Inch

For Screw Sizes

#4, #6, #8, #10, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1

Thickness : .056 - .187

Washers & Shims

Military Specification Washer



Materials offered in: 18-8 SS
Finishes: Passivated

Made to Military specifications. Certification is available at no charge if requested at the time of order. Washers are passivated to provide added protection against oxidation and corrosion.

SAE Washer



Materials offered in: 17-4 PH SS
Finishes: Plain

Flat washers distribute pressure of a threaded fastener to prevent damage during tightening. SAE washers generally have a smaller ID and OD than other standard flat washers.

USS Washer



Materials offered in: 18-8 SS, 316 SS
Finishes: Plain

USS washers generally have a larger ID and OD than SAE washers.

Flat Washer for Socket Head Cap Screw



Materials offered in: 18-8 SS, Steel
Finishes: Plain, black oxide

Flat washer to be used in combination with a socket head cap screw.

Non-Metal Washer



Materials offered in: Fiberglass, Nylatron, Phenolic
Finishes: Plain

AMPG stocks flat washers that are also available in non-metal materials.

Bearing Plate



Materials offered in: 18-8 SS
Finishes: Plain

With their flat sides, bearing plates are designed to prevent rotation and fit in restricted spaces that do not accommodate round washers, such as slots and channels. Available in round or slotted ID.

Square Washer



Materials offered in: 18-8 SS, Steel Case Hardened, Steel, Diamond Back Steel, Fiberglass
Finishes: Plain, black oxide, galvanized, zinc-plated

Square washers offer wider and thicker dimensions making them good for distributing heavier loads than round washers.

Inch

For Screw Sizes

#0, #2, #3, #4, #5, #6, #8, #10, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4, 7/8, 1

Thickness : .006 - .192

For Screw Sizes

1/4, 5/16, 3/8, 1/2

Thickness : .051 - .067

Metric

For Screw Sizes (mm)

M6, M8, M10, M12

Thickness : 1.40 - 2.70mm

Inch

For Screw Sizes

#10, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4, 7/8, 1

Thickness : .036 - .192

Inch

For Screw Sizes

#2, #3, #4, #5, #6, #8, #10, 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

Thickness : .028 - .160

Inch

For Screw Sizes

#3, #4, #6, #8, #10, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1

Thickness : .031 - .093

Inch

For Screw Sizes

1/2, 5/8, 3/4, 7/8

Thickness : .141 - .390

Inch

For Screw Sizes

1/4, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4, 1-1/2, 1-3/4, 2

Thickness : .112 - .515

Metric

For Screw Sizes (mm)

M6, M8, M10, M12, M16, M20, M22, M24, M30

Thickness : 6.00mm

Tapped Flange Washer



Materials offered in: Steel
Finishes: Hot dip galvanized

The threaded hole and the raised flange make these washers very easy to tighten down. Available in square or rounded corners.

Inch

For Screw Sizes

1/2-13, 5/8-11

Thickness : .187

Wave Washer



Materials offered in: 18-8 SS
Finishes: Plain, black oxide, galvanized, zinc-plated

These wave washers act as springs because of their flexible shape. These washers expand/compress to take up the space. Available in single and triple wave.

Inch

For Screw Sizes

#0, #2, #4, #5, #6, #8, #10, 1/4, 5/16

Thickness : .004 - .013

Shim for Bearing



Materials offered in: 18-8 SS, 316 SS, Brass
Finishes: Plain

Used for Inner Race Spacers on shafts, or for a precision special dimensioned flat washer.

Inch

For Screw Sizes

5/32, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 7/8

Thickness : .002 - .020

Shim for D Shaft



Materials offered in: 18-8 SS
Finishes: Plain

Shaped to fit and made from 18-8 stainless steel.

Inch

For Screw Sizes

1/4, 3/8, 1/2, 5/8, 3/4, 1

Thickness : .031 - .125

Shim for Shaft



Materials offered in: 18-8 SS, 316 SS, Brass
Finishes: Plain

Inch

For Screw Sizes

1/32, 3/64, 1/16, 5/64, 3/32, 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8

Thickness : .001 - .016

Shim for Shoulder Diameter



Materials offered in: 18-8 SS
Finishes: Plain

Add these washers over the threads or shoulders of our shoulder screws to extend or reduce the shoulder.

Inch

For Screw Sizes

1/4, 5/16, 3/8, 1/2, 5/8, 3/4

Thickness : .0045 - .033

Horseshoe Shim



Materials offered in: 316 SS
Finishes: Plain

Used where regular plastic shims are prohibited, where a fire resistant shim is specified, and where the installer needs to weld to the shim.

Inch

For Screw Sizes

2, 2-5/8, 3, 3-1/2

Thickness : .063 - .250

Wide Rim Shim



Materials offered in: 18-8 SS, Steel
Finishes: Plain

Sometimes called Machinery Bushings or Oversized Shims.

Inch

For Screw Sizes

1/2, 5/8, 3/4, 1, 1/4, 1-1/2

Thickness : .048 - .187

Peel Away Shim



Materials offered in: Brass
Finishes: Plain

Remove layers with a utility knife until you get the thickness you need.

Inch

Length

1/8, 3/16, 1/4

Thickness : .031

Barrels, Screws & Posts

Binding Post (Chicago Screw)



Materials offered in: 18-8 SS, Aluminum, Brass, Copper, Plastic, Steel

Finishes: Plain, black anodized, black color, black oxide, white color, zinc plated

Head styles: Truss, rivet

Drive type: No drive, slotted

A binding barrel and screw are designed to clamp material between the head of the barrel and the head of the screw, or to bridge the gap between two parts.

Socket Drive Button Head Post (Architect Designed)



Materials offered in: 18-8 SS

Finishes: Plain

Head styles: Button

Drive type: Hex drive

For a contemporary look, the combination of an AMPG button head barrel with a button head screw delivers a high-tech look in applications. Now available in sets as well as in a black-oxide finish.

Socket Drive Flat Head Post (Architect Designed)



Materials offered in: 18-8 SS

Finishes: Plain

Head styles: Low profile

Drive type: Hex drive

For a smooth, sleek and snag-free assembly, both 82° countersunk heads of an AMPG flat head sex bolt mount flush to each side of your panel.

Socket Drive Low Profile Head Post (Architect Designed)



Materials offered in: 316 SS

Finishes: Plain

Head styles: Low profile

Drive type: Hex socket

The heads of these low-profile drive posts are ideal in applications where material to be fastened is too thin to countersink.

Door Hardware Post (Architectural Series)



Materials offered in: Brass, Steel, 18-8 SS, 316SS, Aluminum

Finishes: Plain, chrome plated, dark bronze plated, zinc plated

Head styles: Truss

Drive type: No drive barrel, Phillips drive screw

The knurled barrel keeps the sex bolt from spinning while the flat head screw is tightened from the other side.

Inch

Barrel Diameter	Barrel Length	Screw Length
13/64	1/8, 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, 3-1/4, 3-1/2, 4, 4-1/2, 5, 6	3/16, 3/8, 1/4, 5/16
15/64*	1/4, 1/2, 3/4, 1, 1-1/4, 1-1/2, 2	3/16

*Offered in plastic black or white only

Inch

Barrel Diameter	Barrel Length	Screw Length
1/4	3/8, 1/2, 5/8, 3/4, 1, 1-1/4	1/4, 3/8, 1/2, 1
3/8	1/2, 3/4, 1	3/8, 3/4, 1
1/2	1/2, 5/8, 3/4, 7/8, 1, 1-1/2, 1-3/4, 2, 2-1/2, 3	1/2, 1, 1-1/2, 2
5/8	1/2, 3/4, 1, 1-1/2, 1-3/4, 2, 2-1/2, 3	1/2, 1, 1-1/2, 2
3/4	1/2, 3/4, 1, 1-1/2, 1-3/4, 2, 2-1/2, 3	1/2, 1, 1-1/2, 2
7/8	1/2, 3/4, 1, 1-1/2, 1-3/4, 2, 2-1/2, 3	1/2, 1, 1-1/2, 2

Metric

Barrel Diameter	Barrel Length	Screw Length
6	12, 16, 20, 25, 30, 40	6, 8
10	16, 20, 25, 30, 40	8
12	20, 25, 40, 50	10

Inch

Barrel Diameter	Barrel Length	Screw Length
1/4	3/8, 1/2, 3/4, 1, 1-1/4	1/4, 3/8, 1/2, 1
3/8	1/2, 3/4, 1	3/8, 3/4, 1
1/2	1/2, 3/4, 1, 1-1/4, 1-1/2, 1-3/4, 2, 2-1/2, 3	1/2, 1, 1-1/2, 2
5/8	1/2, 3/4, 1, 1-1/2, 1-3/4, 2, 2-1/2, 3	1/2, 1, 1-1/2, 2
3/4	1/2, 3/4, 1, 1-1/2, 1-3/4, 2, 2-1/2, 3	1/2, 1, 1-1/2, 2
7/8	1/2, 3/4, 1, 1-1/2, 1-3/4, 2, 2-1/2, 3	1/2, 1, 1-1/2, 2

Inch

Barrel Diameter	Barrel Length	Screw Length
1/4	3/8, 1/2, 3/4, 1, 1-1/4	1/4, 1/2, 1
3/8	1/2, 3/4, 1	3/8, 3/4, 1
1/2	1/2, 3/4, 1, 1-1/2, 1-3/4, 2, 2-1/2, 3	1/2, 1, 1-1/2, 2
5/8	3/4, 1, 1-1/2, 1-3/4, 2, 2-1/2, 3	1/2, 1, 1-1/2, 2
3/4	3/4, 1, 1-1/2, 1-3/4, 2, 2-1/2, 3	1/2, 1, 1-1/2, 2
7/8	3/4, 1, 1-1/2, 1-3/4, 2, 2-1/2, 3	1/2, 1, 1-1/2, 2

Inch

Barrel Diameter	Barrel Length	Screw Length
1/4	1-3/16, 1-9/16, 2, 3	3/4, 7/8, 1
5/16	1-3/16, 1-9/16, 2, 2-1/16, 3	1
3/8	3/4, 1, 1-3/16, 1-7/8, 1-9/16, 1-11/16, 2-1/16, 3, 4	1/2, 3/4, 7/8, 1, 1-1/2
1/2	1-9/16, 1-3/4, 2-1/16, 3	1, 1-1/2

Combo Drive Post



Materials offered in: 18-8 SS, 316 SS, 410 SS, Steel
Finishes: Plain, zinc plated, black zinc
Head styles: Truss
Drive type: Combo drive, slotted
 Set of standards for “off the shelf” Sex Bolts and Mating Parts.

6-Lobe Drive Tamper Resistant Post



Materials offered in: 18-8 SS, Steel
Finishes: Plain, passivated, black oxide
Head styles: Truss
Drive type: 6 lobe with pin
 Set of standards for “off the shelf” Sex Bolts and Mating Parts. A solution that replaces the traditional partition binding post, with superior drive characteristics, and a wider range of sizes.

One-Way Drive Tamper Resistant Post



Materials offered in: 18-8 SS
Finishes: Plain
Head styles: Truss
Drive type: One way slot
 Set of standards for “off the shelf” Sex Bolts and Mating Parts. Standard items for joining bathroom partitions and other secure installations.

Spanner Drive Post



Materials offered in: 18-8 SS
Finishes: Plain
Head styles: Truss
Drive type: Drilled spanner
 Also known as Snake-Eye Spanner Bolts. These sex bolt barrels and screws have identical truss heads.

Binding Post Extension



Materials offered in: 18-8 SS, 316 SS, Aluminum, Steel, Brass
Finishes: Plain
 AMPG’s Binding Post Extension can be used to extend the length of any binding post.

Hex Drive Barrel



Materials offered in: 18-8 SS
Finishes: Plain
Head styles: Hex
Drive type: Hex head
 These drive posts have hex heads, no knurl under the head and no mating screw.

Inch

Barrel Diameter	Barrel Length	Screw Length
3/16	3/8, 1/2, 5/8, 3/4, 7/8, 1	5/16
13/64	3/8, 1/2, 3/4	5/16
1/4	1/4, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2, 2	5/16
5/16	3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4, 1-1/2, 2	5/16
3/8	1/2, 5/8, 3/4, 7/8, 1	5/16
1/2	3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4, 1-1/2, 2	5/16

Inch

Barrel Diameter	Barrel Length	Screw Length
1/2	1/2, 3/4, 1, 1-1/2, 2	3/4, 1-1/2
5/8	1/2, 3/4, 1, 1-1/2, 2	1
3/4	1/2, 3/4, 1, 1-1/2, 2	3/4, 1-1/2
7/8	1/2, 3/4, 1, 1-1/2, 2	3/4, 1-1/2

Metric (mm)

Barrel Diameter	Barrel Length	Screw Length
6	10, 12, 20, 40	6, 8
8	12, 20, 30	6, 8

Inch

Barrel Diameter	Barrel Length	Screw Length
1/4	1/4, 3/8, 1/2, 5/8, 3/4, 1	1/4, 3/8, 7/32, 11/32, 1/2, 11/16, 15/16, 1-1/16

Metric (mm)

Barrel Diameter	Barrel Length	Screw Length
6mm	10, 12, 20, 40	6, 8
8mm	12, 20, 30	6, 8

Inch

Barrel Dia.	Thread Size	Barrel Length
13/64	8-32	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/8, 1-1/4, 1-3/8, 1-1/2, 1-5/8, 1-3/4, 1-7/8, 2

Inch

Barrel Diameter	Barrel Length
5/16	
3/8	1/2, 3/4, 1
1/2	

Barrels, Screws & Posts

Phillips Drive Barrel



Materials offered in: 18-8 SS, Steel
Finishes: Plain, chrome plated
Head styles: Truss
Drive type: Phillips

These barrel nuts have Phillips truss head, no knurl under the head, no mating screw.

Inch			
Barrel Diameter	Barrel Length	Barrel Diameter	Barrel Length
3/16	3/8	5/16	5/8
7/32	3/8	3/8	3/4
1/4	1/2	7/16	3/4

Slotted Hinge Barrel (Grommet Nut)



Materials offered in: 18-8 SS, Steel
Finishes: Plain, brass plated, zinc plated
Head styles: Truss
Drive type: No drive, slotted, tapped thru head

For hinge installations. Available with slot for ease of installation or without any slot for security installations.

Inch	
Barrel Diameter	Barrel Length
5/16	1/2
3/8	1/2
1/2	1/2

Slotted Drive Truss Head Barrel



Materials offered in: 18-8 SS, 410 SS, Aluminum, Brass, Steel
Finishes: Plain, black oxide, brass plated, nickel plated, zinc black plated, zinc plated
Head styles: Truss
Drive type: Slotted

This barrel nut is designed to clamp material between the head of the barrel and the head of the screw.

Inch			
Barrel Diameter	Barrel Length	Barrel Diameter	Barrel Length
13/64	3/8	3/8	1/2, 19/32, 3/4, 1, 1-9/16
1/4	1/4, 1/2, 3/4, 1	1/4	1/4, 1/2, 3/4, 1
5/16	1/2, 5/8, 3/4	5/16	1/2, 3/4

Metric (mm)	
Barrel Diameter	Barrel Length
6mm	6, 12, 20, 25
8mm	12, 20
10mm	12, 16, 20, 25

Slotted Drive Oval Head Barrel



Materials offered in: Brass, Steel
Finishes: Nickel plated
Head styles: 82° countersunk
Drive type: Slotted

These barrel nuts have a standard 82° countersunk head.

Inch	
Barrel Diameter	Overall Length
13/64	27/64, 1/2, 3/4
5/16	7/16, 3/4, 1
.425	3/4, 1

Slotted Drive Flat Head Barrel



Materials offered in: 18-8 SS, Steel, Brass
Finishes: Plain, zinc plated
Head styles: 82° countersunk
Drive type: Tapped thru head, slotted

These barrel nuts have a standard 82 degree countersunk head with a slotted drive.

Inch	
Barrel Diameter	Overall Length
13/64	27/64, 1/2, 3/4
5/16	7/16, 3/4, 1
.425	3/4, 1

T-Slot Railing Barrel



Materials offered in: Aluminum
Finishes: Plain
Head styles: T-slot
Drive type: None

Special T Slot style head is used in commercial railing systems.

Inch		
Barrel Diameter	Head Length	Head Width
3/8	.406	.210
1/2	.406	.210
5/8	.406	.210
3/4	.406	.210

Furniture Barrel (Connector Nut)



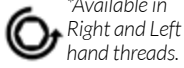
Materials offered in: Steel
Finishes: Plain, black oxide, brass plated, dark bronze plated, nickel plated, zinc plated
Head styles: Truss
Drive type: Hex drive

Metric	
Barrel Diameter	Barrel Length
9mm	12, 17
11mm	17

Button Head Screw



Materials offered in: 18-8 SS, A286 SS, Brass
Finishes: Plain, passivated
Head styles: Button head
Drive type: Hex drive, 6-lobe, left-hand hex drive



*Available in Right and Left hand threads.

These high-performance fasteners have a hex or 6-lobe drive that has more points of contact than other drives, allowing you to tighten the screw without damaging the recess.

Flange Button Head Screw



Materials offered in: 316 SS
Finishes: Plain
Head styles: Button head
Drive type: Hex drive

The flange is wider and thicker than other flanged screws, to distribute pressure over a larger surface.

Wide Flange Button Head Screw



Materials offered in: 18-8 SS, Aluminum
Finishes: Plain
Head styles: Button head
Drive type: Hex drive

The extra-large flange helps to prevent crushing when fastening thin and softer materials.

Flange Hex Head Screw (Prairie Bolt™)



Materials offered in: 18-8 SS, 316 SS, 17-4 PH, Aluminum
Finishes: Plain
Head styles: Socket head, hex head
Drive type: Hex drive, hex head

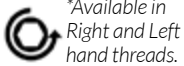


The heavy heads of a Prairie Bolt™ are designed with a flange which increases surface contact, improves holding power, and distributes loads over a large area.

Flat Head Socket Cap Screw (82°, 90°, 100°)



Materials offered in: 18-8 SS, 316 SS, 17-4 PH SS, A286 SS
Finishes: Plain, passivated
Head styles: Flat head
Drive type: Hex drive, 6-lobe



*Available in Right and Left hand threads.

Flat head screws are designed for light-duty fastening applications. They're angled under the head to sit flush within countersunk holes.

Hex Head Cap Screw



Materials offered in: 316 H5, 17-4 PH SS
Finishes: Plain
Head styles: Hex head
Drive type: Hex drive

These bolts have a hexagonal or six sided head. Available in fully threaded or partially threaded threads.

Inch

Thread Size	Overall Length
4-40, 6-32, 8-32, 10-24, 10-32, 1/4-20	3/16, 1/4, 3/8, 1/2, 3/4, 1, 1-1/2

Metric (mm)

Thread Size	Length
M3 x 0.35, M3 x 0.5, M4 x 0.5, M4 x 0.7, M5 x 0.5, M5 x 0.8, M6 x 0.75, M6 x 1	5, 6, 8, 10, 12, 16, 20, 25

Inch

Thread Size	Length
4-40, 6-32, 8-32, 10-24, 10-32, 1/4-20, 5/16-18	1/4, 3/8, 1/2, 3/4, 1, 1-1/4, 1-1/2

Metric (mm)

Thread Size	Length
M3 x 0.5, M4 x 0.7, M5 x 0.8, M6 x 1	5, 6, 8, 10, 12, 16, 20, 25

Inch

Thread Size	Length
4-40, 6-32, 8-32, 10-24, 10-32, 1/4-20, 5/16-18	3/16, 1/4, 3/8, 1/2, 3/4, 1, 1-1/2

Metric (mm)

Thread Size	Length
M3 x 0.5, M4 x 0.7, M5 x 0.8, M6 x 1	5, 6, 8, 10, 12, 16, 20, 25

Inch

Grip Length	Thread Length
1/8, 1/2, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/8, 1-1/4, 1-3/8, 1-1/2, 1-5/8, 1-3/4, 1-7/8, 2, 2-1/8, 2-1/4, 2-3/8, 2-1/2, 2-5/8, 2-3/4, 2-7/8, 3, 3-1/8, 3-1/4, 3-3/8, 3-1/2, 3-5/8, 3-3/4, 3-7/8, 4	5/16, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1-1/16, 1-1/8, 1-3/16, 1-1/4, 1-5/16, 1-3/8, 1-7/16, 1-1/2, 1-9/16, 1-5/8, 1-11/16, 1-3/4, 1-13/16, 1-7/8, 1-15/16, 2, 2-1/16, 2-1/8, 2-3/16, 2-3/8, 2-1/4, 2-7/16, 2-1/2, 2-9/16, 2-5/8, 2-11/16, 2-3/4, 2-13/16, 2-5/6, 2-7/8, 2-15/16, 3, 3-1/16, 3-1/8, 3-3/16, 3-1/4, 3-5/16, 3-3/8, 3-7/16, 3-1/2, 3-9/16, 3-5/8, 3-11/16, 3-3/4, 3-13/16, 3-7/8, 3-15/16, 4, 4-1/16, 4-1/8, 4-3/16, 4-1/4, 4-3/8

Inch

Thread Size	Overall Length
4-40, 6-32, 8-32, 10-24, 10-32, 1/4-20, 5/16-18, 3/8-16, 1/2-13, 5/8-11, 3/4-10	3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2, 1-3/4, 2, 2-1/2, 3

Metric (mm)

Thread Size	Length
M3.5 x 0.6, M4.5 x 0.75, M6 x 1, M6.3 x 1, M7 x 1, M8 x 1.25, M9 x 1.25, M10 x 1.5, M11 x 1.5	6, 8, 10, 12, 16, 20, 25, 30, 35

Inch

Thread Size	Length
1/4-20, 5/16-18, 3/8-16, 1/2-13	1/2, 3/4, 1, 1-1/4, 1-1/2, 1-3/4, 2, 2-1/2, 3, 3-1/2, 4

Metric (mm)

Thread Size	Length
M6 x 1, M8 x 1.25, M10 x 1.5, M12 x 1.75	10, 12, 14, 16, 20, 25, 30, 35, 40, 50

Screws & Bolts

Low Head Socket Head Cap Screw



Materials offered in: 316 SS, 17-4 PH, Aluminum, Titanium

Finishes: Plain

Head styles: Socket head

Drive type: Hex drive

Perfect for tight areas, low heads are about half the height of standard socket heads.

Socket Head Cap Screw



Materials offered in: 17-4 PH, 316 H5, Aluminum, Brass, Titanium Grade 2, Titanium Grade 5

Finishes: Plain

Head styles: Socket head

Drive type: Hex drive

Socket head cap screws have heavy heads with a hex socket drive. Extra-long lengths available in 18-8 and 316 SS materials.

Extra Tall Socket Head Cap Screw



Materials offered in: 18-8 SS

Finishes: Plain

Head styles: Socket head

Drive type: Hex drive

These screws have deep, accurate hex socket drives to facilitate tightening and removing screws in tight-fit applications. A higher head can help with locating a screw in spots where they are hard-to-reach in assembly.

Square Drive Socket Head Cap Screw



Materials offered in: 17-4 PH, 316 H5, Aluminum, Brass, Titanium Grade 2, Titanium Grade 5

Finishes: Plain

Head styles: Socket head

Drive type: Hex drive

Square Drive Socket Screws offer more than easy tool insertion and retention of a screw on a tool tip.

Thumb Screw



Materials offered in: 18-8 SS

Finishes: Plain

Thumb Screws have textured heads that allow for fastening and unfastening by hand.

Extra Length Thumb Screw



Materials offered in: 18-8 SS, Steel

Finishes: Plain, black oxide

Extra long thread for increased reach and adjustability.

Extra Length Narrow Head Thumb Screw



Materials offered in: 18-8 SS

Finishes: Plain

Extra long thread for increased reach and adjustability. Available with slot or no slot.

Inch

Thread Size	Length
6-32, 8-32, 10-32, 1/4-20, 5/16-18, 3/8-16, 1/2-13	1/4, 3/8, 1/2, 3/4, 1, 1-1/4, 1-1/2, 2

Inch

Thread Size	Length
2-56, 4-40, 6-32, 8-32, 10-32, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 7/16-14, 7/16-20, 1/2-13, 1/2-20, 9/16-12, 9/16-18, 5/8-11, 5/8-18	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2, 2, 3, 4-1/2, 5, 5-1/2, 6, 6-1/2, 7, 7-1/2, 8

Metric (mm)

Thread Size	Length
M2 x 0.4, M3 x 0.5, M4 x 0.7, M5 x 0.8, M6 x 1, M8 x 1.25, M10 x 1.5, M12 x 1.75	6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 35, 40, 50

Inch

Thread Size	Length
2-56, 4-40, 6-32, 8-32, 10-32, 1/4-20, 5/16-18, 3/8-16	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2, 2

Inch

Thread Size	Length
1/4-20, 5/16-18, 3/8-16, 1/2-13	3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4, 1-1/2, 1-3/4, 2

Inch

Thread Size	Length
4-40, 6-32, 6-48, 8-32, 8-40, 10-24, 10-32	5/16, 3/8, 1/2, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2, 2

Inch

Thread Size	Length
10-32, 10-24, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 1/2-13, 1/2-20	1-1/2, 1-3/4, 2, 2-1/4, 2-1/2, 3

Inch

Thread Size	Length
10-32, 10-24, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 1/2-13, 1/2-20	1-1/2, 1-3/4, 2, 2-1/4, 2-1/2, 3

Steel Connector Bolt



Materials offered in: Steel
Finishes: Plain, black oxide, bronze plated, nickel plated, brass plated, zinc plated

These bolts are available with or without a shoulder. Most commonly used to join panels together alongside a Connector Nut.

Inch		
Thread Size	Shoulder Length (mm)	Thread Length (mm)
1/4-20, 5/16-18	10, 18	13, 17, 20, 22, 25, 30, 35, 40

Thumb Screw with Shoulder



Materials offered in: 18-8 SS, Steel
Finishes: Plain, black oxide

Inch		
Thread Size	Shoulder Diameter	Length
4-40, 4-48, 6-32, 8-32, 10-32, 1/4-20	1/4, 3/8	1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 1

Knurled Thumb Screw



Materials offered in: Steel
Finishes: Black oxide

Inch	
Thread Size	Length
1/4-20, 5/16-18, 3/8-16, 1/2-13	1/2, 3/4, 1

Knurled Thumb Screw with Shoulder



Materials offered in: 18-8 SS, Steel
Finishes: Black oxide

Inch		
Thread Size	Shoulder Diameter	Length
1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24	1/2, 5/8, 3/4	3/8, 1/2, 11/16

Thumb Screw with Dog Point



Materials offered in: Case Hardened Steel
Finishes: Black oxide

Inch	
Thread Size	Length
10-24, 10-32, 1/4-20, 5/16-18, 3/8-16	1, 1-1/2, 2, 2-1/2, 3, 3-1/2, 4

T-Slot Bolt



Materials offered in: 18-8 SS
Finishes: Plain
Head styles: T slot
 Heads are designed to fit a T Slot, and will not twist or jam.

Inch		
Thread Size	Fits Table Slot	Length
3/8-16, 1/2-13, 5/8-11, 3/4-10	3/8, 1/2, 5/8, 3/4	5/8, 3/4, 7/8, 1, 1-1/8, 1-1/4, 1-1/2, 1-3/4, 2

Ultra Low Head Cap Screw



Materials offered in: 316 SS
Finishes: Plain
Head styles: Socket head
Drive type: Hex drive
 Excellent for tight areas and fastening applications which will not accept a countersunk flat head screw.

Inch	
Thread Size	Length
10-32, 1/4-20, 5/16-18, 3/8-16, 1/2-13	3/8, 1/2, 3/4, 1, 1-1/4, 1-1/2, 2

Wide Head Slotted Screw



Materials offered in: 18-8 SS, 316 SS
Finishes: Plain, passivated
Head styles: Ultra-wide truss
Drive type: Slotted
 Also known as shutter screws, they have an ultra-wide truss head to distribute the load over a large area for excellent holding pressure.

Inch	
Thread Size	Length
4-40, 6-32, 8-32, 10-24, 10-32, 1/4-20, 5/16-18	1/4, 3/8, 1/2, 3/4, 1, 1-1/4, 1-1/2, 1-3/4, 2, 2-1/2, 3
Metric (mm)	
Thread Size	Length
M3 x 0.5, M4 x 0.7, M5 x 0.8, M6 x 1	5, 6, 8, 10, 12, 16, 20, 25

Screws & Bolts

DIN 922 Pan Head Slot Screw



Materials offered in: 18-8 SS, Low Carbon Steel
Finishes: Plain, Black oxide
Head styles: Cheese head
Drive type: Slotted drive

With a narrower head than pan head screws, these cheese head screws fit in tight spaces, such as in electrical panels and next to flanges and raised surfaces.

Metric (mm)

Thread Size	Length
M3.5 x 0.6, M4 x 0.7, M5 x 0.8, M6 x 1, M8 x 1.25, M10 x 1.5	4, 6, 10, 16

DIN 925 Flat Head Slot Screw



Materials offered in: Low Carbon Steel
Finishes: Black oxide
Head styles: Flat head
Drive type: Slotted drive

Angled under the head, these metric screws fit in countersunk holes and sit flush with the surface of your part.

Metric (mm)

Thread Size	Length
M1.4 x 0.3, M1.6 x 0.35, M2 x 0.4, M2.5 x 0.45, M3 x 0.5	2.5, 4, 6

Locking Bolt for Drum Rings



Materials offered in: Brass
Finishes: Plain
Head styles: Hex head

These Locking Bolts are suitable for fastening most machinery and equipment with a lock and key.

Inch

Thread Size	Length
5/8-11	4.85

Standoffs & Spacers

Round Unthreaded Spacer



Materials offered in: 18-8 SS, 316 SS, Aluminum, Titanium Grade 2

Finishes: Plain

Spacers are unthreaded hollow tubes that are primarily used to maintain space between components in assemblies. They are also selected to provide heat or electrical isolation and to connect parts to each other.

Inch

Outer Diameter	Screw Size	Length
1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1-1/2, 2	#0, #2, #4, #6, #10, 1/4, 5/16, 1/2, 3/4, 1	3/32, 3/16, 7/32, 9/32, 11/32, 13/32, 7/16, 15/32, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1-5/8, 1-7/8, 2-1/4, 2-1/2, 2-3/4, 3, 3-1/4, 3-1/2, 3-3/4, 4, 4-1/2, 5, 5-1/2, 6

Metric (mm)

Outer Diameter	Screw Size	Length
4.5, 6, 8, 10, 13, 16, 19	M3, M5, M6, M10, M12	5, 7, 9, 10, 11, 12, 15, 17, 18, 20, 22, 24, 25, 26, 28, 30, 35, 40, 45, 50, 51

Hex Thread Adapters



Materials offered in: 18-8 SS, 316 SS, Aluminum, Steel

Finishes: Plain, black oxide

These adapters are male to female adapters with over 10,000 thread sizes with Inch to Inch, Metric to Metric, Metric to Inch and Inch to Metric combinations. Position components in assemblies, as well as separate or connect parts with these standoffs.

Inch/Metric

Male Thread Sizes	Female Thread Sizes
M3 x 0.35, M4 x 0.5, M5 x 0.8, M6 x 0.75, M6 x 1, M8 x 1.25, M10 x 1, M10 x 1.25, M10 x 1.5, M12 x 1.25, M12 x 1.5, M12 x 1.75	M2.5 x 0.45, M3 x 0.35, M4 x 0.7, M3.5 x 0.6, M4 x 0.5, M4 x 0.7, M5 x 0.5, M5 x 0.8, M6 x 0.75, M6 x 1, M8 x 1, M10 x 1, M10 x 1.25, M12 x 1.25, M12 x 1.5, M12 x 1.75
2-56, 4-40, 4-48, 6-32, 6-40, 8-32, 8-36, 10-24, 10-32, 1/4-20, 1/4-28, 1/4-32, 5/16-18, 5/16-24, 5/16-32, 3/8-16, 3/8-24, 3/8-32, 1/2-13, 1/2-20, 1/2-28	4-48, 6-32, 6-40, 8-32, 8-36, 10-24, 10-36, 1/4-20, 1/4-28, 1/4-32, 5/16-18, 5/16-24, 5/16-32, 3/8-16, 3/8-24, 3/8-32, 1/2-13, 1/2-20, 1/2-28

Hex Standoff Male-Male



Materials offered in: 18-8 SS

Finishes: Plain

Use these standoffs to separate and position components in assemblies. A hex size in the middle insures a firm grip when tightening with a wrench.

Inch

Outer Diameter	Hex Size	Length
7/32, 1/4, 7/16, 1/2	7/32, 7/16	1/8, 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, 4-1/2, 5, 5-1/2, 6

Standoff Base



Materials offered in: Aluminum, 18-8 SS

Finishes: Clear anodized, black anodized, bright stainless, satin stainless, chrome plated, clear coat

Standoff base and cap system is used to design and build creative and visually pleasing living, office, and retail environments. Available in round or square bases.

Inch

Outer Diameter	Length
.375, .500, .625, .750, 1.00, 1.25, 1.50	1/4, 1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 3, 4

Standoff Cap Assembly



Materials offered in: Aluminum, 18-8 SS

Finishes: Clear anodized, black anodized, bright stainless, stain stainless

Standoff base and cap system is used to design and build creative and visually pleasing living, office, and retail environments. Available in round or square bases.

Inch

Cap Diameter	Cap Height	Thread Size
3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2	1/4, 3/8, 7/16, 1/2, 5/16, 7/16, 1/2	10-24, 1/4-20, 5/16-18

Slot Mount Standoff



Materials offered in: Brass, Aluminum, 18-8 SS

Finishes: Clear anodized, black anodized, bright stainless, satin stainless, chrome plated, clear coat

These are designed to be mounted either vertically or horizontally, and can be used for installing partition panels, shelving or signage.

Inch

Fits Panel Thickness

1/4, 3/8, 1/2

Edge Mount Standoff



Materials offered in: Brass, Aluminum, 18-8 SS

Finishes: Clear anodized, black anodized, bright stainless, satin stainless, chrome plated, clear coat

Edge Grips provide flexibility in attaching decorative panels or signage to walls.

Inch

Fits Panel Thickness

1/4, 3/8, 1/2

Standoff Base and Cap Set



Materials offered in: Aluminum

Finishes: Clear anodized, black anodized

Set includes 1 Standoff Base, 1 Threaded Stud, 1 Matching Cap with Set Screw, and 1 Hanger Bolt.

Inch

Standoff & Cap Across Flats	Standoff Height	Thread Size
3/8, 1/2, 1	1/2, 3/4, 1, 2, 3	10-24, 1/4-20, 5/16-18

Standoffs & Spacers

Structural Standoff Base



Materials offered in: 18-8 SS

Finishes: Plain

This line of Bases are designed for the larger architectural project.

Inch

Outer Diameter	Length
2.0, 2.5, 3.0	1/2, 3/4, 1, 1-1/2, 2

Structural Standoff Cap



Materials offered in: 18-8 SS

Finishes: Plain

This line of Caps are designed for the larger architectural project to be used with the Base.

Inch

Outer Diameter	Length
2.0, 2.5, 3.0	1/2, 3/4, 1

Bumpoff Cap with Attached Stud



Materials offered in: Brass, Aluminum, 18-8 SS, Steel

Finishes: Plain, zinc-plated

Inch

Cap Diameter	Cap Height	Thread Size
1/4	1/4	4-40, 6-32, 8-32, 10-32

Round Angled Spacer (45° angle, unthreaded)



Materials offered in: 12L14 Low Carbon Steel, 18-8 SS, 316 SS, Nylon

Finishes: Plain

For attaching end fittings on angled holes at stair end posts.

Inch

Inch Bolt Size	Inside Diameter	Outside Diameter
#4, #6, #10, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4	.129, .169, .216, .287, .334, .413, .571, .699, .826	.315, .394, .512, .709, .866, .945, 1.26

Standoff Mounting Hardware



Materials offered in: 12L14 Low Carbon Steel

Finishes: Plain

These kits are an easy way to mount standoffs into drywall with a simple 3-step process.

Inch

Diameter	Thread Size
3/8, 1/2, 5/8	10-24, 1/4-20, 5/16-18

The Art Dart™



Materials offered in: Aluminum

Finishes: Plain

A revolutionary design that turns a standard push pin into a contemporary architectural mounting statement.

Inch

Body Diameter	Body Length
1/2	3/4

Nuts

Giant Acorn Nut



Materials offered in: Brass, 316 SS

Finishes: Plain, nickel plating, chrome plating

Use these Acorn Nuts to conceal the threaded end of a fastener or act as cover from protruding threads.

Inch

Thread Size	Height	Thread Depth
3/4-10, 3/4-16, 1-8	7/8, 1-5/32, 1-1/4	1/2, 5/8, 3/4

Coupling Nuts



Materials offered in: 18-8 SS, 316 SS, Aluminum, Brass

Finishes: Plain, black oxide

Also known as extension nuts, use them to connect and extend threaded rods. They are about three-times taller than standard hex nuts.

Metric

Thread Size (mm)	Length	Width
M2 x 0.4, M2.5 x 0.45, M3 x 0.5, M4 x 0.7, M5 x 0.8, M6 x 1, M8 x 1.25, M10 x 1.5, M12 x 1.75, M14 x 2, M16 x 2, M18 x 2.5, M20 x 2.5, M22 x 2.5, M24 x 3, M27 x 3, M30 x 3.5, M33 x 3.5, M36 x 4	6, 9, 12, 15, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 81, 90, 99, 108	4, 5, 8, 10, 13, 17, 19, 22, 24, 27, 30, 32, 36, 41, 46, 50, 55

Right-Hand Left-Hand Coupling Nuts



Materials offered in: 18-8 SS, 316 SS, Aluminum, 12L14 Steel

Finishes: Plain, black oxide

Also known as sleeve nuts, thread adapters fasten parts with right-hand threads to parts with left-hand threads.

Inch

Left or Right Thread Size	Thread Lg.	Hex Size	Length
5-40, 12-24, 1/4-28, 5/16-24, 3/8-24, 7/16-14, 5/8-11, 3/4-10, 7/8-9, 1-8, 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, 1/2-13, 5/8-11, 3/4-10, 7/8-9, 1-8	1/4, 1/2, 3/4, 1, 1-1/2	5/16, 3/8, 7/16, 1/2, 1-1/8, 1-1/4, 1-3/8, 1-5/8	1, 2, 2-1/2, 5

Metric (mm)

Left or Right Thread Size	Thread Lg.	Hex Size	Length
M4 x 0.7, M5 x 0.8, M6 x 1, M8 x 1.25, M10 x 1.5, M12 x 1.75	8, 12, 20, 25	10, 11, 16	25, 38, 50, 65, 75

Inch

Thread Size	O'all Lg.	OD
8-32, 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, 1/2-28, 5/8-11, 5/8-18, 3/4-10, 3/4-6	3/4, 1, 1-1/4, 1-1/2, 2	19/64, 23/64, 27/64, 31/64, 55/64, 63/64

Metric (mm)

Thread Size	O'all Lg.	OD
M4 x 0.7, M5 x 0.8, M6 x 1.0, M8 x 1.25, M10 x 1.5, M12 x 1.75, M14 x 2, M16 x 2.0, M20 x 2.5	20, 25, 30, 40, 50	8, 10, 11, 13, 15, 18, 22, 28

Round Coupling Nuts



Materials offered in: 18-8 SS, 316 SS, Low Carbon Steel

Finishes: Plain, black oxide

With a smooth rounded body for a finished look, use these nuts to connect and extend threaded rods.

Inch

Thread Size	Collar Dia.	Collar Ht.	Head Dia.	O'all Height
0-80, 1-72, 2-56, 3-48, 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, 7/16-14, 7/16-20, 1/2-13, 1/2-20	7/32, 1/4, 5/16, 3/8, 1/2, 5/8	3/16, 1/4, 1/2, 3/4	1/2, 3/4, 1, 1-1/8	3/8, 7/16, 5/8, 7/16, 1/2, 11/16, 3/4, 15/16, 1, 1-1/8

Metric (mm)

Thread Size	Collar Dia.	Collar Ht.	Head Dia.	O'all Height
M2 x 0.4, M2.5 x 0.45, M3 x 0.5, M3.5 x 0.6, M4 x 0.7, M5 x 0.8, M6 x 1, M8 x 1.25, M10 x 1.5, M12 x 1.75, M14 x 2, M16 x 2	4.5, 5, 6, 8, 10, 12, 16, 19, 20, 28, 32	0.5, 1, 2, 4, 6, 7.5, 10, 12.5, 14, 15, 20, 25	9, 10, 11, 12, 16, 20, 24, 25.4, 30, 36, 56, 64	2.5, 3, 4, 5, 6, 7.5, 8, 9.5, 10, 11.5, 15, 15.5, 17.5, 18, 19, 22, 23, 30, 35

Knurled Thumb Nut



Materials offered in: 18-8 SS, 316 SS, Brass

Finishes: Plain, black oxide

These thumb nuts have a knurled head for slip-resistant controlled adjustment and the collar raises the head to make it easy to grip.

Inch

Thread Size	Width	Height
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, 3/4-10, 3/4-16, 7/8-9, 1-8, 1-1/2-12	1/4, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 11/16, 3/4, 15/16, 1-1/8, 1-5/16, 2-1/4	3/32, 7/64, 1/8, 7/32, 17/64, 21/64, 3/8, 7/16, 35/64, 41/64, 3/4, 27/32, 55/64

Hex Nut



Materials offered in: Aluminum

Finishes: Plain

Hex Nuts are the most common nuts for general fastening applications.

Nuts

Too Tall Acorn Nut



Materials offered in: 18-8 SS, 316 SS, Aluminum
Finishes: Plain, high polish
 The added height allows for a greater internal thread depth for a fastener to be inserted.

Inch

Thread Size	Height	Thread Depth
3/8-16, 1/2-13	.781, 1.062, 1-5/16, 1-7/16, 1-9/16, 1-3/4, 2	15/32, 5/8, 3/4, 1, 1-1/4, 1-1/2

Jig & Fixture Acorn Nut



Materials offered in: C1018 Steel, Case Hardened Steel
Finishes: Plain, black oxide plated

Inch

Thread Size	Width	Height
5/16-18, 3/8-16, 1/2-13, 5/8-11	5/8, 3/4, 7/8, 1-1/16	5/8, 3/4, 15/16, 1-3/16

Hex Nut



Materials offered in: 18-8, Aluminum, Brass, A286 SS, 17-4 PH, 405, C276, 410, 316 H5, Titanium Grade 2 & 5, Carpenter 20
Finishes: Plain, black-oxide plated
 Hex Nuts are the most common nuts for general fastening applications.

Inch

Thread Size	Width	Height
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, 3/4-10, 3/4-16, 7/8-9, 1-8, 1-1/2-12	1/4, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 11/16, 3/4, 15/16, 1-1/8, 1-5/16, 2-1/4	3/32, 7/64, 1/8, 7/32, 17/64, 21/64, 3/8, 7/16, 35/64, 41/64, 3/4, 27/32, 55/64

Metric (mm)

Thread Size	Width	Height
M2 x 0.4, M2.5 x 0.45, M3 x 0.5, M4 x 0.7, M5 x 0.8, M6 x 1, M8 x 1.25, M10 x 1.5, M12 x 1.75, M16 x 2, M20 x 2.5, M24 x 3	4, 5, 5.50, 7, 8, 10, 13, 16, 18, 24, 30, 36	1.60, 2.00, 2.40, 3.20, 4.70, 5.20, 6.80, 8.40, 10.80, 13.00, 16.00, 19.00

Hex Nuts Narrow



Materials offered in: 18-8 SS, 316 SS
Finishes: Black oxide
 These hex nuts are about 20% narrower than standard hex nuts and best used in tight spaces where you need a shorter hex nut.

Inch

Thread Size	Width	Height
4-40, 5-40, 6-32, 8-32, 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, 5/8-18, 3/4-10, 3/4-16	3/16, 1/4, 5/16, 11/32, 7/16, 1/2, 9/16, 3/4, 15/16, 1-1/8	1/16, 3/32, 7/64, 1/8, 5/32, 3/16, 7/32, 5/16, 3/8, 27/64

Inch

Thread Size	Width	Height
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, 1-8, 1-14	7/16, 1/2, 9/16, 11/16, 3/4, 15/16, 1-1/8, 1-1/2	5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 27/64, 35/64

Metric (mm)

Thread Size	Height	Flange Diameter
M6 x 1, M8 x 1.25, M10 x 1.5, M12 x 1.75, M16 x 2, M20 x 2.5, M24 x 3	6.00, 7.94, 8.00, 9.53, 10.00, 12.00, 12.70, 17.46, 20.64, 25.40, 31.75	14.20, 15.88, 17.90, 19.05, 21.80, 22.23, 26.00, 28.58, 34.93, 41.28, 50.80

Hex Thin (Jam) Nut



Materials offered in: 18-8 SS, 17-4 PH, A286 SS, 410 SS, Aluminum, 316 H5, 405, C276, Titanium Grade 2 & 5
Finishes: Plain, black oxide
 Also known as Jam Nuts, they are about half the height of standard hex nuts.

Inch

Thread Size (NPS, NEF, NS)	Width	Height
1/8-27, 1/4-32, 1/4-40, 5/16-32, 3/8-32, 7/16-28, 15/32-32, 1/2-28, 5/8-24, 5/8-27, 11/16-24, 3/4-20, 7/8-20	1/2, 5/8, 5/16, 3/8, 7/16, 1/2, 9/16, 11/16, 3/4, 15/16, 1, 1-5/16	1/8, 3/16, 5/64, 3/32, 7/32, 1/16, 3/16, 7/64, 17/64, 3/32, 1/2, 9/16, 3/32, 3/8, 5/64, 3/32, 9/16, 3/32, 1/8, 3/8, 27/64, 31/64

Panel Nut (Special Threads)



Materials offered in: Brass, 18-8 SS
Finishes: Plain, nickel-plated

Hex Flange Nut



Materials offered in: 18-8 SS, 316 SS, A286, 17-4 PH, Titanium Grade 2 & 5, 316 H5

Finishes: Plain

Flange distribute pressure where the nut meets the material surface, eliminating the need for a separate washer.

Giant Hex Nut



Materials offered in: Low Carbon Steel, Grade 2H Steel

Finishes: Plain

These Giant Hex Nuts are used with larger mating screws and bolts to help secure items.

Round Knurled Nut



Materials offered in: Steel Zinc, Stainless Steel, Black Nylon

Finishes: Plain

Round Knurled Nut with Wrench Flats



Materials offered in: Low Carbon Steel, Case Hardened Steel

Finishes: Plain, black oxide plated

Insert (Allen) Nut for Screw & Bolt



Materials offered in: 18-8 SS, Alloy Steel

Finishes: Plain, black oxide plated

Also known as Allen nuts, you can use these versatile fasteners as both threaded inserts and nuts. To use as inserts, press or draw them into any nonhardened steel, cast iron, or soft nonferrous metal.

Knurled Lock Nut



Materials offered in: Low Carbon Steel, Case Hardened Steel

Finishes: Plain, black oxide plated

Check Nut



Materials offered in: Low Carbon Steel, Case Hardened Steel

Finishes: Plain, black oxide plated

Inch

Thread Size	Height	Flange Diameter
2-56, 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, 3/4-10, 3/4-16, 7/8-9, 1-8, 1-14, 1-1/4-7	3/32, 7/32, 1/4, 5/16, 3/8, 1/2, 9/16, 11/16, 13/16, 1, 1-1/8, 1-1/4	3/16, 3/8, 13/32, 15/32, 1/2, 5/8, 3/4, 7/8, 1, 1-1/8, 1-3/8, 1-5/8, 1-3/4, 2, 2-1/4

Metric (mm)

Thread Size	Height	Flange Diameter
M6 x 1, M8 x 1.25, M10 x 1.5, M12 x 1.75, M16 x 2, M20 x 2.5, M24 x 3	6.00, 7.94, 8.00, 9.53, 10.00, 12.00, 12.70, 17.46, 20.64, 25.40, 31.75	14.20, 15.88, 17.90, 19.05, 21.80, 22.23, 26.00, 28.58, 34.93, 41.28, 50.80

Inch

Thread Size	Width	Height
3-1/2 - 4, 3-1/2 - 8, 4 - 4, 4 - 8	5-3/8, 6	3-7/16, 4

Inch

Thread Size	Width	Height
1/8-27NPT, 1/4-40NEF, 3/8-32NEF, 15/32-32NEF, 5/8-27NS	5/8, 3/4	3/32, 1/8, 3/16, 3/32, 1/2, 9/16

Inch

Thread Size	O.D	Across Flats	Height
2-56, 4-40, 5-40, 6-32, 8-32, 10-32, 1/4-20, 5/16-18	1/4, 5/16, 11/32, 3/8, 7/16, 9/16	3/16, 1/4, 5/16, 3/8, 1/2	1/6, 3/32, 7/64, 1/8, 3/16, 7/32

Inch

Thread Size	Body Diameter	Length
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, 7/16-14, 7/16-20, 5/8-11, 5/8-18, 3/4-10, 3/4-16, 7/8-9, 7/8-14, 1-8, 1-14	.183-.187, .253-.257, .275-.280, .302-.307, .398-.403, .493-.498, .585-.590, .705-.710, .795-.800, .980-.986, 1.152-1.158, 1.355-1.361, 1.527-1.533	.172-.179, .198-.205, .223-.230, .266-.273, .309-.319, .409-.419, .512-.522, .606-.621, .718-.733, .821-.836, .995-1.010, 1.170-1.185, 1.343-1.358, 1.517-1.532

Metric (mm)

Thread Size	Body Diameter (Inch)	Length (Inch)
M3 x 0.5, M4 x 0.7, M5 x 0.8, M6 x 1, M8 x 1.25, M10 x 1.5, M12 x 1.75, M14 x 2, M18 x 2.5, M20 x 2.5, M24 x 3	.183-.187, .275-.280, .302-.307, .398-.403, .493-.498, .585-.590, .705-.710, .795-.800, .980-.986, 1.152-1.158, 1.355-1.361, 1.527-1.533	.172-.179, .266-.273, .309-.319, .409-.419, .512-.522, .606-.621, .718-.733, .821-.836, .995-1.010, 1.170-1.185, 1.343-1.358, 1.517-1.532

Inch

Thread Size	O.D	Height	Holes (4)
3/8-16, 1/2-13, 5/8-11, 3/4-10, 1-8	1, 1-1/4, 1-3/8, 1-3/4, 2	3/8, 7/16, 9/16	.188, .257, .316

Inch

Thread Size	O.D	O'all Thickness	Minor Thickness
10-24, 1/4-20, 5/16-18, 3/8-16, 1/2-13	3/4, 1	7/32, 5/16, 3/8	5/32, 1/4

Pins & Rods

Round Pin Blank



Materials offered in: 4140 Steel, 18-8 SS
Finishes: Plain
 Cut end pin blanks manufactured from various materials.

Small Diameter Dowel Pin



Materials offered in: 18-8 SS
Finishes: Plain

Unthreaded Stepped Dowel Pin



Materials offered in: 416 SS
Finishes: Plain
 These pins have two different diameters in body for more unique applications.

Threaded Stepped Dowel Pin



Materials offered in: 416 SS
Finishes: Plain
 The large end has internal threads for a more secure mount.

Pull Dowel



Materials offered in: Low Carbon Steel
Finishes: Case hardened
 Designed with a flat on the side to release trapped air in blind holes.

Double Drilled Clevis Pin



Materials offered in: Hi-strength Aluminum
 Clevis pins are useful for quick disconnect or temporary fasteners.

Clevis Pin



Materials offered in: 18-8 SS
 With all the advantages of a bolt or rivet, plus quick installation or removal with the use of a cotter pin (not included).

Headless Extra Long Clevis Pin



Materials offered in: 18-8 SS
 Lengths from 12" to 24" provide extra length

Detail of either end

Inch

Diameter	Length
1/8, 5/32, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4, 1	12

Inch

Diameter	Length
1/64	1/4, 3/8, 1/2

Inch

Diameter	Length	Small Diameter	Short Length
3/16, 1/4, 5/16, 3/8, 1/2	9/16, 3/4, 1, 1-1/8, 1-3/8, 1-1/2, 1-3/4, 2-1/4, 2-3/4	5/32, 3/16, 1/4, 5/16, 3/8	3/16, 3/8, 9/16, 3/4, 1, 1-3/16

Metric (mm)

Diameter	Length	Small Diameter	Short Length
5, 6, 8, 10, 13	15, 20, 25, 35, 40, 45, 55, 70	4, 5, 6, 8, 10	5, 10, 15, 20, 25, 30

Inch

Diameter	Length	Small Diameter	Short Length	Internal Thread
1/4, 5/16, 3/8, 1/2	1-1/8, 1-3/8, 1-1/2, 1-3/4, 2-1/4, 2-3/4	3/16, 1/4, 5/16, 3/8	9/16, 3/4, 1, 1-3/16	6-32, 8-32, 10-24, 1/4-20

Metric (mm)

Diameter	Length	Small Diameter	Short Length
6, 8, 10, 13	25, 30, 35, 40, 45, 55, 70	5, 6, 8, 10	10, 15, 20, 25, 30

Inch

Diameter	Length	Thread Size
1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 1	3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3	8-32, 10-32, 1/4-20, 5/16-18, 3/8-16

Inch

Pin Diameter	O'all Length	Usable Length
1/4, 3/8, 1/2, 3/4	1-3/4, 1, 1-1/4, 1-1/2, 2-1/4, 2-1/2, 2-3/4, 3, 3-1/4, 3-1/2, 4, 4-1/4, 4-1/8, 4-5/8, 5-1/8, 5-5/8, 6-1/8	3/4, 1, 1-1/4, 1-1/2, 1-3/4, 2, 2-1/2, 3, 3-1/2, 4

Inch

Pin Diameter	Length	Usable Length
3/6, 1/2, 1-1/4	3/4, 1-1/8, 4, 5	15/16, 1/2, 3-3/8, 4-3/8

Inch

Pin Diameter	Length	Usable Length
3/16, 1/4, 5/16, 3/8, 1/2	12, 16, 20, 24	11, 15, 19, 23

Precision Tolerance Clevis Pin



Materials offered in: 18-8 SS, 316 SS, 17-4 PH SS

Finishes: Plain, black oxide

These pins combine the locking abilities of a clevis pin with the precision of a dowel pin for a tight fit.

Connector Stud (Hood Pin)



Materials offered in: 18-8 SS

These clevis pins are threaded so you can bolt them to a component on one end and lock the other end with the reusable cotter pin.

Cut Teflon Pin



Materials offered in: Teflon

Spring Anchor



Materials offered in: 18-8 SS, Steel

Finishes: Plain, black oxide

Attach an extension spring to a stud and then thread the stud into your part for a secure connection.

Swivel Spring Anchor



Materials offered in: 18-8 SS, Steel

Finishes: Plain, black oxide

These allow for the adjustment of tension on the spring, without twisting it.

Headless Spring Anchor with Grooves



Materials offered in: 18-8 SS

Finishes: Plain

Headless anchors come with a 18-8 SS Jam Nut ready for installation.

Inch

Pin Diameter	Length	Usable Length
1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2	1/2, 5/8, 3/4, 7/8, 1, 1-1/8, 1-1/4, 1-3/8, 1-1/2, 1-5/8, 1-3/4, 1-7/8, 2, 2-1/8, 2-1/4, 2-3/8, 2-1/2, 2-3/4, 3, 3-1/2, 4	5/16, 7/16, 9/16, 11/16, 3/4, 13/16, 15/16, 1, 1-1/16, 1-3/16, 1-1/4, 1-5/16, 1-7/16, 1-1/2, 1-9/16, 1-11/16, 1-3/4, 1-13/16, 1-15/16, 2-5/16, 2-9/16, 2-3/4, 2-13/16, 3-5/16

Metric

Pin Diameter	Length	Usable Length
8, 10, 12, 16, 20	20, 24, 25, 30, 35, 40, 45, 50, 60, 65, 80	15, 19, 20, 23, 24, 25, 28, 29, 30, 31, 34, 38, 39, 41, 43, 44, 49, 51, 53, 54, 64

Inch

Pin Diameter	Length	Usable Length	Thread Size
5/16, 3/8, 1/2	2, 3, 4	1.4, 2.4, 3.4,	5/16-24, 3/8-24, 1/2-20

Inch

Pin Diameter	Length
.120-.130, .182-192, .245-255	1/4, 3/8, 1/2, 1, 1-1/2, 2

Inch

Thread Size	O'all Length	Threaded Shank Length
6-32, 6-40, 6-48, 8-32, 8-36, 8-40, 10-24, 10-32, 1/4-20, 1/4-28, 3/8-16, 3/8-24	5/8, 7/8, 1-1/8, 1-1/4, 1-5/8	.400, .625, .750, .875, 1.125

Metric

Thread Size	O'all Length	Threaded Shank Length
M3.5, M4, M5, M6, M8, M10	16, 22, 28, 32, 38, 41	10, 16, 19, 22, 25, 28

Inch

Thread Size	O'all Length	Head Height
6-32, 6-40, 8-32, 8-36, 10-24, 10-32, 1/4-20, 1/4-28, 3/8-16, 3/8-24	.625, .875, 1.125, 1.250, 1.625	.150, .160, .190, .250, .360

Metric

Thread Size	O'all Length	Threaded Shank Length
M3.5, M4, M5, M6, M8, M10	16, 22, 28, 32, 38, 41	10, 16, 19, 22, 25, 28

Inch

Major Dia.	O'all Length	Groove Dia.	Thread Size
1/8, 3/16, 1/4, 5/16, 3/8, 1/2	5/8, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3	.078, .125, .156, .188, .250, .281	5-40, 10-32, 1/4-20, 5/16-18, 3/8-16, 1/2-13

Pins & Rods

Headed Spring Anchor with Grooves



Materials offered in: 18-8 SS
Finishes: Plain
 Multiple grooves allow for height adjustments after installation. 3 grooves on each anchor.

Inch

End Inner Dia.	Groove Dia	Shaft Length	Thread Size
.070, 1/8, 11/64, 3/16, 13/64, 17/64, 19/64, 3/8, 27/64, 9/16, 5/8, 13/16, 1	.017, .063, .094, .126, .094, .170, .214, .238, .326, .360, .488, .610, .700	3/8, 1/2, 3/4, 1, 1-1/4, 1-1/2, 1-3/4, 2, 2-1/4, 2-1/2, 2-3/4, 3	1-72, 4-40, 8-32, 10-24, 1/4-20, 5/16-18, 1/2-13, 5/8-11, 3/4-10

Partially Threaded Studs



Materials offered in: 18-8 SS
Finishes: Plain
 Use the unthreaded end as a pivot point, hinge, shaft, or locator pin.

Inch

Thread Size	Thread Length	Shaft Length	Diameter
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, 3/4, 5/8, 1, 1-1/2, 1-3/4, 2-1/4, 2-3/4, 3-1/4, 4-1/4, 4-3/4, 5-1/4	1/2, 3/4, 1-1/4, 1-3/4, 2-1/4, 2-3/4, 3-1/4, 3-3/4, 4-1/4, 4-1/2, 4-3/4, 5-1/4	.198, .164, .190, 1/4, 5/16, 3/8

External Threaded Connecting Rods



Materials offered in: 18-8 SS, Aluminum, 12L14 Steel
Finishes: Plain
 Designed for use with right-hand threaded rod ends, these rods have right-hand threads on both ends. Use them for remote valve operators, throttle controllers, shifting mechanisms, and virtually any push/pull assembly.

Inch

Thread Size	O'all Length	Thread Length	OD
10-24, 10-32, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-20, 1/2-20, 5/8-11, 5/8-18	3, 6, 9, 12, 18, 24, 30, 36	1, 1-3/16, 1-1/2, 1-5/8, 2, 3-5/8	3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4

Metric

Thread Size	O'all Length	Thread Length	OD
M3 x 0.5, M4 x 0.7, M5 x 0.8, M6 x 1, M8 x 1.25, M10 x 1.5, M12 x 1.75, M14 x 2, M16 x 2, M20 x 2.5	75, 150, 225, 305, 455, 610	25, 30, 35, 40, 50, 75	3, 4, 5, 6, 8, 10, 12, 14, 16, 20

Internally Threaded Connecting Rods



Materials offered in: 18-8 SS, Aluminum, 12L14 Steel
Finishes: Plain
 Designed for use with right-hand thread rod ends, these rods have right-hand threads on both ends. Use them for remote valve operators, throttle controllers, shifting mechanisms, and virtually any push/pull assembly.

Inch

Thread Size	O'all Length	Internal Thread Depth	OD
10-24, 10-32, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-20, 1/2-20, 5/8-18	3, 6, 9, 12, 18, 24, 30, 36	3/4, 1, 1-1/4, 1-3/8, 1-1/2, 1-5/8	1/4, 3/8, 7/16, 9/16, 5/8, 3/4, 7/8

Metric

Thread Size	O'all Length	Internal Thread Depth	OD
M3 x 0.5, M4 x 0.7, M5 x 0.8, M6 x 1, M8 x 1.25, M10 x 1.5, M12 x 1.75, M16 x 2, M20 x 2.5	75, 150, 225, 305, 455, 610	25, 30, 35, 40, 50, 75	6.3, 9.5, 11, 12.5, 15.8, 19, 22.2

RH/LH Externally Threaded Turnbuckle Rods



Materials offered in: 18-8 SS, Aluminum, 12L14 Steel
Finishes: Plain
 Similar to turnbuckles, these rods have right-hand threads on one end and left-hand threads on the other so you can make a linkage that adjusts for tension. Add right- and left-hand threaded rod ends to build your linkages. Rods have a hex-shaped body so you can adjust them with a wrench. Grove indicates Left-Hand thread side.

Inch

Thread Size	O'all Length	Thread Length	Hex Size
6-32, 10-32, 1/4-28, 5/16-18, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 5/8-11, 5/8-18	2, 3, 4, 12, 18, 24	1/2, 3/4, 1, 1-1/4, 1-3/4, 2	3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8

Metric

Thread Size	O'all Length	Thread Length	Hex Size
M5 x 0.8, M6 x 1, M8 x 1.25, M10 x 1.5, M12 x 1.75, M14 x 2, M16 x 2, M20 x 2.5	50, 76, 100, 150, 305, 455, 610	12, 16, 20, 25, 30, 40, 50	5, 6, 8, 10, 12, 14, 16, 20

RH/LH Internally Threaded Turnbuckle Rods



Materials offered in: 18-8 SS, Aluminum, 12L14 Steel

Finishes: Plain

Similar to turnbuckles, these rods have right-hand threads on one end and left-hand threads on the other so you can make a linkage that adjusts for tension. Add right- and left-hand threaded rod ends to build your linkages. Rods have a hex-shaped body so you can adjust them with a wrench. Groove indicates Left-Hand thread side.

Rod End Bolts



Materials offered in: 18-8 SS, 316, 17-4 PH SS, Brass, 4140 Alloy Steel, 12L14 Steel

Finishes: Plain, black oxide

Rod End Bolts also known as swing blots, pivoting bolts and hinge eyebolts. These threaded bolts can be cut to length to fit your application.



**Available in Right and Left hand threads for 18-8 inch.*

Inch

Thread Size	O'all Length	Internal Thread Depth	Hex Size
6-32, 10-32, 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 5/8-18, 3/4-16	2, 3, 4, 6, 12, 18	1/2, 3/4, 1	5/16 3/8, 1/2, 5/8, 3/4, 7/8, 1

Metric

Thread Size	O'all Length	Internal Thread Depth	Hex Size
M5 x 0.8, M6 x 1, M8 x 1.25, M10 x 1.5, M12 x 1.75, M14 x 2, M16 x 2, M20 x 2.5	50, 76, 100, 150, 305	12, 16, 20, 25,	10, 12, 17, 19, 22, 24, 30,

Inch

Thread Size	Shank Center Lg.	ID	Thread Length
6-32, 8-32, 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, 5/8-24, 3/4-10, 3/4-16, 7/8-9, 1-8, 1-1/4-7, 1-1/2-6	3/4, 1, 1-1/2, 2, 3, 3-1/2, 4, 5, 6, 8	1/8, 5/32, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4, 1-1/2	1/2, 3/4, 1, 1-1/8, 1-1/4, 1-1/2, 1-3/4, 2-1/2, 2-3/4, 3, 3-1/2, 4-1/4, 4-1/8, 4-1/2, 4-3/16, 5-5/8, 6

Metric (mm)

Thread Size	Shank Center Lg.	ID	Thread Length
M5 x 0.8, M6 x 1, M8 x 1.25, M10 x 1.5, M12 x 1.75, M16 x 2, M20x 2.5, M24 x 3	25, 30, 35, 40, 45, 50, 60, 70, 75, 80, 90, 110, 120, 130, 140, 150	5, 6, 8, 10, 12, 16, 18, 22	16, 18, 21, 22, 24, 26, 29, 31, 36, 37, 38, 42, 44, 46, 48, 52, 54, 56, 57, 58, 67, 68, 72, 74, 78, 87, 88, 92, 97, 98, 108, 118

Machine Tool Accessories

Lathe Mandrels



Materials offered in: Alloy Steel

Finishes: Black oxide

These Mandrels are ground to a .0005 per inch taper – starting at the nominal to .0005 under size at the small end.

Inch

Diameter	Length
1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4, 7/8, 1	2-1/2, 3, 3-3/4, 4, 4-1/4, 4-1/2, 5, 5-1/4, 5-1/2, 6, 6-1/2, 7

Handle and Extension Rod Kits for Brushes



Materials offered in: Alloy Steel

Finishes: Black oxide

Add length to your brush and get a better grip. T-Handle with Six Extension Rods, One Wiper and One 8-32 To 5/16 Adapter.

Inch

Product Description

T-Handle with Extension Rods for Tube Brushes - (6) Extensions, (1) Handle, (1) Wiper, (1) 8-32 to 5/16-27 Adapter



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