






































## STAINLESS STEEL FASTENERS



	<p><b>Hex Bolt</b>  <b>304 / 316 / 316HT</b>                      Metric Sizes -                      M5 x 30 – M36 x 250                      Imperial Sizes -                      3/16 x 2.1/2 – 1 x 6</p>		<p><b>Hex Nut</b>  <b>(left hand)</b>  <b>304 / 316</b>                      Metric Sizes -                      M4 – M30</p>		<p><b>Hex Castle Nut</b>  <b>(thin type)</b>  <b>304 / 316</b>                      Metric Sizes -                      M6 – M24</p>
	<p><b>Hex Set Screw</b>  <b>304 / 316 / 316HT</b>                      Metric Sizes -                      M2.5 x 5 – M36 x 150                      Imperial Sizes -                      3/16 x 1/2 – 1.1/4 x 3.1/2</p>		<p><b>Hex Nut</b>  <b>(fine pitch)</b>  <b>304 / 316</b>                      Metric Sizes -                      M8 x 0.5P – M39 x 1.5P</p>		<p><b>Coupling Nut</b>  <b>(I = 1.5d)</b>  <b>304 / 316</b>                      Metric Sizes -                      M8 – M24</p>
	<p><b>Hex Set Screw</b>  <b>(slotted)</b>  <b>304 / 316</b>                      Metric Sizes -                      M3 x 5 – M8 x 50</p>		<p><b>Hex Lock Nut</b>  <b>304 / 316</b>                      Metric Sizes -                      M1.6 - M45                      Imperial Sizes -                      1/4 – 3/4</p>		<p><b>Coupling Nut</b>  <b>(with collar)</b>  <b>(I = 1.5d)</b>  <b>304 / 316</b>                      Metric Sizes -                      M8 – M30</p>
	<p><b>Threaded Rod</b>  <b>304 / 316</b>                      Metric Sizes -                      M3 x 1000 – M36 x 3000                      Imperial Sizes -                      10-24 x 36 – 1.1/2 x 36</p>		<p><b>Hex Lock Nut</b>  <b>(fine pitch)</b>  <b>304 / 316</b>                      Metric Sizes -                      M8 x 0.75P – M36 x 1.5P</p>		<p><b>Coupling Nut</b>  <b>(I = 3d)</b>  <b>304 / 316</b>                      Metric Sizes -                      M6 – M24</p>
	<p><b>Hex Coach Screw</b>  <b>304 / 316</b>                      Metric Sizes -                      M6 x 65 – M20 x 200</p>		<p><b>Nyloc Nut</b>  <b>304 / 316</b>                      Metric Sizes -                      M2.5 x M36                      Imperial Sizes -                      4-40 – 1</p>		<p><b>Hank Bush</b>  <b>304</b>                      Metric Sizes -                      M3 – M16</p>
	<p><b>Cup Head Square Neck Bolt</b>  <b>304 / 316</b>                      Metric Sizes -                      M5 x 16 – M20 x 200</p>		<p><b>Dome Nut</b>  <b>304 / 316</b>                      Metric Sizes -                      M3 - M30                      Imperial Sizes -                      6-32 – 1</p>		<p><b>Square Nut</b>  <b>304 / 316</b>                      Metric Sizes -                      M5 – M12</p>
	<p><b>Eye Bolt</b>  <b>304 / 316</b>                      Metric Sizes -                      M6 x 40 – M16 x 30</p>		<p><b>Nylon Insert Dome Nut</b>  <b>304</b>                      Metric Sizes -                      M4 – M16</p>		<p><b>Square Thin Nut</b>  <b>304 / 316</b>                      Metric Sizes -                      M2 – M10</p>
	<p><b>D-Shackle</b>  <b>316</b>                      Metric Sizes -                      M4 – M16</p>		<p><b>Hex Flange Nut</b>  <b>304 / 316</b>                      Metric Sizes -                      M5 – M12</p>		<p><b>Weld Nut</b>  <b>304</b>                      Metric Sizes -                      M3 x 4 – M10 x 10.5</p>
	<p><b>T-Head Bolts</b>  <b>(with square neck)</b>  <b>304 / 316</b>                      Metric Sizes -                      M8 x 30 – M20 x 120</p>		<p><b>Wing Nut</b>  <b>304 / 316</b>                      Metric Sizes -                      M3 – M16                      Imperial Sizes -                      10-24 – 1/2</p>		<p><b>Hex Weld Nut</b>  <b>304 / 316</b>                      Metric Sizes -                      M3 – M16</p>
	<p><b>T-Head Bolts</b>  <b>(with double nib)</b>  <b>304 / 316</b>                      Metric Sizes -                      M8 x 30 – M20 x 120</p>		<p><b>Stailoc Nut</b>  <b>304 / 316</b>                      Metric Sizes -                      M3 – M24</p>		<p><b>Square Weld Nut</b>  <b>304</b>                      Metric Sizes -                      M5 – M8</p>
	<p><b>Hanger Bolt</b>  <b>304</b>                      Metric Sizes -                      M6 x 40 – M12 x 200</p>		<p><b>Hex Cap Nut</b>  <b>304 / 316</b>                      Metric Sizes -                      M3 – M30</p>		<p><b>Eye Nut</b>  <b>304 / 316</b>                      Metric Sizes -                      M6 – M36</p>
	<p><b>Hex Nut</b>  <b>304 / 316 / 316HT</b>                      Metric Sizes -                      M1 - M52                      Imperial Sizes -                      2-56 – 1.3/4</p>		<p><b>Hex Castle Nut</b>  <b>304 / 316</b>                      Metric Sizes -                      M5 – M30</p>		<p><b>Sleeve Nut</b>  <b>304</b>                      Metric Sizes -                      M4 – M8</p>
					<p><b>Slotted Round Nut</b>  <b>304</b>                      Metric Sizes -                      M1.4 – M12</p>

# FASTENERS

## STAINLESS STEEL FASTENERS



**Knurled Thumb Nut (high type)**  
**304**  
Metric Sizes -  
M2 – M10



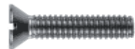
**Knurled Thumb Nut (thin type)**  
**304**  
Metric Sizes -  
M3 – M10



**Push Nut**  
**304**  
Metric Sizes -  
M1.2 – M12



**T-Nut (4 prong)**  
**304**  
Metric Sizes -  
M3 – M10



**Countersunk Slot Machine Screw**  
**304 / 316**  
Metric Sizes -  
M1.6 x 4 – M20 x 100  
Imperial Sizes -  
1/8 x 1/4 – 3/8 x 4



**Pan Slot Machine Screw**  
**304 / 316**  
Metric Sizes -  
M2 x 4 – M8 x 50



**Round Slot Machine Screw**  
**304 / 316**  
Imperial Sizes -  
1/8 x 1/4 – 3/8 x 4



**Cheese Slot Machine Screw**  
**304 / 316**  
Metric Sizes -  
M2.5 x 3 – M10 x 30



**Countersunk Phillips Machine Screw**  
**304 / 316**  
Metric Sizes -  
M2.5 x 5 – M10 x 60  
Imperial Sizes -  
8-32 x 3/8 – 5/16 x 2.1/2



**Countersunk Pozi Machine Screw**  
**304 / 316**  
Metric Sizes -  
M1.6 x 3 – M8 x 50



**Countersunk Torx Machine Screw**  
**304 / 316**  
Metric Sizes -  
M2 x 4 – M8 x 50



**Pan Phillips Machine Screw**  
**304 / 316**  
Metric Sizes -  
M1.6 x 3 – M8 x 60  
Imperial Sizes -  
6-32 x 1/8 – 1/4 x 2



**Pan Pozi Machine Screw**  
**304 / 316**  
Metric Sizes -  
M1.6 x 3 – M6 x 60



**Pan Torx Machine Screw**  
**304 / 316**  
Metric Sizes -  
M2.5 x 4 – M6 x 40



**Raised Countersunk Slot Machine Screw**  
**304 / 316**  
Metric Sizes -  
M2 x 5 – M10 x 60



**Raised Countersunk Phillips Machine Screw**  
**304 / 316**  
Metric Sizes -  
M2 x 6 – M10 x 35



**Raised Countersunk Pozi Machine Screw**  
**304 / 316**  
Metric Sizes -  
M2 x 6 – M6 x 40



**Mushroom Head Slot Machine Screw**  
**304**  
Metric Sizes -  
M4 x 8 – M8 x 40



**Wing Screw**  
**304 / 316**  
Metric Sizes -  
M3 x 10 – M12 x 60



**Wing Screw (heavy type)**  
**304 / 316**  
Metric Sizes -  
M4 x 16 – M12 x 40



**Capstan Screw (slotted)**  
**304**  
Metric Sizes -  
M3 x 4 – M6 x 30



**Slotted Headless Screw with chamfered end**  
**304**  
Metric Sizes -  
M3 x 4 – M6 x 30



**Eye Bolt type B**  
**304 / 316**  
Metric Sizes -  
M6 x 30 – M24 x 200



**Knurled Thumb Screw (high type)**  
**304**  
Metric Sizes -  
M3 x 4 – M6 x 40



**Knurled Thumb Screw, slotted (high type)**  
**304**  
Metric Sizes -  
M3 x 4 – M6 x 20



**Pan Slot Machine Screw (large head)**  
**304**  
Metric Sizes -  
M3 x 4 – M8 x 25



**Pan Slot Machine Screw (with shoulder)**  
**304**  
Metric Sizes -  
M2 x 1.8 – M8 x 30



**Slotted Shoulder Screw**  
**304**  
Metric Sizes -  
M3 x 2.5 – M6 x 12



**Pan Pozi Thread Rolling Screw**  
**304**  
Metric Sizes -  
M2.5 x 5 – M6 x 30



**Countersunk Pozi Thread Rolling Screw**  
**304**  
Metric Sizes -  
M2.5 x 5 – M6 x 30



**U-Bolt**  
**316**  
Nominal Bore or made to specification







































**Socket Head Cap Screw**  
**304 / 316 / 316HT**  
Metric Sizes -  
M1.6 x 4 – M30 x 150  
Imperial Sizes -  
4-40 x 3/8 – 3/4 x 2.1/2



**Socket Head Cap Screw (low head)**  
**304 / 316**  
Metric Sizes -  
M3 x 5 – M20 x 80

## STAINLESS STEEL FASTENERS







































	<p><b>Button Head Socket Machine Screw</b> 304 / 316 Metric Sizes - M3 x 6 – M10 x 60 Imperial Sizes - 4-40 x 1/8 – 1/2 x 1.1/2</p>		<p><b>Slotted Set Screw (with dog point)</b> 304 Metric Sizes - M3 x 3 – M10 x 40</p>		<p><b>Countersunk Slot Self Tapping Screw</b> 304 4g x 1/2 – 14g x 1.1/2</p>
	<p><b>Button Head Socket Machine Screw (with flange)</b> 304 Metric Sizes - M4 x 8 – M8 x 50</p>		<p><b>Pan Pozi Self Tapping Screw</b> 304 / 316 2g x 3/16 – 14g x 3</p>		<p><b>Pan Slot Self Tapping Screw</b> 304 4g x 3/8 – 14g x 2</p>
	<p><b>Countersunk Socket Machine Screw</b> 304 / 316 Metric Sizes - M3 x 5 – M24 x 150 Imperial Sizes - 6-32 x 1/4 – 1/2 x 4</p>		<p><b>Pan Phillips Self Tapping Screw</b> 304 / 316 2g x 1/4 – 14g x 3</p>		<p><b>Countersunk Torx Chipboard Screw</b> 304 3 x 10mm – 6 x 160mm</p>
	<p><b>Socket Head Set Screw (with cup point)</b> 304 / 316 Metric Sizes - M1.6 x 3 – M20 x 100 Imperial Sizes - 6-32 x 3/8 – 5/8 x 1.1/2</p>		<p><b>Pan Square Self Tapping Screw</b> 304 / 316 4g x 3/8 – 14g x 3</p>		<p><b>Countersunk Square Chipboard Screw</b> 304 4 x 20mm – 6 x 140mm</p>
	<p><b>Socket Head Set Screw (with dog point)</b> 304 / 316 Metric Sizes - M2 x 3 – M20 x 80</p>		<p><b>Pan Torx Self Tapping Screw</b> 304 / 316 4g x 3/8 – 14g x 3</p>		<p><b>Countersunk Pozi Chipboard Screw</b> 304 / 316 3 x 10mm – 6 x 160mm</p>
	<p><b>Socket Head Set Screw (with cone point)</b> 304 / 316 Metric Sizes - M2 x 2 – M20 x 80</p>		<p><b>Countersunk Pozi Self Tapping Screw</b> 304 / 316 2g x 1/4 – 14g x 3</p>		<p><b>Raised Countersunk Pozi Chipboard Screw</b> 304 3 x 12mm – 6 x 120mm</p>
	<p><b>Socket Head Set Screw (with flat point)</b> 304 / 316 Metric Sizes - M1.6 x 3 – M20 x 100</p>		<p><b>Countersunk Phillips Self Tapping Screw</b> 304 / 316 2g x 3/4 – 14g x 3</p>		<p><b>Pan Pozi Chipboard Screw</b> 304 3 x 16mm – 6 x 100mm</p>
	<p><b>Slotted Set Screw (with cone point)</b> 304 / 316 Metric Sizes - M2 x 3 – M10 x 50</p>		<p><b>Countersunk Square Self Tapping Screw</b> 304 / 316 4g x 3/8 – 14g x 3</p>		<p><b>Pan Torx Chipboard Screw</b> 304 3 x 16mm – 6 x 100mm</p>
	<p><b>Slotted Set Screw (with flat point)</b> 304 / 316 Metric Sizes - M2 x 2 – M10 x 80</p>		<p><b>Countersunk Torx Self Tapping Screw</b> 304 / 316 4g x 3/8 – 14g x 3</p>		
	<p><b>Slotted Set Screw (with cup point)</b> 304 Metric Sizes - M3 x 3 – M8 x 20</p>		<p><b>Raised Countersunk Pozi Self Tapping Screw</b> 304 / 316 4g x 1/4 – 14g x 1.1/2</p>		<p><b>Countersunk Slot Wood Screw</b> 304 / 316 2.5 x 10mm – 8 x 120mm</p>
			<p><b>Raised Countersunk Phillips Self Tapping Screw</b> 304 / 316 4g x 1 – 12g x 1.1/2</p>		<p><b>Round Slot Wood Screw</b> 304 / 316 2.5 x 10mm – 6 x 120mm</p>
			<p><b>Raised Countersunk Slot Self Tapping Screw</b> 304 4g x 3/8 – 14g x 1</p>		<p><b>Raised Countersunk Slot Wood Screw</b> 304 / 316 2.5 x 10mm – 6 x 100mm</p>
					<p><b>Countersunk Pozi Wood Screw</b> 304 3 x 12mm – 6 x 120mm</p>
					<p><b>Round Pozi Wood Screw</b> 304 3 x 16mm – 6 x 120mm</p>

# FASTENERS

## STAINLESS STEEL FASTENERS



	<b>Raised Countersunk Pozi Wood Screw 304</b> 3 x 12mm – 6 x 120mm		<b>Socket Head Self Tapping Screw 304 / 316</b> 4.8 x 13mm – 6.3 x 70mm		<b>Tab Washer (with long tab) 304 / 316</b> Metric Sizes - 3mm – 39mm
	<b>Pan Phillips PT Screw 304</b> 3 x 8mm – 4 x 25mm		<b>U-Drive Screw 304</b> 2g x 3/16 – 6g x 3/8		<b>Tab Washer (with internal tab) (for grooved nuts) 304 / 316</b> Metric Sizes - 6mm – 40mm
	<b>Countersunk Phillips PT Screw 304</b> 3 x 8mm – 4 x 16mm		<b>Split Pin 304 / 316</b> 1 x 12mm – 10 x 100mm		<b>Tab Washer (with two tabs) 304 / 316</b> Metric Sizes - 6mm – 40mm
	<b>Window Board Screw (with polyamid washer) (tapping thread) 304</b> 3.9 x 16mm – 3.9 x 32mm		<b>R-Clip 304</b> M1 / 4mm Shaft – M6 / 40mm Shaft		<b>Flat Square Washer 304 / 316</b> Metric Sizes - 10mm – 24mm
	<b>Window Board Screw (with polyamid washer) (chipboard thread) 304</b> 4 x 16mm – 4 x 30mm		<b>Wave Spring Pin 420 (straight type also available) M1.5 x 6 – M10 x 70</b>		<b>Flat Washer (for socket head cap screw) 304 / 316</b> Metric Sizes - 1.4mm – 20mm
	<b>Wood Screw (with mounted neoprene washer) 304</b> 4.5 x 20mm – 4.5 x 120mm		<b>Dowel Pin 304 / 316</b> M2 x 6 – M8 x 60		<b>Spring Washer (for socket head cap screw) 304 / 316</b> Metric Sizes - 3mm – 30mm
	<b>Tapping Screw (with mounted neoprene washer) 304</b> 3.9 x 10mm – 8 x 60mm		<b>Taper Pin 304</b> M2 x 6 – M8 x 60		<b>Flat Washer (outside diameter 3x nominal thread diameter) 304 / 316</b> Metric Sizes - 2.5mm – 24mm
	<b>Hex Head Self Tapping Screw 304 / 316</b> 3.5 x 9.5mm – 8 x 70mm		<b>Flat Washer 304 / 316</b> Metric Sizes - 2mm - 52mm Imperial Sizes - 1/8 – 1.1/2		<b>Flat Washer (with square hole) 304 / 316</b> Metric Sizes - 5mm – 20mm
	<b>Hex Self Drilling Screw (with flange) 304</b> 4.2 x 13mm – 6.3 x 50mm		<b>Half Penny Washer 304 / 316</b> Imperial Sizes - 3/16 x 7/8 – 3/8 x 7/8		<b>Shim Ring 304</b> Metric Sizes - 4mm – 50mm
	<b>Pan Pozi Self Drilling Screw 304</b> 3.9 x 13mm – 4.8 x 45mm		<b>Penny Washer 304 / 316</b> Imperial Sizes - 3/16 x 1.1/4 – 1/2 x 1.1/4		<b>Spring Washer 304 / 316</b> Metric Sizes - 2mm - 36mm Imperial Sizes - 3/32 – 1.1/4
	<b>Countersunk Pozi Self Drilling Screw 304</b> 3.9 x 13mm – 4.8 x 50mm		<b>Wave Washer 304 / 316</b> Metric Sizes - 2mm – 10mm		<b>External Tooth Lock Washer 304</b> Metric Sizes - 2mm – 27mm
			<b>Crinkle Washer 304 / 316</b> Metric Sizes - 3mm – 24mm		<b>Internal Tooth Lock Washer 304</b> Metric Sizes - 2mm – 27mm
			<b>Tab Washer (with external tab) 304 / 316</b> Metric Sizes - 4mm – 39mm		

## STAINLESS STEEL FASTENERS



**Cup Washer**  
**304**  
Metric Sizes -  
3mm – 6mm



**External Circlip**  
**304**  
Metric Sizes -  
4mm – 120mm



**Internal Circlip**  
**304**  
Metric Sizes -  
8mm – 140mm



**E-Type Circlip**  
**304**  
Metric Sizes -  
2mm – 24mm



**Serrated Lock Washer**  
**(for countersunk screw)**  
**304**  
Metric Sizes -  
3mm – 8mm



**External / Internal Fan Disc Lock Washer**  
**304 / 316**  
Metric Sizes -  
2mm – 30mm



**Schnorr Lock Washer**  
**304**  
Metric Sizes -  
2.5mm – 30mm



**Sealing Washer (with neoprene)**  
**304**  
Metric Sizes -  
4.7mm – 13mm



**Grease Nipple (straight and angled)**  
**304**  
Metric Sizes -  
M6 – M10  
Imperial Sizes -  
1/8 – 1/4



**Shaft Collar (with grub screw)**  
**304**  
Metric Sizes -  
M5 – M50

**Note: A range of security screws is also available.**

**Note: A variety of thread types are available in most products (eg. metric, unc, unf, bsw)**

## NUTS & BOLTS



### HIGH TENSILE:

Imperial - Grade 5, UNF & UNC 1/4" to 1" Diameter  
Imperial – Grade 8, UNF & UNC 1/4" to 1.1/4" Diameter  
Metric Coarse & Fine – Class 8.8 & 10.9 - M6 to M30 Diameter  
Finish: Plain & Zinc Blue



### GRADE 9:

Superior Quality, Grade 9 is 20% stronger than Grade 8.  
Imperial UNF & UNC only, sizes 1/4" to 1" Diameter up to 6" long.  
High Head Bolts, Nuts, and Locknuts. Hardened Flat washers, Grade 8 high alloy spring washers.  
Finish: Yellow Dichromate, for maximum corrosion protection.



### FLANGE BOLTS:

Grade 8, UNF & Class 10.9 Metric Fine Flange Bolts. Commonly used on truck chassis. Sizes in stock 1/2, 5/8, 3/4 M12, M14 & M16.  
Finish: Plain.



### 12 POINT:

Grade 8, UNF & UNC. Limited stocks of 1/2, 5/8 & 3/4" diameter.  
Full range available on Indent.  
Finish: Plain



### LOCKNUTS:

Nylon Insert, Metric M6 to M24 Coarse. M6 to M24 Fine.  
Grade 8, Imperial Nylon Insert UNF & UNC  
Conelock or Grade C (Full Steel, Grade 8) UNF & UNC 1/4 to 1.1/2" Diameter.  
Finish: Zinc Blue.



### WASHERS:

F436 Transport washers from 1/4 to 2" plus M12, M14, M18 & M22  
Finish: Plain & Yellow Dichromate.  
F436 Extra Thick washers from 1/4 to 1.1/2" Diameter. (nearly double the thickness of a Std F436)  
Finish: Yellow Dichromate.  
Stock standards (Mild Steel) Flat and Spring washers, 5/32 to 1.1/2", M4 to M24 Diameter. Fender washers 3/16 to 1/2".  
Finish: Plain & Zinc Blue  
Heavy Washers (3mm) 1/4 to 1.1/2" Diameter.  
Finish: Plain, Zinc Blue & Galvanised.

Visit: <http://www.oemsupply.co.nz> to find a Tradezone Distributor.

# FASTENERS



*The strongest off the shelf fastening system in the world*

## SOCKET HEAD CAP SCREWS

- Alloy Steel Class 12.9
- Sizes: M1.6 x 3 thru M42 x 400
- #0/80 x 1/8 thru 2-1/2" x 12"
- Also available:
- Stainless Steel GR 304 & 316
- Zinc Plated (Metric & Imperial)
- Thread types:
- Metric Course & Fine
- Unified UNC & UNF
- BSW, BA & BSF



## SOCKET SET SCREWS (Grub Screws)

- Alloy Steel Class 14.9
- Sizes: M1.6 x 2.5 thru M24 x 80
- #0/80 x 1/16 thru 1-1/2" x 4"
- Also available:
- Stainless Steel GR 304 & 316
- Zinc Plated (Metric & Imperial)
- Point selection:
- Cup Point (Standard)
- Knurled Cup Point
- Flat Point
- Cone Point
- Dog Point
- Oval Point
- Thread types:
- Metric Course
- Unified UNC & UNF
- BSW



## COUNTERSUNK SOCKET SCREWS

- Alloy Steel Class 12.9
- Sizes: M3 x 5 thru M30 x 100
- #0/80 x 1/8 thru 1-1/4" x 8"
- Also available:
- Stainless Steel GR 304 & 316
- Zinc Plated (Metric & Imperial)
- Thread types:
- Metric Course
- Unified UNC & UNF
- BSW, BA & BSF



## BUTTON HEAD SOCKET SCREWS

- Alloy Steel Class 12.9
- Sizes: M3 x 5 thru M12 x 100
- #0/80 x 1/8 thru 5/8 x 4"
- Also available:
- Stainless Steel GR 304 & 316
- Zinc Plated (Metric & Imperial)
- Thread types:
- Metric Course
- Unified UNC & UNF
- BSW, BA & BSF



## DOWEL PINS

- Alloy Steel
- Surface Hardness RC 60 Min.
- Core Hardness RD 50-58 Min.
- Surface Finish 8 Mu Max.
- Sizes: M3 x 8 thru M25 x 150
- 1/16 x 3/16 thru 1" x 6"
- Stainless Steel GR 304
- Various styles available:
- Alloy (Standard)
- Oversize
- Pull-Out (Extraction)



## PIPE PLUGS (Taper Pressure Plug)

- Alloy Steel Hardness RC 35-40
- Types & sizes avail:
- BSPT 3/4" Taper (Standard)
- Sizes: 1/8" thru 1-1/2"
- NPTF 3/4" Taper (Standard)
- Sizes: 1/16 thru 2"
- NPTF 7/8 Taper
- Sizes: 1/16 thru 2"



## SPRING TENSION PINS

- Black Steel
- Sizes: M2 x 4 thru M12 x 100
- 1/16 x 3/16 thru 1/2 x 4"
- Stainless Steel GR 304
- available in some sizes.



## SOCKET SHOULDER SCREWS

- Alloy Steel Class 12.9
- Sizes: M5 x 6 x 10 thru M20 x 24 x 120
- #10/24 x 1/4 x 1/4 thru 7/8 x 1-1/4 x 6"
- Stainless Steel GR 304 avail. in some sizes
- Thread types:
- Metric Course
- Unified UNC & UNF
- BSW



## HEXAGON KEYS (Long Arm & Short Arm)

- Two grades available in both Metric and Imperial sizes
- 6150 Steel (Kit Key) HRC 50-52
- 8650 Steel (Premium Brand) HRC 54-58
- Sizes available:
- 0.7mm thru 32mm (Short Arm)
- 1.3mm thru 32mm (Long Arm)
- 0.28" thru 1-3/4" (Short Arm)
- 0.35" thru 1" (Long Arm)



## HEX KEY SETS

- S2 Industrial Steel Bronze Anodized
- Hardness RC 58-62
- Metric Short Arm Wallet 9 Piece Set
- Size: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm
- Imperial Short Arm Wallet 10 Piece Set
- Sizes: 1/16, 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8
- Metric Long Arm Ball End 9 Piece Kit
- Size: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm
- Imperial Long Arm Ball End 9 Piece Kit
- Sizes: 1/16, 5/64, 3/32, 1/8, 5/32, 3/16, 1/4, 5/16, 3/8

## HIGH TENSILE HEXAGON BOLTS

- Metric Course Thread
- Class 8.8 Z/P Blue Dichromate
- Sizes: M5 x 10 thru M24 x 180
- Class 8.8 Plain Finish
- Sizes: M5 x 10 thru M36 x 300
- Alloy Class 10.9 Z/P Blue Dichromate
- Sizes: M6 x 16 thru M24 x 250
- Alloy Class 10.9 Plain Finish
- Sizes: M30 x 70 thru M36 x 300
- Imperial UNC & UNF
- Alloy Grade 8 Z/P Yellow Dichromate
- Sizes: 1/4 x 1/2 thru 1" x 8"
- Alloy Grade 8 Giant Plain Finish
- Sizes: Long lengths in all diameters plus 1-1/8 x 2-1/2 thru 2" x 16"



## NYLON INSERT LOCKNUTS

- Metric Course Thread
- Class 8.8 DIN 985 Z/P Blue Dichromate
- Sizes: M3 thru M42
- Inch Series (Z/P Blue Dichromate)
- NE - Standard
- NU - Heavy Duty
- NTE - Standard Thin
- NTU - Heavy Thin
- Sizes: #2/56 thru 2-1/4"
- Thread types:
- Unified UNC & UNF
- BSW
- Also available:
- Stainless GR 304 & GR 316
- Grade C High Tensile





## CONELOCK NUTS

- Metric Course Class 10 Z/P & Waxed  
Sizes: M6 thru M36
- Imperial UNC/UNF Grade C Z/P & Waxed  
Sizes: 1/4 thru 1"



## SPRING WASHERS

- Metric Z/P Blue Dichromate  
Sizes: M5 thru M24
- Imperial Z/P Yellow Dichromate  
Sizes: 1/4 thru 1"
- Imperial Plain Finish  
Sizes: 1-1/8 thru 1-1/2"



## FLAT WASHERS

- Metric Z/P Blue Dichromate  
Sizes: M5 thru M24
- Metric Plain  
Sizes: M30 & M36
- Imperial SAE Z/P Yellow Dichromate  
Sizes: 1/4 thru 1"
- Imperial SAE Plain  
Sizes: 1-1/8 thru 2"
- Imperial USS Z/P Yellow Dichromate  
Sizes: 1/4 thru 1"
- Imperial USS Plain  
Sizes: 1-1/8 thru 1-1/2"



## HEXAGON NUTS

- Metric Class 8 & 10 Z/P Blue Dichromate  
Sizes: M5 thru M24
- Metric Class 8 Plain  
Sizes: M5 thru M36
- Metric Class 10 Plain  
Sizes: M30 & M36
- Imperial Grade 8 Z/P Yellow Dichromate  
Sizes: 1/4 thru 1"
- Imperial Grade 8 Plain Finish  
Sizes: 1-1/8 thru 2"



## SQUARE HEAD SET SCREWS

- Mild Steel Case Hardened Cup Point (UNC)  
Sizes: 1/4 x 3/8 thru 1" x 6"



## L9® FASTENING SYSTEM

- Imperial (UNC & UNF Threads) Bolts, Nuts, Locknuts & Washers in Z/P Yellow Dichromate  
Sizes: 1/4 x 1/2 thru 1-1/2" x 12"



## THREAD REPAIR



### MNPT

Size	Qty/Kit
26023	8/1-27 10 1/8-27
26043	4/1-18 10 1/4-18
26063	8/3-18 10 3/8-18
26083	2/1-14 5 1/2-14
26123	4/3-14 5 3/4-14
26163	1-11 1/2 3

### BSP

Size	Qty/Kit
21023	8/1-28 10 1/8-28
21043	4/1-19 10 1/4-19
21063	8/3-19 10 3/8-19
21083	2/1-14 5 1/2-14
21103	8/5-14 5 5/8-14
21123	4/3-14 5 3/4-14
21163	1-11 3

## ENSAT TAPPERS – SELF CUTTING THREADED INSERTS

### STEEL, CASE HARDENED

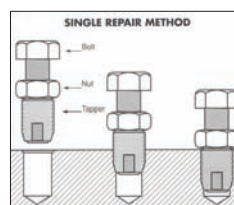
RE3020030/16	M3 x 0.5
RE3020040/16	M4 x 0.7
RE3020050/16	M5 x 0.8
RE3020060/16	M6 x 1
RE3020061/16	M6(A) x 1
RE3020080/16	M8 x 1.25
RE3020100/16	M10 x 1.5
RE3020106/16	M10 x 1.25
RE3020126/16	M12 x 1.25
RE3020127/16	M12 x 1.5
RE3020120/16	M12 x 1.75
RE3020140/16	M14 x 2
RE3020160/16	M16 x 2
RE3020167/16	M16 x 1.5
RE3020625/16	UNC 1/4 x 20
RE3020631/16	UNC 5/16 x 18
RE3020637/16	UNC 3/8 x 16
RE3020644/16	UNC 7/16 x 14

### RE3020650/16

RE3020662/16	UNC 1/2 x 13
RE3020725/16	UNC 5/8 x 11
RE3020731/16	UNC 1/4 x 28
RE3020737/16	UNF 5/16 x 24
RE3020744/16	UNF 3/8 x 24
RE3020750/16	UNF 7/16 x 20
RE3020762/16	UNF 1/2 x 20
RE3020550/16	UNF 5/8 x 18
RE3040140/16	WHIT 1/2 x 12
RE3040141/16	M14 x 1.25 - 9mm
	M14 x 1.25 - 15mm

### STAINLESS STEEL 304

RE3020040/40	S/Steel M4 x 0.7
RE3020050/40	S/Steel M5 x 0.8
RE3020060/40	S/Steel M6 x 1.0
RE3020080/40	S/Steel M8 x 1.25
RE3020100/40	S/Steel M10 x 1.5
RE3020120/40	S/Steel M12 x 1.75



The tapper is a self cutting threaded insert having an internal and external thread with cutting slots. This threaded insert is screwed into a preformed or predrilled retaining hole and cuts its own thread upon installation.

The tapper can be used in most metals, hardwood, laminates, press board, plastics, thermoplastics, duroplastics and PU/PUR foam. Tappers are used extensively in the metal and plastics industries in either OEM or repair applications and provide a durable, permanent and wear resistant thread.

1. Drill hole to the recommended size.
2. Thread the nut onto the bolt.
3. Thread the tapper onto the bolt, slot side down.
4. The end of the bolt should be flush with the end of the tapper.
5. Lock the nut against the tapper.
6. Install the tapper straight by putting downward pressure on the bolt and screw into the hole using an open ended wrench on the nut to drive the tapper in.
7. Tapper is installed when the nut is flush with the parent material.
8. Loosen the nut with an open ended wrench and remove both the nut and bolt from the tapper.