

EYEBOLTS are commonly attached to a load to provide an attachment point for slings and rigging. They are generally manufactured from forged carbon or alloy steel.

Eyebolt Types

Eyebolts come in many varying configurations. You can get them with shoulder nut, regular (shoulder less), machinery, swivel hoist rings and eyenuts. Shoulder eyebolts are the most practical eyebolt to use as they provide a support to the eyebolt shaft and allows angular lifting with a reduction in capacity. Shoulderless eyebolts are used for in-line lifting only. Swivel hoist rings are suitable for angular type lifting particularly angles exceeding 45 degrees (swivel hoist rings are available in a range of products, please check with Bluejay for further details). Eyenuts are drilled and tapped to accept threaded rated rod.

Instructions for Safe Use

1. Ensure that you have the correct eyebolt for the lift. Always use shoulder eyebolts for all applications, except where it is not possible due to the configuration of the load. Shoulderless eyebolts are fine for vertical loading but can bend and fail under angular loading. Shoulder eyebolts loose some capacity when loaded on an angle. Use swivel hoist rings where ever possible on angular lifting especially angles at or less than 45 degrees.
2. Ensure shoulder seats snugly on the surface which they bear. Make sure the eyebolt is screwed down completely and the nut is tightened securely against the load. Spacers may be used, if necessary, to ensure proper seating of the eyebolt. A washer should not be less in diameter than the diameter of the shoulder, and the thickness of the steel washer or spacer must not exceed one thread pitch.
3. An eyebolt must be installed into a tapped hole with a minimum depth of two times the shank diameter.
4. When using lifting slings having two or more legs, make sure the load on each leg is calculated based on the angular loading. Use an eyebolt with a shoulder or swivel hoist ring with the correct WLL suited to the angle being lifted. Reductions for Angular Lifting with Eyebolts:

True Vertical - Full catalogue Working Load Limit

75° - 55% of full catalogue Working Load limit

65° - 35% of full catalogue Working Load limit

45° - 25% of full catalogue Working Load limit

DO NOT USE less than 45°

5. **DO NOT** reeve a sling through a pair of bolts, attach a separate sling to each eyebolt. NEVER insert the point of a hook in an eyebolt, use a shackle instead.

6. **DO NOT** use wrenches, bars etc to tighten standard eyebolts. Hand tightening is recommended.

7. **DO NOT** use a single eyebolt to lift a load that can rotate.

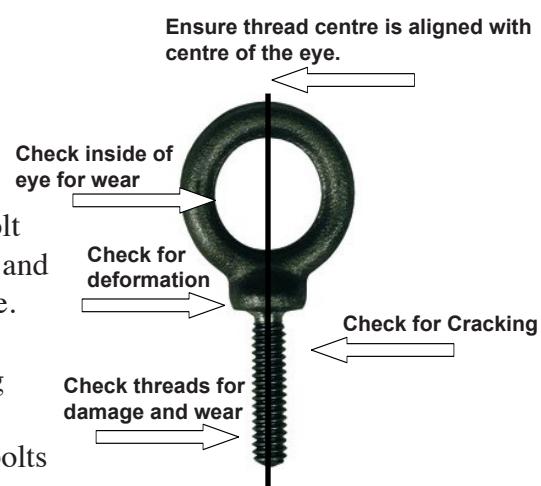
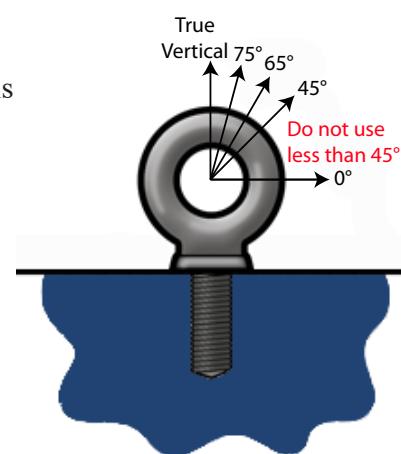
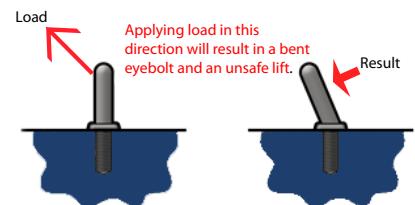
8. **DO NOT** exceed the rated capacity. DO NOT shock load eyebolts, gradually increase lifting with a steady and even lift.

9. Always inspect eyebolts before use.

Inspection Before Use

Clean eyebolt and inspect for any signs of defects or wear. Check eyebolt for signs of deformation, distortion, cracks, loss of material, bent shank and that the centre line of the thread is aligned with the centre line of the eye. Always inspect carefully the thread ensuring that there is no damage or wear to the threaded section. Remove and destroy any eyebolts showing signs of damage or abuse as outlined above.

NEVER machine, cut, grind or weld any eyebolts. **DESTROY** any eyebolts showing signs of alteration.



Procraft Galvanized Shoulder Nut Eyebolts

Shoulder nut eyebolts are carbon steel and hot dipped galvanized, which makes them ideal for marine and outdoor environments. They are available with long shank lengths suitable for inserting through thicker material. The shoulder gives support to the eyebolt and allows for limited angular loading.



Stock Code	Diameter x Thread Length	Working Load Limit Pounds @ 90 Degrees	Eye Diameter	Weight per Piece Pounds
28BSH-01	1/4 X 2	650	0.50	0.06
28BSH-02	1/4 X 4	650	0.50	0.09
28BSH-03	5/16 X 2 1/4	1,200	0.62	0.11
28BSH-04	5/16 X 4 1/4	1,200	0.62	0.15
28BSH-05	3/8 X 2 1/2	1,550	0.75	0.19
28BSH-06	3/8 X 4 1/2	1,550	0.75	0.25
28BSH-06X	3/8 x 6	1,550	0.75	0.31
28BSH-07	1/2 X 3 1/4	2,600	1.00	0.41
28BSH-08	1/2 X 6	2,600	1.00	0.59
28BSH-08X	1/2 x 8	2,600	1.00	0.63
28BSH-09	5/8 X 4	5,200	1.25	0.83
28BSH-10	5/8 X 6	5,200	1.25	1.00
28BSH-10X	5/8 x 8	5,200	1.25	1.17
28BSH-11	3/4 X 4 1/2	7,200	1.50	1.50
28BSH-12	3/4 X 6	7,200	1.50	1.68
28BSH-12X	3/4 x 8	7,200	1.50	1.92
28BSH-14	1 x 6	13,300	2.00	3.67
28BSH-15	1 x 9	13,300	2.00	4.22
28BSH-15X	1 x 12	13,300	2.00	4.77
28BSH-16	1 1/4 x 8	21,000	2.50	6.50



To avoid injury or property damage ensure that instructions are followed carefully and eyebolts are always inspected before each use. If unsure on instructions please check with Bluejay for further details.

Procraft Carbon Steel Machinery eyebolts

Machinery eyebolts are suitable for equipment lifts. It has a short thread perfect for installing in electric motors, gearboxes, and other types of equipment with pre-sunk holes. The shoulder gives support to the eyebolt and allows for limited angular loading.



Stock Code	Diameter x Thread Length	Working Load Limit Pounds @ 90 Degrees	Eye Diameter	Weight per Piece Pounds
28BTH-08	1/4 X 1	500	0.88	0.04
28BTH-10	5/16 X 1 1/8	900	1.12	0.06
28BTH-12	3/8 X 1 1/4	1,300	1.38	0.13
28BTH-16	1/2 X 1 1/2	2,400	1.75	0.25
28BTH-20	5/8 X 1 3/4	4,000	2.25	0.50
28BTH-24	3/4 X 2	5,000	2.75	0.88
28BTH-28	7/8 X 2 1/4	7,000	3.25	1.50
28BTH-32	1 X 2 1/2	9,000	3.75	2.18

Procraft Carbon Steel Galvanized Eye Nuts

Eye Nuts are hot dipped galvanized and are suitable for installing onto threaded, load rated rod. When using in lifting applications it is critical that you ensure the threaded rod to be used in conjunction with the Eye Nut has an equal or greater working load limit than the Eye Nut.



Stock Code	Number & Thread Diameter	Working Load Limit Pounds @ 90 Degrees	Inside Width	Weight per Piece Pounds
28NUT-08	# 1 - 1/4"	520	0.75	0.09
28NUT-10	# 1A - 5/16"	700	0.75	0.09
28NUT-12	# 2 - 3/8"	1,250	1.00	0.18
28NUT-16	# 3A - 1/2"	2,250	1.25	0.29
28NUT-20	# 4 - 5/8"	3,600	1.50	0.58
28NUT-24	# 5 - 3/4"	5,200	1.75	1.00
28NUT-28	# 6 - 7/8"	7,200	2.00	1.70
28NUT-32	# 7 - 1"	10,000	2.15	2.75
28NUT-40	# 8 - 1 1/4"	15,200	2.50	3.85



Procraft Carbon Steel Self Colour Pad Eyes

Pad Eyes are suitable for installing onto trucks, farm machinery and marine vessels. They are easily installed by welding to steel surfaces. Ensure you follow Canadian Welding instructions and standards.



Stock Code	Size Number	Eye Diameter	Weight per Piece Pounds
28PAD-1	# 1	0.37	0.07
28PAD-15	# 1 1/2	0.63	0.11
28PAD-2	# 2	0.75	0.22
28PAD-4	# 4	1.00	0.53
28PAD-5	# 5	1.25	0.82

Procraft Carbon Steel Screw Eyebolts (Lag Eyebolts)

Screw eyebolts are hot dipped galvanized and are ideal for screwing into timbers. **DO NOT** use this type of eyebolt for any critical load bearing or lifting applications.



Stock Code	Diameter x Thread Length	Eye Diameter	Weight per Piece Pounds
28BSC-12	3/8 X 2 1/2	1.38	0.19
28BSC-16	1/2 X 3 1/4	1.75	0.38
28BSC-20	5/8 X 4	2.25	0.69

Procraft Galvanized Malleable Timber Washers

Timber washers are used in dock and wood construction. The large surface area is designed to prevent the bolt heads and nuts from pulling into the timber.



Stock Code	Bolt Diameter	Weight per Piece Pounds
44ZW-TMBR12	3/8	0.18
44ZW-TMBR16	1/2	0.22
44ZW-TMBR20	5/8	0.32
44ZW-TMBR24	3/4	0.42
44ZW-TMBR28	7/8	0.55
44ZW-TMBR32	1	0.69



Ensure Pad Eyes are welded and installed correctly according to Canadian & American Welding Standards. Pad Eyes should NEVER be used for any critical overhead lifting applications. DO NOT insert screw eyebolts into any rotting, decaying or damaged timber.