

The background of the page is a light gray, semi-transparent collage of various types of bolts and nuts. At the top, there are two long bolts with hexagonal heads. In the center, a large nut is visible. Below the nut, there are two more bolts with hexagonal heads. At the bottom, there are two more bolts, one with a hexagonal head and one with a different head shape. The text is overlaid on this background.

THE **OLANDER** COMPANY INC

Fastener Pictorial Guide:

Bolts

THE OLANDER COMPANY INC

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Hex Bolt

Hex head cap screw, commonly called a hex bolt, are screws with a hexagonal or six-sided head.



Flange Bolt

A flange bolt differs from the common bolt in that it has a wider surface area under the head to provide for an even distribution of clamping pressure. This wider surface acts like a washer, eliminating the need to combine one with this kind of bolt.



12 Point Bolt

12 point bolts are bolts with a 12 point flange and a smaller diameter head than a hex head with a similar bearing surface as a socket head cap screw of the same size.

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Carriage Bolt

It is distinguished from other bolts by its shallow dome head. The shank of the bolt is circular for most of its length, but the portion immediately beneath the head is formed into a square section. This makes the bolt self-locking when placed through a square hole, or a round hole in most applications. This allows the fastener to be installed with only a wrench, working from one side. The squared section is of the same size as the diameter of the bolt shank, with a plain unthreaded shank.



Eye Bolt

An eye bolt is a bolt with a loop at one end. It is used to firmly attach a securing eye to a structure, so that ropes or cables may then be tied to it. Eye bolts that are made by bending a rod or wire into a loop are only suitable for light duty applications, as heavy loads can cause the eye to open. For high load applications, eye bolts with forged or welded loops should be used as they can withstand loads up to the tensile strength of the material of which they are made.



Lag Bolt

A lag bolt, or lag screw, is a type of fastener used for wood applications. These bolts are often used to fasten large beams and posts used for decking, wooden bridges, and other wooden structures. They can also be used in concrete, but require a special insert called a lag shield.

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