



THE **OLANDER** COMPANY INC

Fastener Pictorial Guide:

Nuts

THE OLANDER COMPANY INC

ELECTRONIC-COMMERCIAL-SPECIALTY FASTENERS

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Hex Nut

A hex nut is a type of fastener with a threaded hole. Hex nuts are almost always used opposite a mating bolt to fasten a stack of parts together. They are available in various thread sizes in both inch and metric.



Jam Nut

A jam nut is a low profile type of hex nut, typically half as tall as a standard nut. It is commonly used as a type of lock nut, where it is "jammed" up against a standard nut to lock the two in place. It is also used in situations where a standard nut would not fit. Available in various thread sizes in both inch and metric.



Kep Nut

A Keps nut (also called a K-lock nut, washer nut, or kep nut) is a nut with an attached, free-spinning washer. It is used to make assembly more convenient. Common washer types are star-type lock washers, conical, and flat washers. Available in various sizes in both inch and metric.

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Acorn Nut

The acorn nut is a type of fastener which gets its name from its shape. Acorn nut is its common name but it is also called a crown hex nut, blind nut, cap nut or domed cap nut. It is a nut that has a domed top to cover and prevent contact with the external threads of the mating fastener in order to protect the threads or to protect anything the threads could rub against. In addition, the dome provides a more finished appearance. Available in various thread sizes in low and high crown



Nylon Insert Lock Nut

A nylon insert lock nut is a type of lock nut (also known as a polymer insert lock nut or elastic stop nut) that includes a nylon collar insert. The plastic insert is placed at the end of the nut and its inner diameter is slightly smaller than the major diameter of the screw. The insert deforms elastically over the threads of the screw, but threads are not cut into the nylon. The nylon insert locks the nut in two ways: it forces the bottom face of the screw threads against the top face of the nut threads, increasing the friction between the two; the nylon applies a compressive force against the diameter of the screw itself.

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Flange Nut

A flange nut is a nut that has a wide flange at one end that acts as an integrated, non-spinning washer. This serves to distribute the pressure of the nut over the part being secured, reducing the chance of damage to the part and making it less likely to loosen as a result of an uneven fastening surface. The flange may be serrated to provide a locking action. The serrations are angled such that they keep the nut from rotating in the direction that would loosen the nut. The serrations also help in preventing the vibration of the nut from moving the fastener, thus maintaining the holding power of the nut. However, because of the serrations, they cannot be used with a washer or used on surfaces that must not be scratched.



Coupling Nuts

A coupling nut, also known as an extension nut, is a threaded fastener for coupling or joining two male threads, most commonly threaded rod. Variations include: reducing coupling nuts, for joining two different size threads; sight hole coupling nuts, which have a sight hole for observing the amount of engagement; and coupling nuts with left-handed threads. These are used to make up long rod assemblies from shorter lengths of rods.

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Allen Nut

An internal wrenching nut, also known as an Allen Nut, is a cylindrical nut that is internally threaded on one side and an Allen socket drive on the other side; the outside of the nut is smooth or has knurling on it. They are used in applications where a hex or square nuts would not fit.



Knurled Thumb Nut

A knurled nut, or thumb nut, is a nut with a knurled outside surface. This facilitates tightening by hand.



Square Nut

Square nuts have a greater surface in contact with the part being fastened, and therefore provide greater resistance to loosening (though also greater resistance to tightening). They are also much less likely to become rounded-off after repeated loosening/tightening cycles. Square nuts are typically mated with square-headed bolts.

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Wing Nut

A wing nut (or wingnut) is a type of nut with two large metal "wings", one on each side; so it can be easily tightened and loosened by hand without tools.

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