

BELOW-THE-HOOK LIFTING DEVICES

AT A GLANCE

COIL HOOK

A lifting device that enables the lifting of a coil through its inner diameter, in a vertical or horizontal orientation. A motorized hook rotator attaches to the bottom block of a hoist and powers the rotation of the hook for additional load control.



DIE TURNER

This lifting device is used to rotate or turn large dies safely instead of “flipping” them over with a crane and rigging equipment.



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MECHANICAL LIFTER

This type of lifting device is composed of two or more rigid parts which move in tandem for attaching a load to a hoisting device.



GRIPPING LIFTER

This lifting device uses either friction or indentation-causing pressure to hold a load. Tong grabs or clamps utilize a scissor-type action to grip a load. Coil grabs grasp the outer diameter of a coil via tongs or gripping mechanisms to lift or turn it.



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SHEET LIFTER

This type of lifting device uses two claws to grab a load of sheet metal or wood by wrapping around the edges. A lip on the lower portion of the claws prevents the sheet from falling out of the lifter.



PALLET LIFTER

This type of lifting device uses forks to lift pallets from underneath.



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LIFTING / SPREADER BEAMS

Beams are load supporting lifters typically made from structural shapes or fabricated metal and are suspended from a hoist / crane to provide one or multiple load lifting points for better security and control of the load's movement.

Lifting Beam

A lifting beam has a simple design consisting of a beam with a single attachment point centered on the top side of the beam for connecting to a crane, hoist, or other lifting machine. Some lifting beams may have two bails in order to engage two crane or hoist hooks. There are typically two or more evenly-spaced lifting lugs on the underside of the beam that attach to and support the load via hook or sling.

Spreader Beam

A spreader beam is a simple device consisting of a long bar that holds two slings apart. It's designed to convert lifting loads into pure compressive forces and also spread apart the legs of a sling. Two lifting lugs on the top of the beam attach to the legs of a chain sling or synthetic sling. This evenly distributes the weight of the load across the two slings, which then connect to a crane, hoist, or other lifting machine. Two lugs on the bottom (one at each end) connect to a sling or hook which are then connected to the load.



Multi-point Lifting Beam



Spreader Beams



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VACUUM LIFTER

This type of lifting device utilizes an electric-powered extraction pump and sealed pads to create a vacuum to attach the lifter to an object.



MAGNET LIFTER

This type of lifting device is used to carry or release flat or round ferrous objects with or without an electrical power supply.



DRUM TURNER

This type of lifting device is used to turn over drums for filling and emptying.



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