AVON ENGINEERING
AN Xtek COMPANY

BELOW-THE-HOOK EQUIPMENT

SPREADER BEAMS

Spreader beams lift loads with single or multiple attachment points. They handle a variety of loads such as long bundles, rolls, cylinders, and machinery.

Avon Engineering designs spreader beams for safety, durability and simple operation. We have significant experience designing and building lifting and spreader beams for use in primary steel mills, steel service centers, pulp and paper mills, power plants and in difficult environments with varied crane layouts.

All Avon Engineering spreader beams are designed and

manufactured in accordance with the latest revision of ASME Spec. B30.20 and

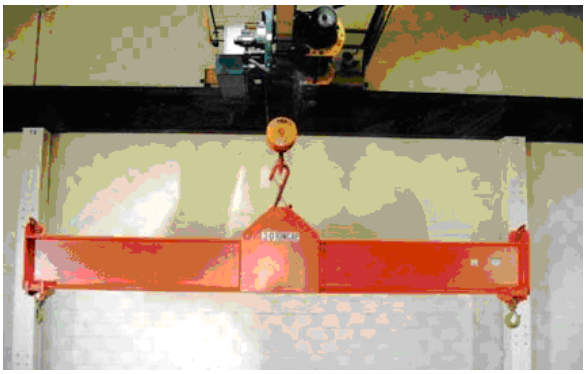
BTH-1: Design of Below-the-Hook Lifting Devices.

Five basic spreader beam models are available in many different design configurations.

This 150 metric ton capacity spreader beam uses nylon straps positioned at multiple locations. It is designed for use with a single crane with a two-pronged hook or with two cranes, one attached to each end of the beam. The beam has load level indicators on both ends and both sides.

- Model 413 — A spreader beam with formed hooks for use with slings.
- Model 415 — A spreader beam with plate hooks to engage a shaft or mandrel, used primarily for handling paper rolls.
- Model 420 — The positions of the hooks on this spreader beam are adjustable to accommodate different load lengths.
- Model 439 — A basic spreader beam with safety swivel hooks for use with slings or chains.
- Model 490 — A chlorine cylinder lifting beam. Units are in stock for immediate shipment.

MODEL 439 SPREADER BEAM

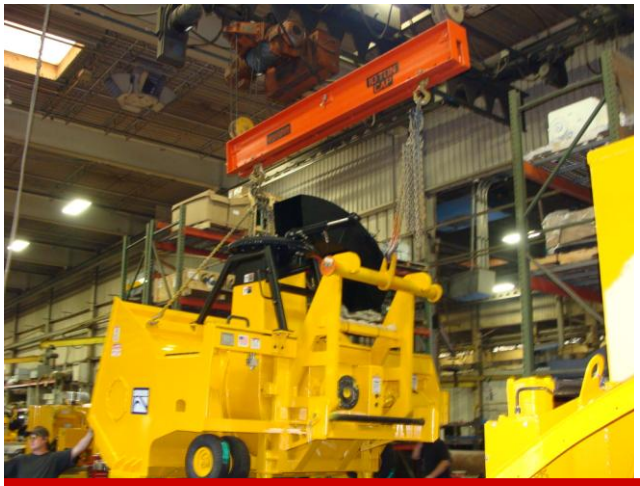


Avon Engineering's most popular and basic spreader beam, the Model 439 has fixed position swivel hooks mounted at the ends of the lifting beam. This lifting beam has a single pick-up point and safety latches on each hook. Available options include:

- Low headroom designs.
- Multiple hook locations.
- Special capacities and lengths.
- Twin lifting bails with a single lifting hook.

MODEL 420

This beam permits adjustment of the load lifting hooks to multiple locations. This is easily accomplished by lifting the hook support assembly and sliding it to the next location point.



MODEL 415

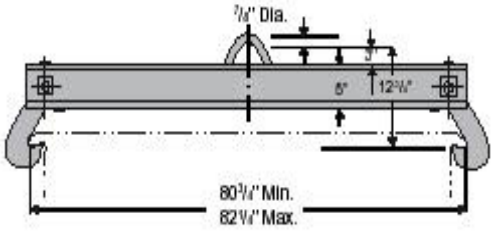
This Avon Engineering model features fixed or pivoting plate style “J”-hooks. Used primarily for handling paper, film or cloth rolls, the hooks are designed to engage the shaft or mandrel that extends from the roll.

MODEL 413

This beam is designed primarily to be used with slings. The beam is equipped with formed round stock “J”-hooks at fixed locations. The formed hooks minimize the potential for damage to the sling assemblies. Multiple sling location points are the most common option selected by users of this beam.

MODEL 490 CHLORINE CYLINDER GRABS

Designed for fast, efficient handling of standard chlorine cylinders (80 ¾” to 82 ¼” long per Chlorine Institute). The maximum capacity is two tons (4,000 pounds).



SPECIALTY BEAMS

ROTATING SPREADER BEAMS

These specialty beams have fully powered rotation with controls that can be integrated into your crane system. Features include:

- 1 RPM rotation speed.
- Sensors and limit switches for fully automatic operation.
- Manual or electric powered rotation.
- Two-point crane suspension.
- Limited or 360-degree continuous rotation.
- Capacity to 200,000 pounds.
- Fixed or pivoting J-hooks.

25-ton capacity spreader beam with powered rotation and lifting forks with adjustable spacing for handling hot beam

Rotating spreader beam in use at a paper mill.

This rotating beam has adjustable J-hooks and an integral weigh scale system.

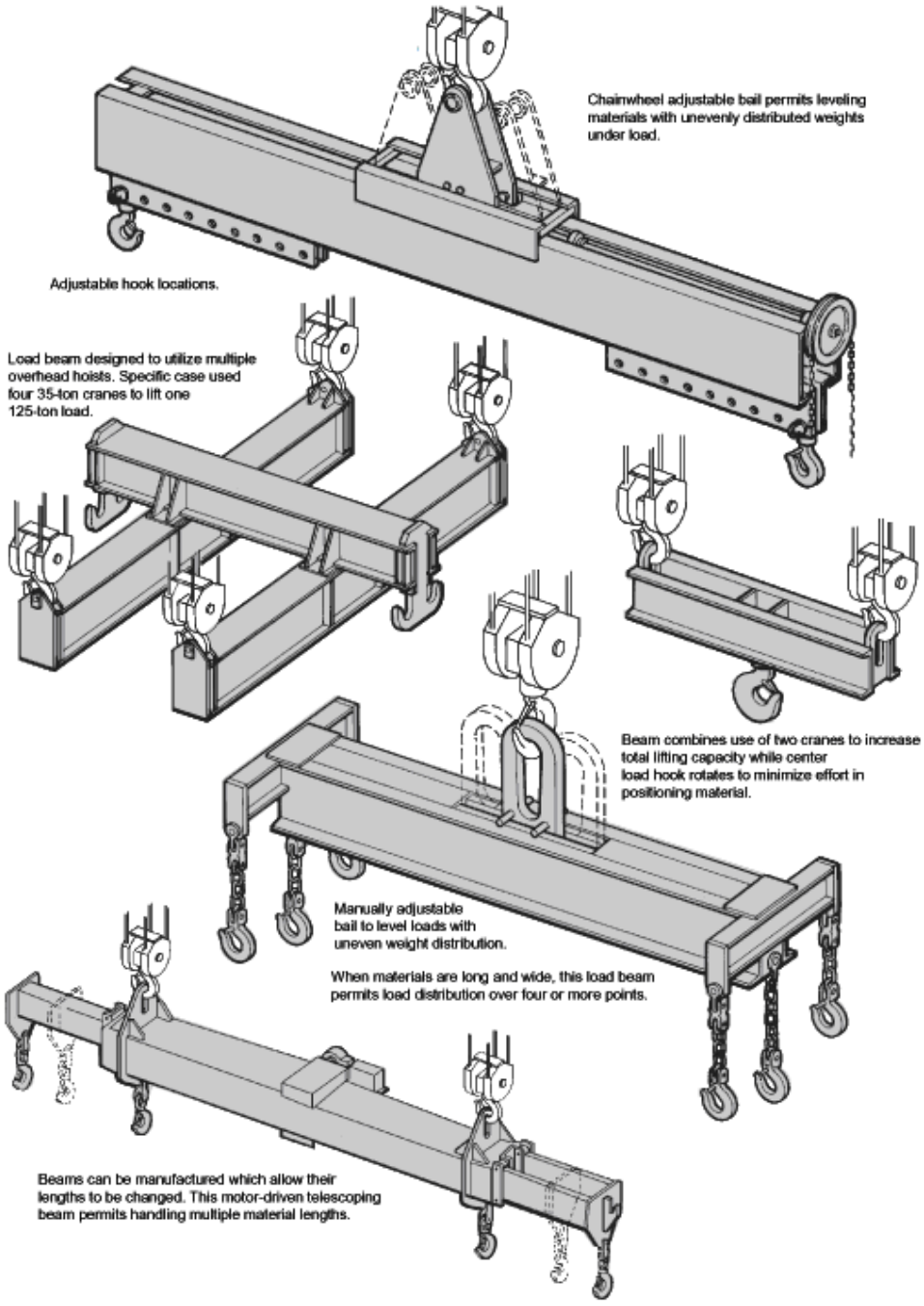
FIXED LENGTH AND TELESCOPIC MAGNET BEAMS

Motorized telescopic magnet beams can have the controls you need:

- Individual magnet rotation if required.
- Below the magnet capacity available to 100,000 pounds.
- Up to 100” telescopic extension at each end.
- Low-headroom style beams are available.

Magnet beam

This 20-ton magnet beam attached to a mobile gantry crane has six magnets.


Chainwheel adjustable bail permits leveling materials with unevenly distributed weights under load.
Adjustable hook locations.
Load beam designed to utilize multiple overhead hoists. Specific case used four 35-ton cranes to lift one 125-ton load.
Beam combines use of two cranes to increase total lifting capacity while center load hook rotates to minimize effort in positioning material.
Manually adjustable bail to level loads with uneven weight distribution.
When materials are long and wide, this load beam permits load distribution over four or more points.
Beams can be manufactured which allow their lengths to be changed. This motor-driven telescoping beam permits handling multiple material lengths.