



Uponder

Avon Engineering manufactures a complete line of upenders or “tippers”. They are floor-mounted material positioning machines engineered to meet a variety of dimensional, capacity, and application requirements. Upenders are used in production and maintenance applications, and can be furnished with numerous options to suit your needs.

There are two types of upenders, mechanical and hydraulic. Since both are designed to accomplish the same function, the weight and shape of the load will dictate which type is used.

Mechanical Uponder

Avon Engineering mechanical upenders provide an easy and efficient way to upend metal coils, molds, dies and other heavy and bulky loads. Mechanical upenders, sometimes called coil positioners, rotate steel coils and other loads through 90 degrees in either direction. They are used in a variety of production and maintenance applications.

Mechanical upenders have a round cradle frame that is placed on four machined rollers. A gear motor driving a single or dual chain sprocket provides the ability to rotate.

Mechanical upenders are available in standard configurations or may be custom engineered for your particular application.

Hydraulic Uponder

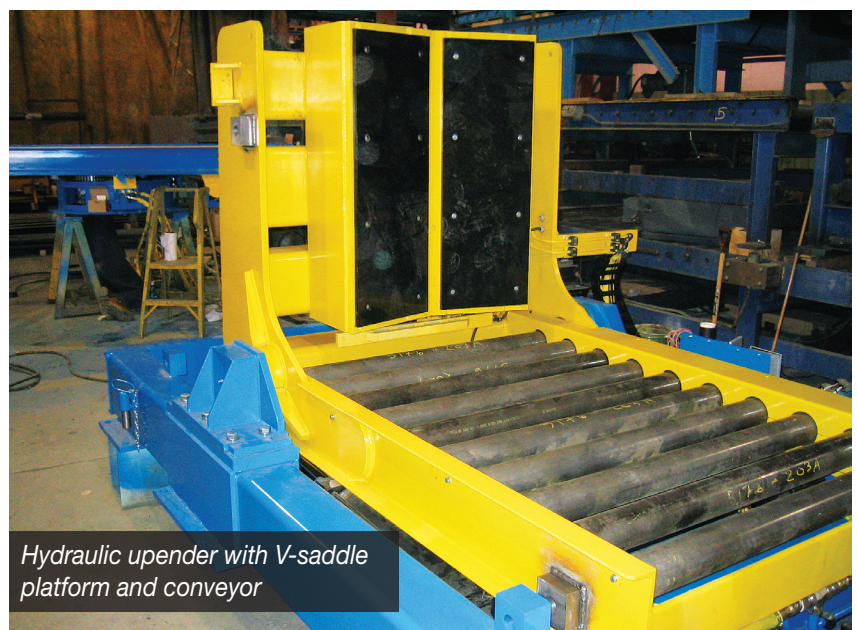
Avon Engineering designs hydraulic upenders with fully integrated, heavy-duty hydraulics for precise positioning. Our hydraulic upenders can handle heavy jobs smoothly and efficiently. They employ one or more double-acting cylinders to rotate the platforms. One platform may be significantly smaller than the other, making these upenders ideal for loads that are not symmetrical, such as long, cylindrical shapes.

The load platform of a hydraulic upender can accommodate a variety of equipment for secondary handling functions including:

- Roll discharge tilt platforms
- Shifting saddles
- Pallet-centering systems
- Load and unload conveyors



109 ton capacity mechanical upender



Hydraulic upender with V-saddle platform and conveyor

800.844.8117

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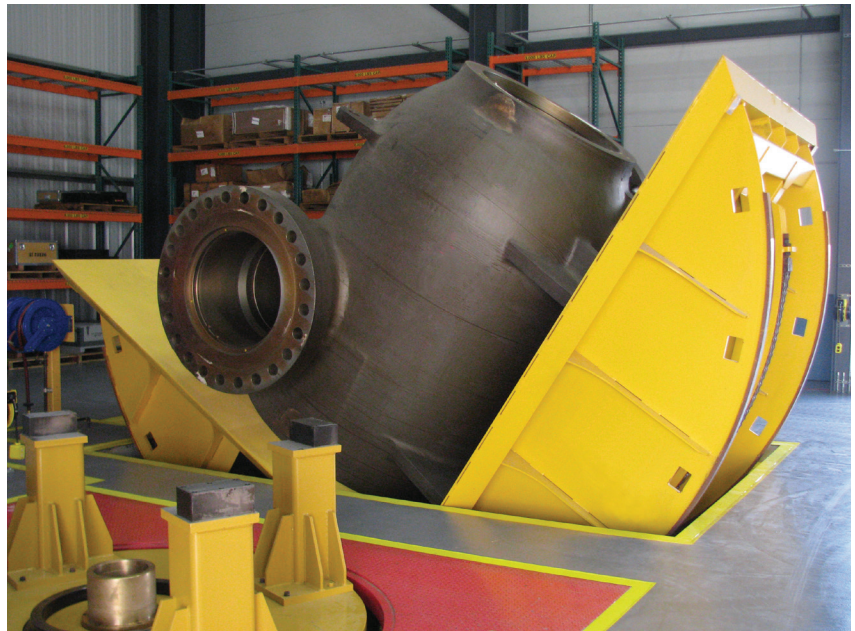
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Avon Engineering Upender

Standard Design Features:

- Frame is made of heavy, welded steel construction. Four or more precision machined steel rollers with sealed bearings support load.
- Brake motor and gear reducer drive a sprocket and roller chain giving a smooth rotating cycle.
- Wired to operate on your available power supply.
- Complete electric controls, disconnect switch, and push button station mounted on unit.
- Limit switches automatically control rotation.
- Standard designs range from 3,000 to 100,000 pounds capacity
- Custom designs have capacities up to 120 tons (109,090 kg).
- Flat platforms or V-saddles can be included to support coils or cylindrical loads in a horizontal orientation.
- Special platform sizes and shapes are available.
- Pallet centering is available.
- Gravity and powered conveyors allow integration with the production line.



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