

## INVERTERS

Inverters rotate loads through 180 degrees while protecting the integrity of the product. They have a wide variety of applications with products as diverse as molds and dies, stacks of steel blanks, compressor housings and sheets of Corian.

### Available inverter options include:

- Long reach hydraulic scissors for clamping a wide range of load heights.
- Multi-direction clamping to speed up duty cycles.
- Programmable logic controllers that automatically sequence loading and unloading to improve productivity and safety.
- Selectable pressure settings for a wide range of load sizes.
- Gravity or powered conveyor platforms to integrate into a process line.



### BARREL INVERTERS

Barrel inverters, named for their circular shape, are suited to production line, high volume operations and for inverting high capacity loads.



Bushman AvonTec's 5,000-pound capacity barrel inverter features open sides for flow-through sheet inversion. Using a forklift, operators can feed sheets up to 88 by 250 inches into the barrel inverter and remove after inverting.



This 15,000-pound capacity barrel inverter, designed for an aluminum blanking facility, includes hydraulic clamping. Adjustable clamping pressure for various loads is an important product protection feature.

## BARREL INVERTERS (Continued)



A variety of operations can be performed with this barrel inverter. Features include powered rollers for conveyor-fed process lines and networking with production control systems.



This barrel-style load inverter was designed to invert stacks of aluminum sheets for the automotive industry. The aluminum sheets are inserted and removed from the same side. A clamping force of 5 to 1 prevents the stacks from shifting.



This custom-engineered 180 degree barrel-frame-inverter has a capacity of 8,000 pounds. It was designed to rotate steel blanks up to 63 inches square by 19 inches high. The welded steel inversion cradle is mounted on four machined steel bogey wheels with lubricated roller bearings.



This 5,000 pound barrel inverter has powered roller conveyors to move loads into and out of the inverter. The 60 by 112 inch platform accommodates many of our associates as they pose with the finished inverter.

## C-FRAME INVERTERS

C-frame inverters, named for their shape, are suited to inverting long or wide loads that can extend outside the cradle frame.



This C-frame inverter with a hydraulic clamp features horizontal rotation for returning loads to the point where they were loaded. Base rotation eliminates extra forklift movements.



Hydraulic clamping allows materials to be inverted quickly and securely with this C-frame inverter. After rotation, the inverted material can move in multiple directions on ball transfer rollers.



This custom engineered inverter can tip and carefully discharge castings onto a conveyor that runs below it. The capacity of this inverter is 4,500 pounds.



This Bushman C-frame inverter was designed for high capacity, high cycle operations. An industrial gear motor drives rotation on machined wheels that roll on permanently lubricated bearings. C-frame inverters are PLC-controlled so they can easily be integrated into automated process lines.

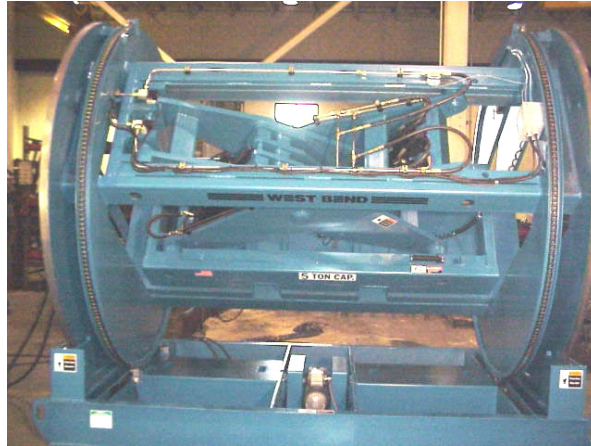
## MORE CUSTOM ENGINEERED INVERTERS



This barrel load inverter has fork pockets built into the platforms. Capacity is 10,000 pounds.

It was designed for dies up to 60 inches in diameter and 25 inches thick, with smooth top and bottom surfaces.

This custom-engineered inverter was built with heavy duty, rugged fabricated steel construction on a base plate with two circular rings supporting the platform and clamp mechanisms. The rings rotate on machined steel bogey wheels.



This barrel inverter was designed to handle steel blanks that are unbanded and oiled. The capacity is 10,000 pounds. The load/unload platforms are 94 inches wide by 36 inches deep.



The capacity of this large barrel-type load inverter is 15,400 pounds. The dimensions of the load/unload platforms are 79 inches wide by 180 inches deep.

### USA

Bushman Equipment Inc.  
P.O. Box 309  
Butler, WI 53007-0309

W133 N4960 Campbell Drive  
Menomonee Falls, WI 53051

Phone: (800) 338-7810  
(262) 790-4200  
Fax: (262) 790-4202

### CANADA

Avon Engineering

1680 Brampton Street  
Hamilton, ON L8H 3S1

Phone: (800) 844-8117  
(905) 689-7994  
Fax: (905) 689-8472