

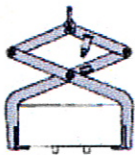
LIFTING TONGS

Bushman AvonTec designs and manufactures a complete line of tongs for lifting and moving a wide range of industrial loads. We design each tong for the size, shape and weight and special conditions in your particular application.

Bushman AvonTec lifters are designed and manufactured according to the latest revisions of ASME Specifications B30.20 and BTH-1, Design of Below-the-Hook Lifting Devices. Each tong is equipped with our automatic latching device that provides safe and reliable operation of the clamping mechanism.

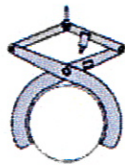


BASIC TONG CONFIGURATIONS



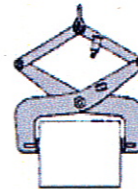
Supporting Tong

For single-size objects that have support clearance underneath, such as boxes, crates, bins and containers. The lifting feet of the tong support the load and maintain it on a horizontal lifting plane.



Gripping Tong

For materials such as ingots, rolls, tubes, pipes and other round or cylindrical objects. The tongs extend beyond and below the center of the load to provide additional support. The diameter of the load may vary by approximately 25%, but the variation in length is generally unlimited.



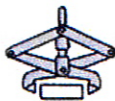
Pressure Tong

For gripping the vertical sides of slabs, bales, boxes, billets and other flat or round objects. Pads on pressure tongs provide surface friction or penetration of the load to maintain a safe hold during handling. Pads can come with rubber, belting, pins, points, serrated bits and other materials.

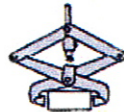
AUTOMATIC LATCHING DEVICE

Each tong is equipped with the Bushman AvonTec automatic latching device that provides safe and reliable operation of the clamping mechanism. To operate the latch:

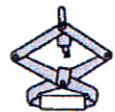
With the lift open, position the tong over the load to be picked up. Unit will be in open position.



Lower the tong onto the load. With the tong resting on the load, and hoist tension released, the latch automatically disengages from the locked open position.



Raise the hoist to allow the tong pads to close onto load. Then lift and move the load to the desired location. To release the load, lower the tong and place the load on the ground to relieve tension. The latch will automatically lock the tong in the open position. Then raise the hoist to remove the tong.

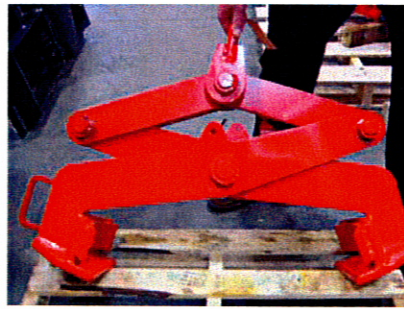


SUPPORTING TONGS

Supporting tongs lift the load from underneath. The lifting feet can be shaped specifically for the load.



Four-ton Model 1003 is a supporting tong.



This supporting tong has a locking pin.



This three-ton supporting tong lifts rolls of steel belting.

GRIPPING TONGS

Gripping tongs extend beyond and below the center of the load to provide additional support.



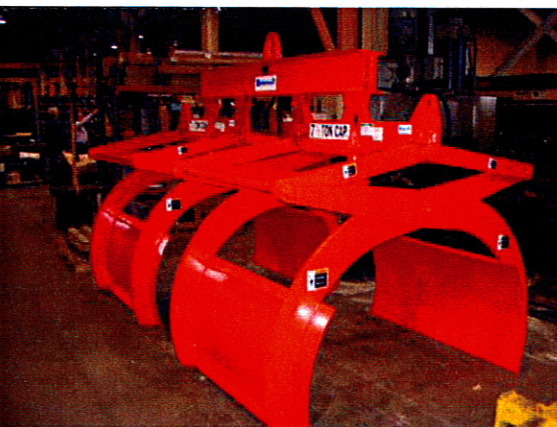
These Model 1529 mill roll tongs lift round steel ingots from 12 to 40 inches in diameter and weighing up to 50,000 pounds



Model 1543 bar and pipe grabs handle individualized lengths of varying diameters.



This roll tong lifts 22.5 to 25 inch diameter mill rolls. The legs have bronze wear pads to protect the roll surface.



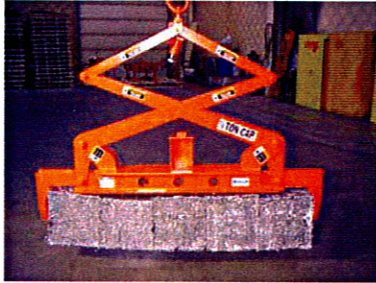
This spreader beam connects to two Model 1529 paper roll tongs.



This 96,000 pound capacity tong lifts twin mill roll sets.

PRESSURE TONGS

Pads on pressure tongs provide surface friction or penetration of the load to maintain a safe hold during handling.



Closed position

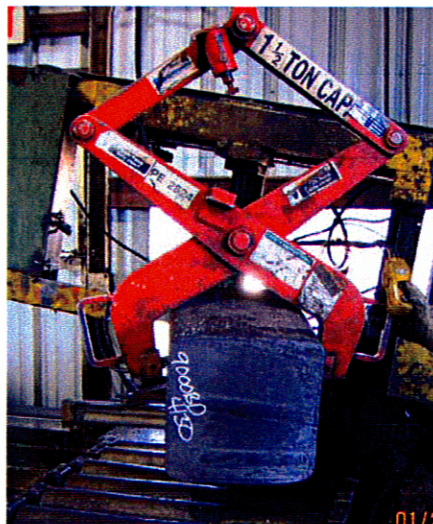


Open position

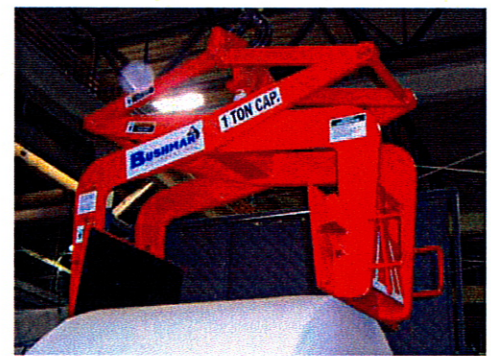
This Bushman AvonTec pressure tong holds aluminum scrap blocks. It will also handle bales, boxes, ingots and other flat or straight-sided objects. Pads provide surface friction or penetration of the load to maintain a safe hold during handling. The pads can come with rubber, belting, pins, or points depending on the coefficient of friction required to hold the load.



In addition to the cylinder of bottled gas shown here, these pressure tongs can handle materials such as ingots, rolls, tubes and other round or cylindrical objects.



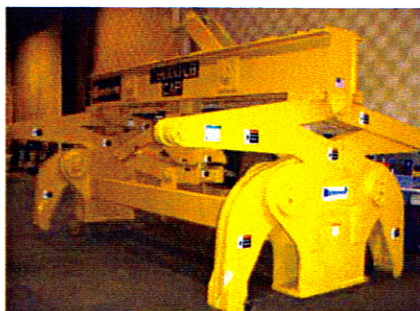
This Model 1003 pressure tong uses hardened steel points to grip steel billets.



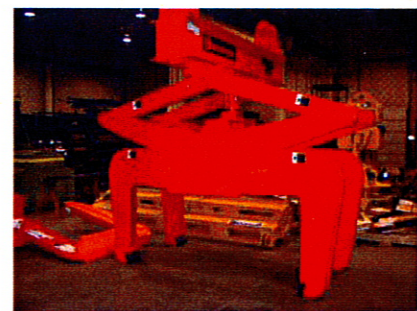
This roll tong, used by a major paper mill, grips across the width of the paper roll.



This 3,000 pound tong uses hardened steel points to grip around the diameter of an ingot to lift it vertically.

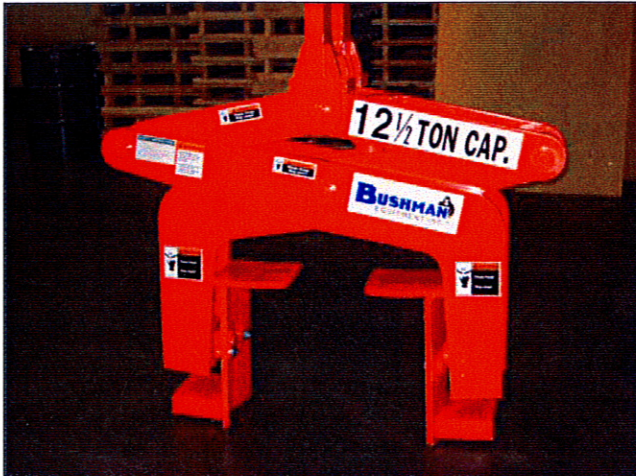


A US stainless steel mill uses this 78,000 pound capacity tong to lift single slabs.

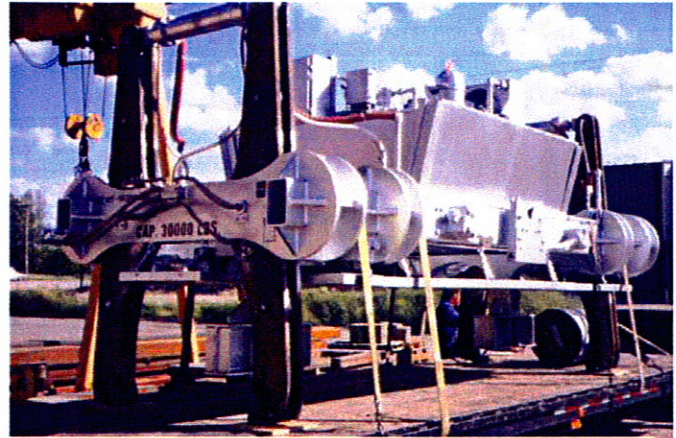


A steel mini mill in Texas uses this tong to lift four slabs at once. The hardened steel tong bits are replaceable.

CUSTOM LIFTING TONGS



Lay down tongs grip round or straight sided ingots or slabs to lift them vertically and lay them down to the horizontal position. They can be operated manually or motorized.



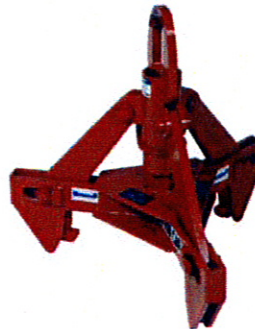
This 30-ton capacity hydraulic gripping slab/bloom tong is lighter than a conventional tong and doesn't require automatic latching or an open/close hoist.



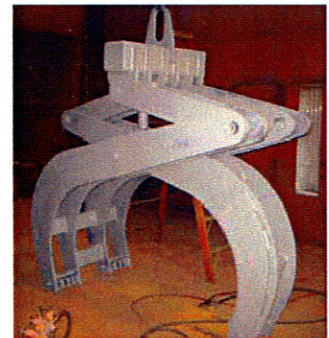
This tong can attach to the forks of a fork truck.



This custom tong lifts long billets vertically.



This three-leg tong lifts barrels from under the top lid.



This 10-ton tong grips irregular shaped rocks in a mining crusher

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