Bushman Equipment 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, weight and special conditions in your particular application.

Bushman tongs 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 gripping mechanism.

**AUTOMATIC LATCH**

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

1. **With the pads open**, position the tong over the load to be picked up. Unit will be in open position.
2. 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.
3. Raise the hoist to allow the tong pads to close onto load. 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.

**Ingot laydown tong** picks up from vertical, lays down to horizontal.

**Gripping tong** lifts solar heliostats for placement on pylons.

**Paper clamp** loads a machine that makes paper towels and tissue.

**Double mill roll tong** picks up a two-roll set. Has adjustment for varying diameters.

**Gripping tong** lifts irregularly shaped loads.

**Pressure tong** lifts machined pieces from the I.D.

**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 tong arms 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. The 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.
PRESSURE TONGS

Model 1570 tong has pivoting rubber pads to hold paper rolls of varying widths.

Model 1070 tong has pivoting pads with diamond knurled teeth to lift gears.

Model 1070 tong lifts red-hot steel billets before forging.

GRIPPING PADS & POINTS

Hardened tool steel points 58-60 Rc for raw slabs and billets

Flat rubber pads for paper & boxes

V-shaped pads for round vertical loads

Diamond-knurled tool steel bits can be spread out or packed together

This grating can be easily formed to a curved pad to lift soft materials

Weld beads on formed steel plates work well for lifting graphite electrodes

Machined hardened teeth, either flat or on a radius are effective for lifting finished steel or aluminum where witness marks are less desirable.