

# VERTICAL LIFTING EQUIPMENT

If you use coil annealing furnaces or simply need to store coils in a vertical or “eye to the sky” position Bushman has developed a number of products that enable you to handle vertical coils in a safe, efficient and economical manner. Some of these products include Bushman’s automatic latch assembly that enhances efficiency by requiring only one person for operation.

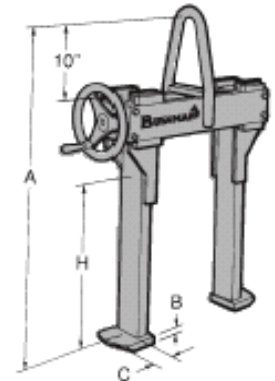
In addition to the standard products described below, Bushman provides custom engineered designs to meet specific dimensional, capacity and special application requirements. All of Bushman’s vertical lifting equipment is designed to provide rugged service while requiring only a minimum of maintenance. All units are designed and manufactured to meet or exceed ASME-ANSI Standards B30.20 and BTH-1.



## MODEL 2020 ID COIL LIFTER

Bushman model 2020 ID coil lifters lift coils by supporting them on lifting pads. The lifter’s legs, operated by an ergonomically designed hand wheel, contract to permit entrance into the core of the coil. The lifter is lowered and one lifting pad is placed under the coil. The operator then turns the hand wheel to extend the legs outward until both lifting pads are under the coil and the legs are pressed against the ID. The coil can now be raised and transported. The legs are held in place with a self-locking adjustment mechanism that prevents accidental disengagement.

Coils must be stored on spacers to permit the lifting pads to extend under the coil for proper engagement. To release the lifter, the legs are retracted until both lifting pads clear the ID of the coil. The lifter can then be raised and moved away from the coil.



| CAPACITY   | ID RANGE   | COIL WIDTH H | A   | B    | C  | WT. (LB.) |
|------------|------------|--------------|-----|------|----|-----------|
| 4,000 lb.  | 16" to 24" | 24"          | 49" | 1/2" | 4" | 265       |
| 6,000 lb.  | 16" to 24" | 24"          | 49" | 5/8" | 4" | 265       |
| 6,000 lb.  | 16" to 24" | 30"          | 55" | 5/8" | 4" | 275       |
| 10,000 lb. | 16" to 24" | 24"          | 49" | 3/4" | 4" | 295       |
| 10,000 lb. | 16" to 24" | 30"          | 55" | 3/4" | 4" | 310       |
| 15,000 lb. | 16" to 24" | 24"          | 49" | 1"   | 4" | 330       |
| 15,000 lb. | 16" to 24" | 30"          | 55" | 1"   | 4" | 345       |
| 20,000 lb. | 16" to 24" | 24"          | 51" | 1"   | 4" | 410       |
| 20,000 lb. | 16" to 24" | 30"          | 57" | 1"   | 4" | 450       |

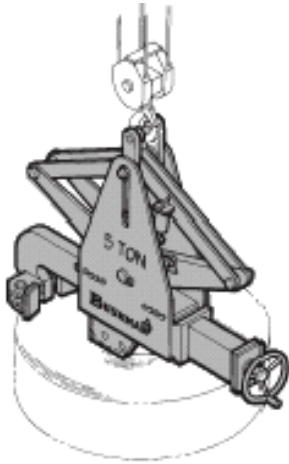


## MODEL M200 MOTORIZED ID



This is a motorized version of the Model 200. It can be used in high volume operations where stacking heights can be high.

## MODEL 6104 LOW HEADROOM



The Bushman Model 6104 coil grab handles coils with various rim sizes in applications with severely limited headroom. In contrast to the 6100 grab that requires significant vertical travel space for operation, the model 6104 engages coils by means of a hand wheel activated adjustment mechanism.

The operator simply turns the hand wheel until both pads contact the coil surface. The linkage assembly generates the actual clamping pressure, and a minimum of vertical movement is required.

Gripping force for Bushman's low headroom grab is greater than three times the total load weight.

## MODEL 6100 VERTICAL RIM COIL



The Model 6100 Single Rim Vertical Coil Tong handles coils by gripping the ID and OD on one side of the coil. Gripping force is more than three times the coil weight.

The Model 6100 grab hangs level when empty and has a Bushman automatic latch for safe and efficient engagement and disengagement. Lifting pads, lined with a variety of materials from soft urethane through hardened, serrated steel pads, securely grip the load.

The Model 6100 Single Rim Vertical Coil Tong has a proven design that is available in capacities up to 50 tons. It can be built to suit your application.

## MODEL 6107 DOUBLE RIM COIL GRAB

The Model 6107 double rim vertical coil tong handles vertical axis coils by gripping the ID and OD on both sides of the coil rim. It offers increased protection for the integrity of the coil since it distributes its clamping force over twice the area as does a single rim vertical coil tong. The outer jaws of Model 6107 double rim vertical coil tong are adjustable to accommodate a wide range of rim thicknesses. Gripping force is greater than three times the total load weight.

The double rim coil tong hangs level whether empty or loaded. It has a Bushman automatic latch to provide safe and efficient engagement and disengagement.

Lifting pads, lined with a variety of materials from soft urethane to hardened, serrated steel pads, securely grip the load.



Double rim coil tong



Tong closed



Tong open

## USE BUSHMAN *ReNEW* TO REFURBISH YOUR OLD LIFTERS

Model M2020 ID Lifter



Before



After - Front



After - Back

Model 6100 Vertical Coil Tong

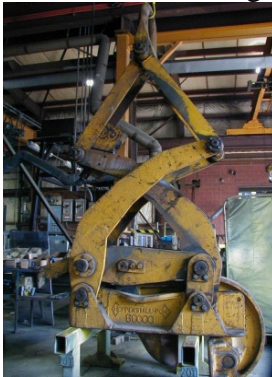


Before



After

Non-Bushman Vertical Coil Tong



After being ReNEWed



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