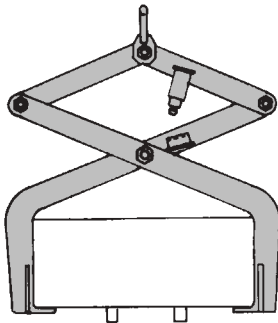
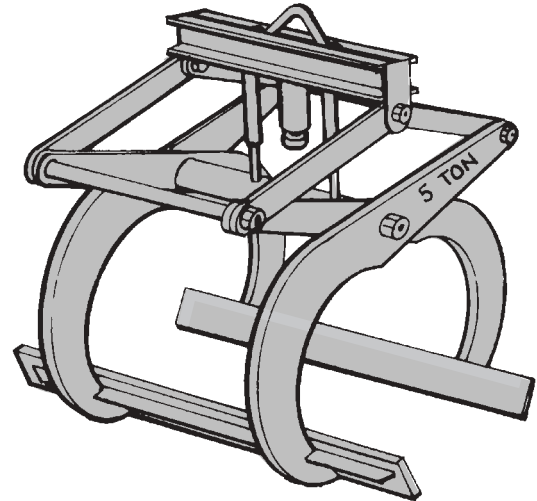


Bushman Equipment designs and manufactures a complete line of lifting tongs. Every tong is designed to a particular size, shape and function.

The three basic tong configurations are described below. Application concepts are detailed in the following pages.

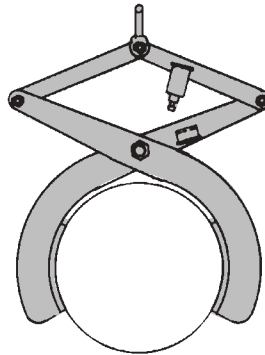
All Bushman tong grabs are designed and manufactured in accordance with ANSI Standard B30.20. Each tong is equipped with our automatic latching device which provides safe and reliable operation of the clamping mechanism.

After reviewing this brochure please consult our sales/engineering staff for additional information.



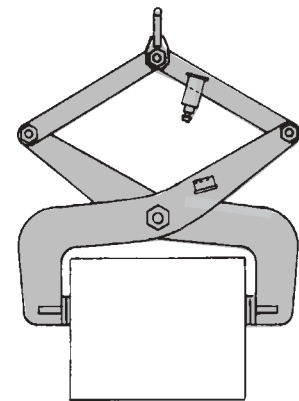
**SUPPORTING TONG**

For constant-sized objects with support clearance underneath, such as boxes, crates, bins and containers. The lifting feet support the load and maintain it on a horizontal lifting plane.



**GRIPPING TONG**

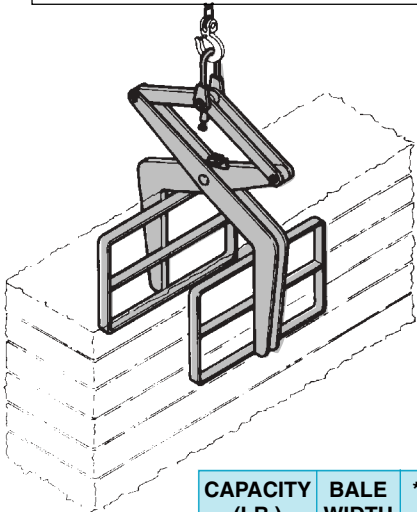
For materials such as coils, rolls, tubes and other round or cylindrical objects. It grips the material around the outside diameter with additional support provided by the tongs extending beyond and below the center of the load. The diameter range may vary by approximately 25% while the variation in length is generally unlimited.



**PRESSURE TONG**

For gripping the vertical sides of 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. Pads are furnished with rubber, belting, pins, points and other materials, depending on the coefficient of friction required for the material being lifted.

## MODEL 1080-F BALE GRAB

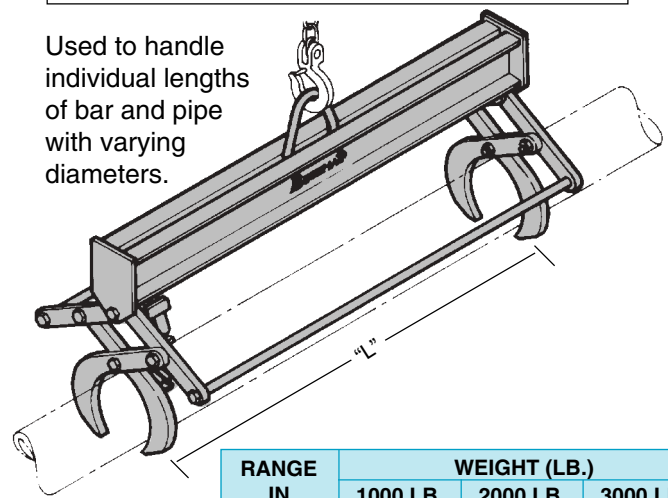


Used to lift bales of paper, metal shavings, cotton or related materials.

CAPACITY (LB.)	BALE WIDTH	*PAD SIZE HT X W	APPROX. WEIGHT (LB.)
1,000	32"	16" X 20"	120
	48"	16" X 20"	170
2,000	32"	16" X 20"	150
	48"	16" X 20"	210

\*Pad sizes can vary based on material configurations. For sizes and capacities not shown, please consult factory.

## MODEL 1543 BAR and PIPE GRAB



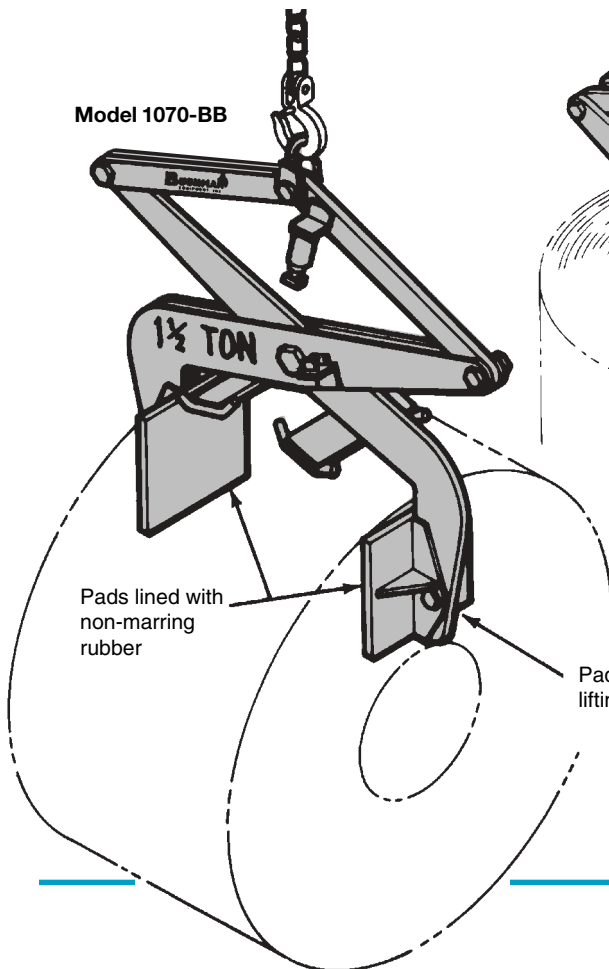
Used to handle individual lengths of bar and pipe with varying diameters.

RANGE IN DIAMETER	WEIGHT (LB.)		
	1000 LB. CAPACITY	2000 LB. CAPACITY	3000 LB. CAPACITY
2" to 6"	70	98	168
3" to 10"	97	140	232
7" to 12"	107	150	256
9" to 15"	110	206	264

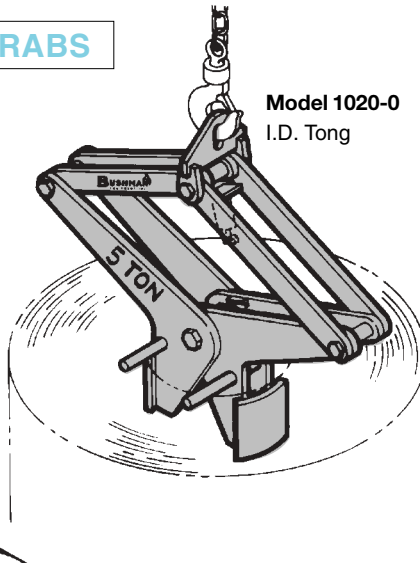
"L" dimension available in standard 36" or 72" width. For sizes and capacities not shown, please consult factory.

## CUSTOM-DESIGNED TONG GRABS

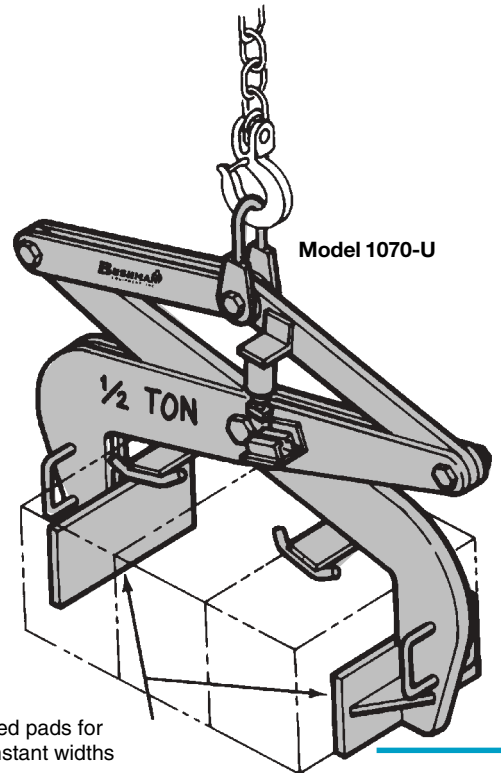
Model 1070-BB



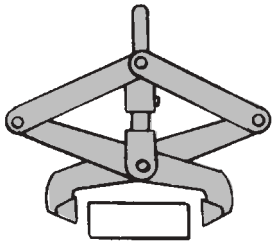
Model 1020-0  
I.D. Tong



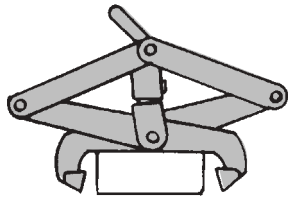
Model 1070-U



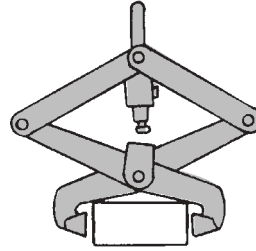
## AUTOMATIC LATCHING DEVICE



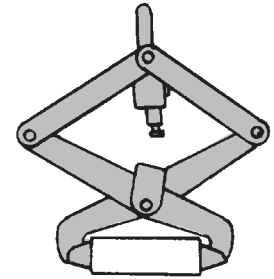
Position grab over material or object to be picked up. Unit will be in open position.



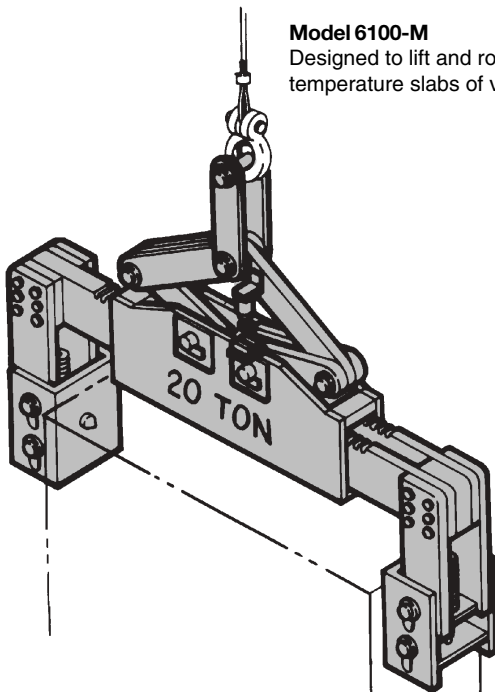
Lower grab onto load. With grab resting on material, and hoist tension released, the latch automatically disengages from locked open position.



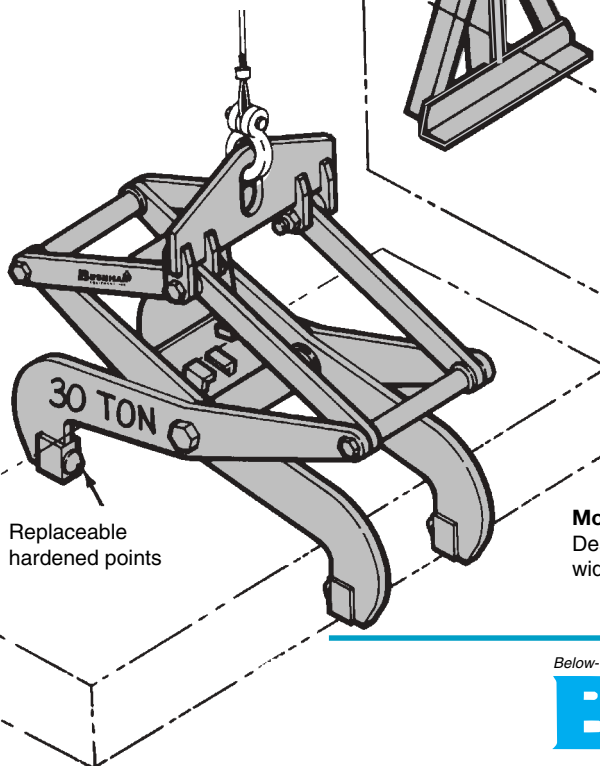
Raise hoist to allow the grab pads to close onto load. Then lift or transport to desired location.



To release load, lower grab and place load on ground to relieve tension. Latch will automatically lock grab in the open position. Hoist can then be raised to remove grab.

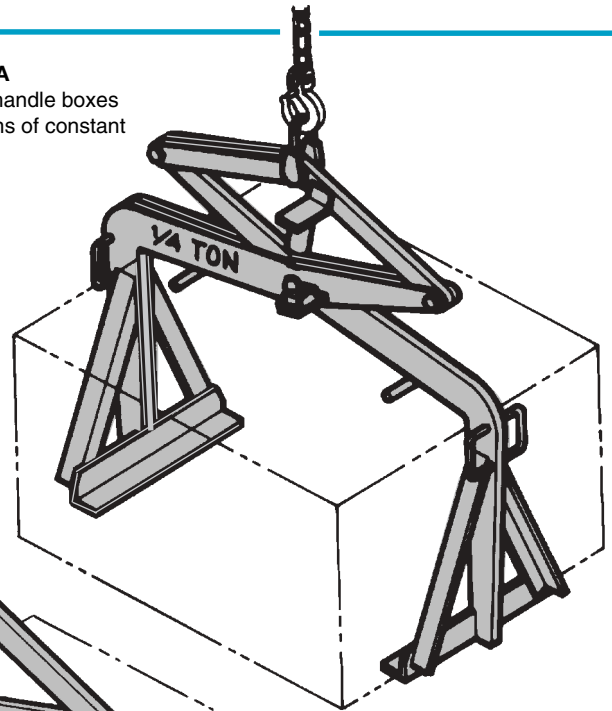


**Model 6100-M**  
Designed to lift and rotate high-temperature slabs of varying widths



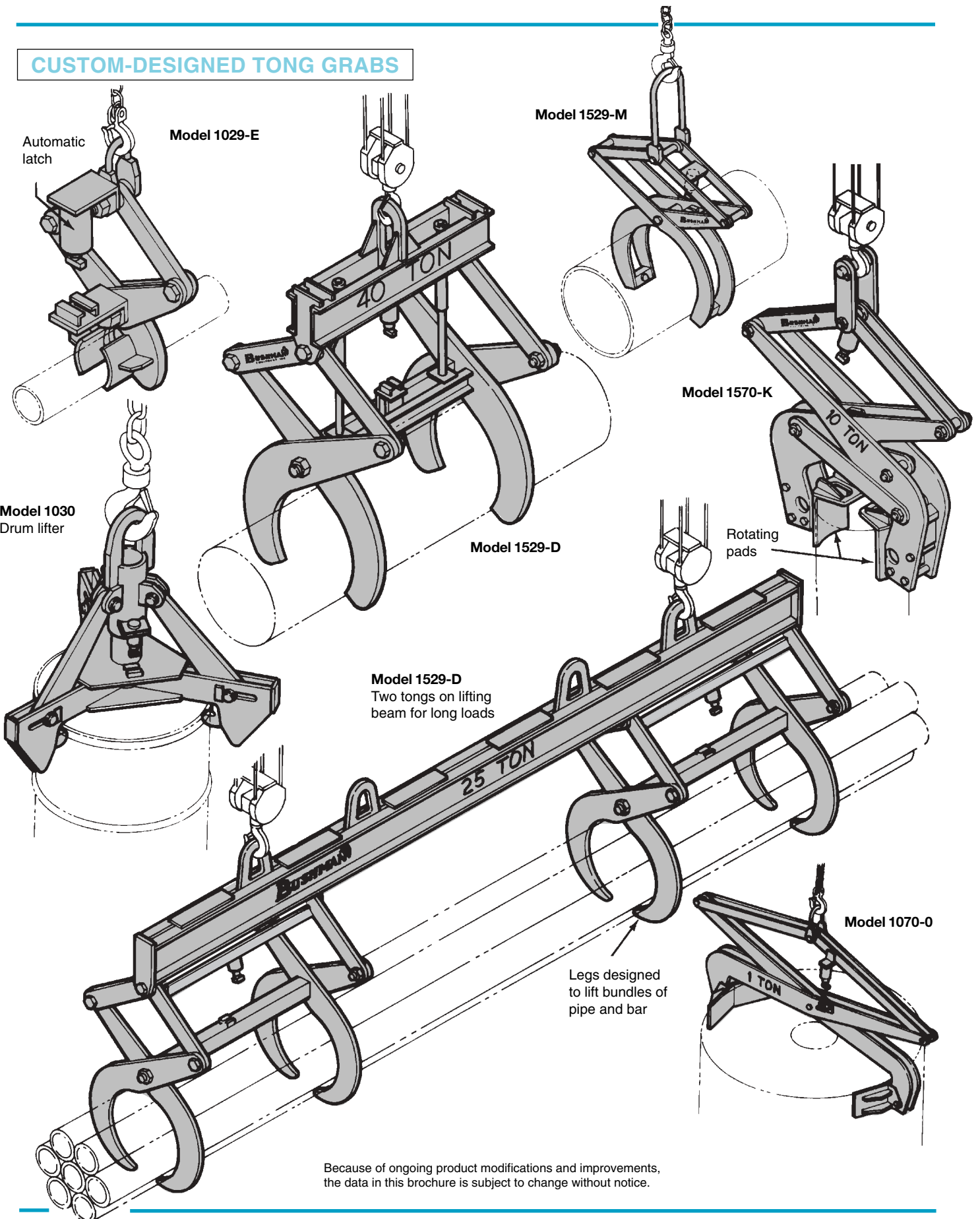
Replaceable hardened points

**Model 1080-A**  
Designed to handle boxes or similar items of constant size



**Model 1503-FF**  
Designed to lift ingots of varying widths

**CUSTOM-DESIGNED TONG GRABS**



Because of ongoing product modifications and improvements, the data in this brochure is subject to change without notice.