



# HYDRAULIC & STATIONARY THUMBS



**SPECIFICALLY DESIGNED TO MATCH YOUR BUCKET TIP RADIUS AND TOOTH SPACING TO ACCOMMODATE EXACT PICKING AND SORTING NEEDS FOR ANY JOB.**



- All T1 and HX400 construction.
- Replaceable, bronze bushing for extended wear life.
- Hinge pin rotates with bucket to eliminate wear to bucket bores.
- Each thumb is specifically designed for the bucket.
- Thumbs are designed for convenient stow position in mounting bracket.

Empire Bucket will custom design our thumb to match your specific need!  
 Special picking or sorting needs? Empire will design a thumb to match your bucket width,  
 tip radius and tooth spacing!

Empire's Hydraulic Thumbs will give you a strong, positive grip on your load  
 and will quickly stow when needed - out of your work zone.

Our custom design provides you with the largest possible working range!

Empire's Mechanical Link Thumbs are a low-cost option for an excavator  
 that doesn't have stick hydraulics, or for occasional use.

### Specifications for Typical Empire Thumbs

Excavator Weight Class	Hydraulic Thumbs				Mechanical Link Thumbs			
	2 Tine Standard Width		Wide Thumbs -3 or 4 Tine		2 Tine Standard		Wide Thumbs -3 or 4	
	Std Mount	w/Coupler	Std Mount	w/Coupler	Std Mount	w/Coupler	Std Mount	w/Coupler
14,000 - 21,000#	Typical Weight: 500# Hydraulic Cylinder Size: 4" x 24"				400#	420#	450#	
21,001 - 28,000#	Typical Weight: 600# Hydraulic Cylinder Size: 4.5" x 30"				575#	600#	750#	
28,001 - 36,000#	Typical Weight: 800# Hydraulic Cylinder Size: 4.5" x 30"				650#	700#	900#	
36,001 - 48,000#	Typical Weight: 1000# Hydraulic Cylinder Size: 5" x 36"				900#	950#	1150#	
48,001 - 60,000#	Typical Weight: 1250# Hydraulic Cylinder Size: 5" x 36"				1100#	1150#	1400#	
60,001 - 75,000#	Typical Weight: 1500# Hydraulic Cylinder Size: 6" x 42"				1250#	1350#	1600#	
75,001 - 90,000#	Typical Weight: 2000# Hydraulic Cylinder Size: 6" x 42"				1800#	2000#	2000#	
90,001 - 125,000#	Typical Weight: 3000# Hydraulic Cylinder Size: 6" x 48"				2650#	2900#	3000#	

Empire Thumbs are made using high grade composite materials T-1 and Hardox  
 and typically include greasable, replaceable bronze bushings for long wear life.  
 Hinge pin rotates with the bucket, reducing wear to bucket bores.

### Mounting Information

Empire Thumbs are supplied with mounting pins, mechanical link or hydraulic cylinder,  
 and a mounting pad that must be welded to the excavator stick.

Hydraulic thumbs require a control valve and hydraulic lines that include a relief valve in the thumb circuit.

