

Pneumatic Workholding Clamp

- Ideal for sheet metal handling in transfer presses
- Design delivers superior clamp force and life
- Four sizes and up to 15 jaw styles to fit application needs



WHAT'S NEW

Hot Stamping Sensor Housing Kits page 100



T & U Jaw Styles page 21



Teachable Sensor page 87



BEST DESIGN, DELIVERY, & PERFORMANCE

ISO 9001 REGISTERED
Quality Management System Certified



SERIES GRM CLAMPS

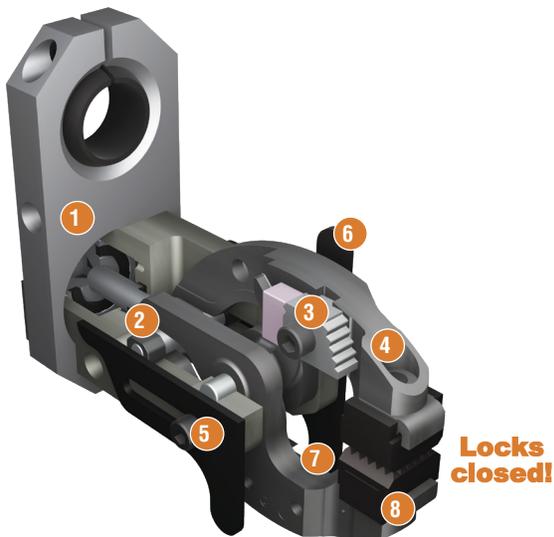
GRM

CATALOG INDEX	Page
Major Benefits	2
Selection Guide	3
Unit Views	4 - 8
Engineering Data	9
Jaw Styles	10 - 45
Options & Accessories	46 - 47
Mounting - Standard & Accessory	48 - 59
Tips - Standard & Accessory	60 - 77
Port Fittings	78
Body Options	79 - 82
General Options	83 - 84
Jaw Options	85 - 86
Switches and Mounting Options	87 - 99
Seal Options	100
NEW Hot Stamping Sensor Housing Kits	100

Major Benefits

- Simple design
- Compact envelope size
- Long life
- High grip force
- Fast field maintenance
- Jaws lock in the closed position ensuring part retention if air pressure is lost due to line rupture or power loss
- Lowest cost of ownership
- Proven design for longevity
- Modular jaws and tips - easily changed
- Non-adjustable color-coded tips
- Modular mounting brackets
- Adjustable jaw rotations
- Hardened adjustable impact plates
- Integral shock pads
- Imperial and metric ports and mounting

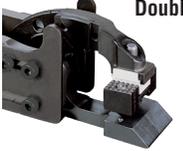
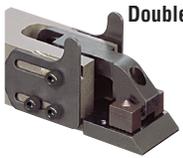
The Series GRM Clamp continues to be the industry-leading pneumatic actuator of choice for material handling solutions worldwide. Its simple design and rugged construction have proven customer satisfaction and loyalty since 1998. Four standard sizes, 15 standard jaw styles, and countless options and accessories, make the Series GRM Clamp the most versatile and modular clamp in the world.



Product Features

- 1 **Fixed or spherical mounting brackets** for side or rear mounting
- 2 **Cam design** locks clamp in the closed position ensuring part retention if air pressure is lost
- 3 **Adjustable rotation stop** allows for multiple jaw openings in one clamp (Sizes 2 and 4)
- 4 **Interchangeable hardened-steel jaws** minimize costly inventory and maximize wear resistance for long life
- 5 **Field repairable** in ten minutes using metric hex wrenches
- 6 **Hardened-steel impact plates** eliminate damage to body from panel impact and provide positive positioning. These are adjustable on sizes 1, 2, and 4.
- 7 **Wide and deep jaw throats** accommodate difficult clamping applications
- 8 **Self-locking internal threads** throughout eliminate need for thread locking adhesives or additional locking components

SELECTION GUIDE: Series GRM Clamps

JAW STYLE (units shown are size 2)	SIZE	CLAMP FORCE		JAW DESIGN & BENEFITS	PAGE
		lb	N		
STANDARD 	0	135	600	Sizes 2 & 4 - Jaws have wide and deep jaw throats to accommodate non-flat applications Size 1 has same grip force as size 2	13
	1	225	1001		
	2	225	1001		
	4	500	2224		
CHISEL  	2	225	1001	Compact lower jaw Blank loading Sheet separation applications	17
	4	500	2224		
SHOVEL  	2	225	1001	Blank loading and sheet separation applications Adjustable external rotation stop allows for multiple jaw openings in one clamp	19
	4	500	2224		
FLAT SHOVEL  	2	225	1001	Completely fixed lower jaw Upper jaw does not swing through bottom of clamp Ideal for limited spaces	25
	4	500	2224		
NEW LOW PROFILE SHOVEL  	1	160	710	Low profile shovel fits into tight spaces Increased throat clearance for parts with flanges Blank loading	21
	2	225	1001		
FLANGE 	0	135	600	Adjustable external rotation stop allows for multiple jaw openings in one clamp (for sizes 2 & 4 only) Ideal to grip on bends or flanges	30
	1	180	801		
	2	225	1001		
	4	500	2224		
 	2	225	1001	Jaws lock in closed position over wide panel thickness range (0.0 to 4.0 mm) Ideal for limited spaces and blank loading applications Integral diamond points eliminate need for tip options	34
	4	500	2224		
HOOK 	2	225	1001	Short overall length to save space between rails Commonly used with 'C' style mounting brackets	37
TOOLABLE 	2	225	1001	Designed with large space between jaws to accommodate non-flat and large material applications	40
	4	500	2224		
SHORT 	2	330	1468	Ideal for limited space environments Higher grip force in smaller package	44