

Glass Container Industry

Rugged design and long life for hot glass bottle transferring applications





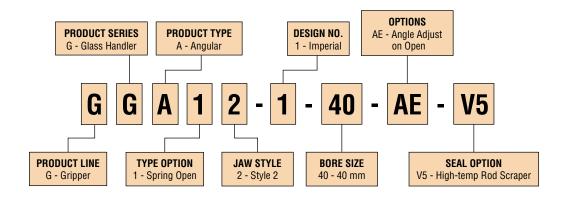


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ORDERING DATA: SERIES GGA GLASS GRIPPER





BENEFITS: SERIES GGA GLASS GRIPPER

The standard design GGA12-1-40 includes a locking ramp which locks in place when jaws are full open.

The adjustable opening angle design **GGA12-1-40-AE** uses a cam slot and roller bearing. This design uses a smooth closing with cushioning through the cam slot design. The adjustment screw sets or changes the opening angle.

- Mechanical Locking: Gripper jaws are locked on full open, thus eliminating jaws and tooling being exposed to additional moments of inertia during gob/bottle transfer onto the conveyor.
- Cam Slot Design: For more grip force, the theoretical grip force with the jaws at parallel is about 347N at 6 bar [78 lb at 87 psi] and 85 N at 2 bar [19 lb at 29 psi].
- Integrated Smooth Closing™: The cushioning is built into the cam slot of the jaws. This is for handling bottles softly to avoid finish cracks.
- Very Precise Jaw Movement: For consistent, repeatable pick up. No pin breaks or jaw play!

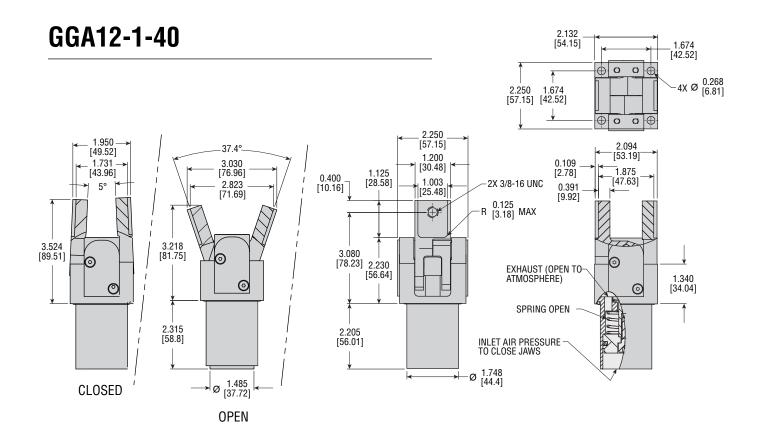
- Drop-in Replacement: Replaces Emhart, BDF, Bottero, GPS, Lattimer and other glass bottle forming machines
- Anti-Wink: Gripper jaws are locked on full open, thus reducing risk of defects in the container mouth rim.
- Less Downtime: Designed for more than 10 million cycles
- · Easily field repairable, spare parts available upon request

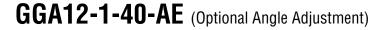
SPECIFICATIONS	SERIES GGA
WEIGHT	30.4 oz [862 g]
BORE	40 mm
JAWS OPEN ANGLE	37.4° (Adjustable on GGA12-1-40-AE)
JAWS FULL CLOSE ANGLE	5°
JAW MATERIAL	Pre-hardened steel
BODY	Coated
SPRING OPEN	Spring installed between body and piston

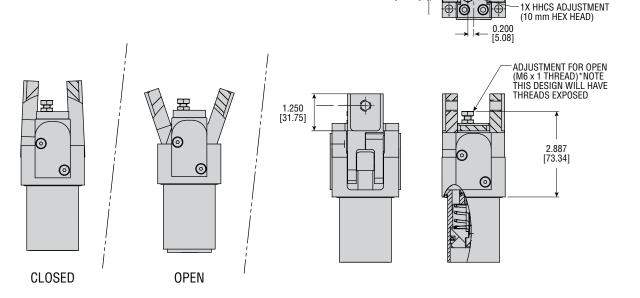
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DIMENSIONS: SERIES GGA GLASS GRIPPER







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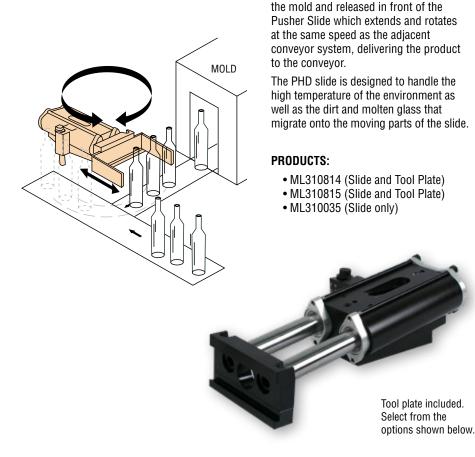
NOTES:

- 1) ALL DIMENSIONS ARE FOR REFERENCE ONLY
- 2) THEORETICAL GRIP FORCE AT PARALLEL IS ABOUT 18 LBS [80 N] AT 30 PSI [2 BAR] AT THREADED HOLES
- 3) SINGLE-ACTING OPERATION: SPRING OPEN, AIR PRESSURE CLOSED
- 4) UNIT RATED FOR 400°F [204°C]



OTHER GLASS SOLUTIONS: GLASS PUSHER SLIDE

Hot "ware" (bottles) are removed from



- Direct replacement for existing angle slides on Bottero and Emhart machines.
- Faster retract speed due to special built-in quick exhaust valve.
- Long life design due to the choice of seals, coatings, close tolerance machining, and assembly withstanding the environment.
- Rod scrapers prevent contamination of internal seals and bearings promoting longer life.
- Lower cost unit offered without position adjuster.
- Easily field repairable with repair and seal kits.
- Energy savings due to larger rods and 20% smaller bores.

SPECIFICATIONS	GLASS PUSHER SLIDE
TWIN BORE	Ø 1.575 in [40 mm]
STROKE	4.250 ±0.028 in [108 ±0.7 mm]
GUIDE SHAFTS	Ø 1 in [25.4 mm] Hardened, Ground Steel
BODY	PTFE Hardcoat Aluminum
TOOL PLATE	Steel
SEALS	Fluoroelastomer
BUSHINGS	Polymer
CYCLE SPEEDS at 45 psi	
Extend	29.3 in/sec [8.9 m/sec]
Retract	34 in/sec [10.4 m/sec]
CYCLE TIME at 45 psi	
Extend	145 ms
Retract	125 ms



 $^{\perp}$ Exhaust Deflector



*ML310274 (OI/Emhart tool plate) Increased dead plate clearance



*ML310279 (Bottero tool plate)

*Also, select the tool plate for your dead plate clearance requirement.



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