

AGW-500-2 Parallel Gripper Wide-Body, Synchronous/Non-Synchronous



FEATURES AND BENEFITS

- Ultra high gripping force to weight ratio due to four opposing independent pistons that direct power to the jaws.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulations.
- Large jaw support shafts are guided through the full width of the main body.
- Proximity switches are available to monitor open and closed position of the jaws.
- The AGW Series is fully field repairable for cost savings and minimum down time.
- Non-synchronous versions allow the gripper's jaws to comply to the part's centerline versus the gripper's centerline.

SPECIFICATIONS

Piston Diameter:

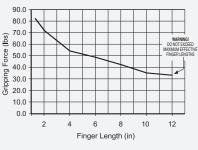
Design: Parallel, Double Acting, Synchronized Jaws

Stroke:	2.5 in	[63.5 mm]
Gripping Force @ 80 F Closing: Opening:	PSI Per Jaw 84 lbs 86 lbs	[5.5 BAR] [373 N] [383 N]
Time: Close: Open:	0.3 sec 0.3 sec	[0.3 sec] [0.3 sec]
Pressure Range: Low/High	20-120 PSI	[1.7-8 BAR]
Temperature Range: Low/High	-20°/180°F	[-28°/80°C]
Side Play:	± 0.001	[.03 mm]
Repeatability from Center:	± 0.002	[.06 mm]
Loading Capacity:		
Max Tensile T	Static 500 lbs [2220 N]	Dynamic 50 lbs [222 N]
Max Compressive C	500 lbs [2220 N]	50 lbs [222 N]
Max Moment $\mathbf{M}_{\mathbf{X}}$	500 in/lb [56.5 Nm] 750 in/lb [85 Nm] 500 in/lb [56.5 Nm]	75 in/lb [8.5Nm] 50 in/lb
Max Moment M_y		
Max Moment M_z		
Material: High Strength,Hard Coated aluminum bronze alloys, Steel		
Weight:	4 lbs	[1.8 kg]

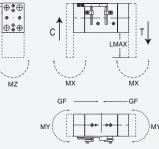
.875 in x 4 [22.3 mm]

January 2009 - PATENTED Made in the USA

HOLDING FORCES CHART



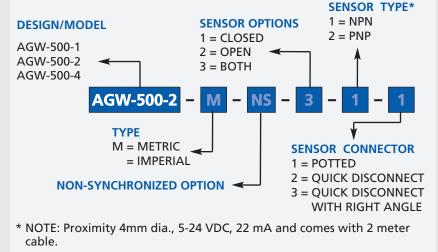
WARNING! Do not exceed tooling jaw length. See Chart above.



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

When ordering, please specify: Design/Model Number and Options.



Sensor Part # SNQ04, SNC04, SPC04, SPQ04

42 American Grippers, Inc. 171 Spring Hill Road, Trumbull, CT 06611 Tel: 203-459-8345 • Fax: 203-452-5943 info@AGI-Automation.com • www.AGI-Automation.com



AGW-500-2 Parallel Gripper Wide-Body, Synchronous/Non-Synchronous

