AGP-10-OR Parallel Gripper

8-Finger Gripper for Placing O-Rings, T-Slot Bearing Series

FEATURES AND BENEFITS

- **Jaws are T-Slot bearing supported to prevent jaw breakage and offer superior load bearing performance.**
- Spreading jaws and Ejector jaws have independent pistons to provide exact timing of O-ring placement.
- Compact design with long adjustable stroke.
- True parallel jaw motion for easy tooling.
- Hole through center facilitates part seating and ejection.
- Available in Imperial only.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Sealed Jaws,•Through•Hole

Stroke: Spread 1.625 in. adj. [42.9 mm]
Ejecting 0.55 in [13.9 mm]

Gripping Force Per Jaw @ 80 PSI [5.5 BAR]
Spreading Jaw: 1121230•lbs•force•[each]•@80•psi.*
Ejector Jaw: 750 lbs•force•[combined]•@80•psi.*

Time:
Close: 0.2 sec [0.2 sec]
Open: 0.2 sec [0.2 sec]

Pressure Range:
Low/High 30-100 PSI [2-7 BAR]

Temperature Range:
Low/High -20˚/180˚F [-28˚/80˚C]

Side Play: ± 0.001 [.03 mm]

Repeatability from center:
±.002 [.06 mm]

Loading Capacity:

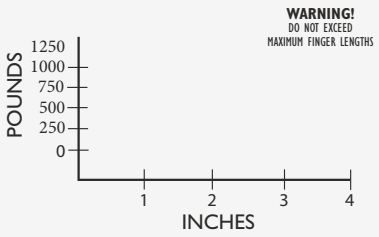
	Static	Dynamic
Max Tensile **T**	160 lbs [711 N]	45•lbs [200N]
Max Compressive **C**	**160•lbs** [711 N]	45 lbs [200 N]
Max Moment M_x	400 in/lb [45 Nm]	100 in/lb [12 Nm]
Max Moment M_y	440 in/lb [50 Nm]	120 in/lb [13 Nm]
Max Moment M_z	400 in/lb [45 Nm]	100 in/lb [12 Nm]

Material: High Strength,Hard Coated aluminum bronze alloys, Steel

Weight: 26•lbs [11.7•Kg]

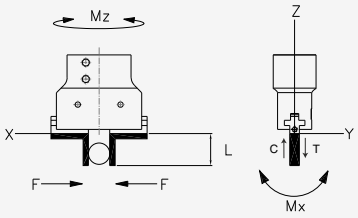
January 2009 - PATENTED Made in the USA

HOLDING FORCES CHART



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

LOADING INFORMATION



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

HOW TO ORDER

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

SENSOR TYPE*
1 = NPN
2 = PNP

AGP-10-OR – 3 – 1 – 1

SENSOR OPTIONS
1 = JAW OPEN
2 = EJECTOR DOWN
3 = BOTH

SENSOR CONNECTOR
1 = POTTED
2 = QUICK DISCONNECT
3 = QUICK DISCONNECT WITH RIGHT ANGLE

* NOTE: Proximity sensors are 6.5 mm smooth barrel, 1230 VDC, 50 mA and comes with 2 meter cable.

Sensor Part # SNC06, SNQ06, SPC06, SPQ06

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

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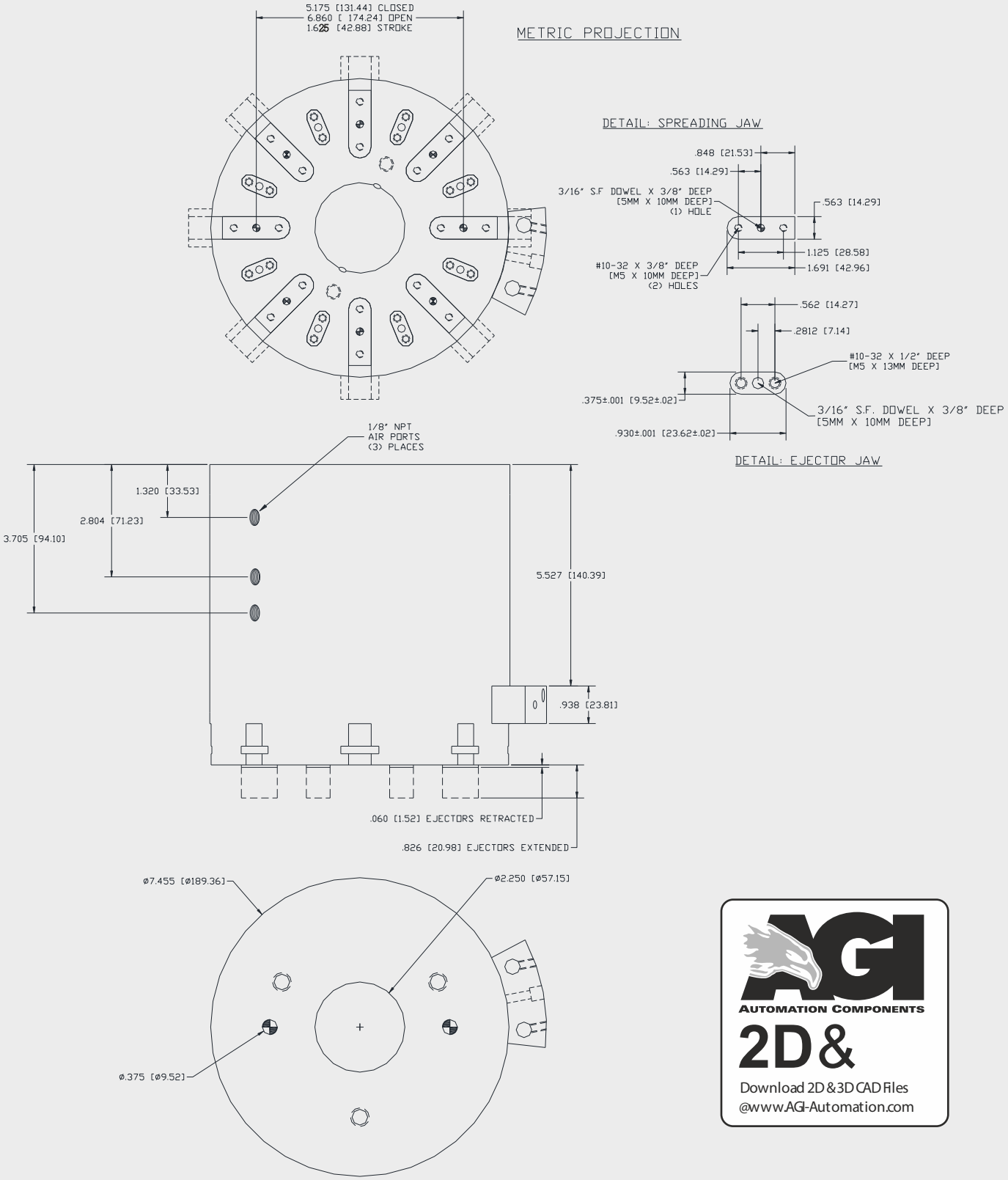

2D&

Download 2D & 3D CAD files
@www.AGI-Automation.com

Unless noted, all tolerances are as indicated here:	All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [.013mm]	Metric Threads Course Pitch	**Imperial:** Inch	0.00 = ± .01 0.000 = ± .005 0.0000 = ±	**Metric:** [mm]	[0.] = ± .25 [0.0] = ± .13 [0.00] = ± .013

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Basic operating instructions

1 Eject air port
2 Jaw close air port
3 Jaw open air port
5 Stroke adjustment screw
6 Adjustment screw lock

To adjust stroke, first loosen adjustment screw locks [marked #6] 2 places. Next, drive adjustment screws [marked #5] down to shorten stroke or back out to lengthen. Adjust both screws equally. Complete the adjustment by locking both (#6) adjustment screw locks.

AUTOMATION COMPONENTS

2D&

Download 2D & 3D CAD Files
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