**AGPT-500 Parallel Gripper**

**T-Slot Bearing Series**

**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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**FEATURES AND BENEFITS**
- Jaws are T-Slot bearing supported to prevent jaw breakage and offer superior load bearing performance.
- High gripping force to weight ratio.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulations.
- Proximity switches are available to monitor open and closed position of the jaws.
- AGPT is fully field repairable for cost savings and minimum down time.
- Linkage is guided in the body for precise center repeatability.

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**SPECIFICATIONS**

**Design:** Parallel, Double Acting, Synchronized Jaws

**Stroke:** 0.50 in [12.7 mm]

**Gripping Force Per Jaw @ 80 PSI [5.5 BAR]**
- Closing: 10 PSI [44 N]
- Opening: 12 PSI [53 N]

**Time:**
- Close: 0.12 sec [0.12 sec]
- Open: 0.12 sec [0.12 sec]

**Pressure Range:**
- Low/High: 10-120 PSI [.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:**
- **Static**
  - Max Tensile T: 50 lbs [222 N]
  - Max Compressive C: 50 lbs [222 N]
- **Dynamic**
  - Max Tensile T: 15 lbs [66.7 N]
  - Max Compressive C: 15 lbs [66.7 N]

**Max Moment Mₓ:**
- 50 in/1b [5.6 Nm]

**Max Moment Mᵧ:**
- 60 in/1b [6.7 Nm]

**Max Moment M₂:**
- 50 in/1b [5.6 Nm]

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

**Weight:** 5 oz [142 g]

**Piston Diameter:** 0.625 in [15.8 mm]

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**HOW TO ORDER**

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

**DESIGN/MODEL**
- AGPT-500
- AGPT-1000
- AGPT-1125

**SENSOR TYPE**
- 1 = NPN
- 2 = PNP

**SENSOR OPTIONS**
- 1 = CLOSED
- 2 = OPEN
- 3 = BOTH

*NOTE: Proximity 4mm dia., 5-24 VDC, 22 mA and comes with 2 meter cable.*

Sensor Part #: SNC04, SPC04

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**HOLDING FORCES CHART**

**LOADING INFORMATION**

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

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

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**January 2009 - PATENTED**  Made in the USA
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Unless noted, all tolerances are as indicated here:

- All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [.013mm]
- Metric Threads Course Pitch

<table>
<thead>
<tr>
<th>Imperial</th>
<th>Metric</th>
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</thead>
<tbody>
<tr>
<td>0.000 = ±.01</td>
<td>0.010 = ±.025</td>
</tr>
<tr>
<td>0.0000 = ±.0005</td>
<td>0.0005 = ±.013</td>
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**2D & 3D**

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