**AGPT-1125 Parallel Gripper**

**T-Slot Bearing Series**

American Grippers, Inc.
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**SPECIFICATIONS**

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

**Stroke:** 1.125 in [28.6 mm]

**Gripping Force Per Jaw @ 80 PSI [5.5 BAR]**
- Closing: 30 PSI [133 N]
- Opening: 27 PSI [120 N]

**Time:**
- Close: 0.20 sec [0.20 sec]
- Open: 0.20 sec [0.20 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:** ± 0.001 [.03 mm]

**Loading Capacity:**
- **Static**
  - Max Tensile T: 100 lbs [444 N]
  - Max Compressive C: 100 lbs [444 N]
  - Max Moment MX: 200 in/lb [22.6 Nm]
  - Max Moment MY: 250 in/lb [28 Nm]
  - Max Moment MZ: 200 in/lb [22.6 Nm]

- **Dynamic**
  - Max Tensile T: 30 lbs [133 N]
  - Max Compressive C: 30 lbs [133 N]
  - Max Moment MX: 25 in/lb [5.6 Nm]
  - Max Moment MY: 30 in/lb [6.7 Nm]
  - Max Moment MZ: 25 in/lb [5.6 Nm]

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

**Weight:** 1 lb. [.5 kg]

**Piston Diameter:** 1.00 in [25.4 mm]

January 2009 - PATENTED  Made in the USA

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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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**HOW TO ORDER**

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

**LOADING INFORMATION**

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**SENSOR OPTIONS**

1 = CLOSED
2 = OPEN
3 = BOTH

**SENSOR TYPE**

1 = NPN
2 = PNP

**TYPE**

M = METRIC
= IMPERIAL

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**SENSORS FOR AGPT-1125**

- Sensor Part # SNC04, SPC04

* NOTE: Proximity 4mm dia., 5-24 VDC, 22 mA and comes with 2 meter cable.
Unless noted, all tolerances are as indicated here:

- All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [.013mm]
- Metric Threads
  - Course Pitch
  - Imperial: 0.00 = ± .01
  - Inch: 0.000 = ± .005
  - Metric: [mm] [0.0] = ± .25
  - [mm] [0.00] = ± .013

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