

# AGP-63 Three Jaw Parallel Gripper

## T-Slot Bearing Series



### 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.
- Compact design with long stroke.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulations.
- Hall effect sensors are available to monitor open and closed position of the jaws.
- AGP is fully field repairable for cost savings and minimum down time.
- Multiple mounting surfaces on jaw for easy tooling.
- Optional stripper plate ensures part preload in location upon release.

### SPECIFICATIONS

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

**Stroke:** .62 in [15.7 mm]

**Gripping Force @ 80 PSI [5.5 BAR]**

Closing: 200 lbs [889 N]  
Opening: 194 lbs [862 N]

**Time:**

Close: 0.22 sec [0.22 sec]  
Open: 0.22 sec [0.22 sec]

**Pressure Range:**

Low/High 30-120 PSI [2-8 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	Dynamic
Max Tensile T	1250 lbs [5560 N]	400 lbs [1780 N]
Max Compressive C	1250 lbs [5560 N]	400 lbs [1780 N]
Max Moment $M_x$	1000 in/lb [112 Nm]	400 in/lb [45 Nm]
Max Moment $M_y$	1000 in/lb [112 Nm]	400 in/lb [45 Nm]
Max Moment $M_z$	1000 in/lb [112 Nm]	300 in/lb [33.9 Nm]

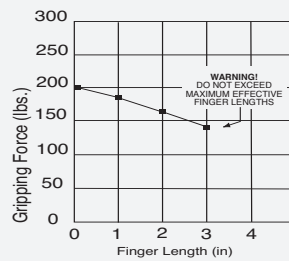
**Material:** High Strength, Hard Coated aluminum bronze alloys, Steel

**Weight:** 2.3 lbs [1 kg]

**Piston Diameter:** 2.75 in [69.8 mm]

January 2009 - PATENTED Made in the USA

### HOLDING FORCES CHART



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

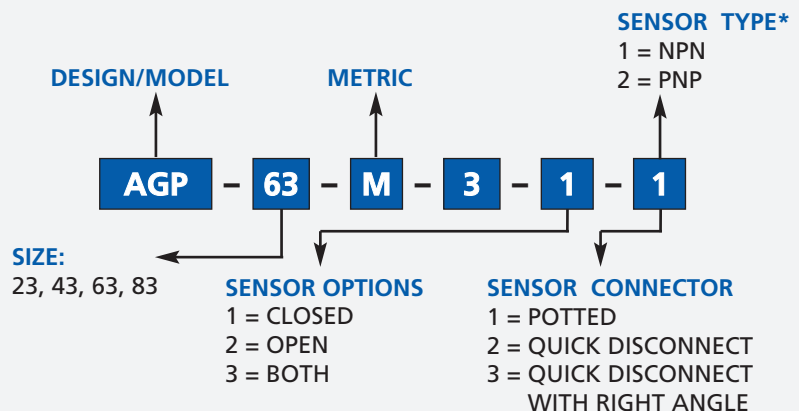
### LOADING INFORMATION



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

### HOW TO ORDER

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

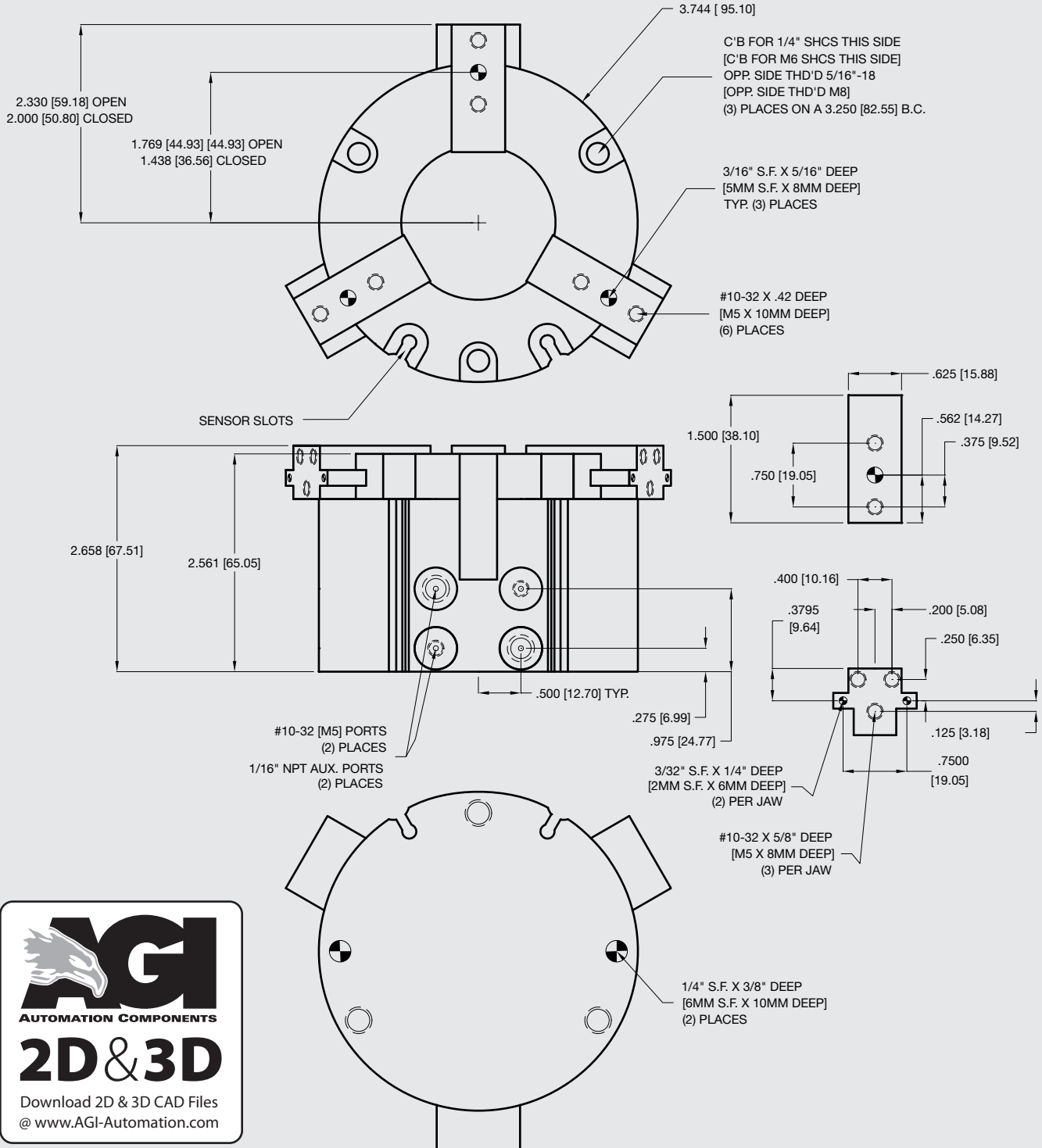


\* NOTE: Hall Effect 4mm dia., 5-24 VDC, 22 mA and comes with 2 meter cable.

Sensor Part # SHN02, SHN04, SHP02, SHP04

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## T-Slot Bearing Series



**Unless noted, all tolerances are as indicated here:**



All Dowel Holes are SF (Slip Fit) Locational Tolerance  $\pm .0005"$  [.013mm]



Metric Threads Course Pitch

**Imperial:**  
Inch 0.00 =  $\pm .01$   
0.000 =  $\pm .005$   
0.0000 =  $\pm .0005$

**Metric:** [0.] =  $\pm .25$   
[mm] [0.0] =  $\pm .13$   
[0.00] =  $\pm .013$