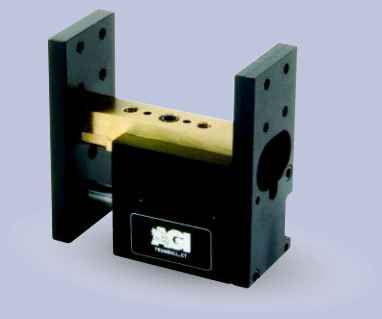
AGPS-2-1 Parallel Gripper

Single Finger, One Fixed Jaw



FEATURES AND BENEFITS

- **T-Slot bearing support for the carriage and end plate offers superior load bearing performance throughout the stoke.**
- **Standard built-in stroke adjustment and stroke lock for precise, repetitive operation.**
- Compact, lightweight unit with built-in cylinder.
- Piston seals are U-CUP type for long service life.
- Hall Effect sensors are available to monitor stroke position.
- Multiple mounting surfaces on the body and endplate with threaded and counterbored holes for easy mounting choices.
- Adjustable stoke on extend and retract.

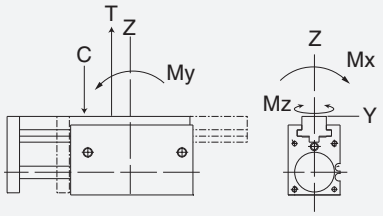
SPECIFICATIONS

Design: Built-in air cylinder
T-slot slide

Stroke:	0.5 in	[12.7 mm]
Thrust Force @ 80 PSI [5.5 BAR]		
Extended:	35 lbs	[155 N]
Retract:	33 lbs	[146 N]
Recommended Speed:	2-12 in/sec	[0.5-.3m/sec]
Pressure Range:		
Low/High	20-120 PSI	[1.4-8 BAR]
Temperature Range:		
Low/High	-20˚/150˚F	[-28˚/80˚C]
Side Play:	± 0.001	[.03 mm]
Maximum Payload:	7 lbs	[3.2 kg]
Material:	High Strength, Aluminum Alloys, Bronze	
Weight:	4.2 oz	[120 g]
Piston Diameter:	.750 in	[19 mm]

January 2008 - PATENTED Made in the USA

MAXIMUM FORCES & MOMENTS



	Static	Dynamic
Max Tensile T	80 lbs [355 N]	34 lbs [151 N]
Max Compressive C	80 lbs [355 N]	34 lbs [151 N]
Max Moment M_x	35 in/lb [3.9 Nm]	19 in/lb [2.2 Nm]
Max Moment M_y	35 in/lb [3.9 Nm]	19 in/lb [2.2 Nm]
Max Moment M_z	35 in/lb [3.9 Nm]	19 in/lb [2.2 Nm]

HOW TO ORDER

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

DESIGN/MODEL
AGPS-2-1
AGPS-2-2
AGPS-2-3
AGPS-2-4

METRIC

SENSOR TYPE
1 = NPN
2 = PNP

AGPS-2-1 M – 3 – 1 – 1

SENSOR OPTIONS*
1 = LEFT
2 = RIGHT
3 = BOTH

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

* NOTE: Hall Effect sensors are hard wired with 20" pigtail.
Sensor Part # SHN01, SHP01, SHNQ3, SHPQ3

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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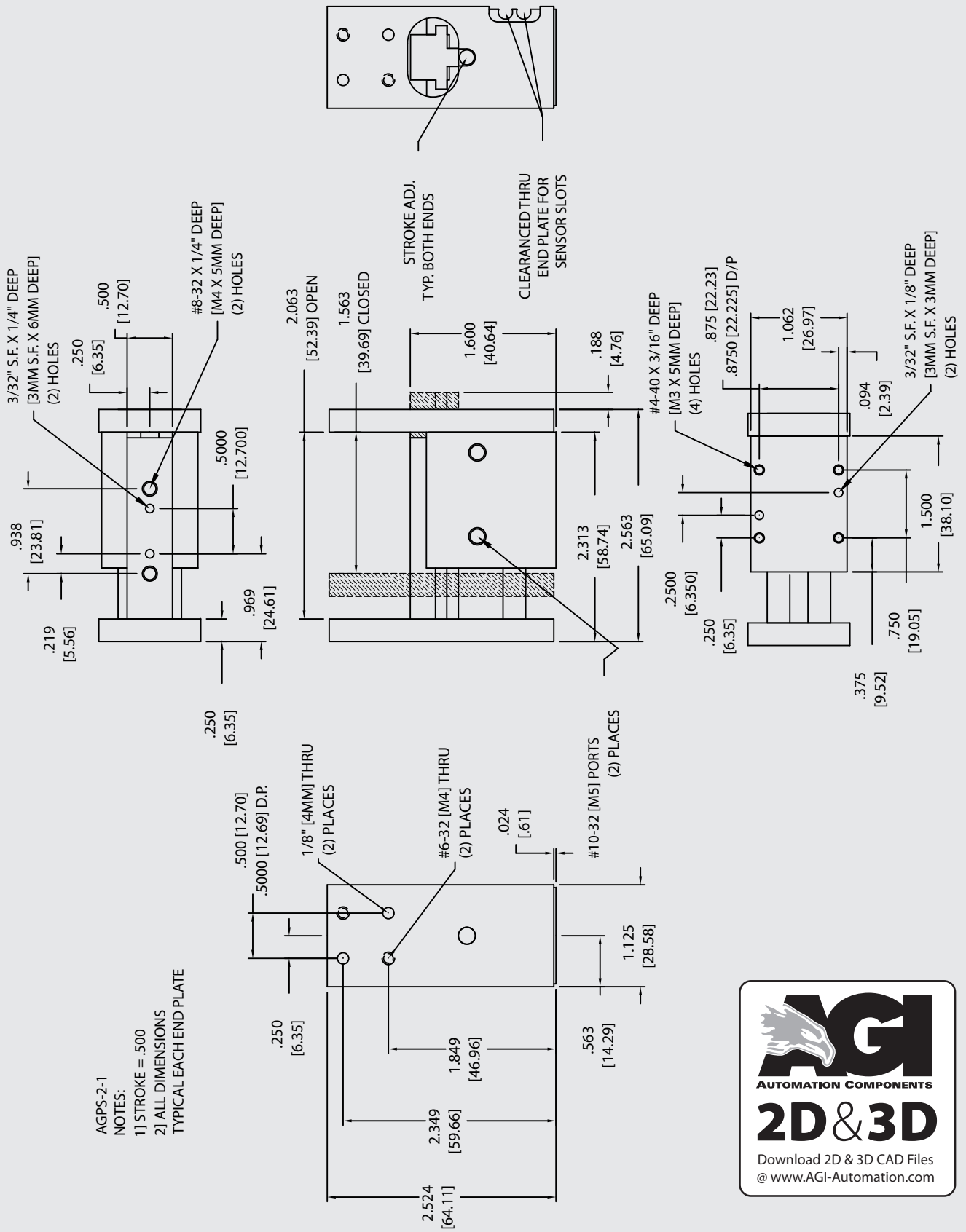

AUTOMATION COMPONENTS

2D&3D

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:	0.00 = ±.01	**Metric:**	[0.] = ±.25
Inch	0.000 = ±.005	[mm]	[0.0] = ±.13
	0.0000 = ±.0005		[0.00] = ±.013