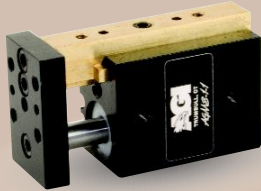


# AGMS-1-1 Mini Powered Slide

## Built-In Air Cylinder

### FEATURES AND BENEFITS



- T-Slot bearing support for the carriage and end plate offers superior load bearing performance throughout the stroke.
- 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.

### SPECIFICATIONS

**Design:** Built-in air cylinder  
T-slot slide

**Stroke:** .5 in adj [12.7 mm]

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

Extended: 15 lbs [66.7 N]  
Retract: 13 lbs [57.8 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 [0.03 mm]

**Maximum Payload:**

3 lbs [1.3 kg]

**Material:** High Strength, Aluminum Alloys, Bronze

**Weight:**

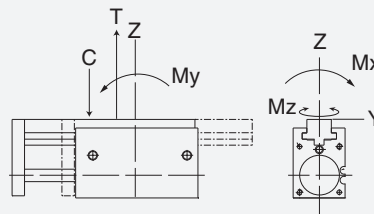
2.5 oz [70.1 g]

**Piston Diameter:**

.50 in [12.7 mm]

January 2009 - PATENTED Made in the USA

### MAXIMUM FORCES & MOMENTS



	Static	Dynamic
Max Tensile T	50 lbs [222 N]	20 lbs [89 N]
Max Compressive C	50 lbs [222 N]	20 lbs [89 N]
Max Moment $M_x$	25 in/lb [2.8 Nm]	15 in/lb [1.7Nm]
Max Moment $M_y$	30 in/lb [3.4 Nm]	15 in/lb [1.7Nm]
Max Moment $M_z$	30 in/lb [3.4 Nm]	15 in/lb [1.7Nm]

### HOW TO ORDER

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

**DESIGN/MODEL**

AGMS-1-1  
AGMS-1-2  
AGMS-1-3  
AGMS-1-4

**TYPE**

M = METRIC  
= IMPERIAL

**SENSOR TYPE**

1 = NPN  
2 = PNP

**AGMS-1-1 M - 3 - 1 - 1**

**SENSOR OPTIONS\***

1 = LEFT  
2 = RIGHT  
3 = BOTH

**SENSOR CONNECTOR**

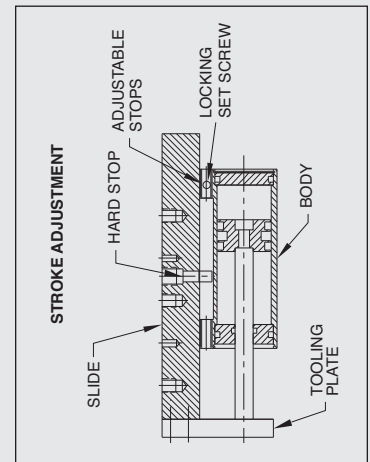
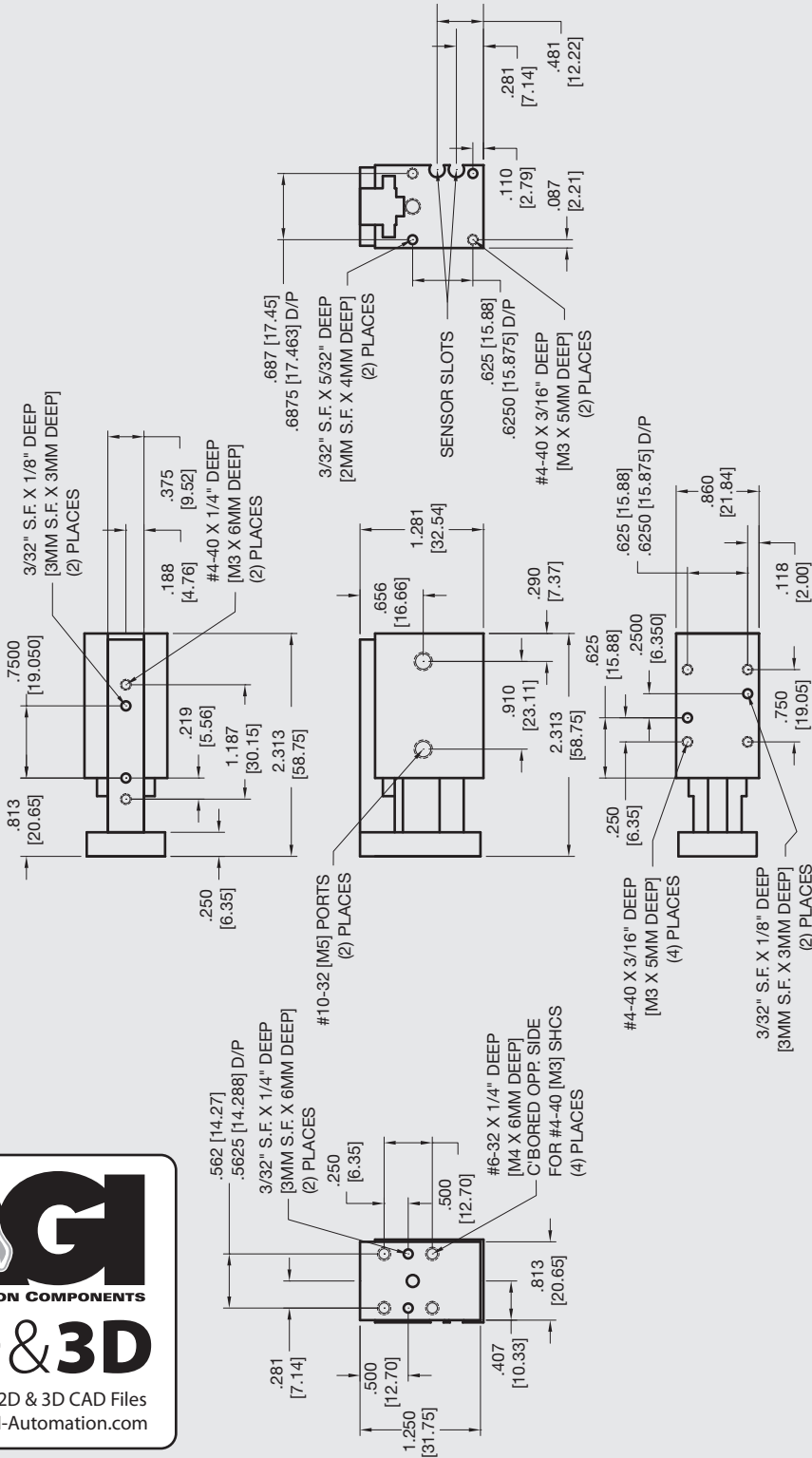
1 = POTTED  
2 = QUICK DISCONNECT  
3 = QUICK DISCONNECT WITH RIGHT ANGLE

\* NOTE: Hall Effect sensors – Potted or Quick disconnect.

Sensor Part # SHN01, SHP01, SHNQ3, SHPQ3

# AGMS-1-1 Mini Powered Slide

## Built-In Air Cylinder



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



All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [0.13mm]



Metric Threads Course Pitch

**Imperial:**  
Inch 0.00 = ±.01  
0.000 = ±.005  
0.0000 = ±.0005

**Metric:** [0.] = ±.25  
[0.0] = ±.13  
[0.00] = ±.013