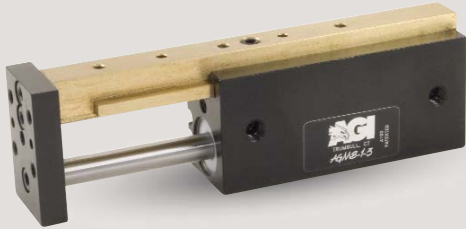




# AGMS-1-3 Feed Escapement

## Single Finger



### FEATURES AND BENEFITS

- Compact, Long Stroke Escapements made for separating and isolating individual parts from tracks, vibratory feeders or conveyors.
- 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.
- Adjustable stroke on extend and retract.

### SPECIFICATIONS

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

**Stroke (Adjustable):** 1.5 in [38.1 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 [.03 mm]

**Maximum Payload:**

12 lbs [5.4 kg]

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

**Weight:**

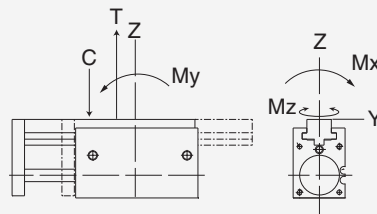
4 oz [113 g]

**Piston Diameter:**

.50 in [12.7 mm]

January 2008 - PATENTED Made in the USA

### MAXIMUM FORCES & MOMENTS



	Static	Dynamic
Max Tensile T	100 lbs [444 N]	42 lbs [186 N]
Max Compressive C	100 lbs [444 N]	42 lbs [186 N]
Max Moment $M_x$	80 in/lb [9 Nm]	40 in/lb [4.5 Nm]
Max Moment $M_y$	80 in/lb [9 Nm]	40 in/lb [4.5 Nm]
Max Moment $M_z$	80 in/lb [9 Nm]	40 in/lb [4.5 Nm]

### 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

**METRIC**

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

**SENSOR TYPE**

1 = NPN  
2 = PNP

**SENSOR OPTIONS\***

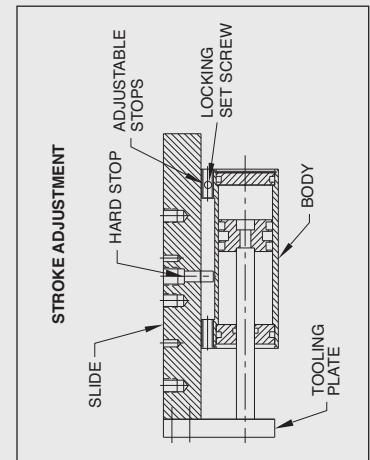
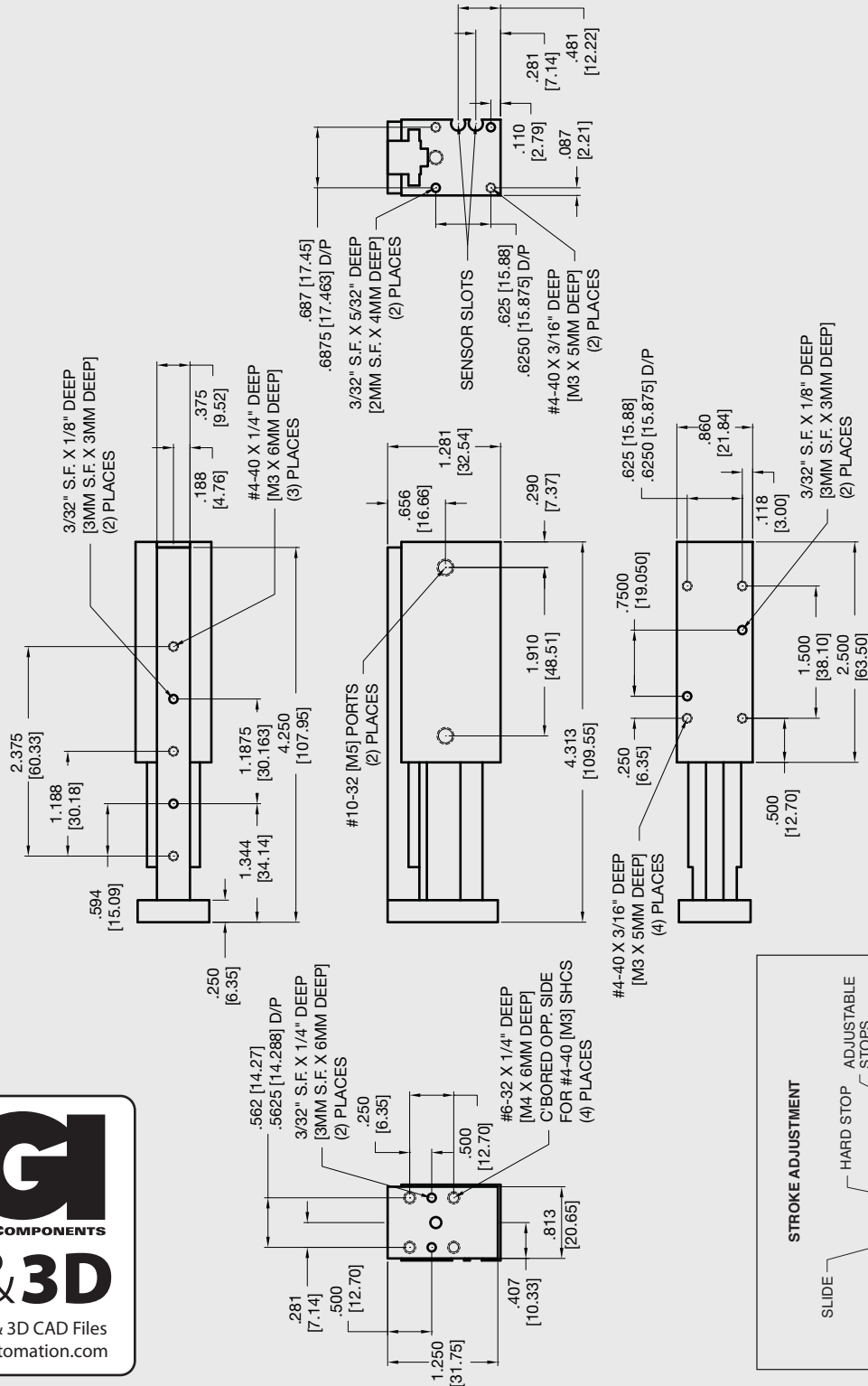
1 = LEFT  
2 = RIGHT  
3 = BOTH

**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



Unless noted, all tolerances are as indicated here:



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



Metric Threads Course Pitch

Imperial: 0.00 =  $\pm 0.01$   
Inch 0.000 =  $\pm 0.005$   
0.0000 =  $\pm 0.0005$

Metric: [0.] =  $\pm 0.25$   
[mm] [0.0] =  $\pm 0.13$   
[0.00] =  $\pm 0.13$