AGMS-2-2  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:** 1 in  [25.4 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:** 13 lbs  [5.9 kg]

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

**Weight:** 5.6 oz  [160 g]

**Piston Diameter:** .750 in  [19 mm]

January 2009 - PATENTED  Made in the USA

**MAXIMUM FORCES & MOMENTS**

<table>
<thead>
<tr>
<th>Static</th>
<th>Dynamic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Tensile T 140 lbs  [622 N]</td>
<td>60 lbs  [266 N]</td>
</tr>
<tr>
<td>Max Compressive C 140 lbs  [622 N]</td>
<td>60 lbs  [266 N]</td>
</tr>
<tr>
<td>Max Moment M_X 70 in/lb  [8 Nm]</td>
<td>30 in/lb  [3.4 Nm]</td>
</tr>
<tr>
<td>Max Moment M_Y 70 in/lb  [8 Nm]</td>
<td>30 in/lb  [3.4 Nm]</td>
</tr>
<tr>
<td>Max Moment M_Z 70 in/lb  [8 Nm]</td>
<td>30 in/lb  [3.4 Nm]</td>
</tr>
</tbody>
</table>

**HOW TO ORDER**

When ordering, please specify:

**Design/Model Number and Options.**

**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

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* Image of a mini powered slide with specifications and order options.

* Image of a table for maximum forces and moments.

* Image of a diagram showing sensor options and connector types.

* Note: Hall Effect sensors are hard wired with 20" pigtail.
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Unless noted, all tolerances are as indicated here:

**All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [.013mm]**

**Metric Threads**

<table>
<thead>
<tr>
<th>Imperial</th>
<th>Inch</th>
<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.000 = ±0.01</td>
<td>0.0000 = ±0.005</td>
<td>[0.] = ±0.25</td>
</tr>
<tr>
<td>0.010 = ±0.025</td>
<td>0.0005 = ±0.0013</td>
<td>[0.01] = ±0.13</td>
</tr>
<tr>
<td>0.025 = ±0.0005</td>
<td>0.0000 = ±0.0005</td>
<td>[0.025] = ±0.013</td>
</tr>
</tbody>
</table>

**Adjustable Stops**

**Hard Stop**

**Body**

**Tooling Plate**

**Stroke Adjustment**

**Locking Set Screw**

**2D & 3D**

Download 2D & 3D CAD Files @ www.AGI-Automation.com

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