



# AGT-5 Powered Slide Linear Thruster



## FEATURES AND BENEFITS

- Floating piston rod coupling eliminates cylinder binding.
- Compact, lightweight unit with replaceable air-cylinder.
- Units are permanently lubricated.
- Optional stroke adjustment for precise, repetitive operation.
- Proximity switches are available to monitor end of stroke position of the body.
- Optional shock absorbers can be ordered for smooth operation.
- Aluminum body end blocks contain taped holes and dowel pin holes for precision mounting or fixturing.
- Standard end plate to stop shaft vibrations.

## SPECIFICATIONS

**Design:** Replaceable air cylinder, linear bearings on steel hardened shafts

**Stroke:** 12 in max. (1" increments)  
[304.8 mm] [25.4 mm]

**Thrust Force @ 80 PSI [5.5 BAR]**  
140 lbs (multiply force factor by input pressure in PSI)

**Extended:** 1.76 lbs [8 N]

**Retract:** 1.61 lbs [7 N]

**Recommended Speed:** 1-40 in/sec  
[XX-XX m/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]

**Deflection:** See Chart

**Maximum Payload:** 40 lbs [18.2 kg]

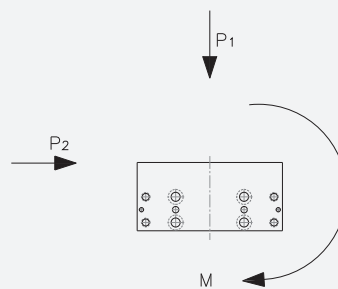
**Material:** High Strength, Aluminum Alloys, Steel Components

**Weight:** 7.0 lbs + 6.7 oz/in  
[3.2 kg + 5.2 g/mm]

**Shaft Diameter:** 3/4 in [19 mm]

**Piston Diameter:** 1 1/2 in [38 mm]

## PAYLOAD FORCES

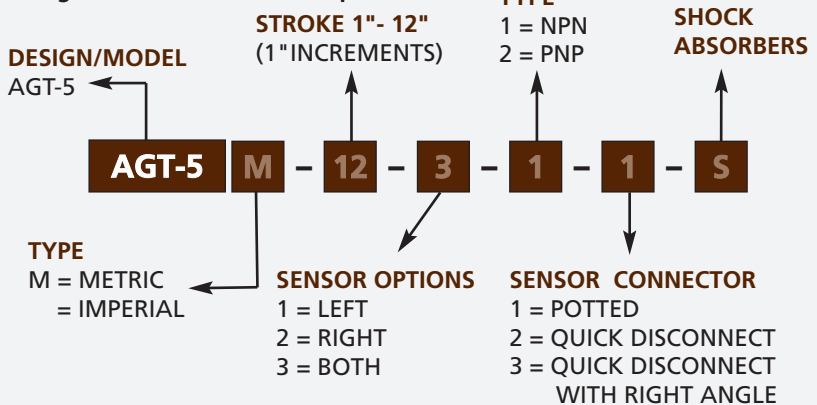


**WARNING!** Do not exceed mounting screw depth.

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

## HOW TO ORDER

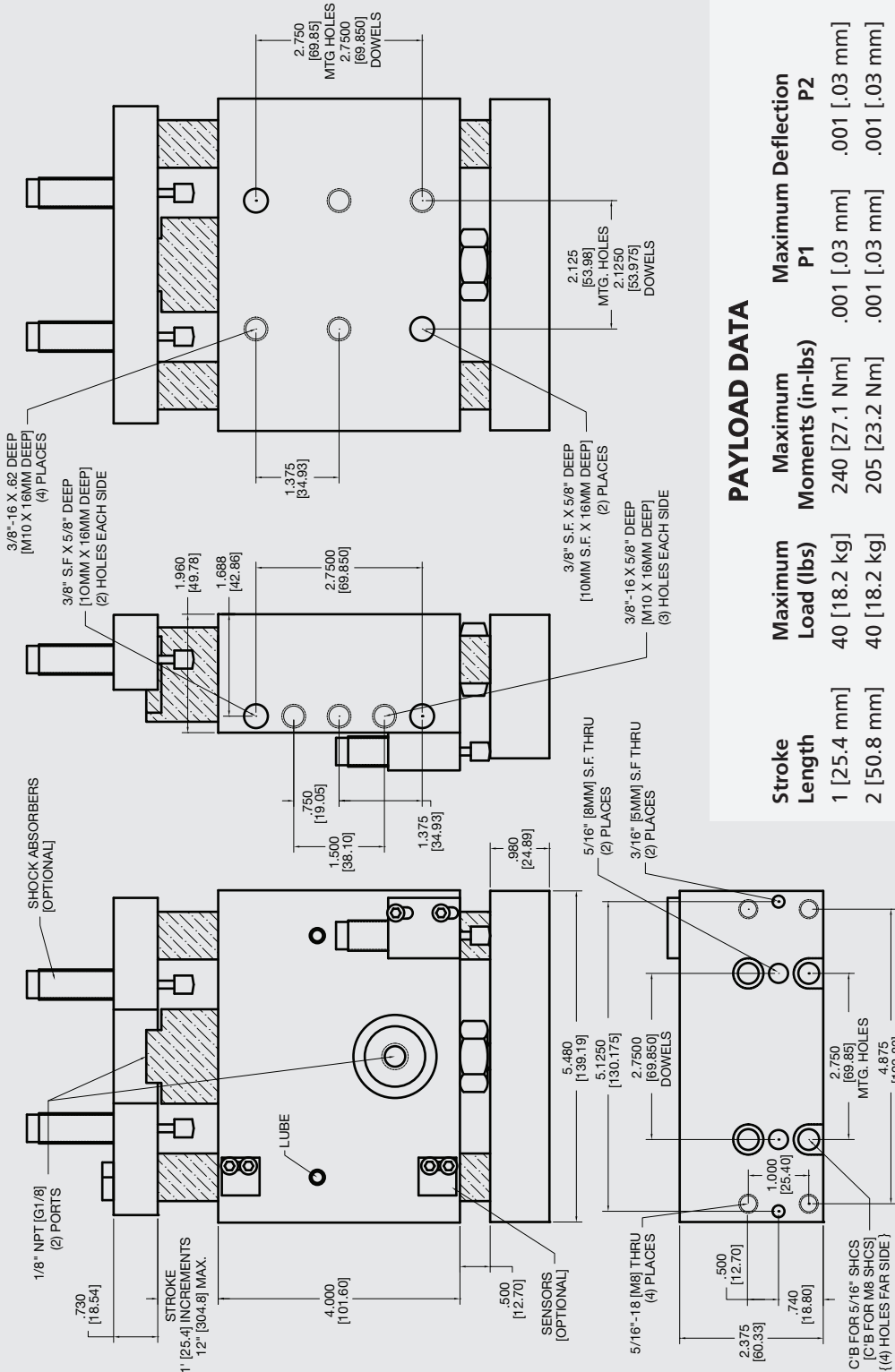
When ordering, please specify:  
Design/Model Number and Options.



\* NOTE: Proximity sensors are 6.5 mm diam., 12-30 VDC, 50 mA and come with 2 meter cable.

**Sensor Part # SNC08, SNQ08, SPC08, SPQ08**

January 2009 - PATENTED Made in the USA



### PAYLOAD DATA

Stroke Length	Maximum Load (lbs)	Maximum Moments (in-lbs)	Maximum Deflection P1	Maximum Deflection P2
1 [25.4 mm]	40 [18.2 kg]	240 [27.1 Nm]	.001 [.03 mm]	.001 [.03 mm]
2 [50.8 mm]	40 [18.2 kg]	205 [23.2 Nm]	.001 [.03 mm]	.001 [.03 mm]
3 [76.2 mm]	40 [18.2 kg]	176 [19.9 Nm]	.003 [.07 mm]	.002 [.05 mm]
4 [101.6 mm]	40 [18.2 kg]	155 [17.5 Nm]	.004 [.10 mm]	.003 [.07 mm]
5 [127.0 mm]	40 [18.2 kg]	137 [15.5 Nm]	.007 [.17 mm]	.006 [.15 mm]
6 [152.4 mm]	40 [18.2 kg]	120 [12.5 Nm]	.009 [.22 mm]	.007 [.17 mm]
7 [XXX mm]	40 [18.2 kg]	110 [12.5 Nm]	.012 [.30 mm]	.010 [.25 mm]
8 [XXX mm]	40 [18.2 kg]	100 [11.3 Nm]	.016 [.40 mm]	.013 [.33 mm]
9 [XXX mm]	40 [18.2 kg]	93 [10.5 Nm]	.019 [.50 mm]	.016 [.40 mm]
10 [XXX mm]	40 [18.2 kg]	86 [9.7 Nm]	.022 [.55 mm]	.018 [.45 mm]
11 [XXX mm]	40 [18.2 kg]	80 [9 Nm]	.024 [.60 mm]	.020 [.50 mm]
12 [XXX mm]	40 [18.2 kg]	75 [8.5 Nm]	.025 [.63 mm]	.021 [.53 mm]

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  
Inch 0.000 = ±.005  
0.0000 = ±.0005

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