



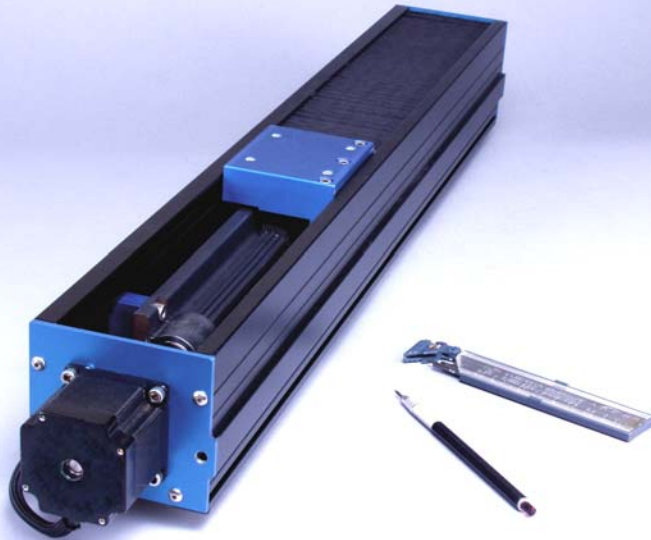
**H2W Technologies, Inc.**

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***Innovation in Linear Motion***

## Spline Shaft Screw Driven Positioning Stage

Model Shown : SCS-023-04-010-S



### **SPECIFICATIONS:**

<b>Travel</b>	= Up to 96 inches
<b>Speed</b>	= Up to 30 inches / sec
<b>Maximum Payload</b>	= 100 lbs.
<b>Resolution</b>	= Up to 1 micron.
<b>Straightness</b>	= 0.003 inches/foot
<b>Screw Accuracy</b>	= 0.005 inches/foot
<b>Angular Yaw</b>	= 3 degrees / foot
<b>Repeatability</b> (Bi-directional)	= 50 micro inches

These stages feature exceptionally long life without the need of adjustment, lubrication or maintenance. The integration of a splined linear guide and leadscrew results in a torsionally stiff stage that can be operated in either a horizontal or vertical axis. These stages are ideal for: Pick-and-place, parts transfer, water jet cutting, laser cutting and laser etching, inspection, testing, packaging, and assembly applications.

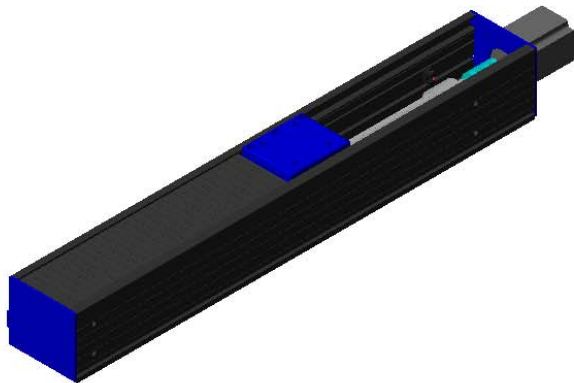
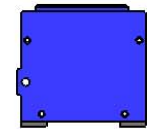
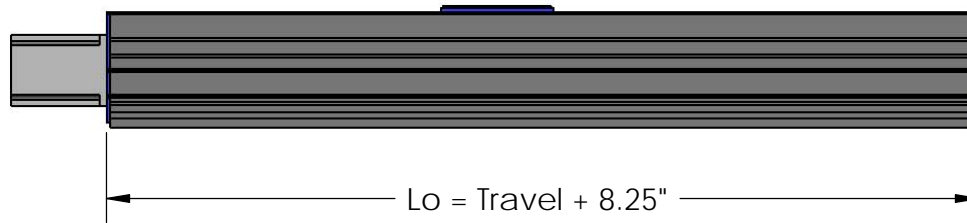
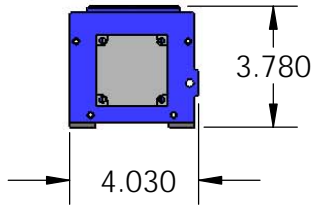
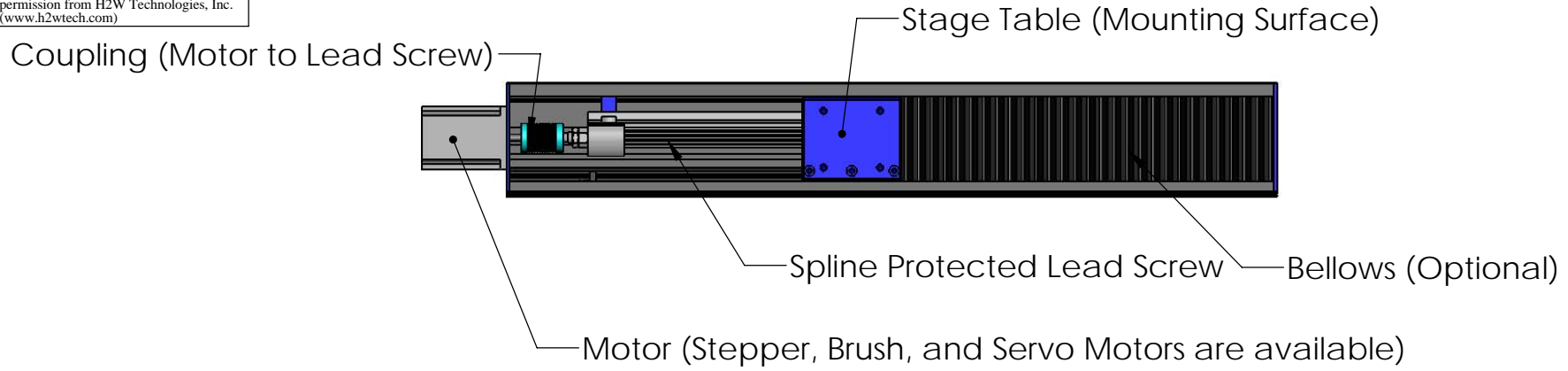
Designed for loads up to 100 lbs. (45 Kg) and speeds to 30 in/sec. (762 mm/sec) the stages can be specified in compound multi-axis configurations such as an X-Y-Z axis gantry robot. To suit the requirements of an application a variety of stepper motors, DC brush and brushless motors, or AC motors can be mounted to the stage.

Options to enhance performance and ease integration into a new or existing application are: Custom drilled and/or tapped holes in the stage and/or carriage, end of travel limit switches which can disable the amplifier, linear encoder, cable carrier, and protective bellows.

To find similar products please visit our website at: <http://www.h2wtech.com>.

For help with this product, or selecting the proper linear motion product for your application please call us at 888.702.0540 or e-mail us at [info@h2wtech.com](mailto:info@h2wtech.com).

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UNLESS SPECIFIED OTHERWISE:  
All dimensions are in inches  
Standard Tolerances are as follows  
.XXX ±.005 ANGLES ±1°  
.XX ±.010 FILLETS .010  
.X ±.020 CORNERS .010  
Remove All Burrs and Sharp Edges

MATERIAL			
FINISH			
DRAWN	DATE	APPROVED	DATE
OOG	1-12-05	MPW	1-12-05

**TITLE** Spline Shaft Screw Driven Positioning Stage

<b>DWG #</b> 44-0043	<b>REV</b>	<b>SHEET</b> 1 of 1
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