

Signature Motion SlickStick

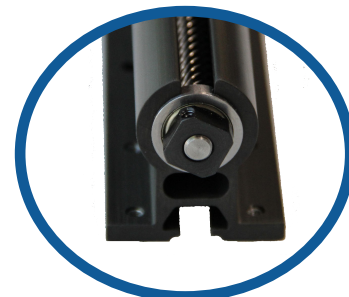
Bishop-Wisecarver is excited to offer our newest version of the SlickStick linear actuator. Our entry level actuator has been re-imagined and designed with the end user's time and ease in mind. Featuring an elegant and simplified single-piece base extrusion that allows for both easy and flexible mounting as well as internal slot for cable routing, SlickStick can just as easily be used in a DIY home project as it can be used for a dusty packaging application. We don't want you to struggle with any of the typical challenges that come with buying an actuator anymore. SlickStick can be purchased with a motor and is equipped with an exciting and user-friendly motor mount that is capable of accepting either a NEMA 17 or a NEMA 23 motor. Aren't you ready for an out of the box, plug and play actuated system?

- **Travel ranges from 6" to 48"**
- **Painless limit sensor position adjustment**
- **Stainless steel lead screw with 0.5" or 1.0" lead**
- **Excellent stiffness and rigidity in a small footprint**
- **Easy repair and component replacement**
- **Adaptable mounting for NEMA 17 or NEMA 23 motors**
- **Optional home and travel limit sensors**
- **Simplified time-saving design**



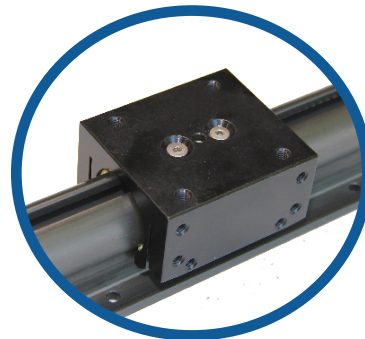
New Base Extrusion

- **Lower complexity** single-piece design that eliminates expensive tube grinding
- **Easy and flexible** mounting with t-slot feature on underside
- **More clearance for mounting fasteners** with taller centerline
- **Lighter weight extrusion** with internal voids for cable routing



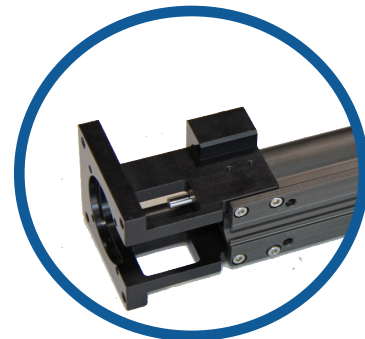
Improved Carriage Design

- **Field adjustable preload** to the linear tube with fewer adjustments
- **Lower parts count** with one sliding element liner instead of four
- **Simplified travel** sensor features with integrated sensor target
- **Serviceable design** with replaceable bearing liner and lead screw nut



Optimized Motor Mount

- **Reduced parts count and complexity** with integrated motor mount
- **Easy motor attachment** with support for NEMA 17 and NEMA 23 frames
- **Integrated sensor mount** for optional end of travel home sensor
- **Complete your project faster** with motor ready mount



Lead Screw Drive Elements

- **Fully assembled and adjusted** lead screw drive elements
- **Reduced screw whip** due to tensioned lead screw design
- **High speed and long travel lengths** with your choice of lead screw pitch



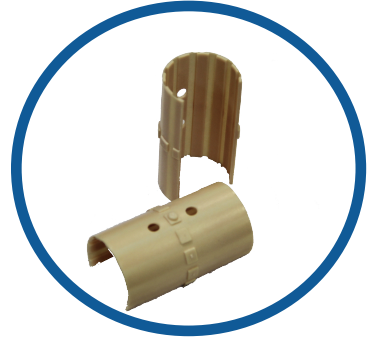
Travel Limit Sensors

- **Reduced parts count and complexity** with integrated motor mount design
- **Easy motor attachment** with support for NEMA 17 and NEMA 23 frames
- **Integrated sensor mount** for optional end of travel home sensor
- **Complete your project faster** with motor ready mount



Repair Kit for Service

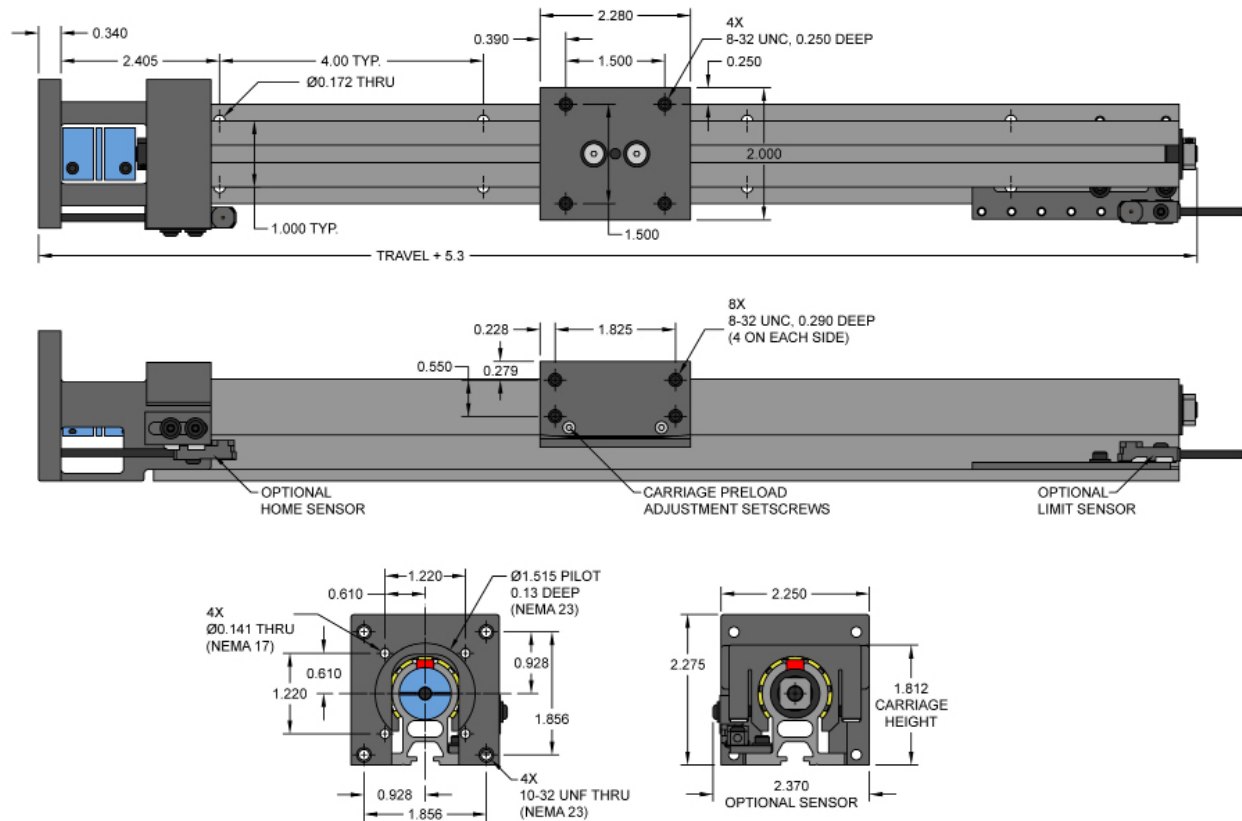
- **Field adjustable preload** to the linear tube with fewer adjustments
- **Lower parts count** with one sliding element liner instead of four
- **Simplified travel** sensor features with integrated sensor target
- **Serviceable design** with replaceable bearing linear and lead screw nut



SLK	A	Txx	U	HL	Mxxx
①	②	③	④	⑤	⑥

Notes:
Travel Lengths: 06, 12, 18, 24, 30, 36, 42, 48. Unavailable in custom travel lengths.
Designed to accept NEMA17 or NEMA23 motor.

①	Part ID:	SLK
②	Version:	A
③	Travel (in inches):	Travel xx = 06, 12, 18, 24, 30, 36, 42, 48 inches
④	Screw Lead:	U = .500"; W = 1.000" Lead
⑤	Home & Limit Switches:	NN = None, HL = Home & Limit, XY = Home & Limit Mount
⑥	Motor Assembly:	Blank = None; Mxxx = Motor Choice from Chart Below



Load Information

SLICKSTICK (SLKA) LOAD CAPACITY

Load Direction		Metric	Imperial
Load Capacity Downward	L_{A1}	133N/556N	30lbf/125 lbf*
Load Capacity Upward	L_{A2}	133N/266N	30lbf/60 lbf
Load Capacity	L_R	133N/556N	30lbf/125 lbf
Pitch Moment Capacity	M_P	1.69 N-m	15 in-lbf**
Yaw Moment Capacity	M_Y	3.73 N-m	33 in-lbf**
Roll Moment Capacity	M_R	1.36 N-m	12 in-lbf**
Thrust Load	0.5"Lead	227 N	51 lbf
	1.0"Lead	125 N	28 lbf

*30lbf is the maximum load capacity if the carriage is not externally supported against rolling. The higher load capacities are possible if the carriage is externally supported.

**It is recommended that offset loads be located 5 inches or less from the center of the carriage. When the loads are offset at greater distances, the carriage can vibrate during travel.

