SLIDETECH

Custom Low Friction and No Lube Solutions Made to Your Specifications for Prototypes, OEM's and Repairs

- *Round Shaft Bearings*
- *Square Shaft Bearings*
- *Profile Rail Bearings*
- *Spline Shaft Nuts*
- *Split Bushings*
- *Polygon Shaft Nuts*
- *Custom Screw Nuts*
- *Dove Tail Ways*
- *Linear Ways*

SLIDETECH

Customizable to any thread and any rail!

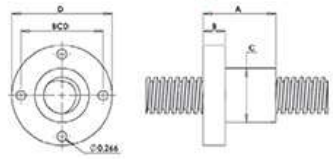
SLIDENUTS

- **High Efficiency Nuts.** Can be up to twice as efficient as traditional bronze nuts.
- **Customizable.** Can make housings to any shape, material or mounting configuration.
- **Accurate.** Up to 4 times more accurate and less clearance than bronze nuts.
- **NO NOISE.** SlideNuts deaden noise, don't squeal and have no ball chatter.
- **Flexible.** Can be molded to any screw thread, diameter, pitch or lead.
- **NO LUBE.** Standard application requires no lubrication.

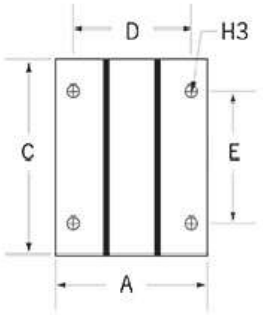
SlideNut

Size Thread	Nut Length A	Flange Length B	Nut OD C	Flange OD D	BCD	Bolt Holes Diameter (4)	Lead*	Load lbs Steel Housing	Alum Housing
1/4"	1.000	0.490	0.688	1.600	1.125	0.266	.200/.400	350	225
3/8"	1.000	0.490	0.688	1.600	1.125	0.266	.200/.400	700	525
1/2"	1.000	0.490	1.125	2.600	2.090	0.266	.200/.400	1250	925
5/8"	1.250	0.490	1.125	2.600	2.090	0.266	.200/.400	1950	1450
3/4"	1.500	0.610	1.125	2.600	2.090	0.266	.200/.400	2800	2100
7/8"	2.000	0.610	1.500	2.760	2.260	0.266	.200/.400	3800	2850
1"	2.000	0.610	1.500	2.760	2.260	0.266	.200/.400	5050	3750

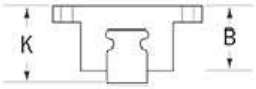
SlideNut Drawing

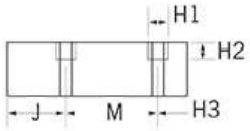


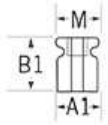
SLIDETRUCK



ST 20
GUIDE & RAIL







A	B	C	A1	B1	C1	D	E	F	H1	H2	H3	J	K	M
2.482	.960	3.0	.78	.730	.862	2.00	2.00	.715	.33	.30	.202	1.0	1.181	2.00

Emergency repair for any OEM linear guide!

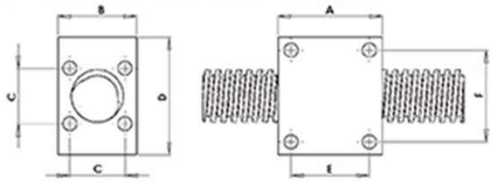
SLIDETECH

Economy SlideNuts, Bearings and Shaft Supports

Thread or Shaft Size	A	B	C	D	E	F	Bolt Hole Diameters	Lead*	Load lbs.
1/4"	1.000	0.688	0.486	0.750	0.500	0.560	0.125	.200/.400	225
3/8"	1.000	0.688	0.486	0.750	0.500	0.560	0.125	.200/.400	525
1/2"	1.500	1.250	0.795	1.750	0.750	1.250	0.200	.200/.400	925
5/8"	1.500	1.250	0.795	1.750	0.750	1.250	0.200	.200/.400	1450
3/4"	1.500	1.250	1.061	2.000	0.750	1.560	0.200	.200/.400	2100
7/8"	2.000	1.500	1.061	2.000	0.750	1.560	0.266	.200/.400	2850
1"	2.000	1.500	1.061	2.000	0.750	1.560	0.266	.200/.400	3750

* 5 pitch is our standard and most economical lead. However, it can be made to any thread, pitch or lead.
Standard housing material: Aluminum

Economy SlideNut Drawing



Benefits of using Low Friction Polymer Materials (LFPM)

- High load/high compression strength. 19,000 PSI.
- Low Friction. Documented coefficients of friction from 0.050 to .115.
- Deadens vibration and noise. Vibration attenuation 25 times better than steel.
- Non seizing machine failures. Predictable use and wear.
- Tough and solid in wicked environments. Resists most contaminants, coolants and wash downs.
- Standard temperature can withstand up to 180 deg. F surface temperature.
- High Temperature LFPM available that can withstand up to 400 deg. F surface temperature.
- Precision/Accuracy. Zero Shrinkage and Mirror Image capability replicates mating surfaces.
- High Shock Loads.
- LOW COST. LFPM solutions are a low-cost option for Emergency or Designed Applications.
- NO LUBE.

SLIDETECH Geek Sheet

Technical Data of Low Friction Polymer Matrix (LFPM)

- Compressive Strength ASTM C-109 22,750 psi
- Coefficient of Thermal Expansion 40 X 10 – 6
- Linear Shrinkage ASTM D2566 .0003 in/in
- Adhesive Bond Strength 2060 psi
- Hardness Shored 86-87
- Tensile Strength 1848 psi
- E-Modulus 895860 psi
- Max Operating Temp. 180 Degrees F

Technical Data of Low Friction Polymer Matrix (LFPM)

Bearing Material	Rated PV for Continuous operation*	Dynamic Dry Coefficient against steel
Virgin TFE	Under 1,000	0.09-0.21
RULON LD	15,000-20,000	0.12-0.19
LFPM	10,000-40,000	0.12-0.20
25% Glass Filled TFE	5,000-10,000	0.15-0.25
15% Graphite Filled TFE	1400	0.15-0.19
25% Carbon Filled TFE	4300	0.14-0.16
Virgin FEB	Under 1,000	0.40-0.70
10% Glass Filled FEP	2000	0.30-0.50
TFE Fabric	**3,000	0.04-0.30
Nylon	1,000-2,000	0.15-0.50
Delrin	1,000-2,000	0.18-0.50
Phenolic Laminate	Under 1,000	0.30-0.70
Porous Bronze	***25,000-50,000	***0.03-0.10

* Maximum 0.005" wear in 1000 hours (when PV is below 10,000) Higher PV ratings can be used for intermittent operation if more wear can be tolerated.
**Higher PV is permissible at very low speeds
***Lubricated

Lubrication Do's and Don'ts

- ✓ Use light spindle oil like "3 in 1" or lightweight petroleum-based grease.
- ✓ Food food grade applications, use filtered mineral oil, similar food grade oil or food grade grease on running surfaces of the guide bar or the lead screw.
- ✓ Normal lubrication schedule:
  - ✓ Once every 40 cycling hours or start up if long period of idle.
    - ✓ Lube running surfaces and cycle two to three times
    - ✓ Wipe off extra lubrication
    - ✓ Resume normal cycling
  - ✓ For soap or chemical washdown applications:
    - ✓ Rinse off slide with clean water
    - ✓ Re-lube running surfaces
    - ✓ Cycle unit two to three times
    - ✓ Wipe off extra lubrication
    - ✓ Resume normal cycling

- X DO NOT use spray or aerosol lubricants like WD40 that have penetrants
- X DO NOT use lubricants containing Teflon, fluorocarbons, silicon, or graphite
- X Use of the above will create gummy substances and may cause the LFPM material to swell thus increasing friction and potential seizing of the motion