

# **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

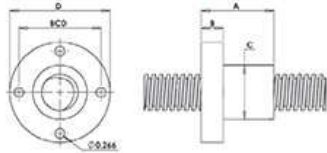
## SLIDENUTS

- ≡ **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.

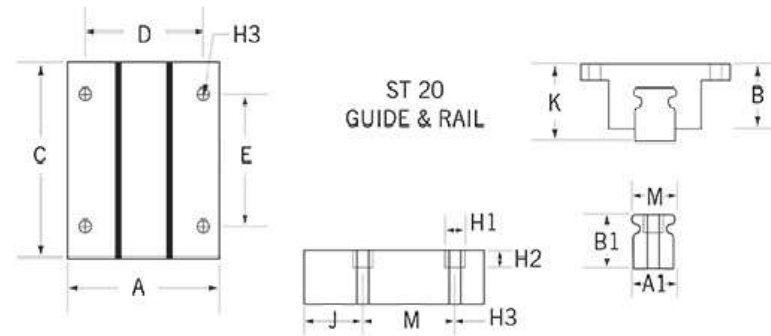
### SlideNut

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



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

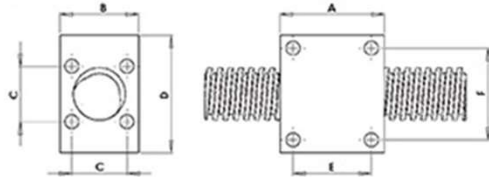
# SLIDETECH

## 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.

## Technical Data of Low Friction Polymer Matrix (LFPM)

- Compressive Strength ASTM C-109 22,750 psi
- Coefficient of Thermal Expansion  $40 \times 10^{-6}$
- 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)

<b>Bearing Material</b>	<b>Rated PV for Continuous operation*</b>	<b>Dynamic Dry Coefficient against steel</b>
Virgin TFE	Under 1,000	0.09-0.21
RULON LD	15,000-20,000	0.12-0.19
<b>LFPM</b>	<b>10,000-40,000</b>	<b>0.12-0.20</b>
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