

**16** **2** **6** **06** - **CP0** - **0** - **S005** - **M02** - **C155** - **L01** - **E00** - **B00**

**Table Series**

**Number of Bearings**

**2** - 2 bearings      **4** - 4 bearings

**Carriage Length**

**6** - 6 inches

**Travel Length** (see page E-6)

**06** - 6 to 60 inches

**Cover Plate**

**CP0** - no cover plate

**Carriage Inserts** (see page E-7)

**0** - T-slot mount

**Screw Options** (see pages E-30 to E-35)

*Rolled ball screws*

**S005** - .625 x .200 NPL  
**S006** - .625 x .200 PL  
**S007** - .625 x .200 NPL(T)  
**S008** - .625 x .200 PL(T)  
**S009** - .625 x 1.000 NPL  
**S010** - .625 x 1.000 PL  
**S011** - .625 x 1.000 NPL(T)  
**S012** - .625 x 1.000 PL(T)  
**S013** - .750 x .200 NPL  
**S014** - .750 x .200 PL  
**S015** - .750 x .200 NPL(T)  
**S016** - .750 x .200 PL(T)

*Rolled ball screws*

**S017** - .750 x .500 NPL  
**S018** - .750 x .500 PL  
**S019** - .750 x .500 NPL(T)  
**S020** - .750 x .500 PL(T)

*Ground ball screws*

**S212** - .625 x .200 PL  
**S213** - .625 x .500 PL  
**S214** - 16 x 5 PL  
**S215** - 16 x 16 PL

*Rolled acme screws*

**S300** - .625 x .100 NPL  
**S301** - .625 x .100 PL  
**S302** - .625 x .200 NPL  
**S303** - .625 x .200 PL

*Precision ball screws*

**S114** - .625 x .200 NPL  
**S115** - .625 x .200 PL  
**S116** - 16 x 5 NPL  
**S117** - 16 x 5 PL  
**S118** - 16 x 10 NPL  
**S119** - 16 x 10 PL  
**S120** - 16 x 16 NPL  
**S121** - 16 x 16 PL  
**S122** - .750 x .200 NPL  
**S123** - .750 x .200 PL  
**S124** - 20 x 5 NPL  
**S125** - 20 x 5 PL  
**S128** - 20 x 20 NPL  
**S129** - 20 x 20 PL

**S999** - other

**Motor Mount** (see pages E-7, E-68 to E-69)

**M00** - none      **M02** - NEMA 23 mount (E)      **M06** - NEMA 23 (RH) wrap  
**M01** - hand crank      **M03** - NEMA 23 mount (M)      **M07** - NEMA 23 (LH) wrap  
**M20 to M98** - see Website      **M04** - NEMA 34 mount (E)      **M08** - NEMA 34 (RH) wrap  
**M99** - other      **M05** - NEMA 34 mount (M)      **M09** - NEMA 34 (LH) wrap

**Coupling Options** (see pages E-66 to E-67)

**C000** - none      **C025 to C030** - C100      **C130 to C136** - H100      **C407 to C415** - G100  
**C999** - other      **C048 to C069** - C125      **C155 to C184** - H131      **C435 to C464** - G126  
                                                                                 **C197 to C199** - H163      **C470 to C480** - G158

**Limit & Home Switches** (see pages E-63 to E-65)

**L00** - no switches      Mechanical      Reed      Hall      Prox (NPN)      Prox (PNP)  
**L99** - other      EOT & home switches      **L01**      **L04**      **L07**      **L10**      **L13**  
                                 EOT switches only      **L02**      **L05**      **L08**      **L11**      **L14**  
                                 home switch only      **L03**      **L06**      **L09**      **L12**      **L15**

**Encoder Options** (see page E-71)

**E00** - none      **E02** - rotary (1000 lines/rev)      **E10** - linear (2500 lines/inch)      **E99** - other  
**E01** - rotary (500 lines/rev)      **E03** - rotary (1270 lines/rev)      **E11** - linear (125 lines/mm)

**Power-off Brakes** (see page E-70)

**B00** - none      **B01** - 24 VDC      **B02** - 90 VDC      **B99** - other

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Non-Preloaded  
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 Right Hand  
 Turcite Nut

(E) - English Interface  
 (LH) - Left Hand  
 (M) - Metric Interface

### Specifications

Load Capacities		Two (2) Bearing Carriage		Four (4) Bearing Carriage	
<b>Dynamic Horizontal</b>	2 million inches (50 km) of travel	3,890 lbs	( 1765 kgf)	7,780 lbs	( 3530 kgf)
<b>Dynamic Horizontal</b>	50 million inches (1270 km) of travel	1,045 lbs	( 474 kgf)	2,090 lbs	( 948 kgf)
<b>Static Horizontal</b>		5,830 lbs	( 2645 kgf)	11,660 lbs	( 5290 kgf)
<b>Dynamic Roll Moment</b>	2 million inches (50 km) of travel	510 ft-lbs	( 690 N-m)	1,025 ft-lbs	( 1390 N-m)
<b>Dynamic Roll Moment</b>	50 million inches (1270 km) of travel	137 ft-lbs	( 185 N-m)	275 ft-lbs	( 370 N-m)
<b>Static Roll Moment</b>		915 ft-lbs	( 1240 N-m)	1,830 ft-lbs	( 2480 N-m)
<b>Dyn. Pitch &amp; Yaw Moment</b>	2 million inches (50 km) of travel	71 ft-lbs	( 96 N-m)	930 ft-lbs	( 1260 N-m)
<b>Dyn. Pitch &amp; Yaw Moment</b>	50 million inches (1270 km) of travel	19 ft-lbs	( 26 N-m)	250 ft-lbs	( 339 N-m)
<b>Static Pitch &amp; Yaw Moment</b>		126 ft-lbs	( 170 N-m)	1,670 ft-lbs	( 2260 N-m)
<b>Each Bearing Dyn. Capacity</b>	2 million inches (50 km) of travel	1,945 lbs	( 882 kgf)	1,945 lbs	( 882 kgf)
<b>Each Bearing Dyn. Capacity</b>	50 million inches (1270 km) of travel	525 lbs	( 238 kgf)	525 lbs	( 238 kgf)
<b>Each Bearing Static Load Capacity</b>		2,910 lbs	( 1320 kgf)	2,910 lbs	( 1320 kgf)
<b>Thrust Force Capacity</b>	10 million screw revolutions	895 lbs	( 406 kgf)	895 lbs	( 406 kgf)
<b>Thrust Force Capacity</b>	500 million screw revolutions	240 lbs	( 109 kgf)	240 lbs	( 109 kgf)
<b>Maximum Acceleration</b>		386 in/sec <sup>2</sup>	( 9,8 m/sec <sup>2</sup> )	772 in/sec <sup>2</sup>	( 19,6 m/sec <sup>2</sup> )
<b>d<sub>1</sub></b>	Center to center distance (spread) between the two rails	3.660 in	( 92,96 mm)	3.660 in	( 92,96 mm)
<b>d<sub>2</sub></b>	Center to center distance (spacing) of the bearings on a single rail		-	3.290 in	( 83,57 mm)
<b>d<sub>r</sub></b>	Center distance of the bearing to top of carriage plate surface	1.320 in	( 33,53 mm)	1.320 in	( 33,53 mm)

Other	For Two (2) & Four (4) Bearing Carriages
<b>Table Material</b>	Base, Carriage, End Plates, & Cover Plate option - 6061 anodized aluminum
<b>Linear Rail Material</b>	Case Hardened Steel
<b>Screw Material</b> (see pages E-30 to E-35)	Acme Screw - Stainless Steel
<b>Screw Material</b> (see pages E-30 to E-35)	Rolled Ball, Precision Ball, & Ground Ball - Case Hardened Steel
<b>Straightness</b>	< 0.00016 in/in (< 4,06 microns/25mm)
<b>Flatness</b>	< 0.00016 in/in (< 4,06 microns/25mm)
<b>Orthogonality</b> (multi-axis systems)	< 30 arc-seconds
<b>Friction Coefficient</b>	< 0.01
<b>Motor Mount</b>	NEMA 23 & 34 Mounts, Metric Mounts, Motor Wraps, and Hand Crank Option
<b>Coupling</b>	Three (3) different styles available

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Specifications subject to change without notice

### Dimensions & Specifications

- With T-Slot Load Mounting -

Model Number	Travel Length inches (mm)	Table Dimensions inches (mm)		Mounting Dimensions inches (mm)		Screw Length inches (mm)	Table <sup>(1)</sup> Weight lbs (kg)
		A	B	C	M		
<b>16x606-CP0</b>	6 (150)	12.125 (308,0)	16.688 (423,9)	3	8	16.00 (406)	14.2 (6,4)
<b>16x612-CP0</b>	12 (300)	18.125 (460,4)	22.688 (576,3)	5	12	22.00 (559)	16.4 (7,4)
<b>16x618-CP0</b>	18 (455)	24.125 (612,8)	28.688 (728,7)	7	16	28.00 (711)	18.6 (8,4)
<b>16x624-CP0</b>	24 (605)	30.125 (765,2)	34.688 (881,1)	9	20	34.00 (864)	20.8 (9,4)
<b>16x630-CP0</b>	30 (760)	36.125 (917,6)	40.688 (1033,5)	11	24	40.00 (1016)	23.0 (10,4)
<b>16x636-CP0</b>	36 (910)	42.125 (1070,0)	46.688 (1185,9)	13	28	46.00 (1168)	25.2 (11,4)
<b>16x642-CP0</b>	42 (1060)	48.125 (1222,4)	52.688 (1338,3)	15	32	52.00 (1321)	27.4 (12,4)
<b>16x648-CP0</b>	48 (1215)	54.125 (1374,8)	58.688 (1490,7)	17	36	58.00 (1473)	29.6 (13,4)
<b>16x654-CP0</b>	54 (1370)	60.125 (1527,1)	64.688 (1643,0)	19	40	64.00 (1625)	31.8 (14,4)
<b>16x660-CP0</b>	60 (1520)	66.125 (1679,6)	70.688 (1795,5)	21	44	70.00 (1778)	34.0 (15,4)

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 x = 2; Carriage has 2 bearings; Carriage weight = 3.3 lbs. (1,50 kg)  
 x = 4; Carriage has 4 bearings; Carriage weight = 4.1 lbs. (1,86 kg)

#### Footnotes:

(1) Weight shown is with a 0.625 inch (16 mm) diameter screw, a NEMA 23 motor mount [0.42 lbs (0,19 kg)], a C100 style [0.09 lbs (0,04 kg)] coupling, and a 2 bearing carriage. When using a 0.750 inch (20 mm) diameter screw add 0.042 lbs per inch (0,00075 kg per mm) of screw length for a given model number. When using a 4 bearing carriage add 0.8 lbs (0,36 kg) to each value.

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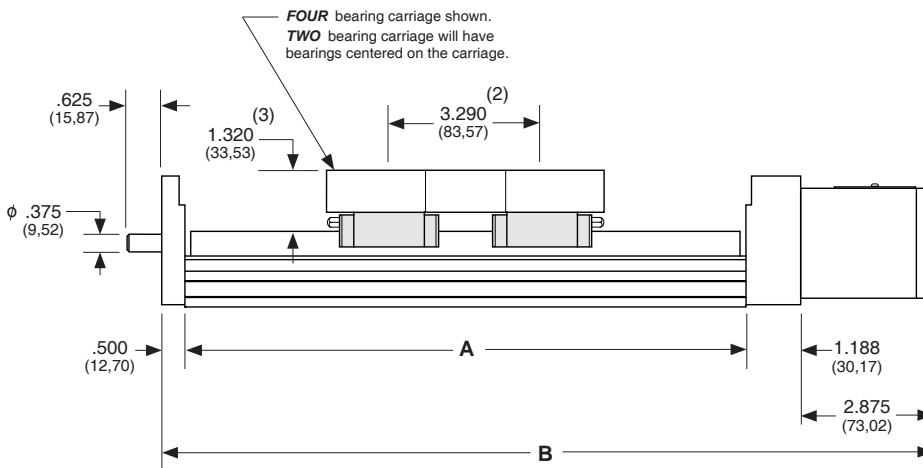
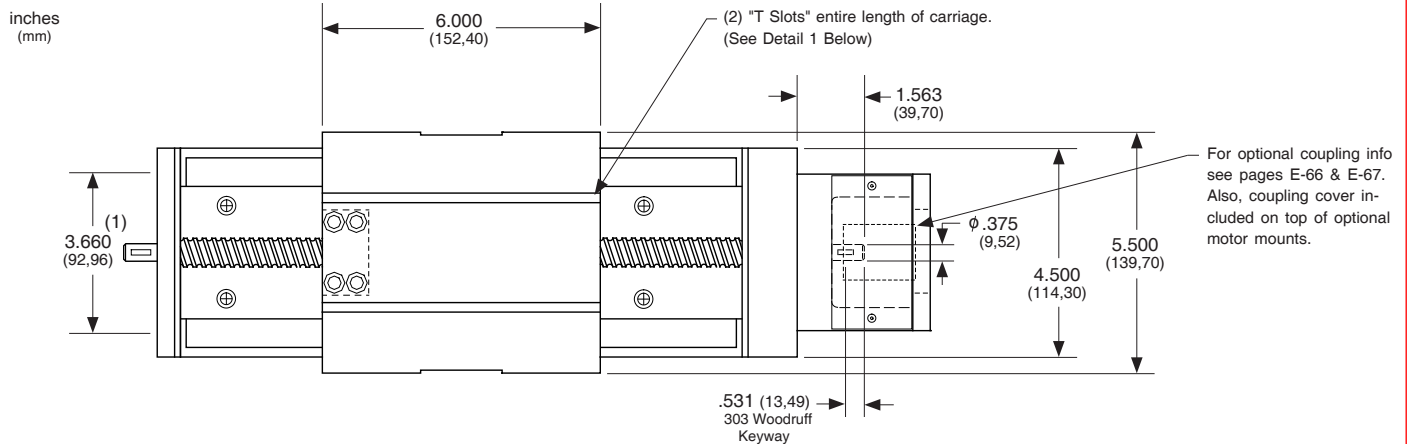
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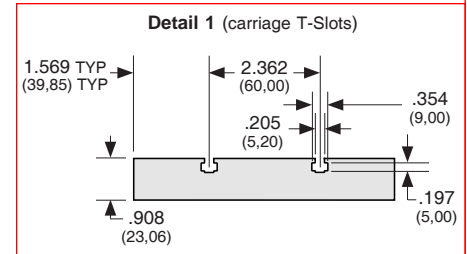
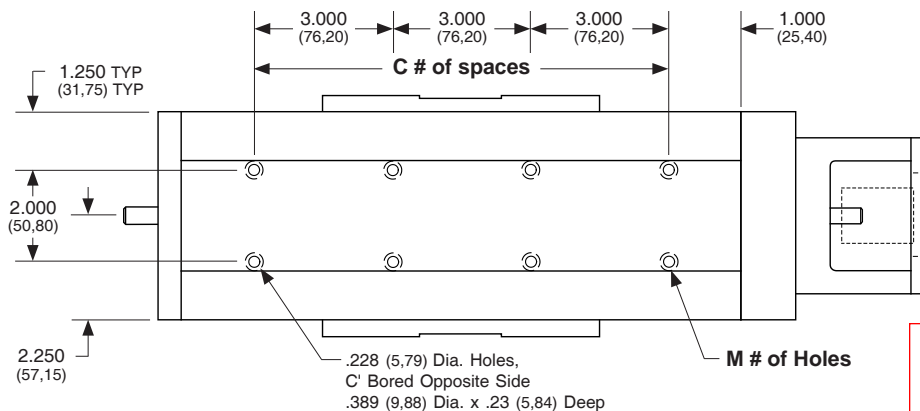
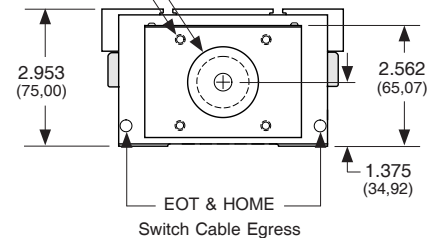
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### Dimensions

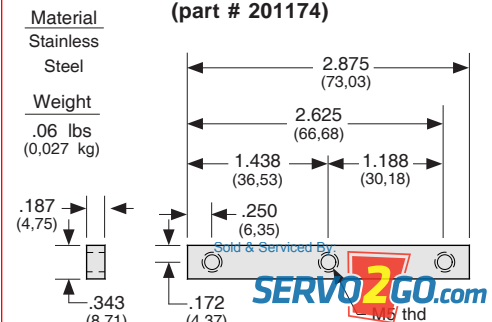
### - With T-Slot Load Mounting -



Optional NEMA 23 Motor Mount Shown:  
 (4) Holes on 2.625 (66,68) Bolt Circle Dia.  
**English Mount (M02):** #10-24 thd.  
**Metric Mount (M03):** M5 thd.  
 — 1.502 (38,15) Pilot Dia. TYP



### Carriage Fastener Rail (part # 201174)



- (1) This value is center to center distance (spread) between the two rails (d<sub>1</sub>).
- (2) This value is center to center distance (spacing) of the bearings on a single rail (d<sub>2</sub>).
- (3) This value is center distance of the bearing to top of carriage plate surface (d<sub>3</sub>).

**Note:** Any 160, 170, or 180 series table can be mounted on top of a second 160, 170 or 180 series table, in order to create X-Y multiple axis configurations. See page E-72 for optional carriage adapter plate information or contact **LINTECH** for details.

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