

15 08 06 - WC1 - 1 - S114 - M02 - C155 - L01 - E00 - B00

Table Series

Carriage Length

04 - 4 inches **08** - 8 inches

Travel Length (see pages G-6 & G-8)

06 - 6 to 62 inches

Waycovers

WC0 - with no waycovers **WC1** - with waycovers

Carriage Inserts (see pages G-7 & G-9)

1 - English mount **2** - Metric mount

Screw Options (see pages G-18 to G-23)

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

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

Ground ball screws

S212 - .625 x .200 PL
S213 - .625 x .500 PL
S214 - 16 x 5 PL
S215 - 16 x 16 PL
S216 - .750 x .200 PL
S217 - .750 x .500 PL

Rolled acme screws

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

S999 - other

Motor Mount (see pages G-7 & G-9, G-26 to G-27)

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
M99 - other **M04** - NEMA 34 mount (E) **M08** - NEMA 34 (RH) wrap
M05 - NEMA 34 mount (M) **M09** - NEMA 34 (LH) wrap

Coupling Options (see pages G-24 to G-25)

C000 - none **C025 to C029** - C100 **C130 to C134** - H100 **C407 to C413** - G100
C999 - other **C048 to C055** - C125 **C155 to C164** - H131 **C435 to C444** - G126

Limit & Home Switches (see pages G-15 to G-17)

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 G-29)

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 G-28)

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



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Specifications Subject to Change Without Notice

(E) - English Interface (NPL) - Non Preloaded
(LH) - Left Hand (PL) - Preloaded
(M) - Metric Interface (RH) - Right Hand
(T) - Turcite Nut

Specifications

Load Capacities		4 inch (2 bearing) Carriage		8 inch (4 bearing) Carriage	
Dynamic Horizontal	2 million inches (50 km) of travel	1,900 lbs	(862 kg)	3,800 lbs	(1724 kg)
Dynamic Horizontal	50 million inches (1270 km) of travel	645 lbs	(293 kg)	1,290 lbs	(585 kg)
Static Horizontal		3,400 lbs	(1542 kg)	6,800 lbs	(3084 kg)
Dynamic Roll Moment	2 million inches (50 km) of travel	285 ft-lbs	(386 N-m)	575 ft-lbs	(780 N-m)
Dynamic Roll Moment	50 million inches (1270 km) of travel	98 ft-lbs	(133 N-m)	196 ft-lbs	(266 N-m)
Static Roll Moment		515 ft-lbs	(698 N-m)	1,030 ft-lbs	(1396 N-m)
Dyn. Pitch & Yaw Moment	2 million inches (50 km) of travel	56 ft-lbs	(76 N-m)	700 ft-lbs	(949 N-m)
Dyn. Pitch & Yaw Moment	50 million inches (1270 km) of travel	19 ft-lbs	(26 N-m)	239 ft-lbs	(324 N-m)
Static Pitch & Yaw Moment		100 ft-lbs	(136 N-m)	1,255 ft-lbs	(1702 N-m)
Each Bearing Dyn. Capacity	2 million inches (50 km) of travel	950 lbs	(431 kg)	950 lbs	(431 kg)
Each Bearing Dyn. Capacity	50 million inches (1270 km) of travel	323 lbs	(147 kg)	323 lbs	(147 kg)
Each Bearing Static Load Capacity		1,700 lbs	(771 kg)	1,700 lbs	(771 kg)
Thrust Force Capacity	10 million screw revolutions	895 lbs	(406 kg)	895 lbs	(406 kg)
Thrust Force Capacity	500 million screw revolutions	240 lbs	(109 kg)	240 lbs	(109 kg)
Maximum Acceleration		386 in/sec ²	(9,8 m/sec ²)	772 in/sec ²	(19,6 m/sec ²)
d₁	Center to center distance (spread) between the two rails	4.300 in	(109,2 mm)	4.300 in	(109,2 mm)
d₂	Center to center distance (spacing) of the bearings on a single rail		-	4.900 in	(124,5 mm)
d_r	Center distance of the bearing to top of carriage plate surface	1.250 in	(31,8 mm)	1.250 in	(31,8 mm)

Other	For 4 inch (2 bearing) & 8 inch (4 bearing) Carriages
Table Material	Base, Carriage, End Plates, & Cover Plate option - 6061 anodized aluminum
Linear Rail Material	Case Hardened Steel
Screw Material (see pages G-18 to G-23)	Acme Screw - Stainless Steel
Screw Material (see pages G-18 to G-23)	Rolled Ball, Precision Ball, & Ground Ball - Case Hardened Steel
Straightness	< 0.00004 in/in (< 1,02 microns/25mm)
Flatness	< 0.00004 in/in (< 1,02 microns/25mm)
Orthogonality (multi-axis systems)	< 15 arc-seconds
Friction Coefficient	< 0.01
Motor Mount	NEMA 23 & 34 Mounts, Metric Mounts, Motor Wraps, and Hand Crank Option
Coupling	Three (3) different styles available
Waycover Material	Hypilon Polyester Bellows firmly mounted to carriage & end plates

Dimensions & Specifications

- Without Waycovers -

Model Number	Travel Length inches (mm)	Table Dimensions inches (mm)		Mounting Dimensions inches (mm)			Screw Length inches (mm)	Table ⁽¹⁾ Weight lbs (kg)
		A	B	C	D	M		
150408-WC0	8 (200)	13.62 (345,9)	16.12 (409,4)	1.190 (30,2)	3	8	15.28 (388)	21.9 (9,9)
150416-WC0	16 (400)	21.25 (539,7)	23.75 (603,2)	1.250 (31,7)	5	12	22.91 (582)	28.4 (12,9)
150423-WC0	23 (580)	28.75 (730,2)	31.25 (793,7)	1.250 (31,7)	7	16	30.41 (772)	33.9 (15,4)
150431-WC0	31 (785)	36.50 (927,1)	39.00 (990,6)	1.380 (35,1)	9	20	38.16 (969)	40.3 (18,3)
150439-WC0	39 (990)	44.25 (1123,9)	46.25 (1174,7)	1.500 (38,1)	11	24	45.91 (1166)	46.8 (21,2)
150446-WC0	46 (1165)	51.75 (1314,4)	54.25 (1377,9)	1.500 (38,1)	13	28	53.41 (1357)	53.3 (24,2)
150462-WC0	62 (1570)	67.25 (1708,1)	69.75 (1771,6)	1.750 (44,4)	17	36	68.91 (1750)	66.2 (30,0)
150808-WC0	8 (200)	17.62 (447,5)	20.12 (511,0)	3.190 (81,0)	3	8	19.28 (490)	24.9 (11,3)
150816-WC0	16 (400)	25.25 (641,3)	27.75 (704,8)	3.250 (82,5)	5	12	26.91 (684)	31.4 (15,0)
150823-WC0	23 (580)	32.75 (831,8)	35.25 (895,3)	3.250 (82,5)	7	16	34.41 (874)	37.9 (17,2)
150831-WC0	31 (785)	40.50 (1028,7)	43.00 (1092,2)	3.380 (85,8)	9	20	42.16 (1071)	44.3 (20,1)
150839-WC0	39 (990)	48.25 (1225,5)	50.75 (1289,0)	3.500 (88,9)	11	24	49.91 (1268)	50.8 (23,1)
150846-WC0	46 (1165)	55.75 (1416,0)	58.25 (1479,5)	1.625 (41,1)	14	30	57.41 (1458)	57.3 (26,0)
150862-WC0	62 (1570)	71.25 (1809,7)	73.75 (1873,2)	1.875 (47,6)	18	38	72.91 (1852)	70.2 (31,8)

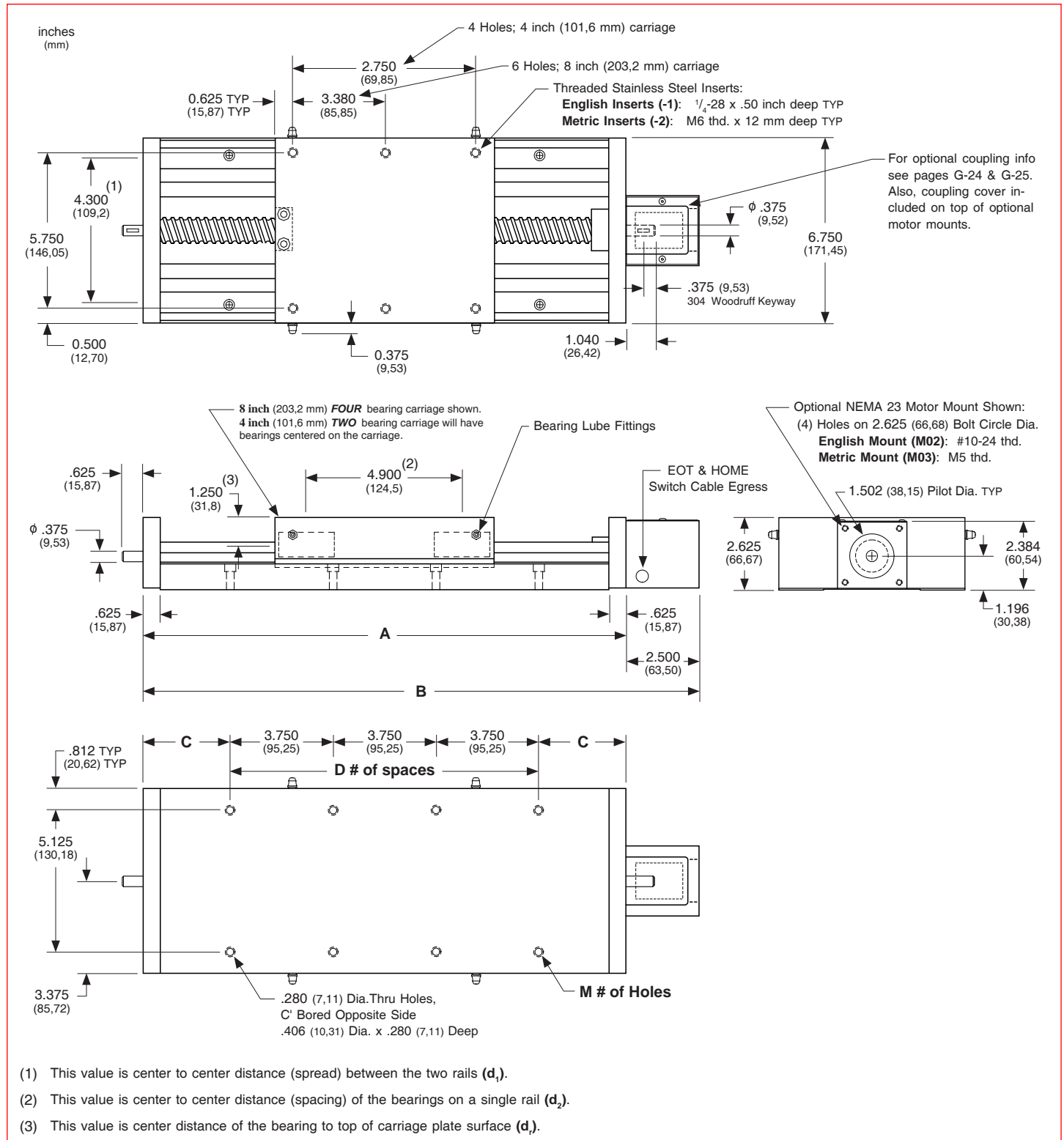
- 04 = 4 inch (101,6 mm) carriage length; 2 bearings; carriage weight = 4.0 lbs. (1,81 kg)
- 08 = 8 inch (203,2 mm) carriage length; 4 bearings; carriage weight = 7.0 lbs. (3,17 kg)

Footnotes:

(1) Weight shown is with a 0.625 inch (16 mm) diameter screw, a NEMA 23 motor mount [0.34 lbs (0,16 kg)], and a C100 style [0.09 lbs (0,04 kg)] coupling. 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.

Dimensions

- Without Waycovers -



Note: Any 150 series table can be mounted on top of any second 150 series, in order to create X-Y multiple axis configurations. The carriage's threaded stainless steel insert hole pattern DOES NOT exactly match the base mounting hole pattern on each table, therefore machining of the bottom axis carriage plate is required. Contact **LINTECH**.

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		A	B	C	D	M		
150406-WC1	6 (150)	13.62 (345,9)	16.12 (409,4)	1.190 (30,2)	3	8	15.28 (388)	23.0 (10,4)
150412-WC1	12 (300)	21.25 (539,7)	23.75 (603,2)	1.250 (31,7)	5	12	22.91 (582)	30.0 (13,6)
150418-WC1	18 (455)	28.75 (730,2)	31.25 (793,7)	1.250 (31,7)	7	16	30.41 (772)	36.0 (16,3)
150424-WC1	24 (605)	36.50 (927,1)	39.00 (990,6)	1.380 (35,1)	9	20	38.16 (969)	43.0 (19,5)
150430-WC1	30 (760)	44.25 (1123,9)	46.25 (1174,7)	1.500 (38,1)	11	24	45.91 (1166)	50.0 (22,7)
150436-WC1	36 (910)	51.75 (1314,4)	54.25 (1377,9)	1.500 (38,1)	13	28	53.41 (1357)	57.0 (25,8)
150448-WC1	48 (1215)	67.25 (1708,1)	69.75 (1771,6)	1.750 (44,4)	17	36	68.91 (1750)	71.0 (32,2)
150806-WC1	6 (150)	17.62 (447,5)	20.12 (511,0)	3.190 (81,0)	3	8	19.28 (490)	26.0 (11,8)
150812-WC1	12 (300)	25.25 (641,3)	27.75 (704,8)	3.250 (82,5)	5	12	26.91 (684)	33.0 (15,0)
150818-WC1	18 (455)	32.75 (831,8)	35.25 (895,3)	3.250 (82,5)	7	16	34.41 (874)	40.0 (18,1)
150824-WC1	24 (605)	40.50 (1028,7)	43.00 (1092,2)	3.380 (85,8)	9	20	42.16 (1071)	47.0 (21,3)
150830-WC1	30 (760)	48.25 (1225,5)	50.75 (1289,0)	3.500 (88,9)	11	24	49.91 (1268)	54.0 (24,5)
150836-WC1	36 (910)	55.75 (1416,0)	58.25 (1479,5)	1.625 (41,1)	14	30	57.41 (1458)	61.0 (27,7)
150848-WC1	48 (1215)	71.25 (1809,7)	73.75 (1873,2)	1.875 (47,6)	18	38	72.91 (1852)	75.0 (34,0)

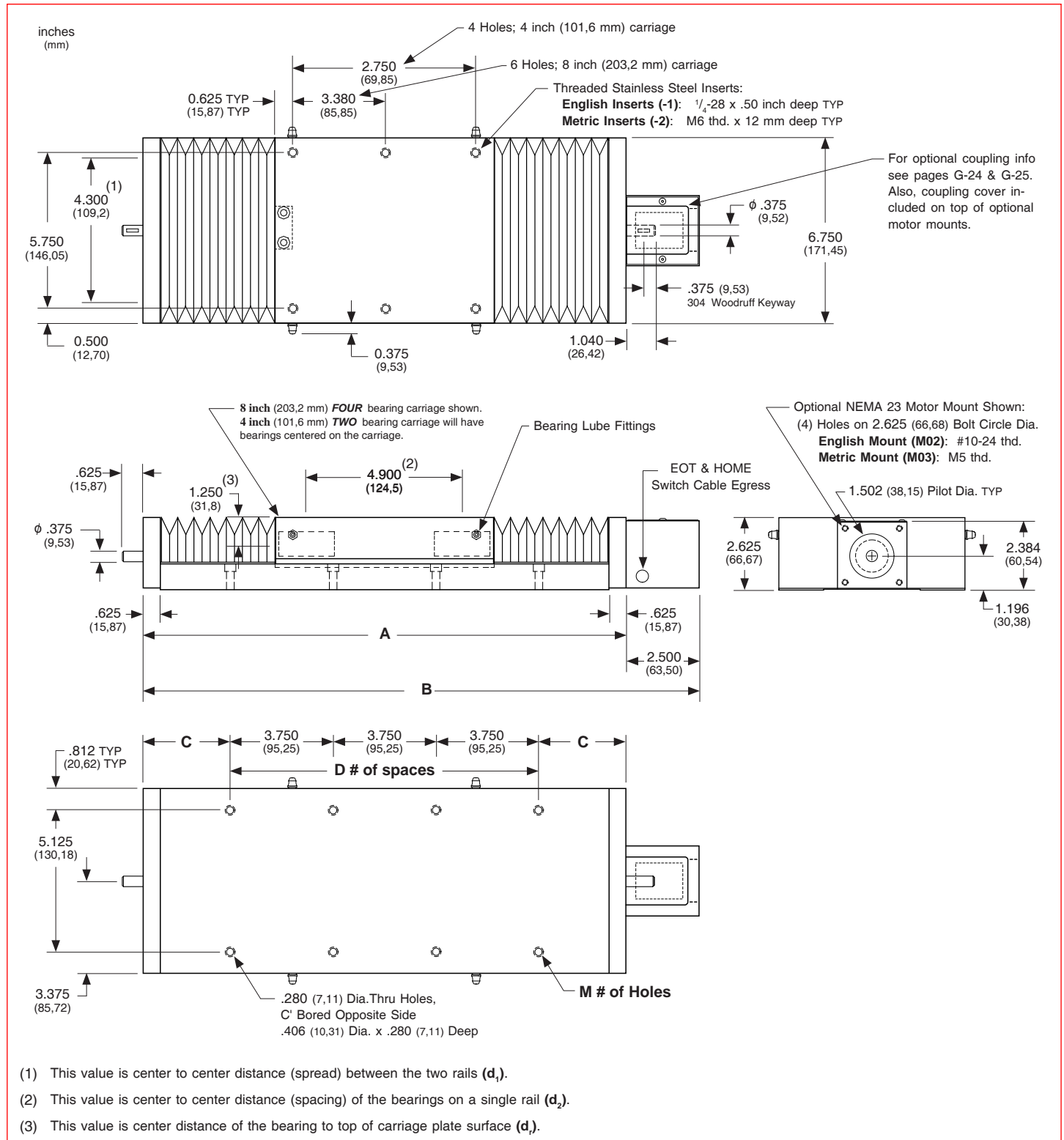
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