

25 **06** **06** - **WC1** - **1** - **S021** - **M04** - **C175** - **L01** - **E00** - **B00**

Table Series

Carriage Length

06 - 6 inches **12** - 12 inches

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

06 - 6 to 56 inches

Waycovers

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

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

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

Screw Options (see pages I-18 to I-21)

Rolled ball screws

S021 - 1.000 x .250 NPL
S022 - 1.000 x .250 PL
S023 - 1.000 x .250 NPL(T)
S024 - 1.000 x .250 PL(T)
S025 - 1.000 x .500 NPL
S026 - 1.000 x .500 PL
S027 - 1.000 x .500 NPL(T)
S028 - 1.000 x .500 PL(T)
S029 - 1.000 x 1.000 NPL
S030 - 1.000 x 1.000 PL
S031 - 1.000 x 1.000 NPL(T)
S032 - 1.000 x 1.000 PL(T)

Precision ball screws

S130 - 1.000 x .200 NPL
S131 - 1.000 x .200 PL
S132 - 25 x 10 NPL
S133 - 25 x 10 PL
S134 - 25 x 25 NPL
S135 - 25 x 25 PL

Ground ball screws

S218 - 1.000 x .200 PL
S219 - 1.000 x .500 PL
S220 - 25 x 25 PL

Rolled acme screws

S310 - 1.000 x .100 NPL
S311 - 1.000 x .100 PL
S312 - 1.000 x .200 NPL
S313 - 1.000 x .200 PL

S999 - other

Motor Mount (see pages I-7 & I-9, I-24 to I-25)

M00 - none **M04** - NEMA 34 mount (E) **M10** - NEMA 42 mount (E)
M05 - NEMA 34 mount (M) **M11** - NEMA 42 mount (M)
M08 - NEMA 34 (RH) wrap **M12** - NEMA 42 (RH) wrap
M09 - NEMA 34 (LH) wrap **M13** - NEMA 42 (LH) wrap

Coupling Options (see pages I-22 to I-23)

C000 - none **C064 to C068** - C125 **C175 to C182** - H131 **C455 to C462** - G126
C999 - other **C091 to C097** - C150 **C212 to C222** - H163 **C492 to C502** - G158

Limit & Home Switches (see pages I-15 to I-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 I-27)

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 I-26)

B00 - none **B05** - 24 VDC **B06** - 90 VDC **B99** - other

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

Specifications

| Load Capacities | | 6 inch (2 bearing) Carriage | | 12 inch (4 bearing) Carriage | |
|--|--|-----------------------------|----------------------------|------------------------------|-----------------------------|
| Dynamic Horizontal | 2 million inches (50 km) of travel | 8,300 lbs | (3765 kg) | 16,600 lbs | (7530 kg) |
| Dynamic Horizontal | 100 million inches (2540 km) of travel | 2,225 lbs | (1009 kg) | 4,455 lbs | (2020 kg) |
| Static Horizontal | | 13,600 lbs | (6169 kg) | 27,200 lbs | (12338 kg) |
| Dynamic Roll Moment | 2 million inches (50 km) of travel | 1,655 ft-lbs | (2244 N-m) | 3,310 ft-lbs | (4488 N-m) |
| Dynamic Roll Moment | 100 million inches (2540 km) of travel | 445 ft-lbs | (603 N-m) | 895 ft-lbs | (1213 N-m) |
| Static Roll Moment | | 2,715 ft-lbs | (3681 N-m) | 5,425 ft-lbs | (7355 N-m) |
| Dyn. Pitch & Yaw Moment | 2 million inches (50 km) of travel | 455 ft-lbs | (617 N-m) | 3,930 ft-lbs | (5328 N-m) |
| Dyn. Pitch & Yaw Moment | 100 million inches (2540 km) of travel | 121 ft-lbs | (164 N-m) | 1,065 ft-lbs | (1444 N-m) |
| Static Pitch & Yaw Moment | | 635 ft-lbs | (861 N-m) | 6,450 ft-lbs | (8745 N-m) |
| Each Bearing Dyn. Capacity | 2 million inches (50 km) of travel | 4,150 lbs | (1882 kg) | 4,150 lbs | (1882 kg) |
| Each Bearing Dyn. Capacity | 100 million inches (2540 km) of travel | 1,115 lbs | (505 kg) | 1,115 lbs | (505 kg) |
| Each Bearing Static Load Capacity | | 6,800 lbs | (3084 kg) | 6,800 lbs | (3084 kg) |
| Thrust Force Capacity | 10 million screw revolutions | 1,685 lbs | (764 kg) | 1,685 lbs | (764 kg) |
| Thrust Force Capacity | 500 million screw revolutions | 455 lbs | (206 kg) | 455 lbs | (206 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 | 6.000 in | (152,4 mm) | 6.000 in | (152,4 mm) |
| d₂ | Center to center distance (spacing) of the bearings on a single rail | | - | 6.730 in | (170,9 mm) |
| d_r | Center distance of the bearing to top of carriage plate surface | 2.180 in | (55,4 mm) | 2.180 in | (55,4 mm) |

| Other | For 6 inch (2 bearing) & 12 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 I-18 to I-21) | Acme Screw - Stainless Steel |
| Screw Material (see pages I-18 to I-21) | 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 | | |
| 250607-WC0 | 7.5 (190) | 15.25 (387,3) | 18.25 (463,5) | 2.370 (60,2) | 3 | 8 | 17.05 (433) | 51.8 (23,5) |
| 250614-WC0 | 14.5 (365) | 22.12 (561,8) | 25.12 (638,0) | 2.310 (58,7) | 5 | 12 | 23.92 (608) | 65.6 (29,8) |
| 250621-WC0 | 21.5 (545) | 29.25 (742,9) | 32.25 (819,1) | 2.370 (60,2) | 7 | 16 | 31.05 (789) | 80.4 (36,5) |
| 250628-WC0 | 28.5 (720) | 36.12 (917,4) | 39.12 (993,6) | 2.310 (58,7) | 9 | 20 | 37.92 (963) | 95.2 (43,2) |
| 250635-WC0 | 35.5 (900) | 43.12 (1095,2) | 46.12 (1171,4) | 2.310 (58,7) | 11 | 24 | 44.92 (1141) | 110.0 (49,9) |
| 250642-WC0 | 42.5 (1075) | 50.12 (1273,0) | 53.12 (1349,2) | 2.310 (58,7) | 13 | 28 | 51.93 (1319) | 124.8 (56,7) |
| 250656-WC0 | 56.0 (1420) | 64.00 (1625,6) | 67.00 (1701,8) | 2.250 (57,1) | 17 | 36 | 65.80 (1671) | 153.4 (69,6) |
| 251207-WC0 | 7.5 (190) | 21.25 (539,7) | 24.25 (615,9) | 1.870 (47,5) | 5 | 12 | 23.05 (585) | 76.8 (34,8) |
| 251214-WC0 | 14.5 (365) | 28.12 (714,2) | 31.12 (790,4) | 1.810 (46,0) | 7 | 16 | 29.93 (760) | 91.6 (41,5) |
| 251221-WC0 | 21.5 (545) | 35.25 (895,3) | 38.25 (971,5) | 1.870 (47,5) | 9 | 20 | 37.05 (941) | 106.4 (48,3) |
| 251228-WC0 | 28.5 (720) | 42.12 (1069,8) | 45.12 (1146,0) | 1.810 (46,0) | 11 | 24 | 43.92 (1116) | 121.2 (55,0) |
| 251235-WC0 | 35.5 (900) | 49.12 (1247,6) | 52.12 (1323,8) | 1.810 (46,0) | 13 | 28 | 50.92 (1293) | 136.0 (61,7) |
| 251242-WC0 | 42.5 (1075) | 56.12 (1425,4) | 59.12 (1501,6) | 1.810 (46,0) | 15 | 32 | 57.92 (1471) | 149.8 (67,9) |
| 251256-WC0 | 56.0 (1420) | 70.00 (1778,0) | 73.00 (1854,2) | 1.750 (44,4) | 19 | 40 | 71.80 (1824) | 179.4 (81,4) |

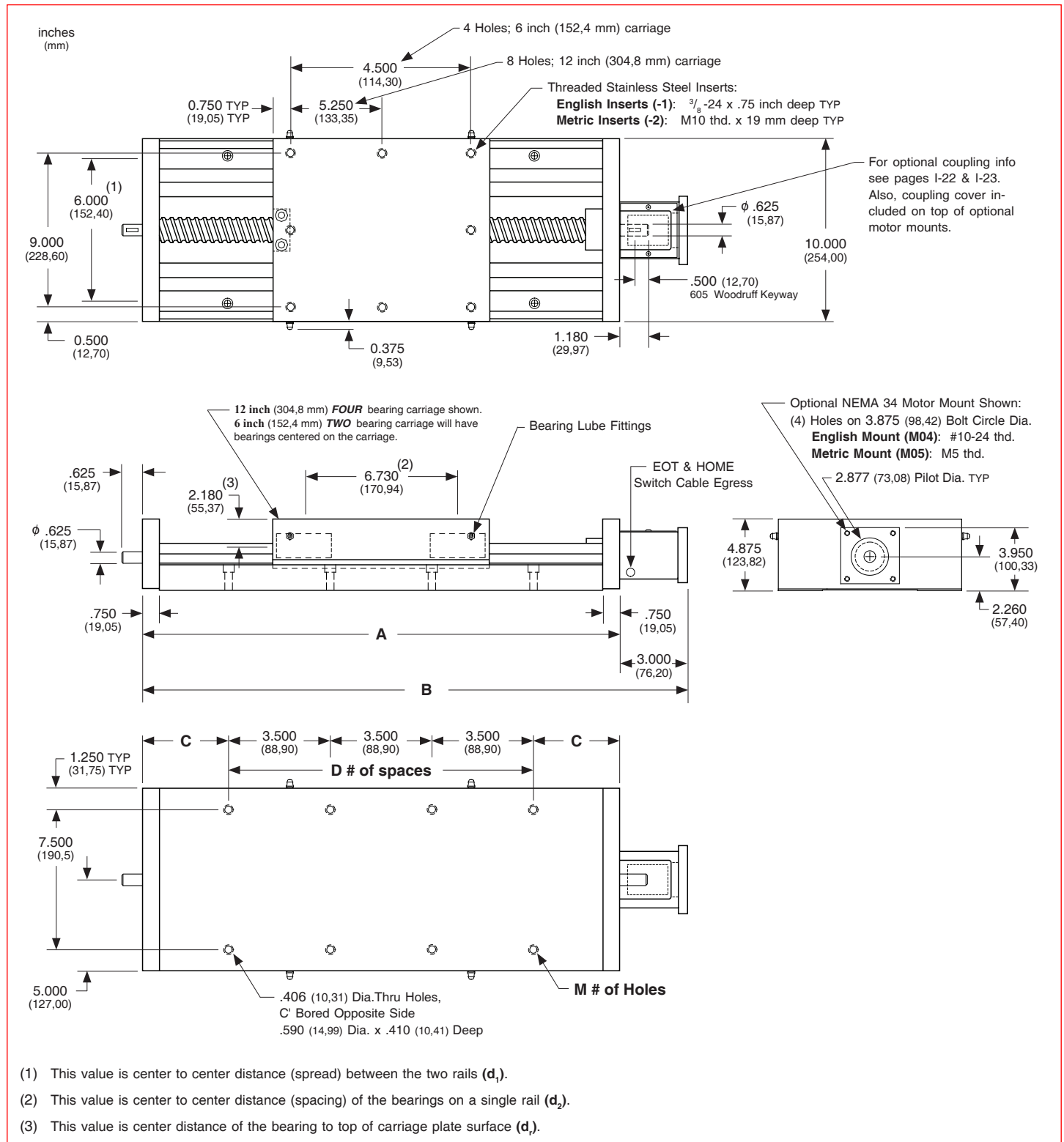
- └ 06 = 6 inch (152,4 mm) carriage length; 2 bearings; carriage weight = 14.0 lbs. (6,35 kg)
- └ 12 = 12 inch (304,8 mm) carriage length; 4 bearings; carriage weight = 26.0 lbs. (11,79 kg)

Footnotes:

(1) Weight shown is with a 1.000 inch (25 mm) diameter screw, a NEMA 34 motor mount [0.54 lbs (0,24 kg)], and a C125 style [0.22 lbs (0,10 kg)] coupling.

Dimensions

- Without Waycovers -



Note: Any 250 series table can be mounted on top of any second 250 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*.

Dimensions & Specifications

- With Waycovers -

| Model Number | Travel Length inches (mm) | Table Dimensions inches (mm) | | Mounting Dimensions inches (mm) | | | Screw Length inches (mm) | Table Weight ⁽¹⁾ lbs (kg) |
|-------------------|---------------------------------|------------------------------------|-------------------|---------------------------------------|----|----|--------------------------------|--|
| | | A | B | C | D | M | | |
| 250606-WC1 | 6 (150) | 15.25 (387,3) | 18.25 (463,5) | 2.370 (60,2) | 3 | 8 | 17.05 (433) | 54.0 (24,5) |
| 250612-WC1 | 12 (300) | 22.12 (561,8) | 25.12 (638,0) | 2.310 (58,7) | 5 | 12 | 23.92 (608) | 69.0 (31,3) |
| 250618-WC1 | 18 (455) | 29.25 (742,9) | 32.25 (819,1) | 2.370 (60,2) | 7 | 16 | 31.05 (789) | 85.0 (38,6) |
| 250624-WC1 | 24 (605) | 36.12 (917,4) | 39.12 (993,6) | 2.310 (58,7) | 9 | 20 | 37.92 (963) | 101.0 (45,8) |
| 250630-WC1 | 30 (760) | 43.12 (1095,2) | 46.12 (1171,4) | 2.310 (58,7) | 11 | 24 | 44.92 (1141) | 117.0 (53,1) |
| 250636-WC1 | 36 (910) | 50.12 (1273,0) | 53.12 (1349,2) | 2.310 (58,7) | 13 | 28 | 51.93 (1319) | 133.0 (60,3) |
| 250648-WC1 | 48 (1215) | 64.00 (1625,6) | 67.00 (1701,8) | 2.250 (57,1) | 17 | 36 | 65.80 (1671) | 164.0 (74,4) |
| 251206-WC1 | 6 (150) | 21.25 (539,7) | 24.25 (615,9) | 1.870 (47,5) | 5 | 12 | 23.05 (585) | 79.0 (35,8) |
| 251212-WC1 | 12 (300) | 28.12 (714,2) | 31.12 (790,4) | 1.810 (46,0) | 7 | 16 | 29.93 (760) | 95.0 (43,1) |
| 251218-WC1 | 18 (455) | 35.25 (895,3) | 38.25 (971,5) | 1.870 (47,5) | 9 | 20 | 37.05 (941) | 111.0 (50,3) |
| 251224-WC1 | 24 (605) | 42.12 (1069,8) | 45.12 (1146,0) | 1.810 (46,0) | 11 | 24 | 43.92 (1116) | 127.0 (57,6) |
| 251230-WC1 | 30 (760) | 49.12 (1247,6) | 52.12 (1323,8) | 1.810 (46,0) | 13 | 28 | 50.92 (1293) | 143.0 (64,9) |
| 251236-WC1 | 36 (910) | 56.12 (1425,4) | 59.12 (1501,6) | 1.810 (46,0) | 15 | 32 | 57.92 (1471) | 158.0 (71,7) |
| 251248-WC1 | 48 (1215) | 70.00 (1778,0) | 73.00 (1854,2) | 1.750 (44,4) | 19 | 40 | 71.80 (1824) | 190.0 (86,2) |

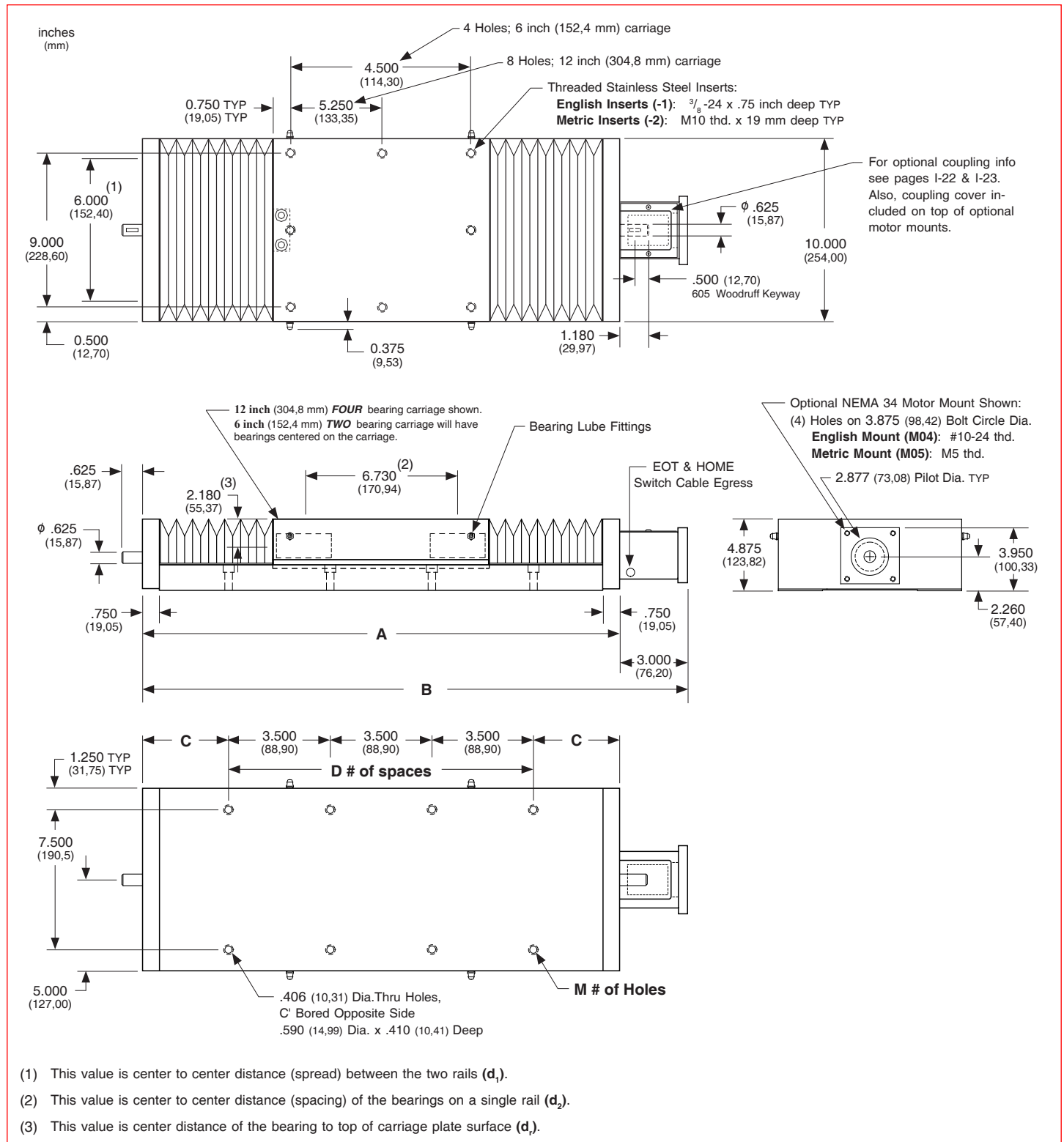
- └ 06 = 6 inch (152,4 mm) carriage length; 2 bearings; carriage weight = 14.0 lbs. (6,35 kg)
- └ 12 = 12 inch (304,8 mm) carriage length; 4 bearings; carriage weight = 26.0 lbs. (11,79 kg)

Footnotes:

(1) Weight shown is with a 1.000 inch (25 mm) diameter screw, a NEMA 34 motor mount [0.54 lbs (0,24 kg)], and a C125 style [0.22 lbs (0,10 kg)] coupling.

Dimensions

- With Waycovers -



Note: Any 250 series table can be mounted on top of any second 250 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*.