

17 **2** **6** **06** - **CP1** - **1** - **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 pages E-10, E-12, E-14 & E-16)

06 - 3 to 60 inches

Cover Plate

CP0 - no cover plates **CP1** - top cover plate only **CP2** - top & side cover plates **WC1** - waycovers

Carriage Inserts (see pages E-11, E-13, E-15 & E-17)

1 - English mount **2** - Metric 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

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

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 E-11, E-13, E-15, E-17, E-68 & 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

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

Specifications

| Load Capacities | | Two (2) Bearing Carriage | | Four (4) Bearing Carriage | |
|--|--|--------------------------|----------------------------|---------------------------|-----------------------------|
| Dynamic Horizontal | 2 million inches (50 km) of travel | 3,890 lbs | (1765 kgf) | 7,780 lbs | (3530 kgf) |
| Dynamic Horizontal | 50 million inches (1270 km) of travel | 1,045 lbs | (474 kgf) | 2,090 lbs | (948 kgf) |
| Static Horizontal | | 5,830 lbs | (2645 kgf) | 11,660 lbs | (5290 kgf) |
| Dynamic Roll Moment | 2 million inches (50 km) of travel | 510 ft-lbs | (690 N-m) | 1,025 ft-lbs | (1390 N-m) |
| Dynamic Roll Moment | 50 million inches (1270 km) of travel | 137 ft-lbs | (185 N-m) | 275 ft-lbs | (370 N-m) |
| Static Roll Moment | | 915 ft-lbs | (1240 N-m) | 1,830 ft-lbs | (2480 N-m) |
| Dyn. Pitch & Yaw Moment | 2 million inches (50 km) of travel | 71 ft-lbs | (96 N-m) | 930 ft-lbs | (1260 N-m) |
| Dyn. Pitch & Yaw Moment | 50 million inches (1270 km) of travel | 19 ft-lbs | (26 N-m) | 250 ft-lbs | (339 N-m) |
| Static Pitch & Yaw Moment | | 126 ft-lbs | (170 N-m) | 1,670 ft-lbs | (2260 N-m) |
| Each Bearing Dyn. Capacity | 2 million inches (50 km) of travel | 1,945 lbs | (882 kgf) | 1,945 lbs | (882 kgf) |
| Each Bearing Dyn. Capacity | 50 million inches (1270 km) of travel | 525 lbs | (238 kgf) | 525 lbs | (238 kgf) |
| Each Bearing Static Load Capacity | | 2,910 lbs | (1320 kgf) | 2,910 lbs | (1320 kgf) |
| Thrust Force Capacity | 10 million screw revolutions | 895 lbs | (406 kgf) | 895 lbs | (406 kgf) |
| Thrust Force Capacity | 500 million screw revolutions | 240 lbs | (109 kgf) | 240 lbs | (109 kgf) |
| 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 | 3.660 in | (92,96 mm) | 3.660 in | (92,96 mm) |
| d₂ | Center to center distance (spacing) of the bearings on a single rail | - | | 3.290 in | (83,57 mm) |
| d_r | 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 |
|--|---|
| Table Material | Base, Carriage, End Plates, & Cover Plate option - 6061 anodized aluminum |
| Linear Rail Material | Case Hardened Steel |
| Screw Material (see pages E-30 to E-35) | Acme Screw - Stainless Steel |
| Screw Material (see pages E-30 to E-35) | Rolled Ball, Precision Ball, & Ground Ball - Case Hardened Steel |
| Straightness | < 0.00016 in/in (< 4,06 microns/25mm) |
| Flatness | < 0.00016 in/in (< 4,06 microns/25mm) |
| Orthogonality (multi-axis systems) | < 30 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 mounted to carriage & end plates |

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Dimensions & Specifications

- Without Cover Plates -

| Model Number | Travel Length inches (mm) | Table Dimensions inches (mm) | | Mounting Dimensions inches (mm) | | Screw Length inches (mm) | Table Weight lbs (kgf) ⁽¹⁾ |
|-------------------|---------------------------------|------------------------------------|--------------------|---------------------------------------|----|--------------------------------|---|
| | | A | B | C | M | | |
| 17x606-CP0 | 6 (150) | 12.125 (308,0) | 16.688 (423,9) | 3 | 8 | 16.00 (406) | 14.2 (6,4) |
| 17x612-CP0 | 12 (300) | 18.125 (460,4) | 22.688 (576,3) | 5 | 12 | 22.00 (559) | 16.0 (7,3) |
| 17x618-CP0 | 18 (455) | 24.125 (612,8) | 28.688 (728,7) | 7 | 16 | 28.00 (711) | 17.8 (8,1) |
| 17x624-CP0 | 24 (605) | 30.125 (765,2) | 34.688 (881,1) | 9 | 20 | 34.00 (864) | 19.6 (8,9) |
| 17x630-CP0 | 30 (760) | 36.125 (917,6) | 40.688 (1033,5) | 11 | 24 | 40.00 (1016) | 21.4 (9,7) |
| 17x636-CP0 | 36 (910) | 42.125 (1070,0) | 46.688 (1185,9) | 13 | 28 | 46.00 (1168) | 23.2 (10,5) |
| 17x642-CP0 | 42 (1060) | 48.125 (1222,4) | 52.688 (1338,3) | 15 | 32 | 52.00 (1321) | 25.0 (11,3) |
| 17x648-CP0 | 48 (1215) | 54.125 (1374,8) | 58.688 (1490,7) | 17 | 36 | 58.00 (1473) | 26.8 (12,2) |
| 17x654-CP0 | 54 (1370) | 60.125 (1527,1) | 64.688 (1643,0) | 19 | 40 | 64.00 (1625) | 28.6 (13,0) |
| 17x660-CP0 | 60 (1520) | 66.125 (1679,6) | 70.688 (1795,5) | 21 | 44 | 70.00 (1778) | 30.4 (13,8) |

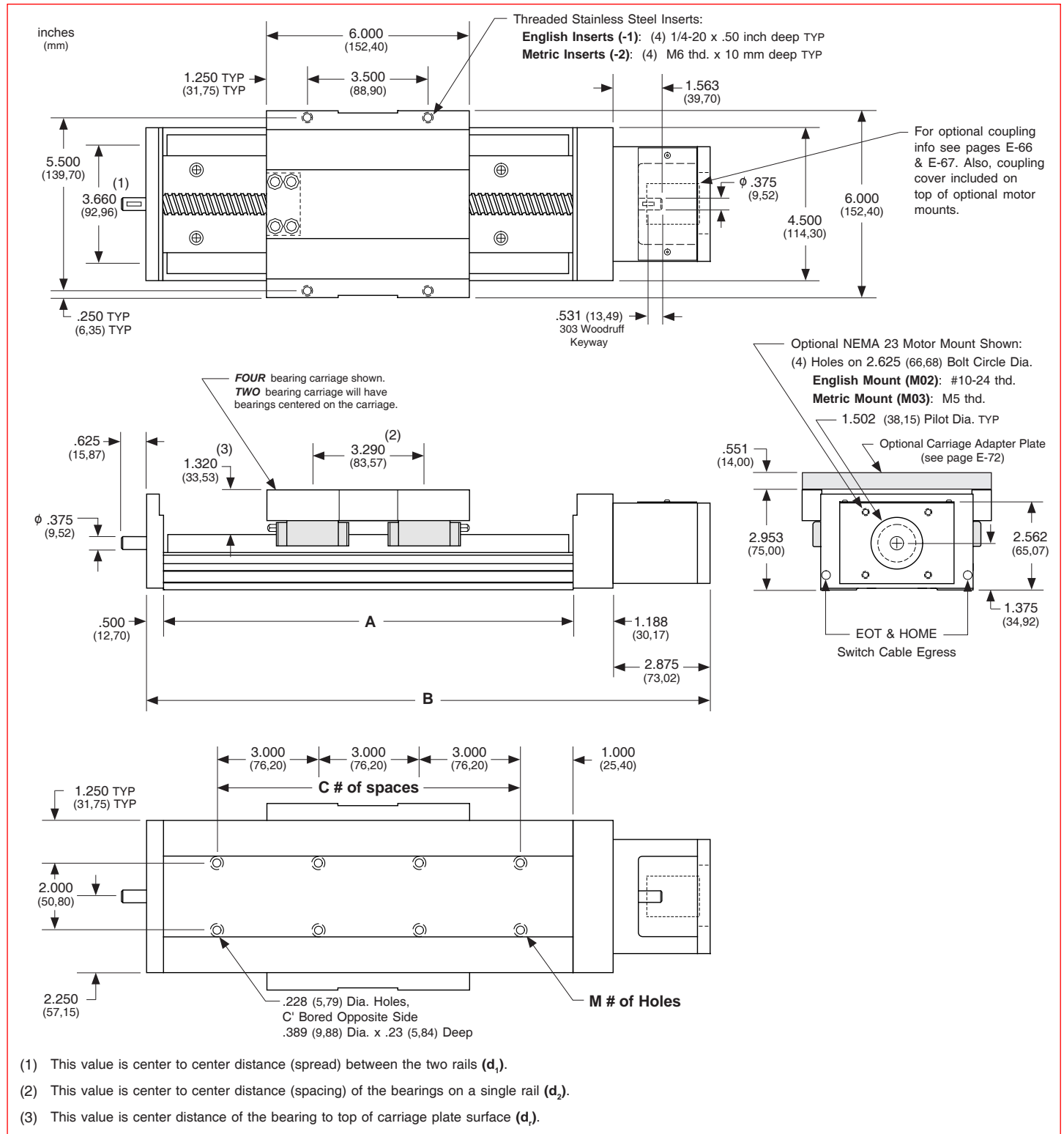
- x = 2; Carriage has 2 bearings; Carriage weight = 2.5 lbs. (1,13 kg)
- x = 4; Carriage has 4 bearings; Carriage weight = 3.3 lbs. (1,50 kg)

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.

Dimensions

- Without Cover Plates -



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.

Dimensions & Specifications

- With Top Cover Plate Only -

| 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 | M | | |
| 17x606-CP1 | 6 (150) | 12.125 (308,0) | 16.688 (423,9) | 3 | 8 | 16.00 (406) | 15.0 (6,8) |
| 17x612-CP1 | 12 (300) | 18.125 (460,4) | 22.688 (576,3) | 5 | 12 | 22.00 (559) | 17.2 (7,8) |
| 17x618-CP1 | 18 (455) | 24.125 (612,8) | 28.688 (728,7) | 7 | 16 | 28.00 (711) | 19.4 (8,8) |
| 17x624-CP1 | 24 (605) | 30.125 (765,2) | 34.688 (881,1) | 9 | 20 | 34.00 (864) | 21.6 (9,8) |
| 17x630-CP1 | 30 (760) | 36.125 (917,6) | 40.688 (1033,5) | 11 | 24 | 40.00 (1016) | 23.8 (10,8) |
| 17x636-CP1 | 36 (910) | 42.125 (1070,0) | 46.688 (1185,9) | 13 | 28 | 46.00 (1168) | 26.0 (11,8) |
| 17x642-CP1 | 42 (1060) | 48.125 (1222,4) | 52.688 (1338,3) | 15 | 32 | 52.00 (1321) | 28.2 (12,8) |
| 17x648-CP1 | 48 (1215) | 54.125 (1374,8) | 58.688 (1490,7) | 17 | 36 | 58.00 (1473) | 30.4 (13,8) |
| 17x654-CP1 | 54 (1370) | 60.125 (1527,1) | 64.688 (1643,0) | 19 | 40 | 64.00 (1625) | 32.6 (14,8) |
| 17x660-CP1 | 60 (1520) | 66.125 (1679,6) | 70.688 (1795,5) | 21 | 44 | 70.00 (1778) | 34.8 (15,8) |

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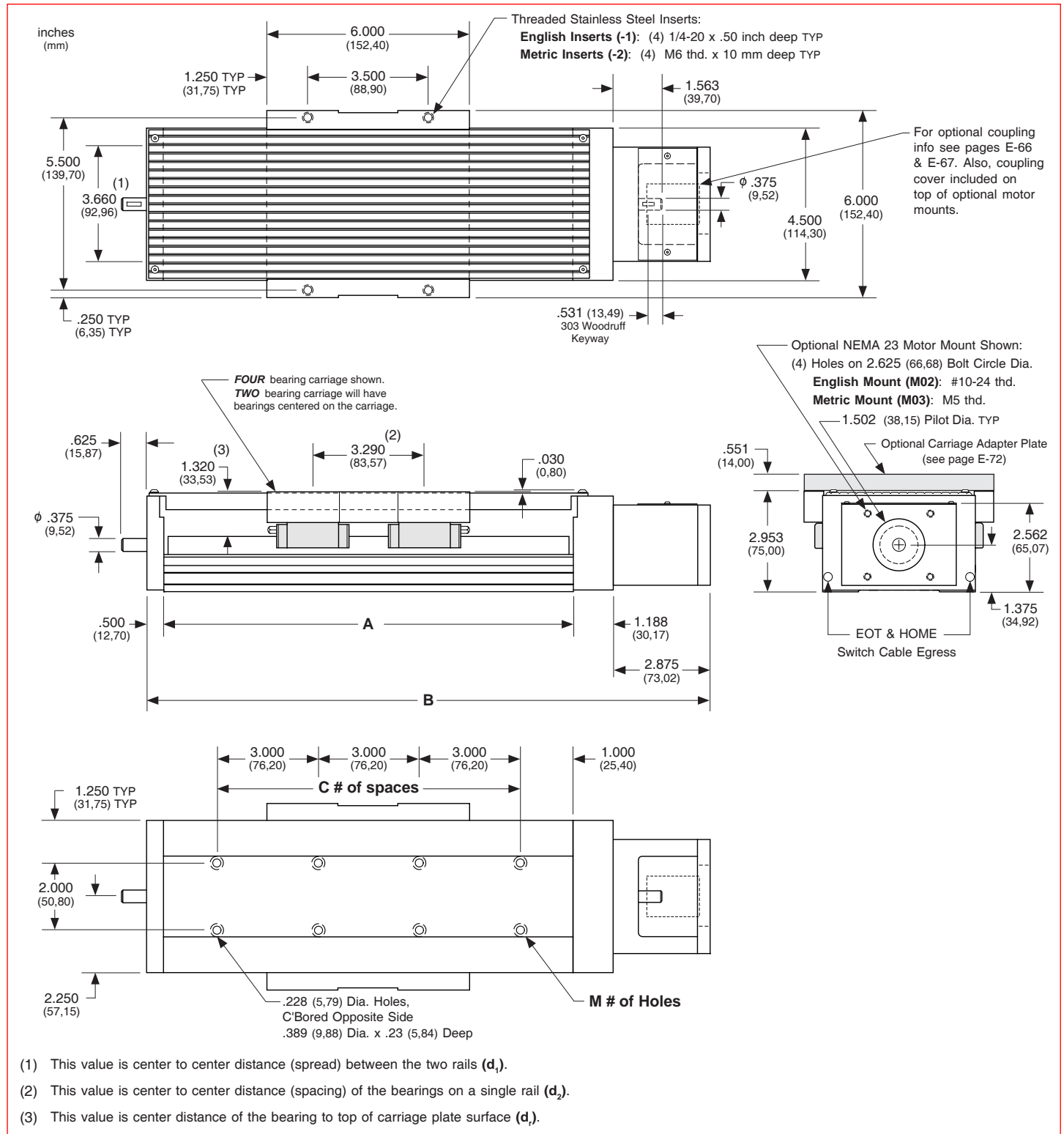
 x = 2; Carriage has 2 bearings; Carriage weight = 2.5 lbs. (1,13 kg)
 x = 4; Carriage has 4 bearings; Carriage weight = 3.3 lbs. (1,50 kg)

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.

Dimensions

- With Top Cover Plate Only -



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.

Dimensions & Specifications

- With Top & Side Cover Plates -

| 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 | M | | |
| 17x606-CP2 | 6 (150) | 12.125 (308,0) | 16.688 (423,9) | 3 | 8 | 16.00 (406) | 16.6 (7,5) |
| 17x612-CP2 | 12 (300) | 18.125 (460,4) | 22.688 (576,3) | 5 | 12 | 22.00 (559) | 19.1 (8,7) |
| 17x618-CP2 | 18 (455) | 24.125 (612,8) | 28.688 (728,7) | 7 | 16 | 28.00 (711) | 21.7 (9,8) |
| 17x624-CP2 | 24 (605) | 30.125 (765,2) | 34.688 (881,1) | 9 | 20 | 34.00 (864) | 24.3 (11,0) |
| 17x630-CP2 | 30 (760) | 36.125 (917,6) | 40.688 (1033,5) | 11 | 24 | 40.00 (1016) | 26.8 (12,2) |
| 17x636-CP2 | 36 (910) | 42.125 (1070,0) | 46.688 (1185,9) | 13 | 28 | 46.00 (1168) | 29.4 (13,3) |
| 17x642-CP2 | 42 (1060) | 48.125 (1222,4) | 52.688 (1338,3) | 15 | 32 | 52.00 (1321) | 32.0 (14,5) |
| 17x648-CP2 | 48 (1215) | 54.125 (1374,8) | 58.688 (1490,7) | 17 | 36 | 58.00 (1473) | 34.5 (15,6) |
| 17x654-CP2 | 54 (1370) | 60.125 (1527,1) | 64.688 (1643,0) | 19 | 40 | 64.00 (1625) | 37.1 (16,8) |
| 17x660-CP2 | 60 (1520) | 66.125 (1679,6) | 70.688 (1795,5) | 21 | 44 | 70.00 (1778) | 39.6 (17,9) |

- x = 2; Carriage has 2 bearings; Carriage weight = 2.5 lbs. (1,13 kg)
- x = 4; Carriage has 4 bearings; Carriage weight = 3.3 lbs. (1,50 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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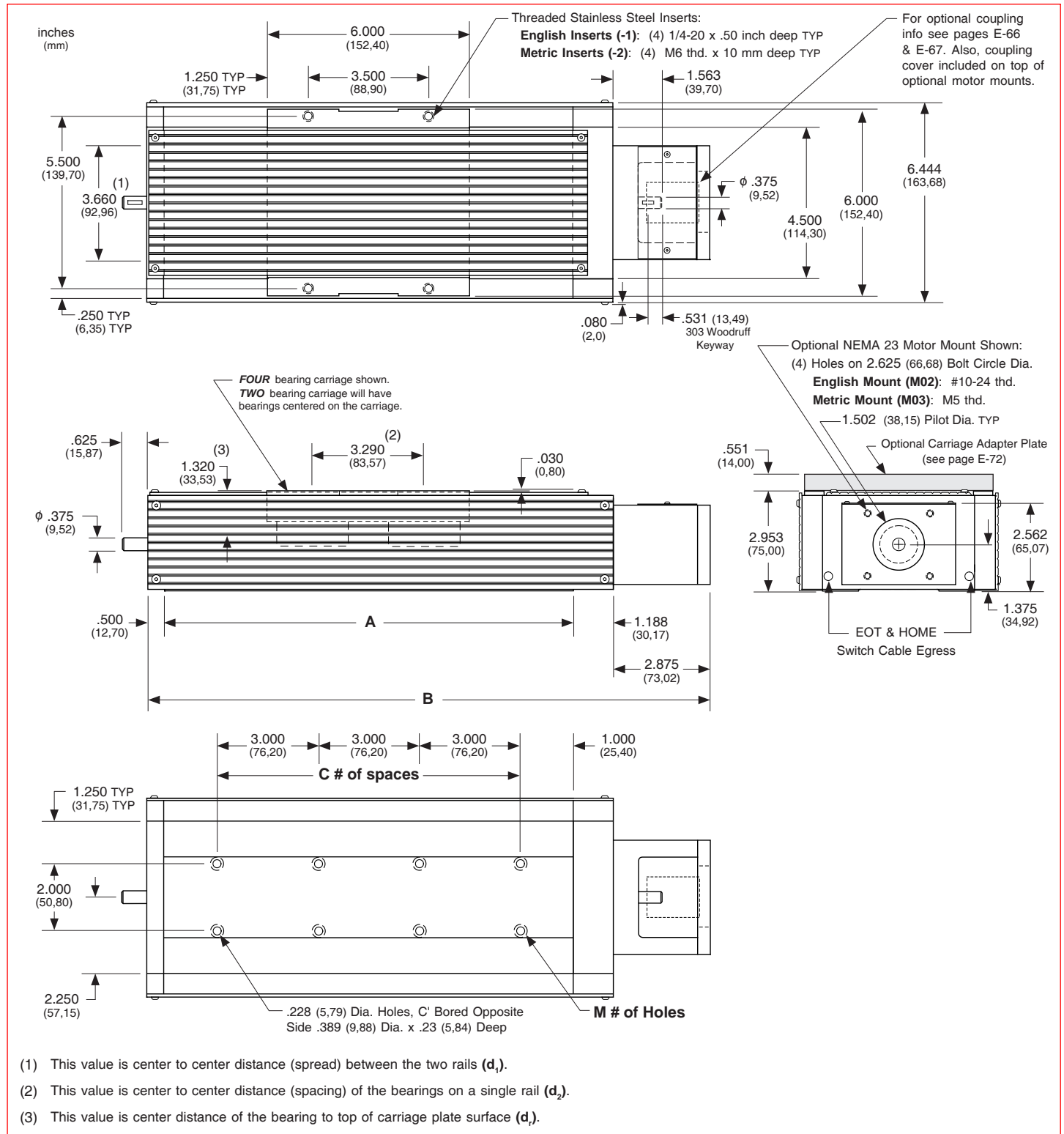
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Specifications Subject to Change Without Notice

Dimensions

- With Top & Side Cover Plates -



Dimensions & Specifications

- With 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 | M | | |
| 17x603-WC1 | 3.7 (94) | 12.125 (308,0) | 16.688 (423,9) | 3 | 8 | 16.00 (406) | 14.8 (6,7) |
| 17x608-WC1 | 8.0 (203) | 18.125 (460,4) | 22.688 (576,3) | 5 | 12 | 22.00 (559) | 16.8 (7,6) |
| 17x612-WC1 | 12.8 (325) | 24.125 (612,8) | 28.688 (728,7) | 7 | 16 | 28.00 (711) | 18.8 (8,5) |
| 17x617-WC1 | 17.5 (444) | 30.125 (765,2) | 34.688 (881,1) | 9 | 20 | 34.00 (864) | 20.9 (9,5) |
| 17x622-WC1 | 22.0 (555) | 36.125 (917,6) | 40.688 (1033,5) | 11 | 24 | 40.00 (1016) | 22.7 (10,3) |
| 17x628-WC1 | 28.0 (710) | 42.125 (1070,0) | 46.688 (1185,9) | 13 | 28 | 46.00 (1168) | 24.7 (11,2) |
| 17x632-WC1 | 32.5 (825) | 48.125 (1222,4) | 52.688 (1338,3) | 15 | 32 | 52.00 (1321) | 26.7 (12,1) |
| 17x637-WC1 | 37.0 (935) | 54.125 (1374,8) | 58.688 (1490,7) | 17 | 36 | 58.00 (1473) | 28.7 (13,0) |
| 17x641-WC1 | 41.5 (1050) | 60.125 (1527,1) | 64.688 (1643,0) | 19 | 40 | 64.00 (1625) | 30.8 (14,0) |
| 17x647-WC1 | 47.5 (1205) | 66.125 (1679,6) | 70.688 (1795,5) | 21 | 44 | 70.00 (1778) | 33.0 (15,0) |

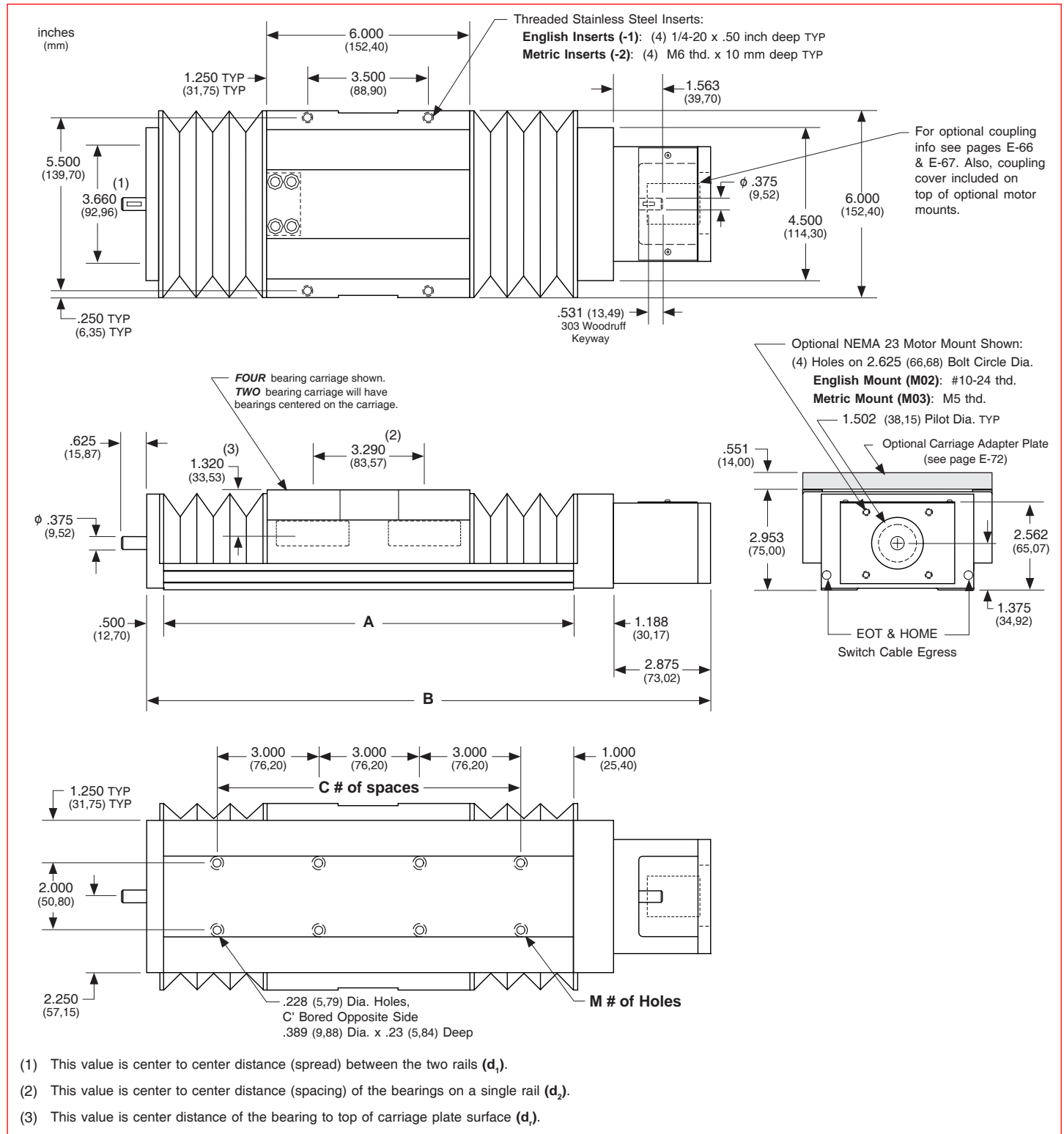
- x = 2; Carriage has 2 bearings; Carriage weight = 2.5 lbs. (1,13 kg)
- x = 4; Carriage has 4 bearings; Carriage weight = 3.3 lbs. (1,50 kg)

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.

Dimensions

- With Waycovers -



17 6 12 06 - CP1 - 1 - S005 - M02 - C155 - L01 - E00 - B00

Table Series

Number of Bearings

4 - 4 bearings 6 - 6 bearings

Carriage Length

12 - 12 inches

Travel Length (see pages E-20, E-22, E-24 & E-26)

06 - 3 to 54 inches

Cover Plate

CP0 - no cover plates **CP1** - top cover plate only **CP2** - top & side cover plates **WC1** - waycovers

Carriage Inserts (see pages E-21, E-23, E-25 & E-27)

1 - English mount 2 - Metric 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

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

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 E-21, E-23, E-25, E-27, E-68 & 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 (250 lines/mm)

Power-off Brakes (see page E-70)

B00 - none **B01** - 24 VDC **B02** - 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 | | Four (4) Bearing Carriage | | Six (6) Bearing Carriage | |
|--|--|---------------------------|-----------------------------|--------------------------|-----------------------------|
| Dynamic Horizontal | 2 million inches (50 km) of travel | 7,780 lbs | (3530 kgf) | 11,660 lbs | (5280 kgf) |
| Dynamic Horizontal | 50 million inches (1270 km) of travel | 2,090 lbs | (948 kgf) | 3,135 lbs | (1420 kgf) |
| Static Horizontal | | 11,660 lbs | (5290 kgf) | 17,500 lbs | (7930 kgf) |
| Dynamic Roll Moment | 2 million inches (50 km) of travel | 1,025 ft-lbs | (1390 N-m) | 1,540 ft-lbs | (2085 N-m) |
| Dynamic Roll Moment | 50 million inches (1270 km) of travel | 275 ft-lbs | (370 N-m) | 410 ft-lbs | (555 N-m) |
| Static Roll Moment | | 1,830 ft-lbs | (2480 N-m) | 2,750 ft-lbs | (3725 N-m) |
| Dyn. Pitch & Yaw Moment | 2 million inches (50 km) of travel | 2,160 ft-lbs | (2925 N-m) | 2,235 ft-lbs | (3030 N-m) |
| Dyn. Pitch & Yaw Moment | 50 million inches (1270 km) of travel | 580 ft-lbs | (785 N-m) | 600 ft-lbs | (810 N-m) |
| Static Pitch & Yaw Moment | | 3,860 ft-lbs | (5230 N-m) | 3,980 ft-lbs | (5395 N-m) |
| Each Bearing Dyn. Capacity | 2 million inches (50 km) of travel | 1,945 lbs | (882 kgf) | 1,945 lbs | (882 kgf) |
| Each Bearing Dyn. Capacity | 50 million inches (1270 km) of travel | 525 lbs | (238 kgf) | 525 lbs | (238 kgf) |
| Each Bearing Static Load Capacity | | 2,910 lbs | (1320 kgf) | 2,910 lbs | (1320 kgf) |
| Thrust Force Capacity | 10 million screw revolutions | 895 lbs | (406 kgf) | 895 lbs | (406 kgf) |
| Thrust Force Capacity | 500 million screw revolutions | 240 lbs | (109 kgf) | 240 lbs | (109 kgf) |
| Maximum Acceleration | | 772 in/sec ² | (19,6 m/sec ²) | 772 in/sec ² | (19,6 m/sec ²) |
| d₁ | Center to center distance (spread) between the two rails | 3.660 in | (92,96 mm) | 3.660 in | (92,96 mm) |
| d₂ | Center to center distance (spacing) of the bearings on a single rail | 9.290 in | (235,97 mm) | 4.645 in | (117,98 mm) |
| d_r | 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 Four (4) & Six (6) Bearing Carriages |
|--|---|
| Table Material | Base, Carriage, End Plates, & Cover Plate option - 6061 anodized aluminum |
| Linear Rail Material | Case Hardened Steel |
| Screw Material (see pages E-30 to E-35) | Acme Screw - Stainless Steel |
| Screw Material (see pages E-30 to E-35) | Rolled Ball, Precision Ball, & Ground Ball - Case Hardened Steel |
| Straightness | < 0.00016 in/in (< 4,06 microns/25mm) |
| Flatness | < 0.00016 in/in (< 4,06 microns/25mm) |
| Orthogonality (multi-axis systems) | < 30 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 mounted to carriage & end plates |

Dimensions & Specifications

- Without Cover Plates -

| Model Number | Travel Length inches (mm) | Table Dimensions inches (mm) | | Mounting Dimensions inches (mm) | | Screw Length inches (mm) | Table ⁽¹⁾ Weight lbs (kgf) |
|--------------|---------------------------------|------------------------------------|--------------------|---------------------------------------|----|--------------------------------|--|
| | | A | B | C | M | | |
| 17x1206-CP0 | 6 (150) | 18.125 (460,4) | 22.688 (576,3) | 5 | 12 | 22.00 (559) | 18.5 (8,4) |
| 17x1212-CP0 | 12 (300) | 24.125 (612,8) | 28.688 (728,7) | 7 | 16 | 28.00 (711) | 20.3 (9,2) |
| 17x1218-CP0 | 18 (455) | 30.125 (765,2) | 34.688 (881,1) | 9 | 20 | 34.00 (864) | 22.1 (10,2) |
| 17x1224-CP0 | 24 (605) | 36.125 (917,6) | 40.688 (1033,5) | 11 | 24 | 40.00 (1016) | 23.9 (10,8) |
| 17x1230-CP0 | 30 (760) | 42.125 (1070,0) | 46.688 (1185,9) | 13 | 28 | 46.00 (1168) | 25.7 (11,7) |
| 17x1236-CP0 | 36 (910) | 48.125 (1222,4) | 52.688 (1338,3) | 15 | 32 | 52.00 (1321) | 27.5 (12,5) |
| 17x1242-CP0 | 42 (1060) | 54.125 (1374,8) | 58.688 (1490,7) | 17 | 36 | 58.00 (1473) | 29.3 (13,3) |
| 17x1248-CP0 | 48 (1215) | 60.125 (1527,2) | 64.688 (1643,1) | 19 | 40 | 64.00 (1626) | 31.2 (14,2) |
| 17x1254-CP0 | 54 (1370) | 66.125 (1679,6) | 70.688 (1795,5) | 21 | 44 | 70.00 (1778) | 33.0 (15,0) |

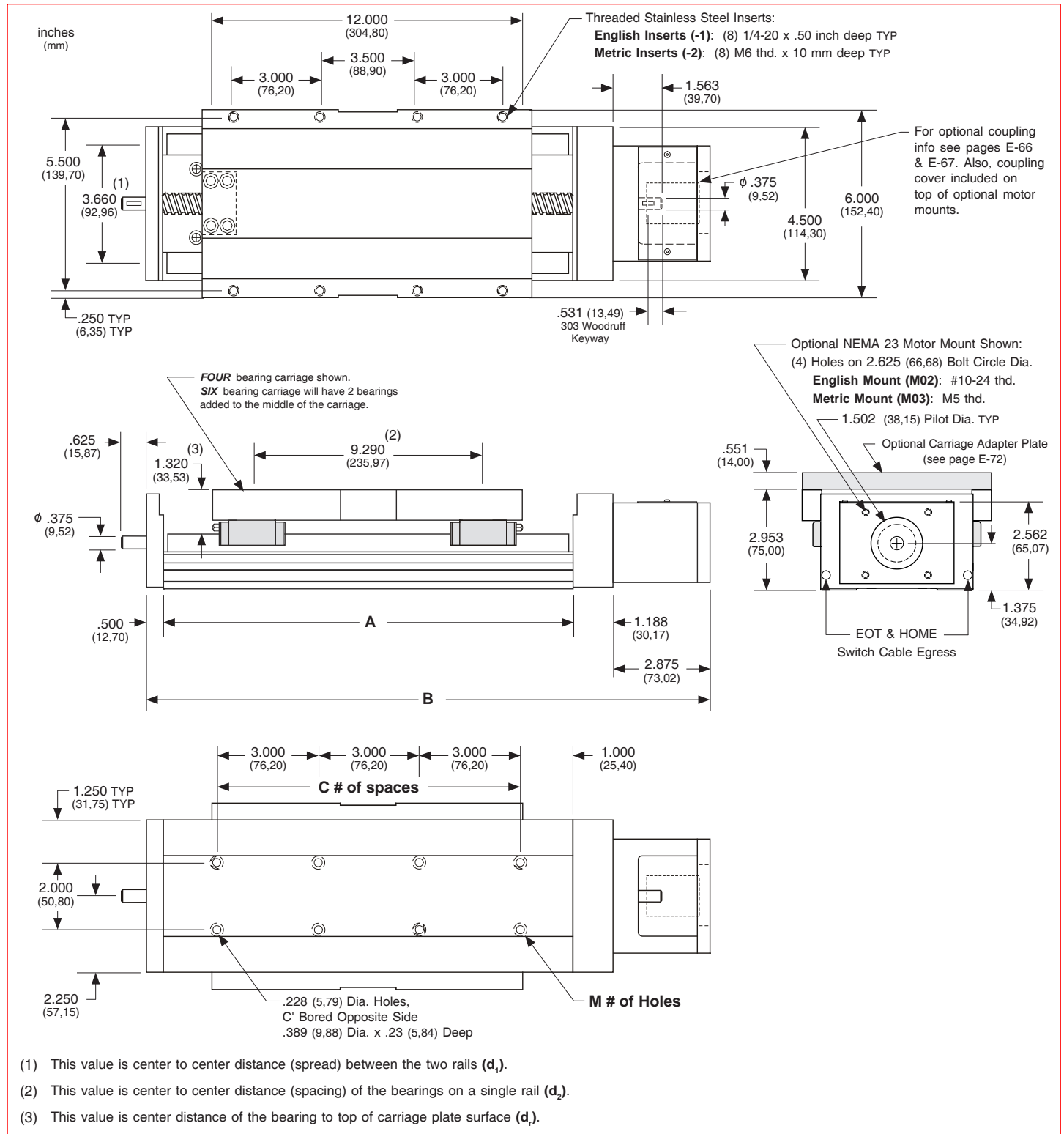
- ┌ x = 4; Carriage has 4 bearings; Carriage weight = 5.0 lbs. (2,27 kg)
- └ x = 6; Carriage has 6 bearings; Carriage weight = 5.8 lbs. (2,63 kg)

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 4 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 6 bearing carriage add 0.8 lbs (0,36 kg) to each value.

Dimensions

- Without Cover Plates -



- (1) This value is center to center distance (spread) between the two rails (d_1).
- (2) This value is center to center distance (spacing) of the bearings on a single rail (d_2).
- (3) This value is center distance of the bearing to top of carriage plate surface (d_3).

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.

Dimensions & Specifications

- With Top Cover Plate Only -

| Model Number | Travel Length inches (mm) | Table Dimensions inches (mm) | | Mounting Dimensions inches (mm) | | Screw Length inches (mm) | Table ⁽¹⁾ Weight |
|--------------|---------------------------------|------------------------------------|--------------------|---------------------------------------|----|--------------------------------|--------------------------------|
| | | A | B | C | M | | lbs (kgf) |
| 17x1206-CP1 | 6 (150) | 18.125 (460,4) | 22.688 (576,3) | 5 | 12 | 22.00 (559) | 19.7 (8,9) |
| 17x1212-CP1 | 12 (300) | 24.125 (612,8) | 28.688 (728,7) | 7 | 16 | 28.00 (711) | 21.9 (9,9) |
| 17x1218-CP1 | 18 (455) | 30.125 (765,2) | 34.688 (881,1) | 9 | 20 | 34.00 (864) | 24.1 (10,9) |
| 17x1224-CP1 | 24 (605) | 36.125 (917,6) | 40.688 (1033,5) | 11 | 24 | 40.00 (1016) | 26.3 (11,9) |
| 17x1230-CP1 | 30 (760) | 42.125 (1070,0) | 46.688 (1185,9) | 13 | 28 | 46.00 (1168) | 28.5 (12,9) |
| 17x1236-CP1 | 36 (910) | 48.125 (1222,4) | 52.688 (1338,3) | 15 | 32 | 52.00 (1321) | 30.7 (13,9) |
| 17x1242-CP1 | 42 (1060) | 54.125 (1374,8) | 58.688 (1490,7) | 17 | 36 | 58.00 (1473) | 32.9 (14,9) |
| 17x1248-CP1 | 48 (1215) | 60.125 (1527,2) | 64.688 (1643,1) | 19 | 40 | 64.00 (1626) | 35.1 (15,9) |
| 17x1254-CP1 | 54 (1370) | 66.125 (1679,6) | 70.688 (1795,5) | 21 | 44 | 70.00 (1778) | 37.3 (16,9) |

- x = 4; Carriage has 4 bearings; Carriage weight = 5.0 lbs. (2,27 kg)
- x = 6; Carriage has 6 bearings; Carriage weight = 5.8 lbs. (2,63 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 4 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 6 bearing carriage add 0.8 lbs (0,36 kg) to each value.

Sold & Serviced By:

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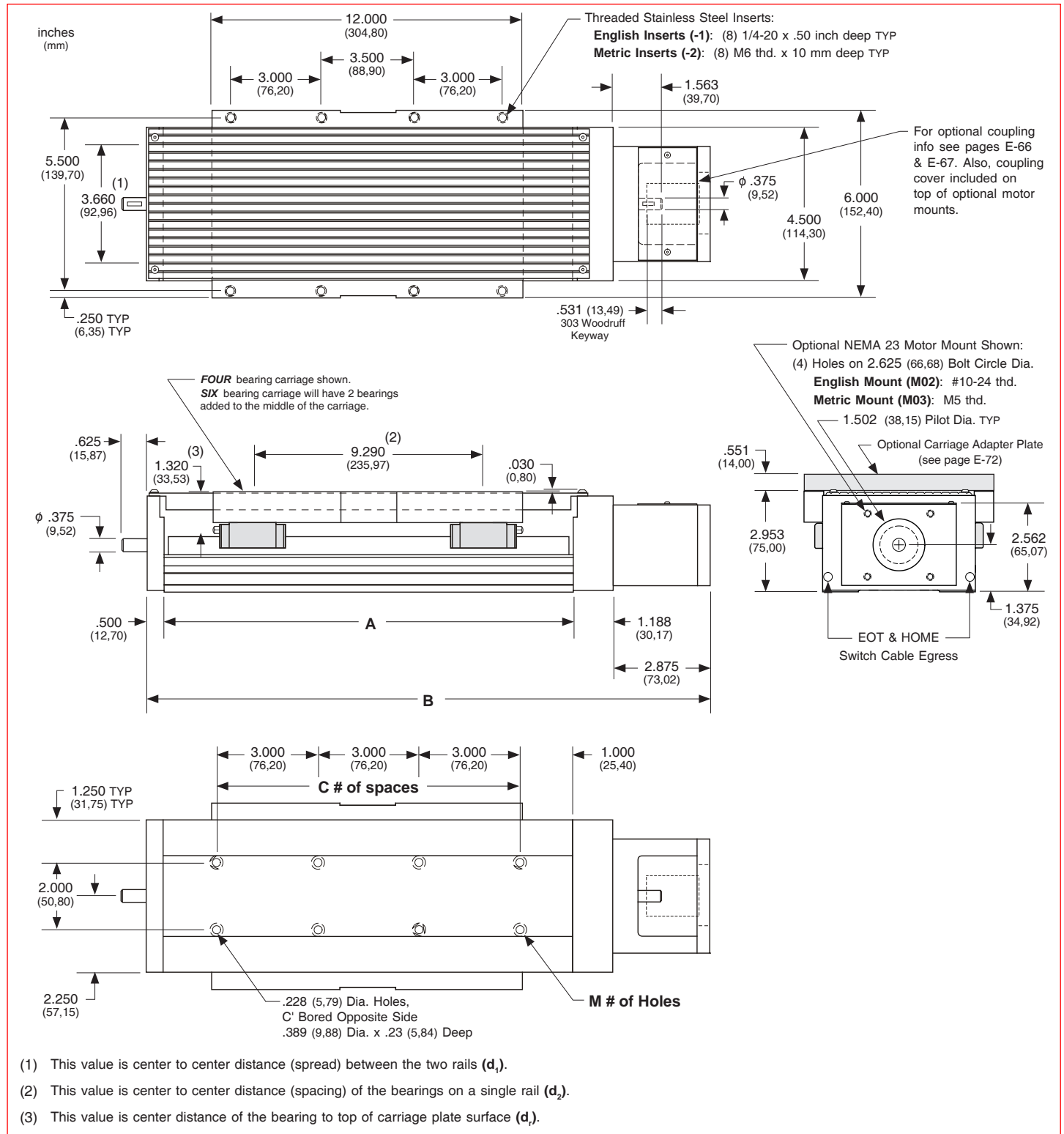
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Specifications Subject to Change Without Notice

Dimensions

- With Top Cover Plate Only -



- (1) This value is center to center distance (spread) between the two rails (d_1).
- (2) This value is center to center distance (spacing) of the bearings on a single rail (d_2).
- (3) This value is center distance of the bearing to top of carriage plate surface (d_3).

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.

Dimensions & Specifications

- With Top & Side Cover Plates -

| Model Number | Travel Length inches (mm) | Table Dimensions inches (mm) | | Mounting Dimensions inches (mm) | | Screw Length inches (mm) | Table ⁽¹⁾ Weight lbs (kgf) |
|--------------|---------------------------------|------------------------------------|--------------------|---------------------------------------|----|--------------------------------|--|
| | | A | B | C | M | | |
| 17x1206-CP2 | 6 (150) | 18.125 (460,4) | 22.688 (576,3) | 5 | 12 | 22.00 (559) | 21.6 (9,8) |
| 17x1212-CP2 | 12 (300) | 24.125 (612,8) | 28.688 (728,7) | 7 | 16 | 28.00 (711) | 24.2 (11,0) |
| 17x1218-CP2 | 18 (455) | 30.125 (765,2) | 34.688 (881,1) | 9 | 20 | 34.00 (864) | 26.1 (11,8) |
| 17x1224-CP2 | 24 (605) | 36.125 (917,6) | 40.688 (1033,5) | 11 | 24 | 40.00 (1016) | 28.7 (13,1) |
| 17x1230-CP2 | 30 (760) | 42.125 (1070,0) | 46.688 (1185,9) | 13 | 28 | 46.00 (1168) | 31.3 (14,2) |
| 17x1236-CP2 | 36 (910) | 48.125 (1222,4) | 52.688 (1338,3) | 15 | 32 | 52.00 (1321) | 34.5 (15,7) |
| 17x1242-CP2 | 42 (1060) | 54.125 (1374,8) | 58.688 (1490,7) | 17 | 36 | 58.00 (1473) | 37.0 (16,8) |
| 17x1248-CP2 | 48 (1215) | 60.125 (1527,2) | 64.688 (1643,1) | 19 | 40 | 64.00 (1626) | 39.6 (18,0) |
| 17x1254-CP2 | 54 (1370) | 66.125 (1679,6) | 70.688 (1795,5) | 21 | 44 | 70.00 (1778) | 42.1 (19,1) |

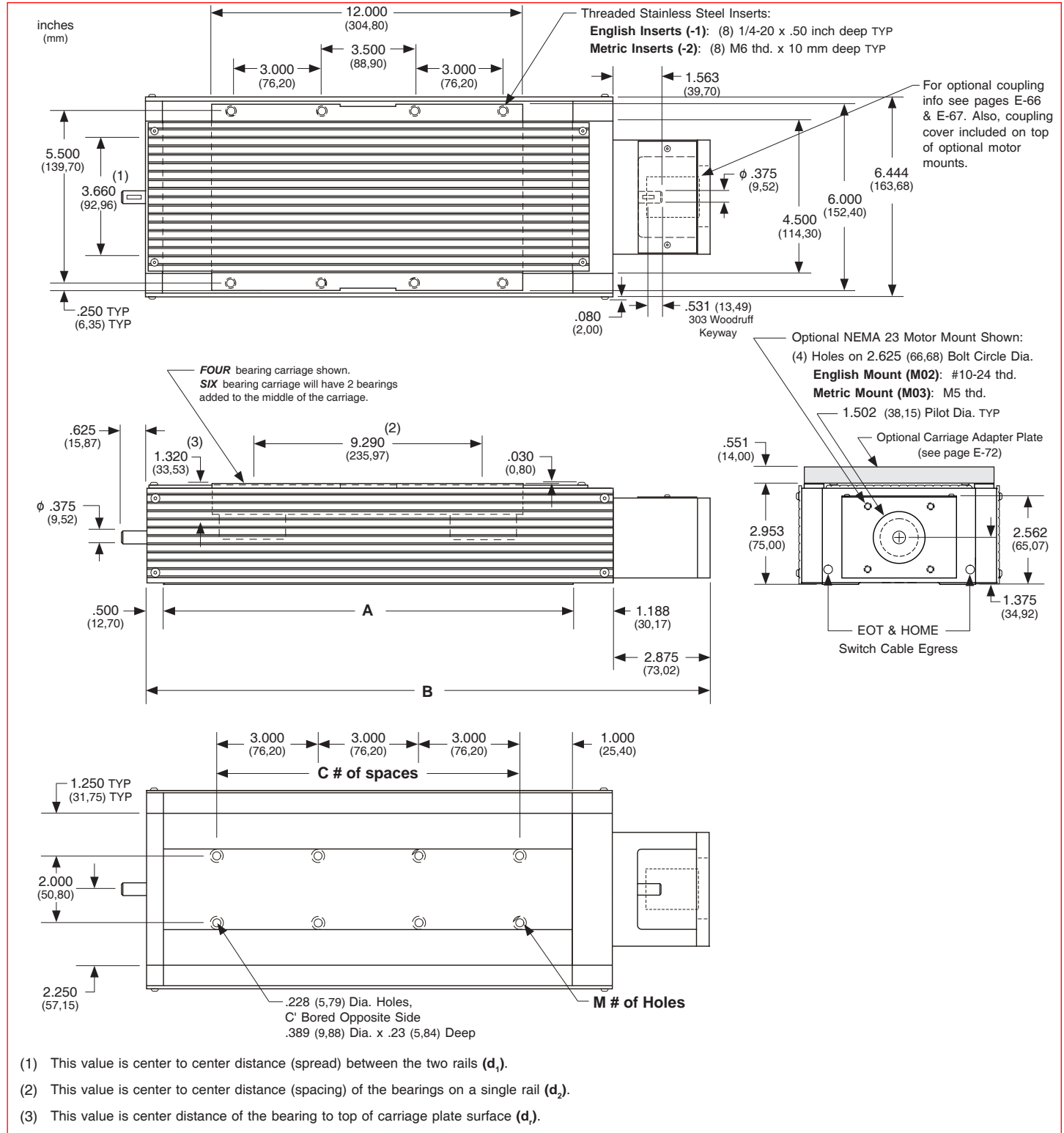
- x = 4; Carriage has 4 bearings; Carriage weight = 5.0 lbs. (2,27 kg)
- x = 6; Carriage has 6 bearings; Carriage weight = 5.8 lbs. (2,63 kg)

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 4 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 6 bearing carriage add 0.8 lbs (0,36 kg) to each value.

Dimensions

- With Top & Side Cover Plates -



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.

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 | M | | |
| 17x1203-WC1 | 3.7 (94) | 18.125 (460,4) | 22.688 (576,3) | 5 | 12 | 22.00 (559) | 16.8 (7,6) |
| 17x1208-WC1 | 8.0 (203) | 24.125 (612,8) | 28.688 (728,7) | 7 | 16 | 28.00 (711) | 18.8 (8,5) |
| 17x1212-WC1 | 12.8 (444) | 30.125 (765,2) | 34.688 (881,1) | 9 | 20 | 34.00 (864) | 20.9 (9,5) |
| 17x1217-WC1 | 17.5 (597) | 36.125 (917,6) | 40.688 (1033,5) | 11 | 24 | 40.00 (1016) | 22.7 (10,3) |
| 17x1222-WC1 | 22.0 (555) | 42.125 (1070,0) | 46.688 (1185,9) | 13 | 28 | 46.00 (1168) | 24.7 (11,2) |
| 17x1228-WC1 | 28.0 (710) | 48.125 (1222,4) | 52.688 (1338,3) | 15 | 32 | 52.00 (1321) | 26.7 (12,1) |
| 17x1232-WC1 | 32.5 (825) | 54.125 (1374,8) | 58.688 (1490,7) | 17 | 36 | 58.00 (1473) | 28.7 (13,0) |
| 17x1237-WC1 | 37.0 (935) | 60.125 (1527,2) | 64.688 (1643,1) | 21 | 44 | 64.00 (1626) | 30.9 (14,0) |
| 17x1241-WC1 | 41.5 (1050) | 66.125 (1679,6) | 70.688 (1795,5) | 21 | 44 | 70.00 (1778) | 33.0 (15,0) |

- x = 4; Carriage has 4 bearings; Carriage weight = 5.0 lbs. (2,27 kg)
- x = 6; Carriage has 6 bearings; Carriage weight = 5.8 lbs. (2,63 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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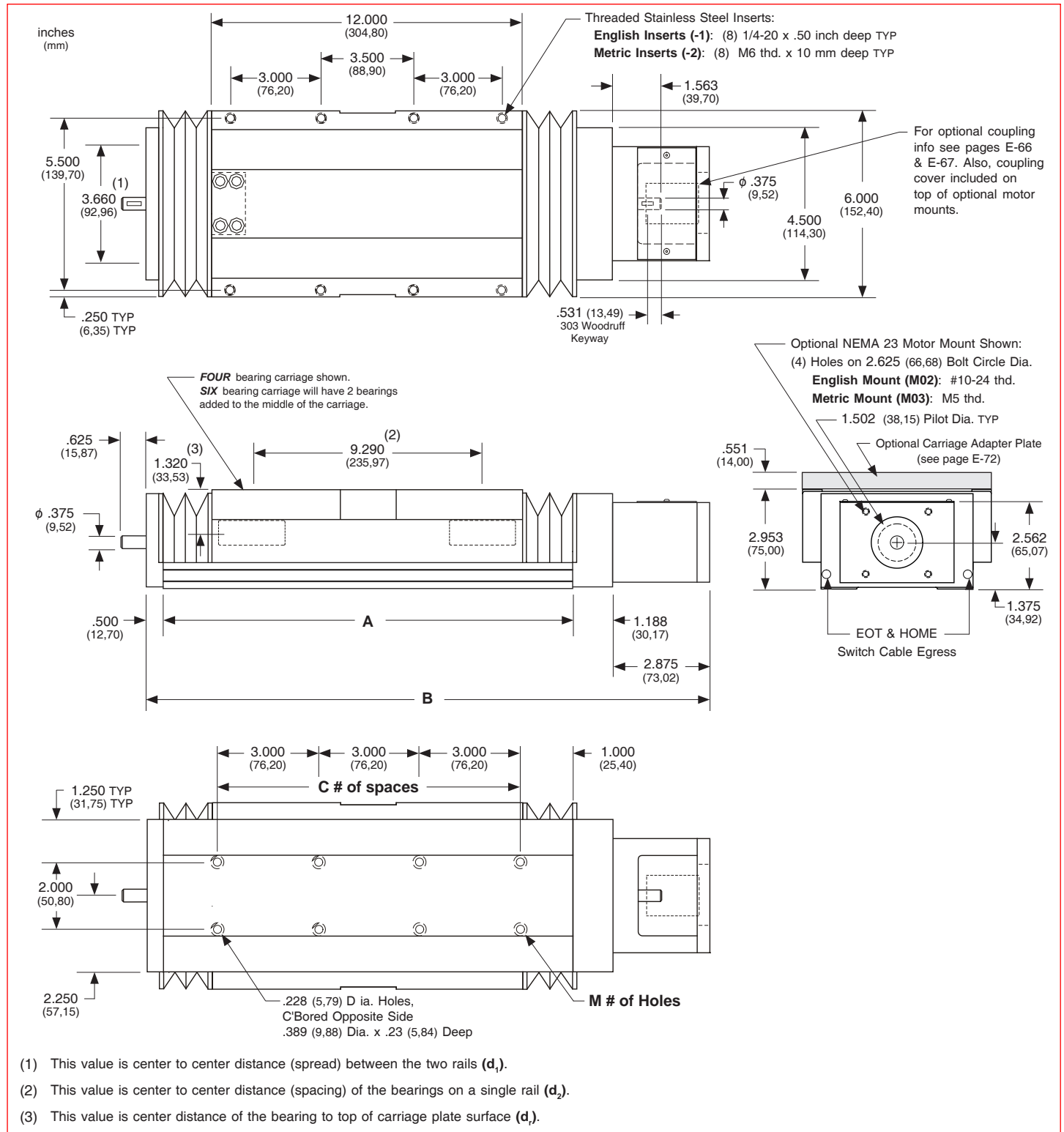
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Specifications subject to change without notice

Dimensions

- With Waycovers -



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.