

**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
- M01** - hand crank
- M20 to M98** - see Website
- M99** - other
- M02** - NEMA 23 mount (E)
- M03** - NEMA 23 mount (M)
- M04** - NEMA 34 mount (E)
- M05** - NEMA 34 mount (M)
- M06** - NEMA 23 (RH) wrap
- M07** - NEMA 23 (LH) wrap
- M08** - NEMA 34 (RH) wrap
- M09** - NEMA 34 (LH) wrap

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

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

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

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

**Encoder Options** (see page G-29)

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

**Power-off Brakes** (see page G-28)

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

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

Specifications subject to change without notice

## Specifications

| Load Capacities                          |  | 4 inch (2 bearing) Carriage |                            | 8 inch (4 bearing) Carriage |                             |
|--|--|-----------------------------|----------------------------|-----------------------------|-----------------------------|
| <b>Dynamic Horizontal</b>                | 2 million inches (50 km) of travel                                   | 1,900 lbs                   | ( 862 kg)                  | 3,800 lbs                   | ( 1724 kg)                  |
| <b>Dynamic Horizontal</b>                | 100 million inches (2540 km) of travel                               | 510 lbs                     | ( 231 kg)                  | 1,020 lbs                   | ( 463 kg)                   |
| <b>Static Horizontal</b>                 |  | 3,400 lbs                   | ( 1542 kg)                 | 6,800 lbs                   | ( 3084 kg)                  |
| <b>Dynamic Roll Moment</b>               | 2 million inches (50 km) of travel                                   | 285 ft-lbs                  | ( 386 N-m)                 | 575 ft-lbs                  | ( 780 N-m)                  |
| <b>Dynamic Roll Moment</b>               | 100 million inches (2540 km) of travel                               | 77 ft-lbs                   | ( 104 N-m)                 | 155 ft-lbs                  | ( 210 N-m)                  |
| <b>Static Roll Moment</b>                |  | 515 ft-lbs                  | ( 698 N-m)                 | 1,030 ft-lbs                | ( 1396 N-m)                 |
| <b>Dyn. Pitch &amp; Yaw Moment</b>       | 2 million inches (50 km) of travel                                   | 56 ft-lbs                   | ( 76 N-m)                  | 700 ft-lbs                  | ( 949 N-m)                  |
| <b>Dyn. Pitch &amp; Yaw Moment</b>       | 100 million inches (2540 km) of travel                               | 15 ft-lbs                   | ( 20 N-m)                  | 190 ft-lbs                  | ( 258 N-m)                  |
| <b>Static Pitch &amp; Yaw Moment</b>     |  | 100 ft-lbs                  | ( 136 N-m)                 | 1,255 ft-lbs                | ( 1702 N-m)                 |
| <b>Each Bearing Dyn. Capacity</b>        | 2 million inches (50 km) of travel                                   | 950 lbs                     | ( 431 kg)                  | 950 lbs                     | ( 431 kg)                   |
| <b>Each Bearing Dyn. Capacity</b>        | 100 million inches (2540 km) of travel                               | 255 lbs                     | ( 115 kg)                  | 255 lbs                     | ( 115 kg)                   |
| <b>Each Bearing Static Load Capacity</b> |  | 1,700 lbs                   | ( 771 kg)                  | 1,700 lbs                   | ( 771 kg)                   |
| <b>Thrust Force Capacity</b>             | 10 million screw revolutions   | 895 lbs                     | ( 406 kg)                  | 895 lbs                     | ( 406 kg)                   |
| <b>Thrust Force Capacity</b>             | 500 million screw revolutions  | 240 lbs                     | ( 109 kg)                  | 240 lbs                     | ( 109 kg)                   |
| <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             | 4.300 in                    | (109,2 mm)                 | 4.300 in                    | (109,2 mm)                  |
| <b>d<sub>2</sub></b>                     | Center to center distance (spacing) of the bearings on a single rail |                             | -                          | 4.900 in                    | (124,5 mm)                  |
| <b>d<sub>r</sub></b>                     | 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                     |
|--|---|
| <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 G-18 to G-23) | Acme Screw - Stainless Steel  |
| <b>Screw Material</b> (see pages G-18 to G-23) | Rolled Ball, Precision Ball, & Ground Ball - Case Hardened Steel          |
| <b>Straightness</b>                            | < 0.00004 in/in (< 1,02 microns/25mm)                                     |
| <b>Flatness</b>                                | < 0.00004 in/in (< 1,02 microns/25mm)                                     |
| <b>Orthogonality</b> (multi-axis systems)      | < 15 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                                      |
| <b>Waycover Material</b>                       | Hypilon Polyester Bellows firmly mounted to carriage & end plates         |

## Dimensions & Specifications

- Without Waycovers -

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

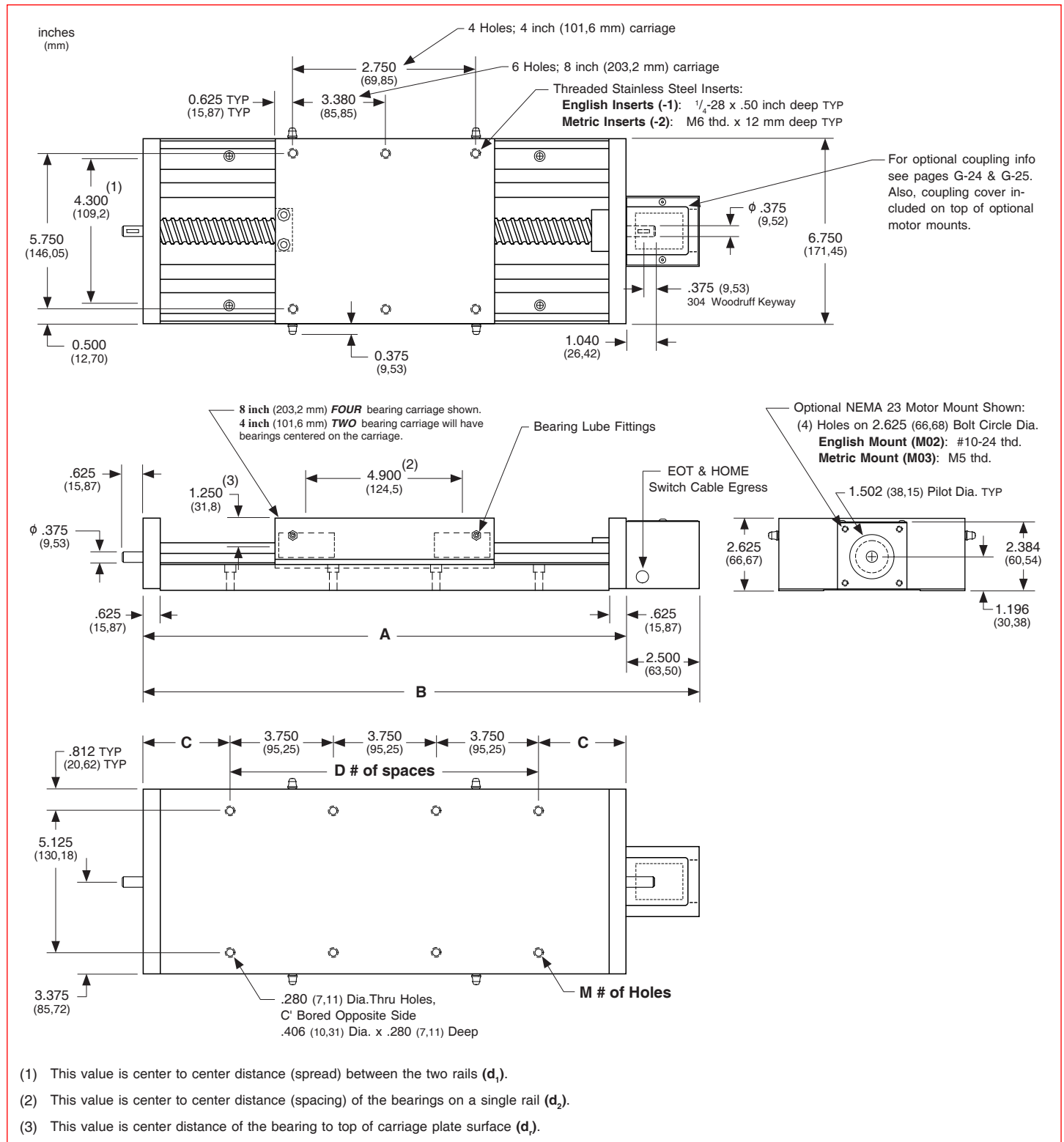
- 04 = 4 inch (101,6 mm) carriage length; 2 bearings; carriage weight = 4.0 lbs. (1,81 kg)
- 08 = 8 inch (203,2 mm) carriage length; 4 bearings; carriage weight = 7.0 lbs. (3,17 kg)

### 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*.

## Dimensions & Specifications

- With Waycovers -

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

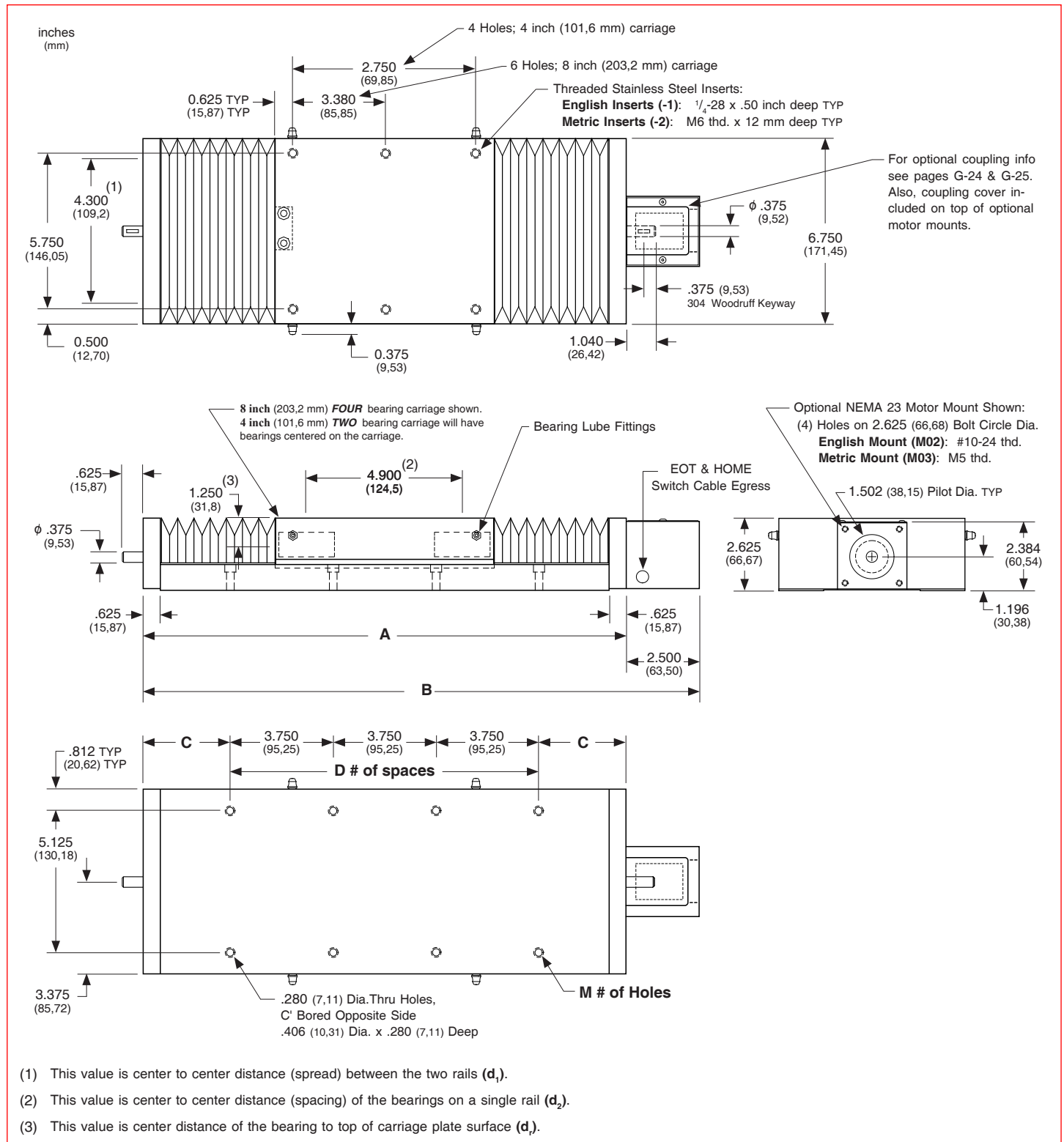
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 └ 08 = 8 inch (203,2 mm) carriage length; 4 bearings; carriage weight = 7.0 lbs. (3,17 kg)

### 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

### - With 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*.