Joyce/Dayton offers Ball Screw Jacks in several designs including:
- Translating
- Keyed for traveling nut (KFTN)
- Double clevis
- Trunnion mount

A guide for ordering is on pages 82 and 83.
**Ball Screw Jacks Ordering Information**

**Instructions:** Select a model number from this chart.

<table>
<thead>
<tr>
<th>1-Ton Standard</th>
<th>2-Ton Standard</th>
<th>2-Ton Reverse Base Standard</th>
<th>5-Ton Standard</th>
<th>10-Ton Standard</th>
<th>10-Ton Heavy Duty</th>
<th>20-Ton Standard</th>
<th>30-Ton Standard</th>
<th>50-Ton Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>WBL51</td>
<td>WB62</td>
<td>RWB62</td>
<td>WBL10</td>
<td>WBL810</td>
<td>WBB10</td>
<td>WB20</td>
<td>WB1130</td>
<td>WB1150</td>
</tr>
<tr>
<td>WBL201</td>
<td>WB122</td>
<td>RWB122</td>
<td>WBB242</td>
<td>WBL2410</td>
<td>WBB2410</td>
<td>WB2420</td>
<td>WB3320</td>
<td>WB3250</td>
</tr>
<tr>
<td>1-Ton Heavy Duty</td>
<td>2-Ton High Lead</td>
<td>2-Ton Reverse Base High Lead</td>
<td>5-Ton High Lead</td>
<td>10-Ton Standard High Lead</td>
<td>10-Ton Heavy Duty High Lead</td>
<td>50-Ton Reverse Base</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WBS1</td>
<td>HWB62</td>
<td>RWB62</td>
<td>HWB85</td>
<td>HWB810</td>
<td>HWB810</td>
<td>RWB1150</td>
<td>RWB3250</td>
<td></td>
</tr>
<tr>
<td>WBS2</td>
<td>HWB122</td>
<td>RWB122</td>
<td>HWB125</td>
<td>HWB2410</td>
<td>HWB2410</td>
<td>RWB1150</td>
<td>RWB3250</td>
<td></td>
</tr>
<tr>
<td>(plain end)</td>
<td>(load pad)</td>
<td>(threaded end)</td>
<td>(threaded end)</td>
<td>(threaded end)</td>
<td>(threaded end)</td>
<td>(threaded end)</td>
<td>(threaded end)</td>
<td></td>
</tr>
<tr>
<td>WBS3</td>
<td>RWB242</td>
<td>RWB242</td>
<td>RWB245</td>
<td>RWB2410</td>
<td>RWB2410</td>
<td>RWB1150</td>
<td>RWB3250</td>
<td></td>
</tr>
<tr>
<td>(male clevis)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Sample Part Number:** WB65U4S-6.0-STDX-STDX-B

**Jack Configuration**

- **U=Upright**
- **I=Inverted**

**End Conditions**

- **T1** (plain end)
- **T2** (load pad)
- **T3** (threaded end)
- **T4** (male clevis)

**Ball Screw Jack Rise**

Rise is travel expressed in inches and not the actual screw length.

**Jack Designs**

- **S=Translating**
- **K=Keyed for Non Rotation**
- **N=Traveling Nut**
- **D=Double Clevis**
- **A=KFTN Trunnion**
- **T=Trunnion**

**Important Note:** *Not self-locking, may lower under load. Brake motors or external locking systems are required.

H: indicates High Lead (2-ton, 5-ton and 10-ton only).

R: Reverse Base Jack (2-ton and 50-ton only).

**Sample Part Number:** WB65U4S-6.0-STDX-STDX-B

**Jack Configuration**

- **U=Upright**
- **I=Inverted**

**End Conditions**

- **T1** (plain end)
- **T2** (load pad)
- **T3** (threaded end)
- **T4** (male clevis)

**Ball Screw Jack Rise**

Rise is travel expressed in inches and not the actual screw length.

**Jack Designs**

- **S=Translating**
- **K=Keyed for Non Rotation**
- **N=Traveling Nut**
- **D=Double Clevis**
- **A=KFTN Trunnion**
- **T=Trunnion**

**Important Note:** *Not self-locking, may lower under load. Brake motors or external locking systems are required.

H: indicates High Lead (2-ton, 5-ton and 10-ton only).

R: Reverse Base Jack (2-ton and 50-ton only).

**Sample Part Number:** WB65U4S-6.0-STDX-STDX-B

**Jack Configuration**

- **U=Upright**
- **I=Inverted**

**End Conditions**

- **T1** (plain end)
- **T2** (load pad)
- **T3** (threaded end)
- **T4** (male clevis)

**Ball Screw Jack Rise**

Rise is travel expressed in inches and not the actual screw length.

**Jack Designs**

- **S=Translating**
- **K=Keyed for Non Rotation**
- **N=Traveling Nut**
- **D=Double Clevis**
- **A=KFTN Trunnion**
- **T=Trunnion**

**Important Note:** *Not self-locking, may lower under load. Brake motors or external locking systems are required.

H: indicates High Lead (2-ton, 5-ton and 10-ton only).

R: Reverse Base Jack (2-ton and 50-ton only).
Instructions: Select the appropriate shaft codes for both right and left hand shafts. One shaft code must be specified for each side of the jack.

Screw Stops (p. 10) and Boots (pp. 170-172)
Screw stops are optional on ball screw jacks. When specified the closed height of the jack and the protection tube length may be increased.
When boots are added to ball screw jacks, the closed height of the jack may be increased.

Geared Potentiometers (p. 176)
POTA=0-10V (IP65)
POTB=4-20MA (IP65)
POTC=0-10V w/2 switches*
POTD=4-20MA w/2 switches*
*Optional IP65 rating available.

Encoders and Electronic Limit Switches
ENCX=Encoder (p. 178)
ELS2=2 Position Electronic Switch
ELS4=4 Position Electronic Switch
ELS6=6 Position Electronic Switch

Screw Stops (p. 10) and Boots (pp. 170-172)
Screw stops are optional on ball screw jacks. When specified the closed height of the jack and the protection tube length may be increased.
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POTC=0-10V w/2 switches*
POTD=4-20MA w/2 switches*
*Optional IP65 rating available.

Encoders and Electronic Limit Switches
ENCX=Encoder (p. 178)
ELS2=2 Position Electronic Switch
ELS4=4 Position Electronic Switch
ELS6=6 Position Electronic Switch

Motors for Systems and Direct Drive (p. 185)
• All standard motors are 3-phase, 208-230/460 VAC or 230/460 VAC. Other motor options are available. Specify the appropriate motor size from the chart on the right.
• Refer to the "Additional Options" chart on the preceding page as needed.
• Brake motors (M2) are required for ball screw jacks.
• If the motor frequency will be varied to provide a "soft" start, an inverter duty brake motor may be required.

Motors
Size Code
1/4 HP K
1/3 HP A
1/2 HP B
3/4 HP C
1 HP D
1-1/2 HP E
2 HP F
3 HP L
5 HP G
7-1/2 HP H
10 HP I
15 HP J

Motor Mounts (p. 185)
Ordering Example:
MMA A
MMA=56C
MMB=140TC
MMC=180TC
MMD=210TC
Motor code from chart at left

Standard motor adapters are aluminum.

Mechanical Limit Switches (pp. 174-175)

Models
Model Code
LS7-402 LT
LS8-402 LA
LS8-404 LB
LS9-502 LC
LS9-503 LD
LS9-504 LE
LS9-505 LF
LS9-506 LG
LS9-507 LH

Available Positions

Number of DPDT Switches (see p. 175)
NOTE: Will always be 0 for LS7 models

Left Side Shaft Options

Right Side Shaft Options

• 2, 5, 10, 15, and 20 Ton ball screw jacks are available with positions #1, #3, and #5.
• 30-ton and 50-ton ball screw jacks are available with positions #1, #4, #7 and #8.
• These positions are not standard. Contact Joyce/Dayton with your requirements.

The horizontal portion of each line represents the jack’s maximum dynamic capacity. Under static conditions, these lines can be exceeded. Please contact factory for assistance.
### BALL SCREW JACKS SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity</th>
<th>Screw Diameter (Inches)</th>
<th>Thread</th>
<th>Lead Ratio</th>
<th>Worm Gear</th>
<th>Worm Shaft Turns for 1&quot; Travel</th>
<th>Tare Torque (Inch Lbs.)</th>
<th>Starting Torque (Inch Lbs.)</th>
<th>Operating Torque (Inch Lbs.)</th>
<th>Efficiency Rating % Approx</th>
<th>Screw Torque (Inch Lbs.)</th>
<th>Worm Holding Torque</th>
<th>Ball Nut Life at Rated Load (Inch Screw x 1000)</th>
<th>Basic Jack Weight (Lbs.)</th>
<th>Jack Weight per Inch Travel (Lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WBL51</td>
<td>1 ton</td>
<td>3/4</td>
<td>0.2</td>
<td>5:1</td>
<td>25</td>
<td>3</td>
<td>.014W*</td>
<td>.012W*</td>
<td>.005W*</td>
<td>25.1</td>
<td>.012W*</td>
<td>51.7</td>
<td>.006W*</td>
<td>.012W*</td>
<td>8.0</td>
</tr>
<tr>
<td>WBL201</td>
<td>2000 lb</td>
<td>3</td>
<td>0.25</td>
<td>6:1</td>
<td>24</td>
<td>4</td>
<td>.015W*</td>
<td>.013W*</td>
<td>.006W*</td>
<td>38.5</td>
<td>.004W*</td>
<td>642</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>WBL51</td>
<td>1 ton</td>
<td>3/4</td>
<td>0.2</td>
<td>5:1</td>
<td>25</td>
<td>3</td>
<td>.014W*</td>
<td>.012W*</td>
<td>.005W*</td>
<td>25.1</td>
<td>.012W*</td>
<td>51.7</td>
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<tr>
<td>WBL201</td>
<td>2000 lb</td>
<td>3</td>
<td>0.25</td>
<td>6:1</td>
<td>24</td>
<td>4</td>
<td>.015W*</td>
<td>.013W*</td>
<td>.006W*</td>
<td>38.5</td>
<td>.004W*</td>
<td>642</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Important Note:** Ball Screw Jacks are not self-locking. Brake motors or external locking systems are required.

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**Important Note:** Ball Screw Jacks are not self-locking. Brake motors or external locking systems are required.

(R): Reverse Base Jack.

*W*: Load in pounds.

**Tare Torque:** Initial torque to overcome seal and normal assembly drag. This value must be added to starting torque or operating torque values.

**Starting Torque:** Torque value required to start moving a given load (dissipates to operating torque values once the load begins moving).

**Operating Torque:** Torque required to continuously raise a given load at the input RPM listed.

**Note:** If your actual input RPM is 20% higher or lower than the listed RPM, please refer to our JAX® package to determine actual torque values at your RPM.

**Screw Torque:** Torque required to resist screw rotation (Translating Design Jacks) and traveling nut rotation (Keyed for Traveling Nut Design Jacks).

**Worm Holding Torque:** Torque required to prevent input shaft (worm) from backdriving.

**Lead:** The distance traveled axially in one rotation of the lifting screw.

**Pitch:** The distance from a point on a screw thread to a corresponding point on the next thread, measured axially.
BALL SCREW JACKS

1 TON - 3/4" SCREW STANDARD DUTY

WBL 51 / WBL 201

Upright

Typical Plan View

Inverted travel nut

Typical Plan View

Inverted traveling nut

Note: Drawings are artist’s conception — not for certification; dimensions are subject to change without notice.
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BALL SCREW JACKS

2 TON REVERSE BASE - 1" SCREW STANDARD

RWB 62 / RWB 122 / RWB 242

Note: Drawings are artist’s conception — not for certification; dimensions are subject to change without notice.
BALL SCREW JACKS

2 TON - 1" SCREW HIGH LEAD

HWB 62 / HWB 122 / HWB 242

Inverted

Upright

Typical Plan View

Right Side

Inverted traveling nut

Left Side

FOR DOUBLE CLEVIS DESIGN
CONTACT JOYCE/DAYTON

Note: Drawings are artist’s conception — not for certification; dimensions are subject to change without notice.
BALL SCREW JACKS

2 TON REVERSE BASE - 1" SCREW HIGH LEAD

RHWB 62 / RHWB 122 / RHWB 242

Note: Drawings are artist’s conception — not for certification; dimensions are subject to change without notice.

For Double Clevis Design
Contact Joyce/Dayton
BALL SCREW JACKS

5 TON - 1 1/2" SCREW STANDARD

WB 65 / WB 125 / WB 245

Upright

Inverted

Upright traveling nut

Typical Plan View

Inverted traveling nut

FOR DOUBLE CLEVIS DESIGN
CONTACT JOYCE/DAYTON

Note: Drawings are artist’s conception — not for certification; dimensions are subject to change without notice.
BALL SCREW JACKS

5 TON - 1 1/2" SCREW HIGH LEAD

HWB 65 / HWB 125 / HWB 245

Note: Drawings are artist’s conception — not for certification; dimensions are subject to change without notice.
BALL SCREW JACKS

10 TON - 1 1/2" SCREW STANDARD

WBL 810 / WBL 2410

Upright

Top of Jack

1/4 (3) Bolts Ø2 3/4 B.C.

End Conditions (Shown at Minimum Closed Dimensions)

1 1/2

3/8 Rise

Inverted traveling nut

Typical Plan View

Right Side

Typical Plan View

Left Side

Inverted traveling nut

FOR DOUBLE CLEVIS DESIGN
CONTACT JOYCE/DAYTON

Note: Drawings are artist’s conception — not for certification; dimensions are subject to change without notice.
BALL SCREW JACKS

10 TON - 1 1/2" SCREW STANDARD HIGH LEAD

HWBL 810 / HWBL 2410

Upright

Typical Plan View

Inverted traveling nut

FOR DOUBLE CLEVIS DESIGN
CONTACT JOYCE/DAYTON

Note: Drawings are artist's conception — not for certification; dimensions are subject to change without notice.
BALL SCREW JACKS

10 TON - 2’ SCREW HEAVY DUTY

WB 810 / WB 2410

Note: Drawings are artist’s conception — not for certification; dimensions are subject to change without notice.
BALL SCREW JACKS

10 TON - 2° SCREW HEAVY DUTY HIGH LEAD

HVB 810 / HVB 2410

Upright

Typical Plan View

Right Side

FOR DOUBLE CLEVIS DESIGN CONTACT JOYCE/DAYTON

Note: Drawings are artist's conception — not for certification; dimensions are subject to change without notice.
Note: Drawings are artist’s conception — not for certification; dimensions are subject to change without notice.
BALL SCREW JACKS

3D TON - 3" SCREW STANDARD

WB 1130 / WB 3230

Note: Drawings are artist’s conception — not for certification; dimensions are subject to change without notice.

2D and 3D models available on website • Ordering information on pages 82 and 83

800-523-5204
sales@joycedayton.com
joycedayton.com
BALL SCREW JACKS

50 TON - 4' SCREW STANDARD

WB 1150 / WB 3250

Upright

Typical Plan View

3/8 X 3/16 X 2 1/4 LG.
KEYWAY BOTH ENDS

Left Side

Inverted

Note: Drawings are artist’s conception — not for certification; dimensions are subject to change without notice.
BALL SCREW JACKS

50 TON - 4” SCREW REVERSE BASE

RWB 1150 / RWB 3250

Note: Drawings are artist’s conception — not for certification; dimensions are subject to change without notice.

2D and 3D models available on website • Ordering information on pages 82 and 83

800-523-5204 sales@joycedayton.com joycedayton.com
Joyce ball screw ComDRIVEs® combine a ball screw jack, motor and gear reducer into a single compact unit. Ball screw ComDRIVEs are available in 2-ton through 30-ton capacities. They provide travel speeds up to 55.5 inches per minute. Ball screw ComDRIVEs require up to two-thirds less input torque to move the load than a similarly sized machine screw ComDRIVE. They require a brake motor or external locking device to hold position.

Four standard end conditions are available and ball screw ComDRIVEs can be fitted with protective boots. Limit switches, oversized ball bearings and other options are also available.

Ball Screw ComDRIVE Benefits:

• Can power an entire jacking system.
• Reduces the number of components that must be specified.
• Simplifies design.
• Reduces installation costs because only a single plate is needed to mount the jack body.
• Reduces the number or couplings and shafts required in multi-jack systems.
• Standard 230/460 volt, 3-phase, 60 hertz motor included (brake recommended).

Ball screw ComDRIVEs can be specified without the motor and the reducer flange accepts standard NEMA motor frame sizes.

Joyce/Dayton can customize ball screw ComDRIVEs to meet your specifications. Ask about larger size ComDRIVEs.

Joyce/Dayton offers Ball Screw ComDRIVEs in several designs including:
• Translating
• Keyed for traveling nut (KFTN)
• Double clevis
• Trunnion mount
A guide for ordering is on pages 104 and 105.
BALL SCREW ComDRIVEs®

2D and 3D models available on website • Ordering information on pages 104 and 105

800-523-5204 sales@joycedayton.com joycedayton.com
Instructions: Select a model number from this chart.

<table>
<thead>
<tr>
<th>2-Ton Standard</th>
<th>5-Ton Standard</th>
<th>10-Ton Standard</th>
<th>10-Ton Heavy Duty</th>
<th>20-Ton Standard</th>
<th>30-Ton Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD8B62 CD8B122 CD8B242</td>
<td>CD8B85 CD8B125 CD8B245</td>
<td>CD8B810 CD8B2410</td>
<td>CD8B810 CD8B2410</td>
<td>CD8B810 CD8B2410</td>
<td>CD8B810 CD8B2410</td>
</tr>
<tr>
<td>2-Ton High Lead</td>
<td>5-Ton High Lead</td>
<td>10-Ton Standard High Lead</td>
<td>10-Ton Heavy Duty High Lead</td>
<td>20-Ton Standard High Lead</td>
<td>30-Ton Standard High Lead</td>
</tr>
<tr>
<td>CD8H862 CD8H865 CD8H8245</td>
<td>CD8H865 CD8H8125 CD8H8245</td>
<td>CD8H8810 CD8H82410</td>
<td>CD8H8810 CD8H82410</td>
<td>CD8H8810 CD8H82410</td>
<td>CD8H8810 CD8H82410</td>
</tr>
</tbody>
</table>

Important Note: Not self-locking, may lower under load. Brake motors or external locking systems are required.

**H:** High lead (2-ton, 5-ton and 10-ton only).

Sample Part Number: **CDHB65U1N-18.50-STDX-P3AE-M2**

### Jack Configuration
- **U** = Upright
- **I** = Inverted

### End Conditions
- **1** = T1 (plain end)
- **2** = T2 (load pad)
- **3** = T3 (threaded end)
- **4** = T4 (male clevis)

### Jack Designs
- **S** = Translating
- **K** = Keyed for Non Rotation**
- **N** = Traveling Nut
- **D** = Double Clevis
- **A** = KFTN Trunnion**
- **T** = Trunnion*

**Important Note:** *(see below)

**Left Side Shaft Code**
- XXXX = Remove STDX = Standard
- For optional shaft codes, see page 105.

**Right Side Shaft Code**
- XXXX = Remove STDX = Standard
- For optional shaft codes, see page 105.

**Ball Screw ComDRIVE® Rise**
- Rise is travel expressed in inches and not the actual screw length.

**Additional Options**
- X = Standard Jack, no additional options
- S = Additional Specification Required (comment as necessary)
- Protective Boots pp. 170-172
- B = Protective Boot
- P = Dual Protective Boot

**Finishes p. 179**
- F1 = Do Not Paint
- F2 = Epoxy Paint
- F3 = Outdoor Paint

**Process**
- M1 = Less Motor
- M2 = Brake Motor
- M3 = Single Phase Motor (120VAC)
- M4 = 50Hz Motor

**Grease/Seals**
- H1 = High Temperature Operation
- H2 = Food Grade

**Screw Stops**
- ST0 = Extending Stop is standard on ball screw ComDRIVE

*Specify as many options as needed

**Standard trunnion mounts available on 2-ton through 20-ton jacks. (See page 173)**

**Keyed for non-rotation is not a standard option. Contact Joyce/Dayton.**
**Instructions:** Select the appropriate shaft codes for both right and left hand shafts. One shaft code must be specified for each side of the ComDRIVE®.

**Screw Stops (p. 10) and Boots (pp. 170-172)**
Extending screw stops are standard on ball screw ComDRIVEs and they are not adjustable. When boots are added to ball screw ComDRIVEs, the closed height of the jack may be increased.

**Geared Potentiometers (p. 176)**
- POTA=0-10V (IP65)
- POTB=4-20MA (IP65)
- POTC=0-10V w/2 switches*
- POTD=4-20MA w/2 switches*

*Optional IP65 rating available.

**Encoders and Electronic Limit Switches**
- ENCX=Encoder (p. 178)
- ELS2=2 Position Electronic Switch
- ELS4=4 Position Electronic Switch
- ELS6=6 Position Electronic Switch

**ComDrive Reducers (pp. 107-117)**

<table>
<thead>
<tr>
<th>Mounting Positions</th>
<th>Code</th>
<th>P1</th>
<th>P2</th>
<th>P3</th>
<th>P4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Side Shaft Positions</td>
<td></td>
<td><img src="image1" alt="Image" /></td>
<td><img src="image2" alt="Image" /></td>
<td><img src="image3" alt="Image" /></td>
<td><img src="image4" alt="Image" /></td>
</tr>
<tr>
<td>Right Side Shaft Positions</td>
<td></td>
<td><img src="image5" alt="Image" /></td>
<td><img src="image6" alt="Image" /></td>
<td><img src="image7" alt="Image" /></td>
<td><img src="image8" alt="Image" /></td>
</tr>
</tbody>
</table>

Ordering Example: **P2AC**  
Motor code from chart at right

**Ratio**
- 5:1 Code A
- 7.5:1 Code B
- 10:1 Code C

**Motors**
- 1/4 HP K
- 1/3 HP A
- 1/2 HP B
- 3/4 HP C
- 1 HP D
- 1-1/2 HP E
- 2 HP F
- 3 HP L
- 5 HP G
- 7-1/2 HP H

All standard motors are 3-phase, 208-230/460 VAC or 230/460 VAC. Other motor options are available including international voltages, and single phase AC. Specify the appropriate motor size from the chart above. Refer to the “Additional Options” chart on the preceding page as needed. Brake motors are required for ball screw ComDRIVEs. Contact Joyce/Dayton for other options.

**Mechanical Limit Switches (pp. 174-175)**

<table>
<thead>
<tr>
<th>Models</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS7-402</td>
<td>L1</td>
</tr>
<tr>
<td>LS8-402</td>
<td>L2</td>
</tr>
<tr>
<td>LS8-404</td>
<td>LB</td>
</tr>
<tr>
<td>LS9-502</td>
<td>LC</td>
</tr>
<tr>
<td>LS9-503</td>
<td>LD</td>
</tr>
<tr>
<td>LS9-504</td>
<td>LE</td>
</tr>
<tr>
<td>LS9-505</td>
<td>LF</td>
</tr>
<tr>
<td>LS9-506</td>
<td>LG</td>
</tr>
<tr>
<td>LS9-507</td>
<td>LH</td>
</tr>
</tbody>
</table>

**Available Positions**

<table>
<thead>
<tr>
<th>Available Positions</th>
<th>1</th>
<th>2*</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6*</th>
<th>7</th>
<th>8</th>
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</thead>
<tbody>
<tr>
<td>Left Side Shaft Options</td>
<td><img src="image9" alt="Image" /></td>
<td><img src="image10" alt="Image" /></td>
<td><img src="image11" alt="Image" /></td>
<td><img src="image12" alt="Image" /></td>
<td><img src="image13" alt="Image" /></td>
<td><img src="image14" alt="Image" /></td>
<td><img src="image15" alt="Image" /></td>
<td><img src="image16" alt="Image" /></td>
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<tr>
<td>Right Side Shaft Options</td>
<td><img src="image17" alt="Image" /></td>
<td><img src="image18" alt="Image" /></td>
<td><img src="image19" alt="Image" /></td>
<td><img src="image20" alt="Image" /></td>
<td><img src="image21" alt="Image" /></td>
<td><img src="image22" alt="Image" /></td>
<td><img src="image23" alt="Image" /></td>
<td><img src="image24" alt="Image" /></td>
</tr>
</tbody>
</table>

* 2, 5, 10, and 20-ton ball screw ComDRIVEs are available with positions #1, #3, and #5.
* 30-ton ball screw ComDRIVEs are available with positions #1, #4, #7 and #8.
* These positions are not standard. Contact Joyce/Dayton with your requirements.
### BALL SCREW ComDRiVEs® SPECIFICATIONS

#### 2-Ton Model Number
<table>
<thead>
<tr>
<th>Model Number</th>
<th>CDB62</th>
<th>CDB122</th>
<th>CDB242</th>
<th>CDHB62</th>
<th>CDHB122</th>
<th>CDHB242</th>
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<tbody>
<tr>
<td>Reducer Ratio</td>
<td>5</td>
<td>7 1/2</td>
<td>10</td>
<td>5</td>
<td>7 1/2</td>
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<tr>
<td>Travel Speed IPM</td>
<td>13.88</td>
<td>9.50</td>
<td>7.04</td>
<td>6.94</td>
<td>4.75</td>
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<tr>
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<tr>
<td>1/2 HP</td>
<td>1,025</td>
<td>1,455</td>
<td>1,935</td>
<td>2,595</td>
<td>3,015</td>
<td>4,000</td>
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<tr>
<td>3/4 HP</td>
<td>1,580</td>
<td>2,220</td>
<td>2,925</td>
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#### 5-Ton Model Number
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<td>10</td>
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<tr>
<td>Travel Speed IPM</td>
<td>20.29</td>
<td>13.34</td>
<td>6.67</td>
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<td>55.50</td>
<td>28.16</td>
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<td>Lifting Capacity, Lbs.</td>
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<td>10,000</td>
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<td>1 HP</td>
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<tr>
<td>1 1/2 HP</td>
<td>10,000</td>
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<tr>
<td>2 HP</td>
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<th>Model Number</th>
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<th>CDB2410</th>
<th>CDHBL810</th>
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<td>Reducer Ratio</td>
<td>5</td>
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<tr>
<td>Travel Speed IPM</td>
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<td>Lifting Capacity, Lbs.</td>
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<td>1 1/2 HP</td>
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<td>2 HP</td>
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<td>5 HP</td>
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#### 20-Ton Model Number
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<thead>
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<th>Model Number</th>
<th>CDB20</th>
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</thead>
<tbody>
<tr>
<td>Reducer Ratio</td>
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<td>10</td>
</tr>
<tr>
<td>Travel Speed IPM</td>
<td>20.81</td>
<td>10.56</td>
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<tr>
<td>Lifting Capacity, Lbs.</td>
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<td>14,285</td>
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<tr>
<td>1 1/2 HP</td>
<td>11,480</td>
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<td>2 HP</td>
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<td>5 HP</td>
<td>40,000</td>
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#### 30-Ton Model Number
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<td>Reducer Ratio</td>
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<td>7 1/2 HP</td>
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**Important Note:** Ball Screw ComDRiVES are not self-locking. Brake motors or external locking systems are required.
BALL SCREW ComDRIVEs®

2D and 3D models available on website • Ordering information on pages 104 and 105

Note: Drawings are artist’s conception — not for certification; dimensions are subject to change without notice.

Note: FOR LIFTING CAPACITIES SEE PAGE 107.
BALL SCREW ComDRIVEs®

2 TON REVERSE BASE - 1" SCREW HIGH LEAD

CDHB 62
CDHB 122
CDHB 242

Upright

CDHB 62
CDHB 122
CDHB 242

Upright traveling nut

Inverted traveling nut

Inverted

NOTE: FOR LIFTING CAPACITIES SEE PAGE 107.

Note: Drawings are artist's conception — not for certification; dimensions are subject to change without notice.
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Note: For lifting capacities, see page 107.
10 TON - 1 1/2" SCREW STANDARD

CBBL 810
CBBL 2410

End Conditions Shown At Minimum Closed Dimensions

Upright

Upright traveling nut

Inverted traveling nut

Inverted

Reducer Dimensions

<table>
<thead>
<tr>
<th>HP</th>
<th>1, 1 1/2, 2, 3, 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>8 11/32</td>
</tr>
<tr>
<td>B</td>
<td>11 21/32</td>
</tr>
<tr>
<td>C</td>
<td>1 3/4</td>
</tr>
<tr>
<td>D</td>
<td>3 3/8</td>
</tr>
<tr>
<td>E</td>
<td>6 7/16</td>
</tr>
<tr>
<td>F</td>
<td>5 7/8</td>
</tr>
<tr>
<td>G</td>
<td>4 15/32</td>
</tr>
<tr>
<td>H</td>
<td>0</td>
</tr>
<tr>
<td>J</td>
<td>4 11/16</td>
</tr>
<tr>
<td>K</td>
<td>11/32</td>
</tr>
</tbody>
</table>

Typical Plan View

Left Side

Right Side

Reduced Shown Rotated 180° From Plan View

Note: Drawings are artist’s conception — not for certification; dimensions are subject to change without notice.

Note: For lifting capacities see page 107.
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10 TON - 2’ SCREW HEAVY DUTY

CDB 810
CDB 2410

Upright

Double clevis

Inverted traveling nut

Typical Plan View

Left Side

Right Side

Note: For lifting capacities see page 107.

Typical Plan View

Note: Drawings are artist’s conception — not for certification; dimensions are subject to change without notice.

Joycedayton.com

2D and 3D models available on website • Ordering information on pages 104 and 105

Sales@joycedayton.com

800-523-5204
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