## METRIC SCREW JACKS ORDERING INFORMATION

Instructions: Select a model number from this chart.

| 10 kN | $\mathbf{2 5} \mathrm{kN}$ | $\mathbf{5 0}$ kN | 100 kN |
| :--- | :--- | :--- | :--- |
| MWJ51 <br> MWJ201 | MWJ62.5 <br> MWJ122.5 <br> MWJ242.5 | MWJ65 <br> MWJ125 | MWJ810 <br> MWJ2410 |

## Sample Part Number: MWJ65U2S-300-STDX-STDX-B



## Additional

 Options*X=Standard Jack, no additional options

## $\mathrm{S}=$ Additional

Specification Required
(comment as necessary)

## Anti-Backlash

p. 181

A=Split Nut
A90=A90 Design
A95=A95 Design
Protective Boots pp. 170-173
B=Protective Boot D=Dual Protective Boot

Finishes p. 182 F1=Do Not Paint F2=Epoxy Paint F3=Outdoor Paint Process

## Motor Options

M1=Less Motor
M2=Brake Motor
M3=Single Phase Motor (120VAC)
M4 $=50 \mathrm{~Hz}$ Motor
M5=Special Motor

## Grease/Seals

H1=High Temperature
Operation
H2=Food Grade
Screw Stops
ST0=Extending
ST1=Retracting ST2=Both

* Specify as many options as needed

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## METRIC SCREW JACKS surrows

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. 170-173)

Screw stops are optional on metric screw jacks. When specified, the closed height of the jack and the protection tube length may be increased.
When boots are added to metric jacks, the closed height of the jack may be increased.

Mechanical Counters (p. 180) CNTO $=0.025 \mathrm{~mm}$ increments Note: Contact Joyce for availability and options.



Encoders (pp. 176-177)
ENCA=Absolute Encoder 0-10 VDC, programmable ENCB=Absolute Encoder 4-20mA, programmable ENCC=Absolute Encoder CAN Open ENCD=Absolute Encoder SSI ENCS=Stainless Steel Incremental Encoder 1024 PPR ENCX=Incremental Encoder 200 PPR ENCY=Incremental Encoder 1024 PPR

Motor Mounts (pp. 178-179) Ordering Example:

## MMA A



MMB=140TC from chart at left
MMC=180TC For servo motor
MMD=210TC mounts see p. 178

- Standard motor adapters are aluminum.
- Motor adapters for many IEC motors are available as an option.

Mechanical Limit Switches (p. 174)
Ordering Example: LA13

| Models |  |
| :---: | :---: |
| Model | Code |
| LS7-402 | LI |
| LS8-402 | LA |
| LS8-404 | LB |



- $25 \mathrm{kN}, 50 \mathrm{kN}$, and 100 kN metric jacks are available with positions \#1, \#3, and \#5.
*These positions are not standard. Contact Joyce with your requirements.


## METRIC SCREW JACKS seteraramus

| Model | Gapacity | Screw Diameter (mm) | Thread Pitch/Lead | Worm Gear Ratio | Worm Shaft Turns for 1mm Travel | Tare Torque (Nm) | Starting Torque (Nm) | Operating Torque (Nm) | Efficiency Rating \% Approx. | Screw <br> Torque <br> (Nm) | Basic Jack Weight (Kg) | Screw Weight <br> (Kg) per 25 mm Travel |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MWJ51 | 10kN | 20 | 5 mm | 5:1 | 1 | 0.33 | .95W* | $\begin{gathered} .70 W^{\star} \\ @ 500 \text { RPM } \end{gathered}$ | 22.7 | $2 W^{*}$ | 2.7 | 0.14 |
| MWJ201 |  |  |  | 20:1 | 4 |  | .41W* | $.23 W^{*}$ $@$ 500 RPM | 17.0 |  |  |  |
| MWJ62.5 | 25 kN | 30 | 6 mm | 6:1 | 1 | 0.67 | 1.01W* | $\begin{gathered} .81 W^{*} \\ @ \\ 500 \text { RPM } \end{gathered}$ | 19.6 | $3 W^{*}$ | 6.8 | 0.18 |
| MWJ122.5 |  |  |  | 12:1 | 2 |  | .62W* | $\begin{gathered} .45 W^{*} \\ @ \\ 500 \text { RPM } \end{gathered}$ | 17.8 |  |  |  |
| MWJ242.5 |  |  |  | 24:1 | 4 |  | .44W* | $\begin{gathered} .27 \mathrm{~W}^{\star} \\ @ 500 \mathrm{RPM} \end{gathered}$ | 14.7 |  |  |  |
| MWJ65 | 50kN | 40 | 9 mm | 6:1 | 0.67 | 1.13 | 1.64W* | $\begin{gathered} 1.14 W^{*} \\ @ 300 \text { RPM } \end{gathered}$ | 20.9 | 4W* | 14.5 | 0.32 |
| MWJ125 |  |  |  | 12:1 | 1.33 |  | 1.03W* | $\begin{gathered} .64 \mathrm{~W}^{*} \\ @ 300 \mathrm{RPM} \end{gathered}$ | 18.7 |  |  |  |
| MWJ245 |  |  |  | 24:1 | 2.67 |  | .74W* | $\begin{gathered} .39 W^{*} \\ \text { @ } 300 \text { RPM } \\ \hline \end{gathered}$ | 15.2 |  |  |  |
| MWJ810 | 100kN | 55 | 12 mm | 8:1 | 0.67 | 2.26 | 1.53W* | $\begin{gathered} 1.18 W^{*} \\ @ \\ 200 \text { RPM } \end{gathered}$ | 20.2 | $5 W^{*}$ | 19.5 | 0.59 |
| MWJ2410 |  |  |  | 24:1 | 2 |  | .76W* | $\begin{gathered} .49 W^{*} \\ @ 100 \text { RPM } \end{gathered}$ | 16.1 |  |  |  |

*W: Load in kN.
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.
Screw Torque: Torque required to resist screw rotation (Translating Design Jacks) and traveling nut rotation (Keyed for Traveling Nut Design Jacks).
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.
Note: This chart is provided for reference only. For specific information such as column loading allowable continuous travel and other performance factors please contact Joyce/Dayton.


[^0]:    *Contact Joyce with your requirements.

