METRIC SCREW JACKS ORDERING INFORMATION

Instructions: Select a model number from this chart.

10 kN	25 kN		50 kN	100 kN				
MWJ51 MWJ201	MWJ62.5 MWJ122.5 MWJ242.5		MWJ65 MWJ125 MWJ245	MWJ810 MWJ2410				
Sample Part	'	MWJ65U2		DX-STDX-B				
Jack Configuration U=Upright I=Inverted			Left Side Shaft Code	Right Side Shaft Code	Additional Options*			
End Conditions 1=T1 (plain end)			(see below)	(see below)	X=Standard Jack, no additional options S=Additional Specification Required (comment as necessary) Anti-Backlash p. 181 A=Split Nut			
2=T2 (load pad)			XXXX=Remove STDX=Standard CUST=Custom For optional shaft codes, see page 73.	XXXX=Remove STDX=Standard CUST=Custom For optional shaft codes, see page 73.	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			
3=T3 (threaded end) (4=T4 (male clevis)		Metric Screw Jack Rise Rise is travel expressed in millimeters and not the actual screw length.						
Jack Designs	A	A			M4=50Hz Motor M5=Special Motor Grease/Seals H1=High Temperature Operation H2=Food Grade Screw Stops			
S=Translating	K=Keyed for Non Rotation	N=Traveling Nut	D=Double Clevis*	A=KFTN Trunnion* T=Trunnion*	ST0=Extending ST1=Retracting ST2=Both * Specify as many options as needed			
*Contact Joyce with your requirements.			<u> </u>					

^{*}Contact Joyce with your requirements.

METRIC SCREW JACKS SHAFT CODES

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)

CNT0=0.025 mm increments Note: Contact Joyce for availability and options.



Hand Wheels (p. 180)

HW04=4" dia. (102 mm) HW06=6" dia. (152 mm)



HW08=8" dia(203 mm)

HW12=12" dia (305 mm) jacks only.

HW10=10" dia(254 mm) Recommended for self-locking

Geared Potentiometers (p. 175)

POTA=0-10V

POTB=4-20mA

POTC=0-10V w/2 switches

POTD=4-20mA w/2 switches

IP65 rated enclosures

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

Motors for Systems and Direct Drives (pp. 178-179)

- 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.
- If the motor frequency will be varied to provide a "soft" start, an inverter duty motor may be required.
- International voltage motors are available.

Motors	
Size	Code
1/4 HP	K
1/3 HP	Α
1/2 HP	В
3/4 HP	С
1 HP	D
1-1/2 HP	E
2 HP	F
3 HP	L
5 HP	G

Motor Mounts (pp. 178-179)

Ordering Example:

MMA A

MMA=56C

MMB=140TC MMC=180TC

MMD=210TC

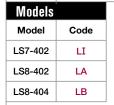
Motor code from chart at left

For servo motor 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



Number of **DPDT Switches** (see p. 174)

NOTE: Will always be 0 for LS7 models

	1	2*	3	4*	5	6*	7*	8*
Left Side Shaft Options								4
Right Side Shaft Options		2						4

25 kN, 50 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 SPECIFICATIONS

Model	Capacity	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 Torque (Nm)	Basic Jack Weight (Kg)	Screw Weight (Kg) per 25mm Travel
MWJ51	10LN	00	5mm	5:1	1	0.33	.95W*	.70W* @ 500 RPM	22.7	2W*	2.7	0.14
MWJ201	10kN 20	20		20:1	4		.41W*	.23W* @ 500 RPM	17.0			
MWJ62.5		30		6:1	1	0.67	1.01W*	.81W* @ 500 RPM	19.6	3W*	6.8	0.18
MWJ122.5	25kN 30		6mm	12:1	2		.62W*	.45W* @ 500 RPM	17.8			
MWJ242.5				24:1	4		.44W*	.27W* @ 500 RPM	14.7			
MWJ65				6:1	0.67		1.64W*	1.14W* @ 300 RPM	20.9			
MWJ125	50kN 40	40 9mm	12:1	1.33	1.13	1.03W*	.64W* @ 300 RPM	18.7	4W*	14.5	0.32	
MWJ245				24:1	2.67		.74W*	.39W* @ 300 RPM	15.2			
MWJ810	100kN	100kN 55	55 12mm	8:1	0.67	2.26	1.53W*	1.18W* @ 200 RPM	20.2	5W*	19.5	0.59
MWJ2410				24:1	2		.76W*	.49W* @ 200 RPM	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.