

MACHINE 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 machine screw jacks. When specified, the closed height of the jack and/or the protection tube length may be increased.

When boots are added to machine screw jacks, the closed height of the jack may be increased.

Mechanical Counters (p. 180)

CNT0=0.001" Increments

Note: Contact Joyce for availability and options.



Hand Wheels (p. 180)

HW04=4" dia
HW06=6" dia
HW08=8" dia
HW10=10" dia
HW12=12" dia




Recommended for self-locking jacks only.

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.
- Brake motors (M2) are recommended for jacks that are not self-locking, and jacks with double lead screws.
- If the motor frequency will be varied to provide a "soft" start an inverter duty motor may be required.

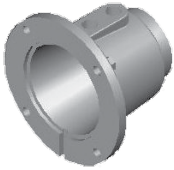
Motors

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 (pp. 178-179)

Ordering Example:

MMA A



MMA=56C Motor code from chart at left
MMB=140TC For servo motor mounts see p. 178
MMC=180TC
MMD=210TC

Standard motor adapters are aluminum.

Mechanical Limit Switches (p. 174)

Ordering Example: **LA13**

Models		Number of DPDT Switches (see p. 174)	Available Positions							
Model	Code		1	2*	3	4	5	6*	7	8
LS7-402	LI	NOTE: Will always be 0 for LS7 models								
LS8-402	LA									
LS8-404	LB									

Left Side Shaft Options
Right Side Shaft Options

*2, 3, 5, 10, 15, and 20 ton jacks are available with positions #1, #3, and #5
 *25, 30, 35, 50, 75, 100, and 150 ton jacks are available with positions #1, #4, #7, and #8
 *These positions are not standard. Contact Joyce with your requirements.

MACHINE SCREW JACKS SPECIFICATIONS

Model	Capacity	Screw Diameter (Inches)	Thread Pitch/Lead	Worm Gear Ratio	Worm Shaft Turns for 1" Travel	Tare Torque (Inch Lbs.)	Starting Torque (Inch Lbs.)	Operating Torque (Inch Lbs.)	Efficiency Rating % Approx.	Screw Torque (Inch Lbs.)	Basic Jack Weight (Lbs.)	Jack Weight per Inch Travel (Lbs.)					
WJ250	250 lbs.	5/8	.125 pitch STUB ACME	5:1	40	1	.047W*	.040W* @ 500 RPM	10.0	.083W*	1.2	0.1					
WJ500	500 lbs.	5/8	.125 pitch .250 lead STUB ACME	5:1	20	1	.041W*	.030W* @ 500 RPM	27.2	.079W*	1.3	0.1					
WJ1000	1,000 lbs.	5/8	.125 pitch STUB ACME	5:1	40	1	.030W*	.021W* @ 500 RPM	19.9	.059W*	1.3	0.1					
WJ51	1 ton	3/4	.200 pitch ACME 2C	5:1	25	3	.038W*	.026W* @ 500 RPM	25.0	.075W*	6	0.3					
WJ201				20:1	100		.017W*	.009W* @ 500 RPM	15.9								
(R)WJT62	2 ton	1	.250 pitch ACME 2C	6:1	24	4	.041W*	.028W* @ 500 RPM	24.2	.098W*	15	0.3					
(R)WJT122				12:1	48		.025W*	.015W* @ 500 RPM	22.0								
(R)WJT242				24:1	96		.018W*	.009W* @ 500 RPM	18.3								
(R)WJT252				25:1	100		.015W*	.0085W* @ 500 RPM	17.0								
D(R)WJ62			6:1	12	.250 pitch .500 lead ACME 2C		12:1	24	4	.057W*			.039W* @ 500 RPM	33.7	.139W*	15	0.3
D(R)WJ122			12:1	24						.035W*			.022W* @ 500 RPM	30.5			
D(R)WJ242			24:1	48						.025W*			.013W* @ 500 RPM	25.4			
WJ63	3 ton	1	.250 pitch ACME 2C	6:1	24	6	.040W*	.029W* @ 500 RPM	24.3	.098W*	17	0.4					
WJ123				12:1	48		.025W*	.016W* @ 500 RPM	22.2								
WJ243				24:1	96		.017W*	.009W* @ 500 RPM	18.5								
WJ253				25:1	100		.0155W*	.009W* @ 500 RPM	17.8								
DWJ63			6:1	12	.250 pitch .500 lead ACME 2C		12:1	24	6	.055W*			.041W* @ 500 RPM	33.8	.139W*	17	0.4
DWJ123			12:1	24						.034W*			.022W* @ 500 RPM	30.7			
DWJ243			24:1	48						.024W*			.013W* @ 500 RPM	25.6			
WJT65	5 ton	1 1/2	.375 pitch STUB ACME	6:1	16	10	.065W*	.044W* @ 300 RPM	23.0	.151W*	32	0.7					
WJT125				12:1	32		.041W*	.025W* @ 300 RPM	20.6								
WJT245				24:1	64		.029W*	.015W* @ 300 RPM	16.7								
WJT255			25:1	100	.250 pitch ACME 2C		12:1	24	10	.022W*			.011W* @ 300 RPM	13.4	.131W*	32	0.7
DWJ65			6:1	12						.072W*			.050W* @ 300 RPM	26.8			
DWJ125			12:1	24						.045W*			.028W* @ 300 RPM	23.9			
DWJ245			24:1	48						.033W*			.017W* @ 300 RPM	19.6			
WJ810	10 ton	2	.500 pitch ACME 2C	8:1	16	20	.061W*	.043W* @ 200 RPM	23.1	.195W*	43	1.3					
WJ2410				24:1	48		.030W*	.018W* @ 200 RPM	18.8								
WJ2510			25:1	100	.250 pitch ACME 2C		8:1	12	20	.024W*			.014W* @ 200 RPM	11.3	.161W*	43	1.3
DWJ810			8:1	12						.070W*			.062W* @ 200 RPM	31.9			
DWJ2410			24:1	36						.035W*			.026W* @ 200 RPM	25.9			

Important Note: Series DWJ double lead screw jacks and WJ500 screw jacks are not self-locking. Brake motors or external locking systems are recommended.

(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 the rated 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 JAX® Online 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).

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 refer to JAX® Online software or contact Joyce.