MACHINE SCREW JACKS ORDERING INFORMATION

Instructions: Select a model number from this chart.

Miniature	1-Ton	2-Ton	2-Ton Reverse Base	3-Ton	5-Ton	10-Ton	15-Ton	20-Ton
WJ250 WJ500* WJ1000	WJ51 WJ201	WJT62 WJT122 WJT242 WJT252	RWJT62 RWJT122 RWJT242 RWJT252	WJ63 WJ123 WJ243 WJ253	WJT65 WJT125 WJT245 WJT255	WJ810 WJ2410 WJ2510	WJ815 WJ2415 WJ2515	WJ820 WJ2420 WJ2520
		DWJ62* DWJ122* DWJ242*	DRWJ62* DRWJ122* DRWJ242*	DWJ63* DWJ123* DWJ243*	DWJ65* DWJ125* DWJ245*	DWJ810* DWJ2410*	DWJ815* DWJ2415*	DWJ820* DWJ2420*
25-Ton	**30-Ton**	**35-Ton**	**50-Ton**	**50-Ton Reverse Base**	**75-Ton**	**100-Ton**	**150-Ton**	**250-Ton**
WJ1125 WJ3225	WJ1130 WJ3230	WJ1135 WJ3235	WJT1150 WJT3250	RWJT1150 RWJT3250	WJ1175 WJ3275	WJ12100 WJ36100	WJ12150 WJ36150	WJ50250
DWJ1125* DWJ3225*	DWJ1130* DWJ3230*							

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

D: Double Lead Screw

R: Reverse Base Jack, (only available on 2-ton and 50-ton jacks).

Sample Part Number: WJT65U1N-18.50-STDX-STDX-B

Jack Configuration

U=Upright I=Inverted

End Conditions

1=T1
(plain end)

2=T2
(load pad)

3=T3
(threaded end)

4=T4
(male clevis)

Left Side Shaft Code
(see below)

XXXX=Remove
STDX=Standard
CUST=Custom

For optional shaft codes, see page 21.

Right Side Shaft Code
(see below)

XXXX=Remove
STDX=Standard
CUST=Custom

For optional shaft codes, see page 21.

Additional Options*

X=Standard Jack, no additional options

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=50Hz 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

Machine 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*

*Standard trunnion mounts available on 2-ton through 20-ton jacks. (See page 183)

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.	1/2	.125 pitch STUB ACME	5:1	40	1	.025W*	.018W* @ 500 RPM	23.0	.050W*	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			.250 pitch .500 lead ACME 2C	6:1	12		.057W*	.039W* @ 500 RPM	33.7	.139W*		
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			.250 pitch .500 lead ACME 2C	6:1	12		.055W*	.041W* @ 500 RPM	33.8	.139W*		
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			.250 pitch ACME 2C	25:1	100		.022W*	.011W* @ 300 RPM	13.4	.131W*		
DWJ65			.250 pitch .500 lead ACME 2C	6:1	12		.072W*	.050W* @ 300 RPM	26.8	.171W*		
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			.250 pitch ACME 2C	25:1	100		.024W*	.014W* @ 200 RPM	11.3	.161W*		
DWJ810			.333 pitch .666 lead ACME 2C	8:1	12		.070W*	.062W* @ 200 RPM	31.9	.228W*		
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.