

# 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*							

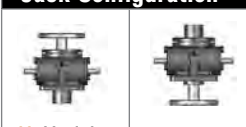
**Important Note:** \*Not self-locking, may lower under load. Brake motors or external locking systems are recommended.

**D:** Double Lead Screw

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

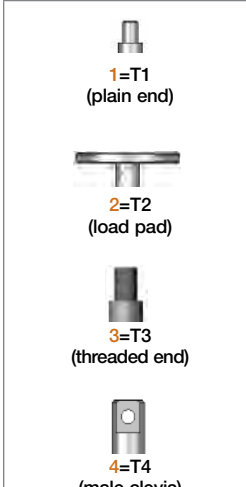
## Sample Part Number: WJT65U1N-18.50-STD-STD-B

**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			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.