

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	.024W*		.014W* @ 200 RPM	11.3	.161W*								
DWJ810			8:1	12	.333 pitch .666 lead ACME 2C		24:1	36	20	.070W*			.062W* @ 200 RPM	31.9	.228W*	43	1.3
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.

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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.)
WJ815	15 ton	2 1/4	.500 pitch ACME 2C	8:1	16	30	.069W*	.047W* @ 200 RPM	21.1	.210W*	59	1.4
WJ2415				24:1	48		.036W*	.020W* @ 200 RPM	16.6			
WJ2515			25:1	100	.250 pitch ACME 2C		.026W*	.015W* @ 200 RPM	10.2			
DWJ815		8:1			12		.333 pitch .666 lead ACME 2C	.079W*	.058W* @ 200 RPM	34.4		
DWJ2415			24:1	36				.041W*	.025W* @ 200 RPM	27.0		
WJ820	20 ton	2 1/2	.500 pitch ACME 2C	8:1	16	40	.075W*	.051W* @ 200 RPM	19.6	.227W*	77	1.9
WJ2420				24:1	48		.039W*	.022W* @ 200 RPM	15.4			
WJ2520			25:1	100	.250 pitch ACME 2C		.029W*	.016W* @ 200 RPM	9.4			
DWJ820		8:1			10.67		.375 pitch .750 lead ACME 2C	.088W*	.061W* @ 200 RPM	24.5		
DWJ2420			24:1	32				.046W*	.026W* @ 200 RPM	19.3		
WJ1125	25 ton	3 3/8	.666 pitch Stub ACME	11:1	16	50	.088W*	.055W* @ 200 RPM	18.3	.313W*	164	3.1
WJ3225				32:1	48		.053W*	.025W* @ 200 RPM	13.5			
DWJ1125		3 3/8	.562 pitch 1.125 lead ACME 2C	11:1	9.5		.106W*	.067W* @ 200 RPM	25.1			
DWJ3225				32:1	28.5		.063W*	.030W* @ 200 RPM	18.6			
WJ1130	30 ton	3 1/2	.666 pitch ACME 2C	11:1	16	60	.088W*	.055W* @ 200 RPM	18.3	.313W*	164	3.0
WJ3230				32:1	48		.052W*	.025W* @ 200 RPM	13.5			
DWJ1130		3 1/2	.5625 pitch 1.125 lead ACME 2C	11:1	9.5		.107W*	.067W* @ 200 RPM	25.1			
DWJ3230				32:1	28.5		.064W*	.030W* @ 200 RPM	18.6			
WJ1135	35 ton	3 3/4	.666 pitch ACME 2C	11:1	16	70	.093W*	.057W* @ 200 RPM	17.4	.328W*	240	3.4
WJ3235				32:1	48		.055W*	.026W* @ 200 RPM	12.9			
(R)WJT1150	50 ton	4 1/2	.666 pitch ACME 2C	11:1	16	100	.095W*	.063W* @ 150 RPM	15.8	.378W*	387	6.1
(R)WJT3250				32:1	48		.050W*	.027W* @ 150 RPM	12.4			
WJ1175	75 ton	5	.666 pitch ACME 2C	11:1	16	155	.107W*	.067W* @ 150 RPM	14.8	.418W*	610	6.5
WJ3275				32:1	48		.056W*	.028W* @ 150 RPM	11.7			
WJ12100	100 ton	6	.750 pitch ACME 2C	12:1	16	205	.112W*	.072W* @ 90 RPM	13.9	.495W*	1010	10.0
WJ36100				36:1	48		.059W*	.031W* @ 90 RPM	10.8			
WJ12150	150 ton	7	1.00 pitch ACME 2C	12:1	12	300	.134W*	.084W* @ 90 RPM	15.7	.595W*	1350	12.2
WJ36150				36:1	36		.070W*	.037W* @ 90 RPM	12.1			
WJ50250	250 ton	9	1.00 pitch ACME 2C	50:1	50	500		.036W* @ 60 RPM	8.8	.711W*	3415	21.0

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