

# BALL 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.)	Worm Holding Torque	Ball Nut Life at Rated Load (Inch Screw Travel x 1000)	Basic Jack Weight (Lbs.)	Screw Weight per Inch Travel (Lbs.)	
WBL51	1 ton	3/4	0.2	5:1	25	3	.014W*	.012W* @ 500 RPM	51.7	.035W*	.006W*	108	8	0.25	
WBL201				20:1	100		.005W*	.004W* @ 500 RPM	38.5		.002W*				
WB51				5:1	25		.014W*	.012W* @ 500 RPM	51.7		.006W*	858			
WB201				20:1	100		.005W*	.004W* @ 500 RPM	38.5		.002W*				
(R)WB62	2 ton	1	0.25	6:1	24	4	.015W*	.013W* @ 500 RPM	52.1	.044W*	.007W*	642	18	0.4	
(R)WB122				12:1	48		.009W*	.007W* @ 500 RPM	47.2		.004W*				
(R)WB242				24:1	96		.006W*	.004W* @ 500 RPM	39.3		.002W*				
(R)HWB62			1.0	6:1	6		.064W*	.051W* @ 500 RPM	52.1	.033W*	.177W*	.033W*			190
(R)HWB122				12:1	12		.039W*	.028W* @ 500 RPM	47.2	.020W*					
(R)HWB242				24:1	24		.028W*	.017W* @ 500 RPM	39.3	.014W*					
WB65	5 ton	1 1/2	0.474	6:1	12.66	10	.030W*	.025W* @ 300 RPM	51.1	.084W*	.013W*	1015	42	0.7	
WB125				12:1	25.33		.019W*	.014W* @ 300 RPM	45.7		.007W*				
WB245				24:1	50.66		.013W*	.008W* @ 300 RPM	37.2		.004W*				
HWB65			1.0	6:1	6		.065W*	.052W* @ 300 RPM	51.1	.033W*	0.177W*	.033W*			512
HWB125				12:1	12		.041W*	.029W* @ 300 RPM	45.7	.020W*					
HWB245				24:1	24		.029W*	.018W* @ 300 RPM	37.2	.014W*					
WBL810	10 ton	1 1/2	0.474	8:1	16.88	20	.022W*	.019W* @ 200 RPM	50.7	.084W*	.010W*	127	58	0.9	
WBL2410				24:1	50.66		.010W*	.008W* @ 200 RPM	40.3		.004W*				
HWBL810			1.0	8:1	8		.047W*	.039W* @ 200 RPM	50.7	.024W*	.177W*	.024W*			64
HWBL2410				24:1	24		.024W*	.016W* @ 200 RPM	40.3	.012W*					
WB810	10 ton	2	0.5	8:1	16	20	.023W*	.019W* @ 200 RPM	50.7	.088W*	.009W*	729	62	1.4	
WB2410				24:1	48		.011W*	.008W* @ 200 RPM	40.3		.003W*				
HWB810			1.0	8:1	8		.047W*	.039W* @ 200 RPM	50.7	.018W*	.177W*	.018W*			1423
HWB2410				24:1	24		.023W*	.016W* @ 200 RPM	40.3	.006W*					
WB820	20 ton	2 1/4	0.5	8:1	16	40	.024W*	.020W* @ 200 RPM	47.4	.088W*	.009W*	121	105	2.6	
WB2420				24:1	48		.012W*	.009W* @ 200 RPM	35		.003W*				
WB1130	30 ton	3	0.66	11:1	16.67	60	.027W*	.020W* @ 200 RPM	48	.117W*	.009W*	343	220	3.2	
WB3230				32:1	48.48		.016W*	.009W* @ 200 RPM	35		.003W*				
(R)WB1150	50 ton	4	1.0	11:1	11	100	.038W*	.029W* @ 200 RPM	49.3	.177W*	.013W*	614	460	4.8	
(R)WB3250				32:1	32		.020W*	.012W* @ 200 RPM	37.5		.005W*				

Important Note: Ball Screw Jacks are not self-locking. Brake motors or external locking systems are required.

(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 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).

Worm Holding Torque: Torque required to prevent input shaft (worm) from backdriving.

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, ball nut life and other performance factors please refer to JAX® Online software or contact Joyce.