## BALL SCREW JACKS ORDERING INFORMATION

## Instructions: Select a model number from this chart.

1-Ton 2- Standard Star	Ton 2-Ton Reverse Base Idard Standard	5-Ton Standard	10-Ton Standard	10-Ton Heavy Duty	20-Ton Standard	30-Ton Standard	50-Ton Standard
WBL51 WB62 WBL201 WB122 WB242	RWB62 RWB122 RWB242	WB65 WB125 WB245	WBL810 WBL2410	WB810 WB2410	WB820 WB2420	WB1130 WB3230	WB1150 WB3250
1-Ton 2- Heavy Duty High	Ton 2-Ton Lead Reverse Base High Lead	5-Ton High Lead	10-Ton Standard High Lead	10-Ton Heavy Duty High Lead			50-Ton Reverse Base
WB51 HWB62 WB201 HWB122 HWB242	RHWB62 RHWB122 RHWB242	HWB65 HWB125 HWB245	HWBL810 HWBL2410	HWB810 HWB2410			RWB1150 RWB3250
Important Note: *Not self-locking, ** Keyed for non-n H: indicates High lead (2-ton, 5-ton / R: Reverse Base Jack (2-ton and 50 Sample Pa	may lower under load. Brake motor otation is not a standard option. Co and 10-ton only). -ton only). <b>rt Number</b>	s or external locking systems ar intact sales@joycedayton.com	e required.	- <u>STDX</u> -	STDX-B	   	
Jack Configuration	d		Left Si Shaft ( (see bel	de Code Swy)	Right Side Shaft Code (see below)	Addi Opti ×=Sta	tional DNS* Indard Jack,
End Conditions						no ad S=Ad Speci (comr Prote pp. 17 B=Pro	ditional options ditional fication Required nent as necessary) ctive Boots 71-173 stective Boot al Protective Boot
2=T2 (load pad)			XXXX=F STDX=S CUST=C For optic codes, s	aemove itandard custom onal shaft see page 83.	XXXX=Remove STDX=Standard CUST=Custom For optional shar codes, see page	ft Proce	les p. 182 o Not Paint boxy Paint utdoor Paint ess
3=T3 (threaded end) 4=T4		Ball Screw Jack R Rise is travel expre	tise ssed in inches	s and not the ac	ctual screw lengt	Moto M1=L M2=E M3=S Moto M4=5 M5=S	• <b>Options</b> ess Motor irake Motor ingle Phase • (120VAC) 0Hz Motor opecial Motor
(male clevis)						Greas H1=H Opera H2=F	e/Seals igh Temperature ation ood Grade
<u>i</u>	<u>k</u>	<u>e</u>			L	Screv ST0=I	v Stops Extending
						* Spe opti	cify as many ons as needed

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

\*\*Keyed for non-rotation is not a standard option. Contact Joyce with your requirements.

## 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				5:1	25		.014W*	.012W* @ 500 RPM	51.7	.035W* -	.006W*	100		0.25	
WBL201				20:1	100	100 3 25 100	.005W*	.004W* @ 500 RPM	38.5		.002W*	108			
WB51	I TON	3/4	4 U.2	5:1	25		.014W*	.012W* @ 500 RPM	51.7		.006W*	050	ð		
WB201				20:1	100		.005W*	.004W* @ 500 RPM	38.5		.002W*	808			
(R)WB62			0.25	6:1	24	-	.015W*	.013W* @ 500 RPM	52.1	.044W* .177W*	.007W*			0.4	
(R)WB122	1			12:1	48		.009W*	.007W* @ 500 RPM	47.2		.004W*	642			
(R)WB242	0.444	1		24:1	96		.006W*	.004W* @ 500 RPM	39.3		.002W*		10		
(R)HWB62	2 100	I		6:1	6	- 4 - -	.064W*	.051W* @ 500 RPM	52.1		.033W*		18		
(R)HWB122			1.0	12:1	12		.039W*	.028W* @ 500 RPM	47.2		.020W*	190			
(R)HWB242				24:1	24		.028W*	.017W* @ 500 RPM	39.3		.014W*				
WB65			0.474	6:1	12.66	-	.030W*	.025W* @ 300 RPM	51.1	.084W*	.013W*			0.7	
WB125				12:1	25.33		.019W*	.014W* @ 300 RPM	45.7		.007W*	1015			
WB245	Eter	1 1 /0		24:1	50.66		.013W*	.008W* @ 300 RPM	37.2		.004W*		40		
HWB65	5 ton	1 1/2		6:1	6		.065W*	.052W* @ 300 RPM	51.1	0.177W*	.033W*		42		
HWB125				12:1	12		.041W*	.029W* @ 300 RPM	45.7		.020W*	512			
HWB245				24:1	24		.029W*	.018W* @ 300 RPM	37.2		.014W*				
WBL810			0.474	8:1 16.88		.022W*	.019W* @ 200 RPM	50.7	00414/*	.010W*	107				
WBL2410	10 447	1 1 /0	0.474	24:1	50.66		.010W*	.008W* @ 200 RPM	40.3	.U84W"	.004W*	121	50	0.9	
HWBL810		1 1/2	1.0	8:1	8	_ 20	.047W*	.039W* @ 200 RPM	50.7	.177W*	.024W*	64	58		
HWBL2410				24:1	24		.024W*	.016W* @ 200 RPM	40.3		.012W*	04			
WB810		10 ton 2		0.5	8:1	16		.023W*	.019W* @ 200 RPM	50.7	00014/#	.009W*	700		
WB2410	10		0.5	24:1	48		.011W*	.008W* @ 200 RPM	40.3	.088W^	.003W*	129	<b>C</b> 0	1.4	
HWB810	IU ton		2 1.0	8:1	8	20	.047W*	.039W* @ 200 RPM	50.7	.177W*	.018W*	1400	62		
HWB2410				24:1	24		.023W*	.016W* @ 200 RPM	40.3		.006W*	1423			
WB820			1/4 0.5	8:1	16	- 40	.024W*	.020W* @ 200 RPM	47.4	.088W*	.009W*	101	105	2.6	
WB2420	20 ton 2 1/4	2 1/4		24:1	48		.012W*	.009W* @ 200 RPM	35		.003W*	121			
WB1130		30 ton 3	3 0.66	11:1	16.67	60	.027W*	.020W* @ 200 RPM	48	.117W*	.009W*			3.2	
WB3230	30 ton 183230			32:1	48.48		.016W*	.009W* @ 200 RPM	35		.003W*	343	220		
(R)WB1150	(R)WB1150 (R)WB3250 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*	37.5		.005W*	614			

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.