

JACK SIZES					JACK SELECTION									Page Ref
MODEL	Capacity (tons)	Lifting Screw Dia. (in)	Screw Lead (in)	Root Dia. (in)	Gear Ratio	Turns of Worm for 1" Travel	Maximum Input Torque (in.-lb.)	Maximum Allowable Input (hp)	Maximum Worm Speed at Rated Load	Maximum Load at 1750 RPM	Torque to Raise 1 lb. (in.-lb.)	Tare Drag Torque (in.-lb.)		
2SS-MSJ	0.66	1	.250	.698	6:1	24	33	2	1800	1330	.0250	4	309	
					24:1	96	14	1/2	1800	1320	.0150	4	309	
5SS-MSJ	1.67	1 1/2	.375	1.066	6:1	16	125	3	1510	2873	.0376	10	310	
					24:1	64	48	3/4	985	1875	.0144	10	310	
10SS-MSJ	3.33	2	.500	1.410	8:1	16	251	5	1255	4775	.0377	20	311	
					24:1	48	128	1 1/2	739	2813	.0192	20	311	
15SS-MSJ	5.00	2 1/4	.500	1.684	8:1	16	407	5	774	4424	.0407	20	312	
					24:1	48	218	1 1/2	434	2478	.0218	20	312	
20SS-MSJ	6.66	2 1/2	.500	1.908	8:1	16	580	7 1/2	815	6209	.0435	40	313	
					24:1	48	291	2 1/2	541	4103	.0218	40	313	
25SS-MSJ	8.30	3	.667	2.287	10 2/3:1	16	903	11	768	8764	.0452	50	314	
					32:1	48	471	3 1/2	468	5364	.0235	50	314	
35SS-MSJ	11.66	3 3/4	.667	3.083	10 2/3:1	16	1150	11	603	8035	.0493	50	315	
					32:1	48	600	3 1/2	368	5022	.0251	50	315	

\* Measurements listed are for non-keyed units. See individual jack pages for keyed jack info.

**NOTES:**

- 1) The recommended maximum speed is 1800 rpm provided the recommended horsepower and temperature are not exceeded.
- 2) Input torque is shown as torque to lift one pound of load. Starting Torque is 100% greater than torque shown. Tare drag torque should be added for all loads.
- 3) Maximum allowable horsepower ratings are based on a 25% duty cycle. For operation at higher duty cycles or repeated use over any segment of the total travel, temperature must be monitored and remain less than 200°F.
- 4) Overload capacity of the Stainless Steel Machine Screw Jack is as follows: 10% for dynamic loads, 30% for static loads.
- 5) Stainless Steel Machine Screw Jacks having gear ratios between 20:1 and 32:1, are self-locking and will hold loads without backdriving in the absence of vibration. All other ratios may require a brake to prevent backdriving.
- 6) All units are suitable for intermittent operation providing that the housing temperature including ambient is not lower than -20°F. or higher than +200°F. Factory supplied grease in standard units will operate in this range. For higher or lower operating temperature ranges consult Nook Industries.

- 7) Accessories such as boots, top plates and clevises are available.
- 8) Catalog dimensions are representative only and are subject to change without notice. For construction, use only certified prints.
- 9) Units are not to be used as personnel support or movement.
- 10) End-of-travel stops are not provided.

‡ For greater capacity, specify a 17-4PH hardened worm.

\* Tare drag torque need only be added if operating under 25% rated load.

$$\text{Horsepower per jack} = \frac{\text{Torque to raise one pound} \times \text{Number of pounds to be raised} \times \text{rpm}}{63025}$$

Starting Torque is 100% greater than torque shown.