

OPTIONS BOOTS FOR KFTN JACKS

For Traveling Nut Design Machine and Ball Screw Jacks

Adding single or dual boots to cover the fixed-length rotating screw on KFTN jacks usually increases the base-to-end of screw dimension due to boot stack up*. Other factors that affect boot specification include:

- Jack orientation – Upright or inverted
- Travel distance and maximum height of jack with boots (Base-to-end of screw)
- Traveling Nut (TN) orientation – TN mounted toward the jack or away from the jack
- Position and thickness of the load – Mounted above or below the flange
- Choice of dual boots, single upper boot, or single lower boot

The chart below lists standard boot diameter dimensions based on jack capacity. Working from this reference and input provided by customers about their applications, Joyce customizes boots to meet specific requirements. Please complete the worksheet on page 173 to help us understand your requirements more fully.

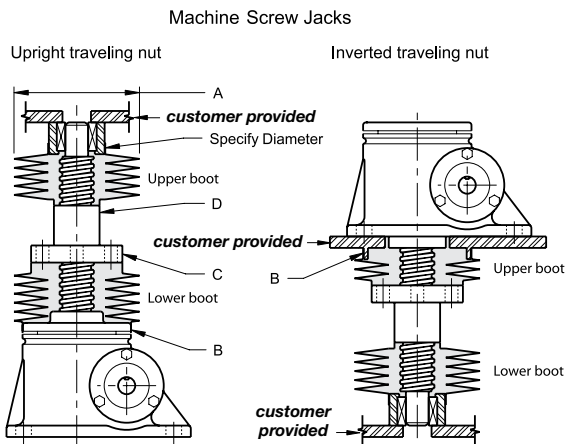
Although Joyce provides the stainless steel clamps needed to secure all boots in place, customers must provide mounting rings to mount boots to their structures. These customer provided mounting diameters must also be communicated to Joyce to ensure that boot collars are compatibly sized.

Common bellows boot options:

- Zippered boots • Boots for high temperatures • Boots for harsh environments

Contact Joyce for more information about these and other custom boot applications or boots for Bevel Gear® jacks.

*Boot stack up is the space required to accommodate retracted bellows boots. It can be estimated by multiplying the maximum amount of travel by 0.071". If the KFTN jack has dual boots the stack up of both boots must be considered. Contact Joyce for additional information.



See selection guide worksheet on page 173

Jack Capacity	A O.D. of Boot	B Collar Diameter	C - Flange Collar Diameter		D - Nut Collar Diameter Machine Screw Jacks Only**
			ACME Nut	Ball Nut	
250/500 Lb.	3.5	2 5/16	2 1/4		1
1,000 Lb.	3.5	2 5/16	2 1/4		1
1 Ton	5	2 3/4	3 1/4	2 5/8	1 1/2
2 Ton	5	3 3/4	3 1/4	3 1/4	1 1/2
3 Ton	5 1/2	3 3/4	3 1/4		2
5 Ton	5 1/2	4 3/4	4	4 15/16	2
10 Ton	6 1/2	5 3/4	6	5 3/8	3
15 Ton	6 1/2	5 3/4	6 1/2		3 1/2
20 Ton	6 1/2	6	7 1/2	5 3/8	3 3/4
25 Ton	8	7 1/2	8 1/2		4 1/2
30 Ton	8	8 1/4	7 3/8	7 3/8	4 1/2
35 Ton	10	8 1/2	9		5
50 Ton	10	11 5/8	10	9 3/4	6
75 Ton	13	13 1/2	12		7
100 Ton	14 1/2	15	12 3/4		8

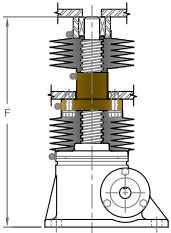
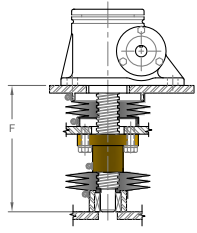
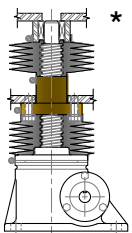
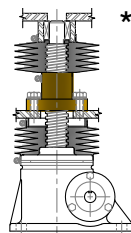
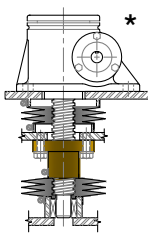
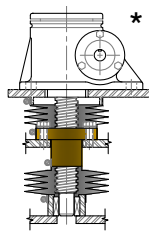
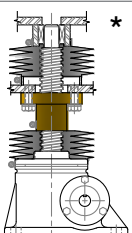
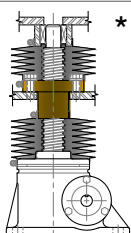
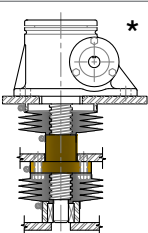
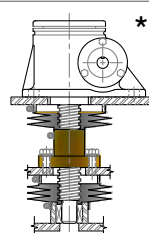
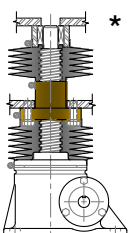
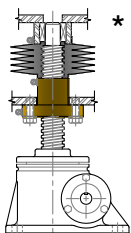
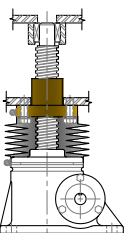
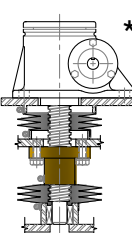
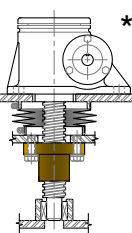
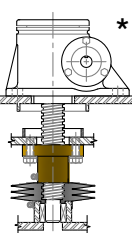
**Boot collars do not fit small end of ball nuts.

Note: Drawings are artist's conception — not for certification; dimensions are subject to change without notice.

SELECTION GUIDE WORKSHEET BOOTS FOR KFTN JACKS

Name _____ Title _____
 Company _____ Project _____
 Address _____
 Phone _____ Fax _____ Email _____

Sizing boots for KFTN jacks requires additional input because many mounting configurations are possible. This worksheet is designed to help define and communicate your boot requirements. Complete the form below and submit to sales@joycedayton.com along with a sketch of your application.

Upright Jack			Inverted Jack		
					
Travel Distance _____ (F) Base-to-end of screw dimension _____			Travel Distance _____ (F) Base-to-end of screw dimension _____		
Choose the image that best represents your application					
 <input type="checkbox"/> Flange toward jack Load above	 <input type="checkbox"/> Flange toward jack Load below	 <input type="checkbox"/> Flange toward jack Load above	 <input type="checkbox"/> Flange toward jack Load below		
 <input type="checkbox"/> Flange away from jack Load above	 <input type="checkbox"/> Flange away from jack Load below	 <input type="checkbox"/> Flange away from jack Load above	 <input type="checkbox"/> Flange away from jack Load below		
 <input type="checkbox"/> Dual boot	 <input type="checkbox"/> Upper boot	 <input type="checkbox"/> Lower boot	 <input type="checkbox"/> Dual boot	 <input type="checkbox"/> Upper boot	 <input type="checkbox"/> Lower boot

*Some customer provided dimensions are required from diagram on page 172.