Joyce Trunnions are used in installations where the jack moves through an arc during operation. These jacks are often configured with motor mounts or as ComDRIVES®.

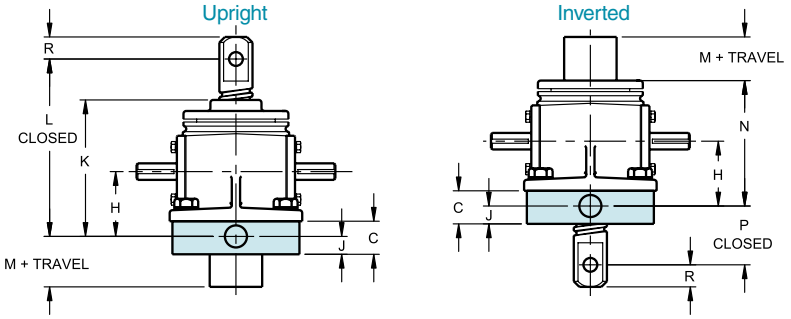
Trunnion adapter plates bolt to the jack flange and have precision bores for trunnion pins.

Design Information

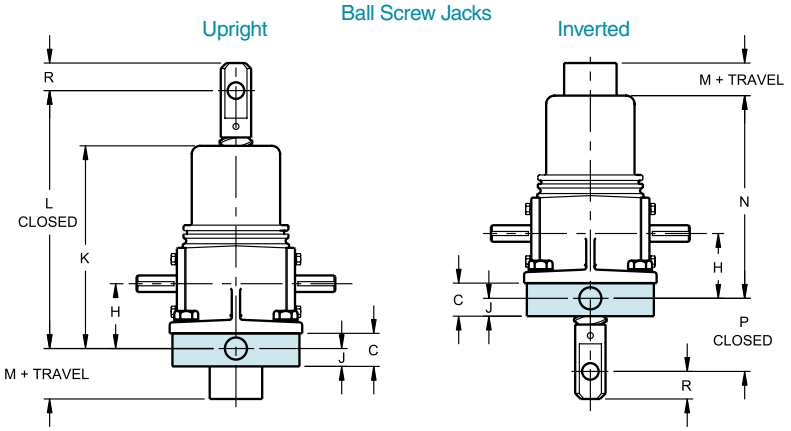
The trunnion pins should be supported to within 1/16 inch of the trunnion adapter plate. See the “A” dimension in the table for the width of the mounting surfaces should be less than or equal to the “A” dimension plus 0.13 inches.

The customer supplied trunnion pins should be ground to the “D” diameters shown in the table. The trunnion pins should be made from steel with a hardness greater than 30 HRC and a yield strength greater than 60,000 psi.

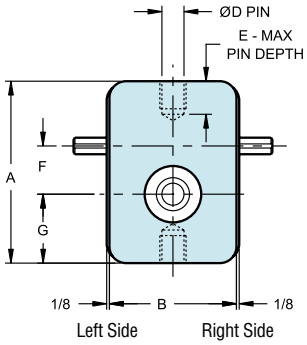
Machine Screw Jacks



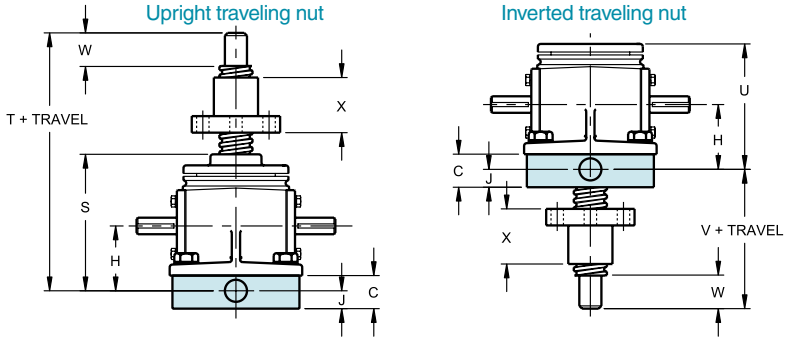
Ball Screw Jacks



Trunnion Bottom View
Machine Screw and
Ball Screw Jacks



Machine and Ball Screw Jacks



	JACK MODEL	COMMON DIMENSIONS									Upright - Inverted						Upright - Inverted traveling nut					
		A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	X
Machine Screw	2 Ton RWJT/DRWJ	7 1/4	3 1/4	1 1/4	.7491 .7479	1 1/4	1.703	3 1/8	2 5/16	11/16	4 11/16	5 3/8	0	4 5/16	2 1/16	11/16	4 11/16	8 3/16	4 3/4	4 13/16	1 1/16	1 1/2
	3 Ton WJ/DWJ	6 1/2	3 7/8	1 1/4	.7491 .7479	1 1/4	1.750	2 1/2	2 5/16	11/16	4 3/8	6 5/8	1/8	4 3/8	2 3/8	3/4	4 3/8	8 1/8	4 3/8	5 1/8	3/4	2
	5 Ton WJT/DWJ	8 1/4	5 3/4	1 1/2	.9991 .9979	1 1/2	2.188	3 1/8	2 15/16	13/16	6 3/16	7 3/16	0	5 11/16	1 13/16	1	6 3/16	11 3/16	6 3/16	6 13/16	1 1/2	2 1/2
	10 Ton WJ/DWJ	9	7 1/4	2	1.2488 1.2472	1 1/2	2.598	3	3 1/8	1 1/8	6 1/8	7 1/2	0	6	2 1/2	1 5/16	6 1/8	13 1/8	6 1/8	8 7/8	1 31/32	3
	15 Ton WJ/DWJ	9 1/2	7 1/2	2 1/4	1.4988 1.4972	1 3/4	2.598	3 1/2	3 3/4	1 1/4	7	8 3/8	0	6 7/8	2 5/8	1 5/16	7	13	7	7 11/16	1 31/32	3
	20 Ton WJ/DWJ	11 1/4	8	2 1/4	1.4988 1.4972	1 3/4	2.598	4 1/4	4 1/4	1 1/4	8 1/4	9 5/8	0	8 1/4	2 5/8	1 3/8	8 1/4	14 1/4	8 1/4	8	1 15/16	3
Ball Screw	2 Ton RWB/RHWB	7 1/4	3 1/4	1 1/4	.7491 .7479	1 1/4	1.703	3 1/8	2 5/16	11/16	7	9 7/16	9/16	7	2 9/16	3/4	4 11/16	9 7/16	4 11/16	6 1/16	1 1/8	3 1/8
	5 Ton WB	8 1/4	5 3/4	1 1/2	.9991 .9979	1 1/2	2.188	3 1/8	2 15/16	13/16	9 7/16	12 3/4	11/16	9 7/16	4 3/4	1 1/4	6 3/16	12 3/16	6 3/16	7 1/2	1 1/8	4 1/2
	5 Ton HWB	8 1/4	5 3/4	1 1/2	.9991 .9979	1 1/2	2.188	3 1/8	2 15/16	13/16	9 7/16	12 3/4	11/16	9 7/16	4 3/4	1 1/4	6 3/16	11 5/8	6 3/16	6 15/16	1 1/8	3 25/32
	10 Ton WBL	9	7 1/4	2	1.2488 1.2472	1 1/2	2.598	3	3 1/8	1 1/8	9 9/16	12 3/4	11/16	9 9/16	3	1 1/4	6 1/8	12 3/4	6 1/8	8 7/16	1 3/4	4 1/2
	10 Ton HWBL	9	7 1/4	2	1.2488 1.2472	1 1/2	2.598	3	3 1/8	1 1/8	9 9/16	12 3/4	11/16	9 9/16	3	1 1/4	6 1/8	12 3/16	6 1/8	7 7/8	1 3/4	3 25/32
	10 Ton WB/HWB	9	7 1/4	2	1.2488 1.2472	1 1/2	2.598	3	3 1/8	1 1/8	13 1/8	16 3/8	11/16	13 1/8	3 1/8	1 1/4	6 1/8	15 5/16	6 1/8	10 3/8	2	6 5/8
	20 Ton WB	11 1/4	8	2 1/4	1.4988 1.4972	1 3/4	2.598	4 1/4	4 1/4	1 1/4	15 3/16	19 7/8	3/8	15 3/16	4	1 1/2	8 1/4	18 1/4	8 1/4	12	2 3/4	6 3/4

NOTE: Trunnion Adapters mounted to Inverted Jacks illustrated elsewhere will decrease it's minimum closed dimension and may shorten the travel.

For complete ordering information see page 164 under “Jack Designs”