

Screw jacks transform a rotary motion from an electric, hydraulic or pneumatic motor or even manual operation into a linear movement, either in a vertical or horizontal position.

Servomech screw jacks are manufactured with a high-efficiency worm gear drive and worm shaft and utilize either one or more starts acme screw and nut or ball screw and nut.

Screw jacks can be used singularly or in lifting systems with different layouts connected by driveshafts, couplings and bevel gearboxes. Screw jacks enable a synchronized constant movement even with a varying load.

Servomech screw jacks are able to work under either push or pull load conditions, mounted vertically upward, downward or horizontally.

Two Servomech screw jack models are available:

Model A – travelling screw

Model B – travelling nut

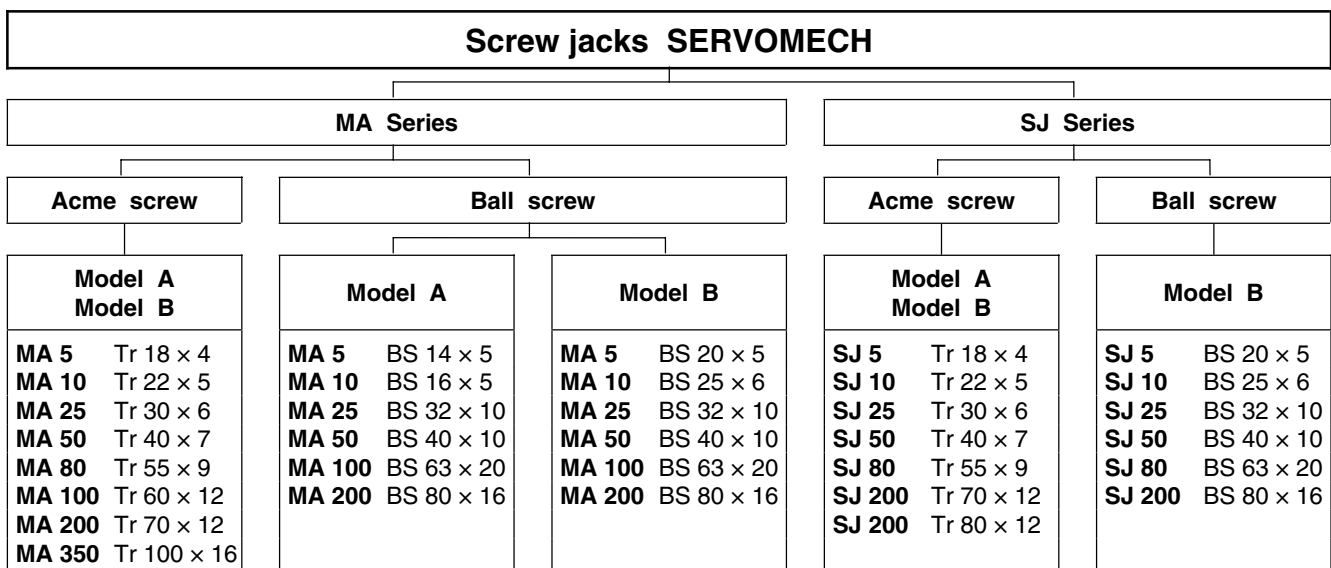
There are two Servomech screw jack series: MA and SJ. Both series are available in different sizes in order to obtain the most suitable size for each application.

MA Series: High efficiency screw jacks with acme screw, oil lubricated gearbox, increased duty cycle up to 40% over a 10 minute period or 30% over a 1 hour period at 25° C environment temperature.

SJ Series: Low maintenance screw jack with acme screw, grease lubricated gearbox, duty cycle up to 30% over a 10 minute period or 20% over a 1 hour period at 25° C environment temperature.

MA BS Series: MA range with ball screw, oil lubricated gearbox, high efficiency and up to 100% duty cycle at 25°C environment temperature.

SJ BS Series: SJ range with ball screw, grease lubricated gearbox and duty cycle up to 60% at 25°C environment temperature.



Acme Screw Jack

MA Series: high efficiency screw jack	SJ Series: standard performances screw jack
8 standard sizes load capacity from 5 kN to 350 kN	6 standard sizes load capacity from 5 kN to 200 kN
3 different ratios for each size	
1-start acme screw from Tr 18 × 4 to Tr 100 × 16	1-start acme screw from Tr 18 × 4 to Tr 80 × 12
2-starts acme screw from Tr 18 × 8 (P4) to Tr 100 × 32 (P16); on request: more starts acme screw	2-starts acme screw from Tr 18 × 8 (P4) to Tr 80 × 24 (P12); on request: more starts acme screw
Model A – travelling screw Model B – travelling nut	
4 different input versions for each size and ratio: Vers. 1 - single input shaft Vers.2 - double free input shaft Vers.3 - motor flange input Vers.4 - motor flange and free input shaft	
synthetic oil lubricated worm gearbox	grease lubricated worm gearbox
operation with low noise level with input speed up to 3 000 rpm	max. input speed allowed 1 500 rpm
Suitable for high linear speed and high duty cycle applications	attractive in many applications excellent price/performance ratio
wide range of accessories available	

Ball Screw Jack

MA BS Series:	SJ BS Series:
high efficiency screw jack, suitable for continuous operation also, duty cycle up to 100 %, input speed up to 3 000 rpm	standard performances screw jack, Model B (travelling nut) available only, duty cycle up to 60 %, input speed up to 1 500 rpm
execution with servomotor available	
6 standard sizes load capacity from 5 kN to 100 kN	6 standard sizes load capacity from 5 kN to 100 kN
3 different ratios for each size	
ball screw from BS 14 × 5 to BS 80 × 16	ball screw from BS 20 × 5 to BS 80 × 16
Model A – travelling screw Model B – travelling nut	- Model B – travelling nut
4 different input versions for each size and ratio: Vers. 1 - single input shaft Vers.2 - double free input shaft Vers.3 - motor flange input Vers.4 - motor flange and free input shaft	
synthetic oil lubricated worm gearbox	grease lubricated worm gearbox
wide range of accessories available	