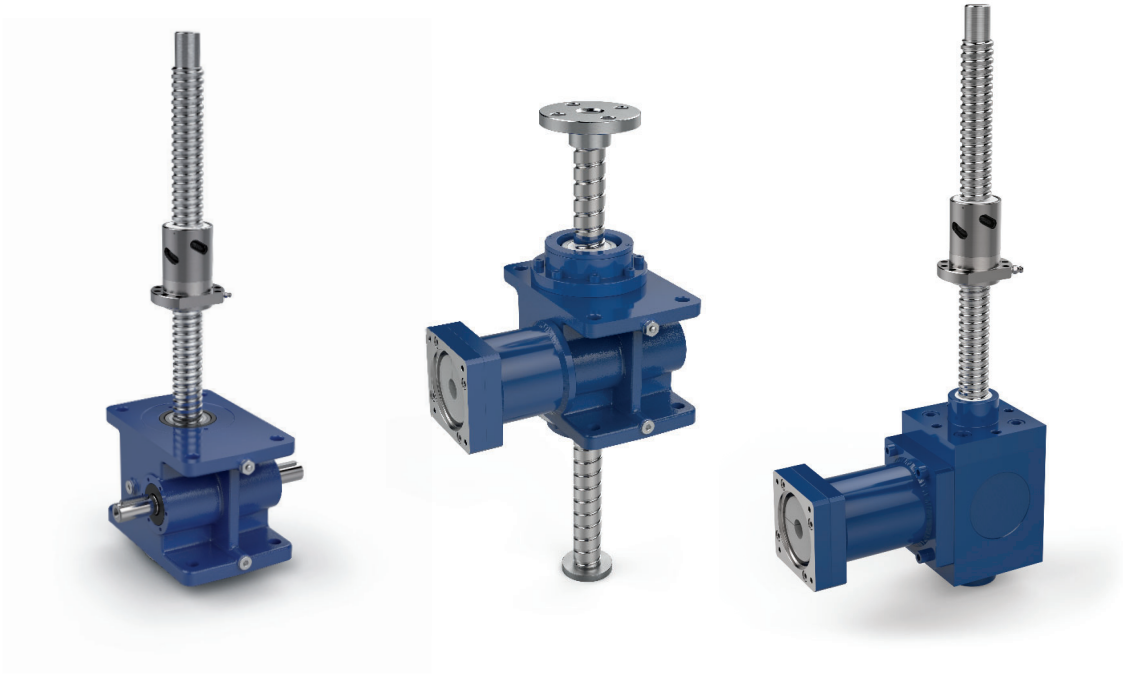
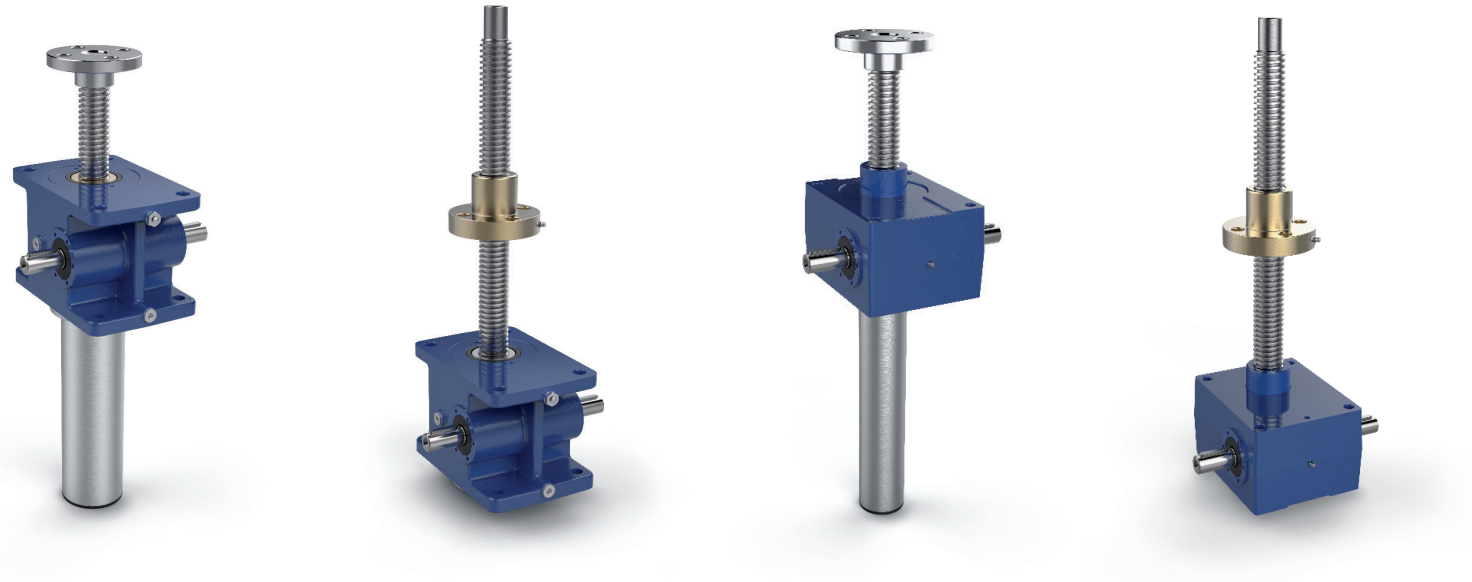
Servomech®
new ideas in linear motion

Screw Jacks

MORE PRODUCTIVITY, LESS ENERGY CONSUMPTION





High quality production **100% Made in Servomech**
Acme screw or ball screw drive
Travelling screw (Mod.A) or travelling nut (Mod.B)
Wide range of sizes and options available

35 LINEAR MOTION SINCE 1989

Servomech
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Ball Screw Jacks

MORE PRODUCTIVITY, LESS ENERGY CONSUMPTION

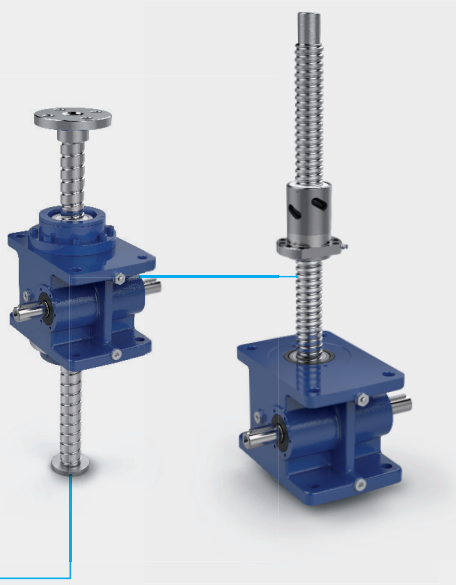
MA BS SERIES

High efficiency screw jacks
Suitable for continuous operation (duty cycle up to 100%)
High precision worm gearbox
Gearbox housing shape for a better heat dissipation

Mod.A with travelling screw, Servomech patented design
Mod.B with travelling nut
Ball screw from Ø 16 mm to Ø 100 mm
8 sizes, load capacity from 5 kN to 350 kN
Input speed up to 3000 rpm

Long life synthetic oil lubricated worm gear,
nut relubrication system with grease reserve chamber

Electric limit switches
Incremental or absolute encoder for positioning control
Prepared for AC or brushless servomotors mounting



SJ BS SERIES

Suitable for intermittent operation (duty cycle up to 70%)
High precision worm gearbox
Monobloc gearbox housing, robust and compact shape

Mod.B with travelling nut
Ball screw from Ø 16 mm to Ø 140 mm
11 sizes, load capacity from 5 kN to 800 kN
Input speed up to 1500 rpm

Long life synthetic grease lubricated worm gear

HS SERIES

High speed screw jacks
Suitable for continuous operation (duty cycle up tp 100%)
Bevel gear, Gleason spiral toothing system,
high efficiency and low noise functioning

Mod.B with travelling nut
Ball screw from Ø 25 mm to Ø 80 mm
6 sizes, load capacity from 10 kN to 200 kN
Input speed up to 3000 rpm

Long life synthetic oil lubricated bevel gear

Incremental or absolute encoder for positioning control
Prepared for AC or brushless servomotors mounting

Acme Screw Jacks

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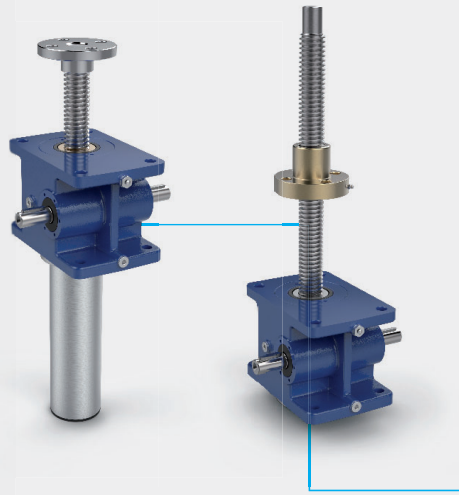


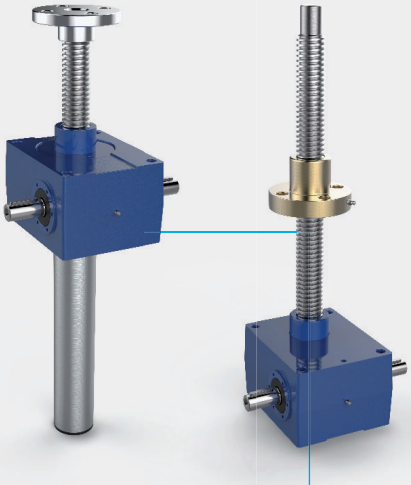
MA SERIES

High efficiency screw jacks
Suitable for intermittent operation
High precision worm gearbox
Gearbox housing shape for a better heat dissipation

Mod.A with travelling screw
Mod.B with travelling nut
Acme screw from Ø 18 mm to Ø 100 mm
8 sizes, load capacity from 5 kN to 350 kN
Input speed up to 3000 rpm

Long life synthetic oil lubricated worm gear

Electric limit switches
Incremental or absolute encoder for positioning control
Prepared for AC or brushless servomotors mounting



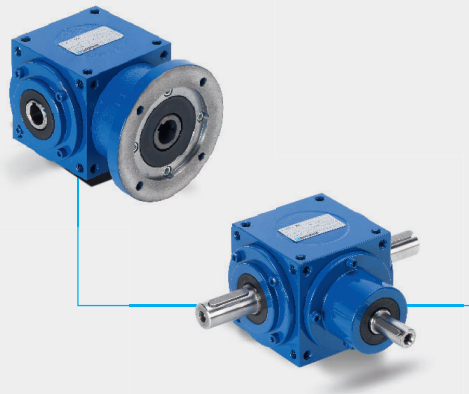
SJ SERIES

Suitable for intermittent operation
High precision worm gearbox
Monobloc gearbox housing, robust and compact shape

Mod.A with travelling screw
Mod.B with travelling nut
Acme screw from Ø 18 mm to Ø 160 mm
14 sizes, load capacity from 5 kN to 1000 kN
Input speed up to 1500 rpm

Long life synthetic grease lubricated worm gear

Bevel gearboxes



BG SERIES

Bevel gearboxes, Gleason spiral toothing system
High efficiency and low noise functioning
Cubic shaped housing with 6 machined sides

6 standard sizes available
Input speed up to 3000 rpm
Modular system with additional outputs available

Long life synthetic oil or grease lubrication

Prepared for AC or brushless servomotors mounting

Servomech®
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Next generation lifting system

In an advanced industrial context, where more and more frequently is required the need for **high speeds** and **continuous operations,** as well as **load and positioning control,** the designers evaluate with great interest solutions with higher performances, easier to control (position, load and speed), and **able to guarantee a competitive advantage in terms of quality and quantity of the work done.**

When the application requires:
- greater performance (LOAD and SPEED),
- continuous operation,
- high precision and repeatability in POSITIONING,
- increased FLEXIBILITY,
- high DYNAMICS conditions,

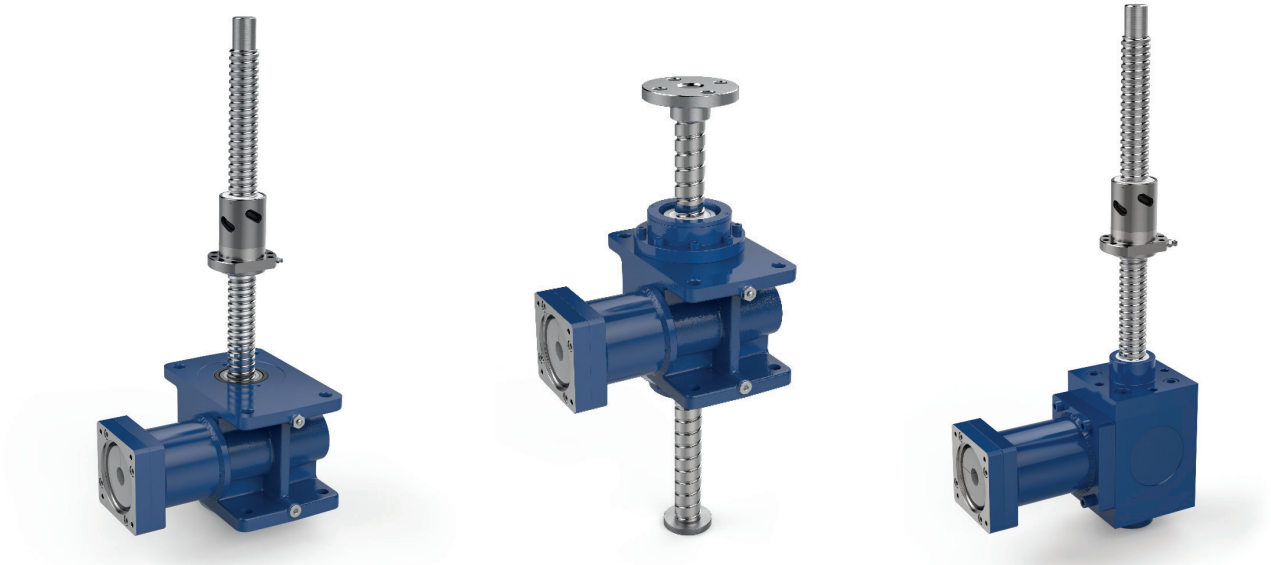
We suggest the use of Servomech high-performance ball screw jacks, with brushless servomotors and related control drives.

The new generation of lifting systems offered by Servomech allows achieving **high linear speeds,** high dynamic operations with relevant **acceleration and deceleration,** high **positioning accuracy,** exact position repeatability and operations with a continuous duty cycle. The synchronization between the various lifting points is carried out in electrical axis, with the control in position or in both position and torque.

The **new generation of lifting systems achievable with Servomech ball screw** jacks expand the application horizons of lifting systems in general with a modern and advanced approach. Lifting systems can now be used for **continuous operations, for process functions, with also heavy load working cycles, with highly dynamic conditions, high speed, high accuracy and control.**

Among the **main advantages** we recall:
- higher linear speed and greater productivity;
- high positioning precision and repeatability;
- energy savings;
- silent operation;
- greater ease of installation and mounting;
- increased flexibility in case of format change.

The use of **multi-point lifting systems with traditional mechanical synchronization** remains always indicated in applications with medium to low linear speeds, with intermittent operation cycles and prefers the use of acme screw jacks, even if ball screw jacks, oil-lubricated bevel gearboxes, oil-lubricated bevel gearmotors are not excluded.



Distributors for Australia & New Zealand

MOTION TECHNOLOGIES PTY LIMITED

24/22-30 Northumberland Road
Caringbah NSW 2229 Australia
Phone: (02) 9524 4782

sales@motiontech.com.au
www.motiontech.com.au

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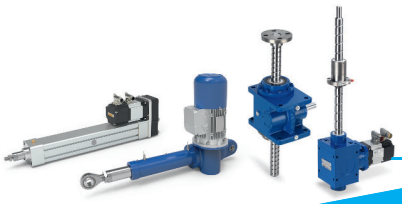

High quality production
100% Made in Servomech

SERVOMECH SpA
Via Calari, 1 • 40011 Anzola dell'Emilia (BO) • Italy

www.servomech.com