

Moog Linear Motion

Long-lasting performance
increasing machine lifetime



The Demo Unit illustrates Moog Linear Motion capabilities, as well as the different technological solutions we can offer to our customers.

This system, shows two radial axis mechanical tables moved and controlled by Moog technologies.

The bottom table is moved by a FAS H 100 servomotor, connected to a Moog Ball Screw that transform the rotational motion into a fluid, seamless linear one.

The top table uses a pair of Moog 3LS linear motors to deliver a smooth and precise direct linear movement.

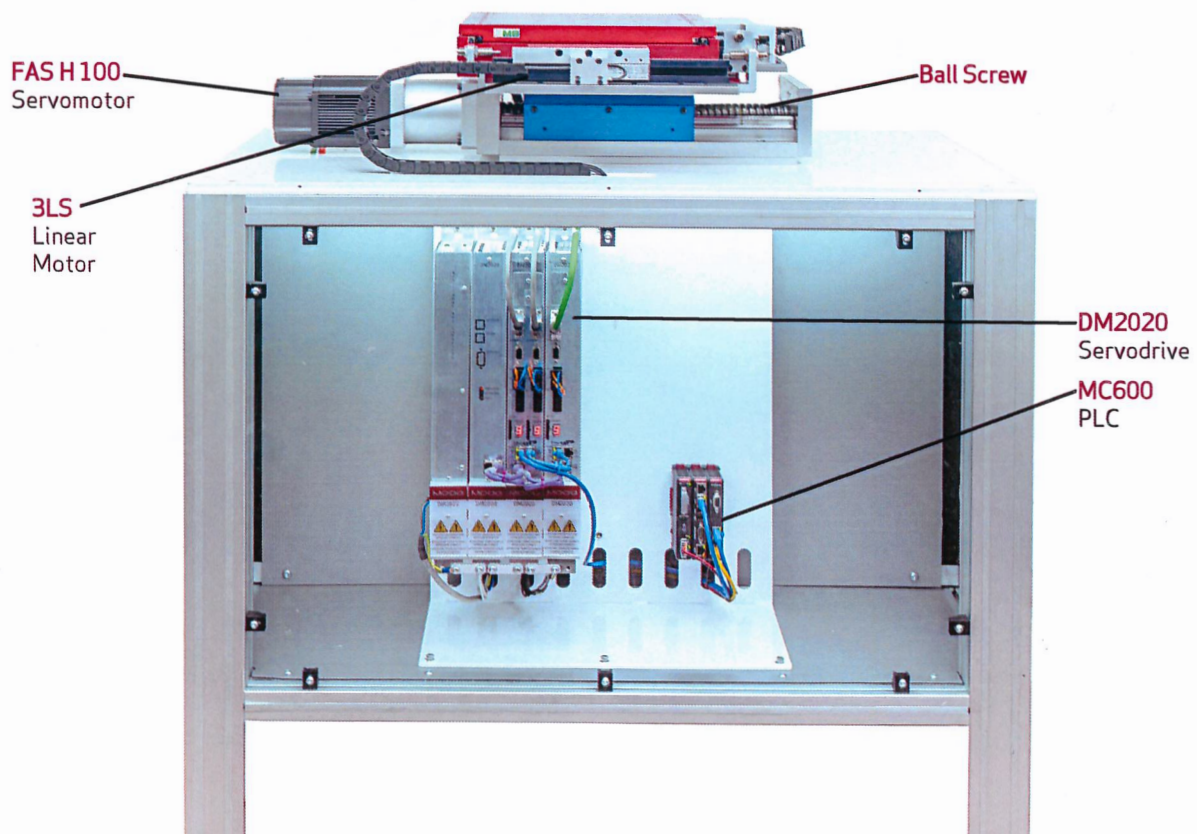
All motors are controlled by a DM2020 assembly, including a power supply unit, a double axis and a single axis control modules, and an additional capacity bus (ABC) module.

The drives axes are, in turn, coordinated through the use of a MC600 controller, that allows the two mechanical tables to precisely perform complex motion patterns.

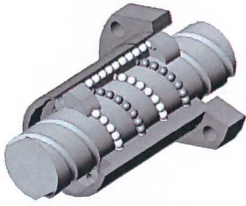
A WIDE RANGE OF PRODUCTS

Moog Linear Motion solutions include:

- Ball Screws
- Roller screws
- Inverted Roller screws
- Linear motors
- Linear Actuators



MOOG BALL SCREWS



- High performance benefitting and reducing power requirements
- Particularly effective in applications where the load on the screw varies quickly, such as machining tools
- Long-lasting performance and reliability that increases machine lifetime

SERVO MOTORS - FAS H SERIES



- High dynamics, exceptional power density, optimum reliability
- High level of overloadability and high acceleration
- Flexible and modular design
- Available with special feedback systems
- Natural and liquid cooling
- Special windings available

LINEAR MOTORS - L3S SERIES



- Compact design
- Forces from 300N to 16kN
- Movement speed up to 8.6m/sec
- Active area width 250mm.
- Significantly reduced backlash, windup, wear, and maintenance issues
- Dynamic and precise positioning
- Flexible mounting

CONTROLLERS - MC600 SERIES



- Support of multiple controllers in one project, multiple applications running on one controller
- Extended visualization possibilities (more controls, more features)
- Extended programming features like support of Object Oriented Programming (OOP)
- Analog functions with high resolution allow accurate control and positioning
- Modular design with capacity for up to 2,000 I/O means that the controllers can be optimally configured to suit applications of all sizes
- Templates library for fast application software development

Moog has offices around the world. For more information or the office nearest you, contact us online.

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Linear Motion Demo
L-LF04-E-191

For product information, visit

www.moog.com/industrial

For service information, visit

www.moogglobalsupport.com

This technical data is based on current available information and is subject to change at any time. Specifications for specific systems or applications may vary.



This Linear Motion Demo Unit has been created with the support and technical expertise of **Meccanica Besnatese**, a long standing supplier and partner of Moog in Italy.

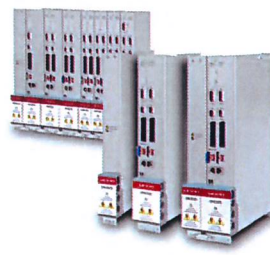
Specialised in manufacturing on third parties' account and producing linear tables for industrial handling, Meccanica Besnatese has over forty years of experience in mechanical engineering and manufacturing, on behalf of numerous national and international companies.

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SERVO DRIVE - DM2020 SERIES



- Compact design and multi-axis architecture,
- Shared power supply,
- Maximum flexibility
- Energy savings thanks to the shared DC BUS
- A user-friendly GUI
- Safe Torque Off
- Wide range of controls via EtherCat and CANopen
- Full axes synchronization