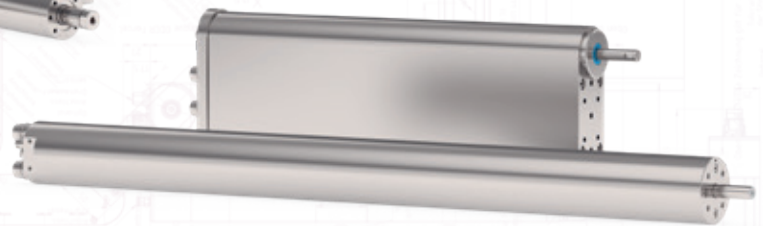


Stainless Steel Products

LinMot also offers a stainless steel version in each product family. These drive elements guarantee the highest level of hygiene. The compact linear motors, linear rotary motors, linear modules and grippers are designed for demanding environments and are manufactured in EN 1.4404/AISI 316 stainless steel.



Linear Motors



Linear Rotary Motors



Hygienic Design

To meet the most stringent hygiene standards, these motors and modules are designed without unnecessary corners, edges, holes and threads to prevent the accumulation of bacteria and dirt. The FDA-approved bearing material is specifically designed for use in the food and pharmaceutical industries.



High chemical Resistance

LinMot stainless steel products offer the highest level of hygiene. The compact linear motors and guides, linear modules and grippers are designed for demanding environments and are manufactured in EN 1.4404/AISI 316 stainless steel. They can be used in systems for processing food or pharmaceutical products. They can easily withstand extreme loads and corrosive environments and are easy to maintain using all standard industrial cleaning methods.

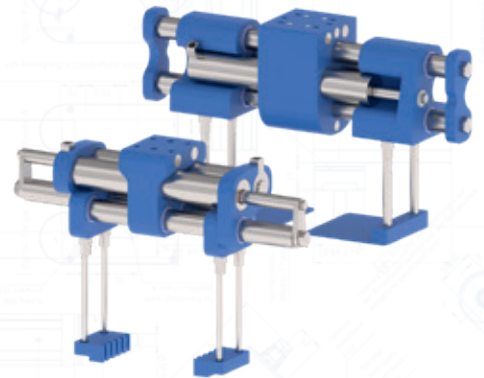


Ready for Industry 4.0

All linear motors are fitted with temperature monitoring sensors which transmit data to the drive. The data can be analysed in the PLC so that the motor can be kept within a constant temperature range depending on the process (e.g. food such as fish). As an option, LinMot offers integrated water cooling for low surface temperatures on some motor types, resulting in higher performance with reduced germ formation.



Linear Modules



Gripper



Suitable for Wash-Down

The windings of the linear motors are fully encapsulated in epoxy resin, protecting the copper filling and stator package from condensation and corrosion. Thanks to their high degree of sealing, they comply with protection class IP69K according to DIN EN 60529. The special plastic bearings ensure easy cleaning and significant time savings in wash-down applications. The drives are also ideal for in-place cleaning such as CIP and SIP.



Perfect for the Food and Pharmaceutical Industries

Cleanliness and the avoidance of germs are key criteria in the food processing and pharmaceutical industries. LinMot's stainless steel series meets both requirements perfectly. The hygienic design and selected materials ensure that washing processes can be carried out. Sensors and integrated water cooling ensure that the surface temperature remains constantly low, thus reducing the formation of germs. The remarkably low abrasion of the stainless steel products provides an ideal basis for clean room applications, especially in the pharmaceutical sector.

SSC Motors Standard

This motor series is the stainless steel counterpart to the standard linear motors. The most common sizes are available with additional options, which are very useful in the food processing and pharmaceutical sectors.

- Compact design with integrated fluid cooling
- Fully encapsulated housing
- Replaceable plain bearings (FDA)

Stroke up to	mm	1070
Peak power	N	210-721
Nominal force	N	36-350
Max. speed	m/s	4.7
Repeatability	Nm	±0.05
Stator length	Nm	296-515



SSC Motors 3x400VAC High Power

As the SSC version of the proven P10-70 linear motors, this motor series combines the advantages of the stainless steel range with the functionalities of the 70 series motors. The proven 3x400VAC technology and LinMot servo drives with direct mains supply ensure ideal integration into any machine concept.

- 3x400VAC technology
- Optionally with integrated water cooling
- Flexible control options
- Expandable with special mounting flanges



Stroke up to	mm	1610
Peak power	N	1120-2180
Nominal force	N	115-710
Max. speed	m/s	6.4
Repeatability	Nm	±0.05
Stator length	Nm	350-420

SSCP Motors

Powerful and compact

The SSCP stainless steel linear motors have excellent thermal behaviour, resulting in increased continuous force and power density. The intelligent design of the motors allows a larger slider diameter to be used with a fixed stator size, resulting in improved performance.

Stroke up to	mm	1455
Peak power	N	67-572
Nominal force	N	12-198
Max. speed	m/s	7.4
Repeatability	Nm	±0.05
Stator length	Nm	120-317

- Compact design and outstanding thermal behaviour thanks to efficient technology
- Integrated mounting flange for easy attachment
- Reduced effort with 1-cable technology
- Optionally with cable outlet and IP67 connector



SSCP Slim Motors

Extremely compact

The P01-23 -SSCP linear motors are the slimmest members of the stainless steel product family. In addition to the simple, purely tubular motor variant, LinMot also offers a motor with an integrated mounting flange. The established single-cable solution with LinMot encoder technology is also available for this motor type.

Stroke up to	mm	780
Peak power	N	67-138
Nominal force	N	21-35
Max. speed	m/s	7.3
Repeatability	Nm	±0.05
Stator length	Nm	175-255

- Simple and slim design (Installation of 1225 motors per m² possible)
- Available with or without integrated mounting flange
- Efficient cleaning and removal of germs and microorganisms
- Low cable requirements thanks to 1-cable technology



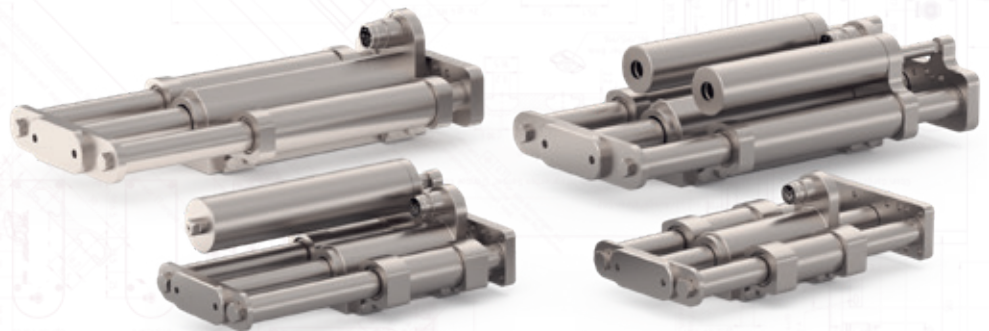
SM01 Modules

Short-stroke Modules

The SM01 linear modules are complete drive solutions consisting of a linear guide with integrated LinMot linear motors and optionally attached MagSpring® vertical load compensation elements. The mounting options on the end plates provide various application options.

- Low friction and precise positioning
- Optional stainless steel MagSpring
- Optimally designed for „in-place“ cleaning processes such as CIP and SIP
- Available with plain or recirculating ball bearings
- Automatic motor parameterisation thanks to electronic nameplate

Stroke up to	mm	100-765
Peak power	N	128-477
Nominal force	N	26-172
Max. speed	m/s	4.9



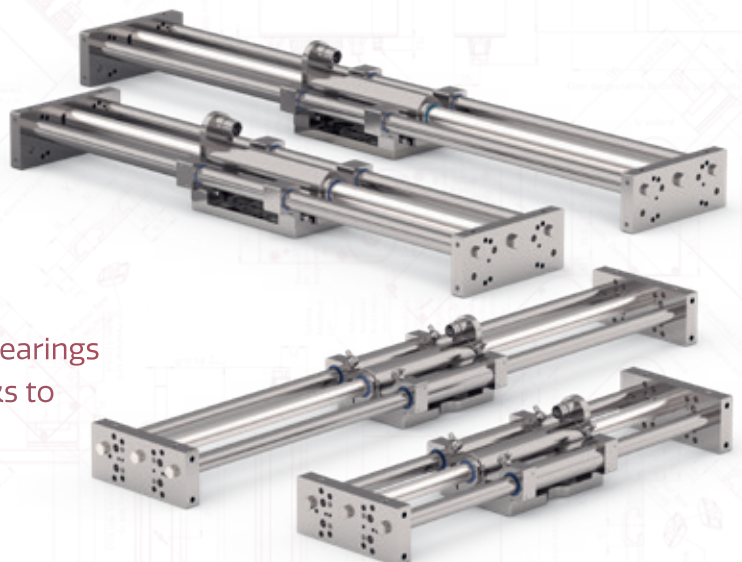
SM02 Modules

Long-stroke Modules

As with the SM01 linear modules, the SM02 modules are complete drive solutions consisting of a linear guide and a LinMot linear motor. However, the guide rods are fixed and the stator is the moving part to which loads can be attached. The modules are designed for long and dynamic strokes

- „Moving stator“ principle for long, dynamic motion
- Designed for portal constructions
- Delivered fully assembled
- Optimally designed for „in-place“ cleaning processes such as CIP and SIP
- Available with plain or recirculating ball bearings
- Automatic motor parameterisation thanks to electronic nameplate

Stroke up to	mm	110-1010
Peak power	N	255-572
Nominal force	N	48-160
Max. speed	m/s	3.9



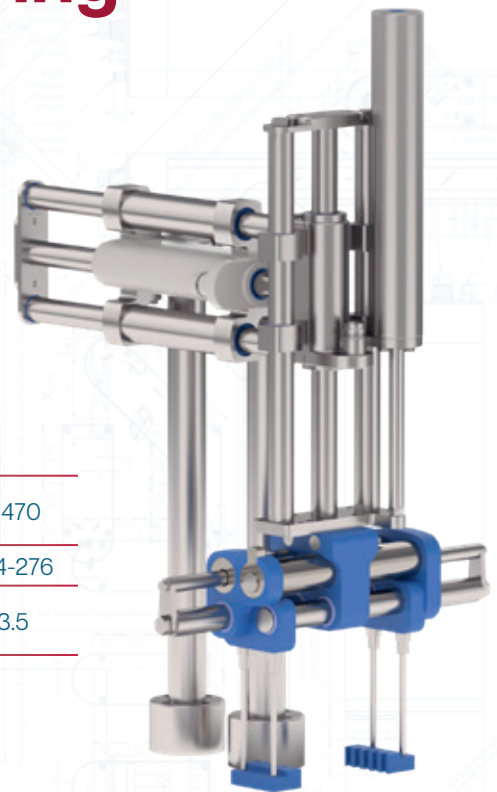
GM01/GM02 Gripper

Precise Gripping and Moving

The GM01/02 parallel gripper completes LinMot's stainless steel line as a further element thanks to the easy coupling and standardisation of materials. In combination with the SM01 and SM02 guides, a complete pick-and-place application can be realised in stainless steel EN 1.4404. A combination that is highly resistant to chemicals and has an enormous service life even under difficult conditions.

- High flexibility in the selection of gripped goods
- Lightweight materials (FDA)
- Wash-down safe
- High degree of protection IP69
- High degree of freedom for position and clamping force

Max. opening/ closing stroke range	mm	≤ 470
Max. clamping force	N	134-276
Max. gripper speed (close/open)	m/s	3.5



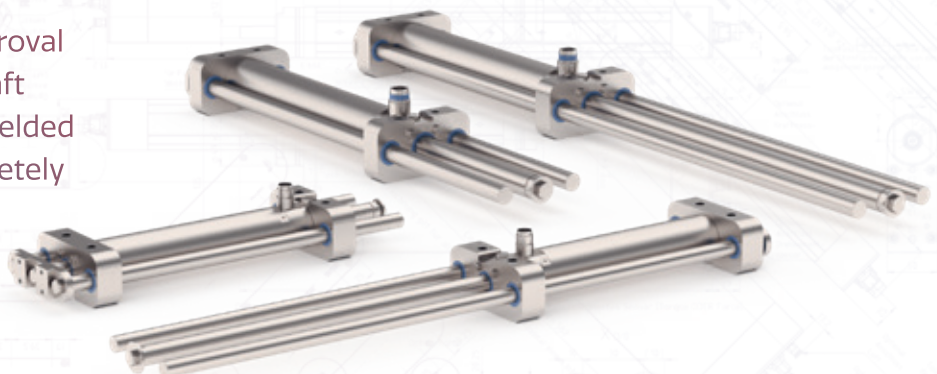
H01 Stainless Steel Linear Guides

Guidance for SSC Motors

H01 stainless steel guides are compact guide units for the operation of LinMot motors of the P01-37-SSC and P01-48-SSC series together with clearance sliders. They consist of two guide blocks, two guide shafts and a load mounting plate.

Stroke up to	mm	58-510
Peak power	N	210-477
Nominal force	N	36-240
Max. speed	m/s	4.7

- Compact guide (IP69K) for SSC motors with clearance rotors
- Plain bearings with FDA approval
- Hardened stainless steel shaft
- No seals; connections are welded
- Motor interior can be completely flushed



SSCH Linear Rotary Motors

In the SSCH version, the proven linear torque motor technology is protected by a stainless steel housing. As a result, these motors have a maximum IP protection rating of IP69s and can withstand in-place cleaning processes such as CIP and SIP. The combination of rotary and linear motion makes this version of the linear rotary motor a key element of automation in the food, pharmaceutical and medical industries.

- Motor housing and linear rotary shaft made of **stainless steel**
- Integrated MagSpring® for **load compensation**
- Hollow shaft for **vacuum and compressed air feed-through**
- Independent linear and rotary motion

Stroke up to	mm	110
Peak power	N	255
Nominal force	Nm	2.2
IP protection class		IP69S

PR01-52 SSCH



Stroke up to	mm	100
Peak power	N	255
Nominal force	Nm	2.2
IP protection class		IP69S

- High chemical resistance
- Option of integrated MagSpring for **load compensation** (pushing or pulling)
- Independent linear and rotary motion



PR02-52 SSCH

Customised Solutions

Stainless Steel Motor with integrated Servo Drive

- Specially designed for **pharmaceutical and food** applications where space is limited
- Welded connections
- Fully encapsulated (IP69K)
- Specially developed connectors
- Control via fieldbus

