Industrial Linear Motors

Smart solutions are driven by

LinMot®

Precision and dynamics

In the products and in the everyday life of NTI AG, these values are inseparable.

NTI AG

NTI AG is a global manufacturer of high quality tubular style linear motors and linear motor systems and thus focuses on the development, production and distribution of linear direct drives for use in industrial environments.

Founded in 1993 as an independent business unit of the Sulzer Group, NTI AG has been in operation since 2000 as an independent company.

NTI AG headquarters are located in Spreitenbach, near Zurich in Switzerland. In addition to three production sites in Switzerland and Slovakia, NTI AG maintains a sales and support office LinMot® USA Inc. to cover the Americas.

The brands LinMot® for industrial linear motors and MagSpring® for magnetic springs are offered to customers worldwide. NTI AG maintains an experienced customer consultant sales and support network of over 80 locations worldwide.

For the realization of linear motion NTI AG is always a competent and reliable partner.

Mission
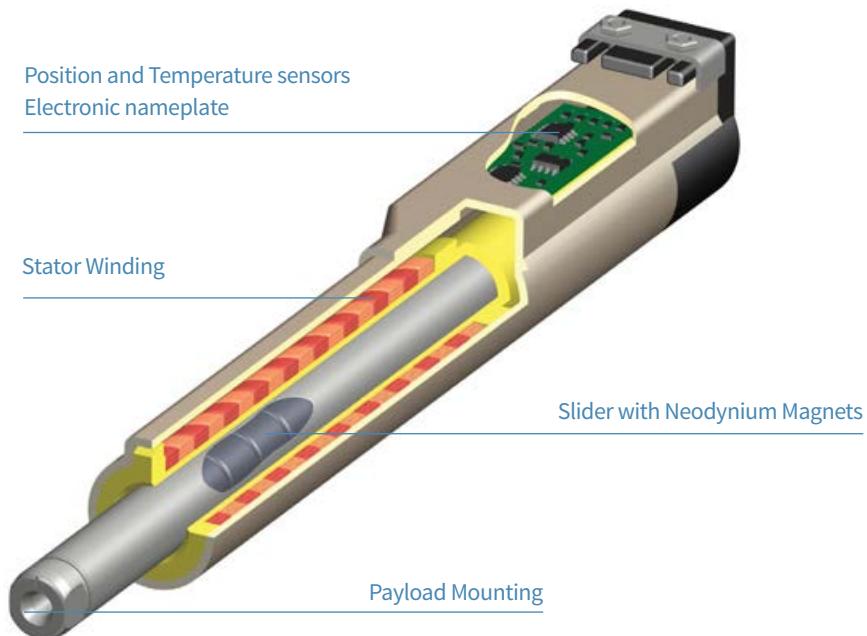
LinMot offers its customers a sophisticated and dedicated linear drive system that can be easily integrated into all leading control systems. A high degree of standardization, delivery from stock and a worldwide distribution network insure the immediate availability and excellent customer support.

Our aim is to push linear direct drive technology and make it a standard machine design element. We offer highly efficient drive solutions that make a major contribution to the overall resource conservation effort.

NTI AG

LinMot®

Linear Motors

Position and Temperature sensors
Electronic nameplate

Stator Winding

Slider with Neodynium Magnets

Payload Mounting

LinMot linear motors employ a direct electromagnetic principle. Electromagnetic force provides direct linear movement without the use of cams, gears, belts, or other mechanical devices. The engine consists of only two parts: The slider and the stator. The slider is made of neodymium magnets in a high precision stainless steel tube. In the stator are the motor windings, the bearing for the slider, the position detection and temperature sensors for thermal monitoring of the motor.

Standard Motors
High-Performance Motors
Short Type Motors
Stainless Steel Motors
ATEX Motors
Special Motors

✓ **Freely positionable**

✓ **Speed adjustable**

✓ **Acceleration adjustable**

✓ **Programmable force**

✓ **Extreme dynamics**

✓ **Monitored movements**

✓ **Soft movements**

✓ **Synchronized movements**

✓ **Long service life**

✓ **Low maintenance costs**

✓ **Hygienic**

✓ **Low energy costs**

LinMot®

LinMot®

Standard Motors
Universal

» Highly dynamic drives
» Wide stroke range
» Available with cable outlet or with rotatable connector
» Optional with air cooling
» Wide range of applications in handling modules as well as in plant and machine construction

Stroke up to	mm	1830
Max. Force	N	23-1024
Nominal Force	N	9-354
Peak Velocity	m/s	6.9
Peak Acceleration	m/s^2	500
Repeatability	mm	0.05/0.01
Stator Length	mm	162-410
Slider Length	mm	130-2000

Short Type Motors
Compact

HP Motors
High-Performance

» Particularly strong magnetic circuit
» Increased duration of force and acceleration
» Enables higher operating temperatures
» In comparison with the standard motors , a smaller HP motor can be used with the same load.

» Short design
» Integrated mounting flange
» Pluggable motor cable with cover
» Free positionable cable outlet
» For use where space is limited and in multi-axis applications

Stroke up to	mm	1480
Max. Force	N	21-255
Nominal Force	N	15-92
Peak Velocity	m/s	7.3
Peak Acceleration	m/s^2	780
Repeatability	mm	0.05/0.01
Stator Length	mm	162-257
Slider Length	mm	170-1600

Stroke up to	mm	1480
Max. Force	N	29-255
Nominal Force	N	8-65
Peak Velocity	m/s	7.3
Peak Acceleration	m/s^2	750
Repeatability	mm	0.05/0.01
Stator Length	mm	90/105/150
Slider Length	mm	130-1600

Stainless Steel Motors
Hygienic

» Stainless steel housing
  EN 1.4404/ AISI 316
» Hygienic design
» Welded connections, no gaskets
» Completely encapsulated (IP69K)
» Optional integrated water cooling
» For use in the food
  or in the pharmaceutical sector

Stroke up to	mm	980
Max. Force	N	210-888
Nominal Force	N	24-360
Peak Velocity	m/s	3.4
Peak Acceleration	m/s^2	440
Repeatability	mm	0.05/0.01
Stator Length	mm	296/395/515
Slider Length	mm	395-1400

ATEX Motors
Encapsulated

» Welded connections, no gaskets
» Completely encapsulated (IP69K)
» Optional integrated water cooling
» Additional redundant temperature
  monitoring
» For use in the zones 1/2 (gas)
» Suitable for use in zones 21/22 (dust)

Stroke up to	mm	980
Max. Force	N	210-888
Nominal Force	N	24-360
Peak Velocity	m/s	3.4
Peak Acceleration	m/s^2	440
Repeatability	mm	0.05/0.01
Stator Length	mm	296/395/515
Slider Length	mm	395-1400

P10-70 Motors
Power packages

» 3 x 400VAC technology
» Peak force up to 2700 N
» Extremely high accelerations
» Separate connector for sensor
  and power cable
» Can be operated by standard
  "third party" Servo Drives
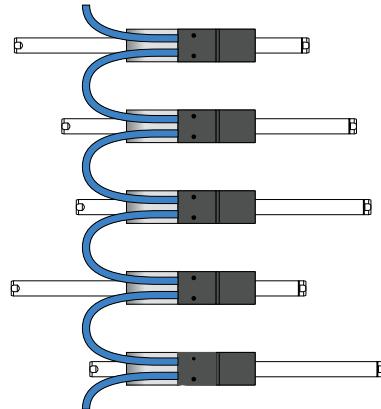
Stroke up to	mm	1770
Max. Force	N	557-2703
Nominal Force	N	65-862
Peak Velocity	m/s	7.4
Peak Acceleration	m/s^2	975
Repeatability	mm	0.05/0.01
Stator Length	mm	180-500
Slider Length	mm	290-1990

Motor drive module

» High-Performance Linear Motor with integrated drive
» Compact dimensions
» High dynamics
» Integrated mounting flange
» Reduced wiring
» Easy start-up
» Low total cost
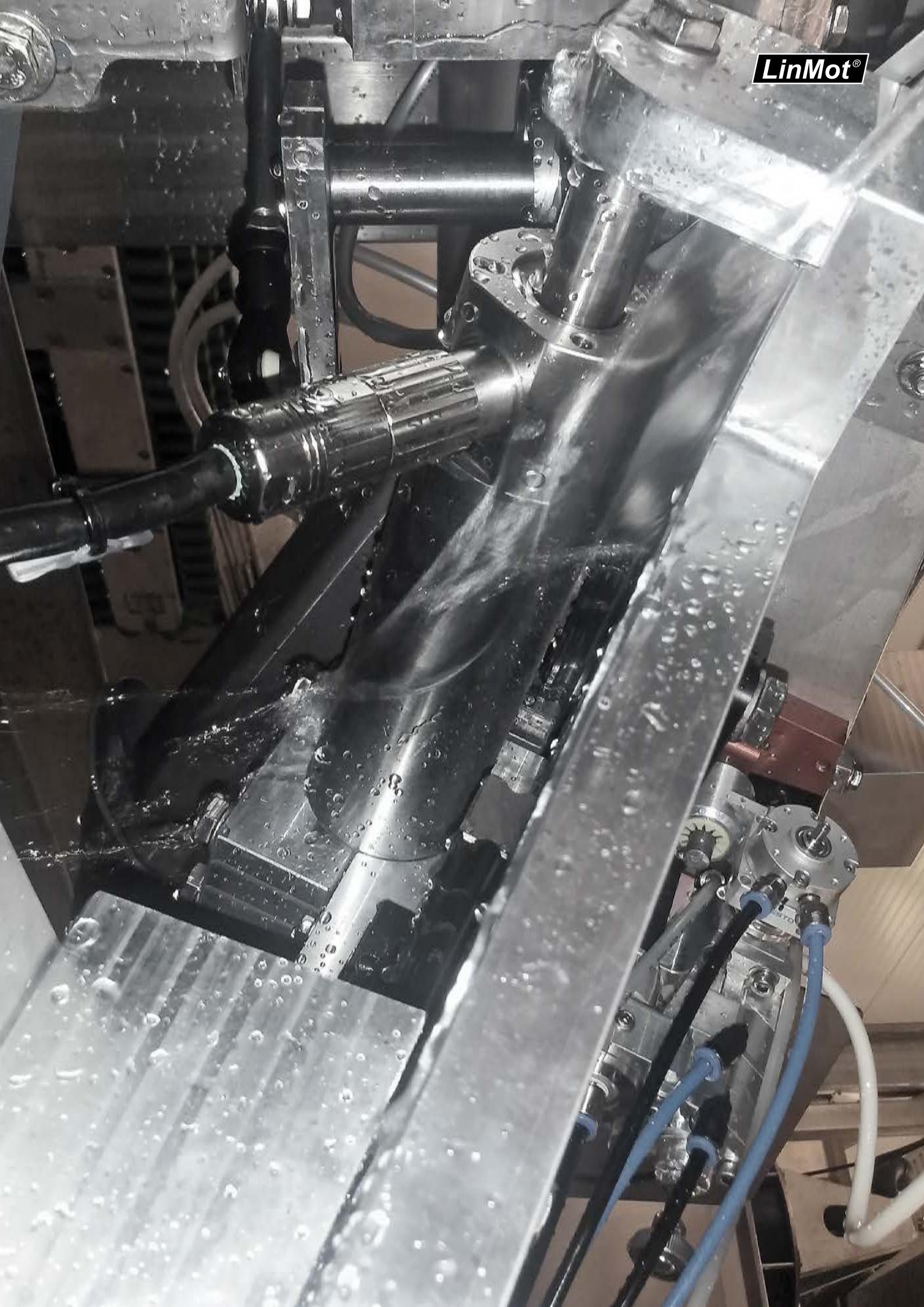
Preliminary		
Stroke up to	mm	1480
Max. Force	N	255
Nominal Force	N	35-65
Peak Velocity	m/s	3.9
Peak Acceleration	m/s^2	350
Repeatability	mm	0.05/0.01
Stator Length	mm	150
Slider Length	mm	240-1600

Omega Motor
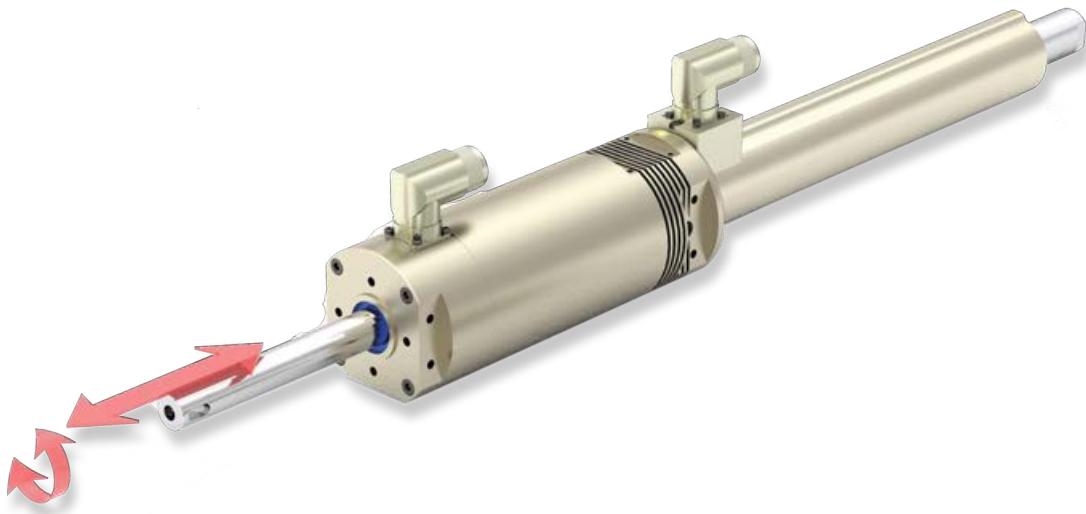
» Stainless Steel Motor with integrated drive
» Especially for applications in the pharmaceutical and food industry with very tight spaces
» Welded connections
» Completely encapsulated (IP69K)
» Special designed connector
» Control via fieldbus or Industrial Ethernet

LinMot®

Linear Rotary Motors

The PR01 motor series combines linear and rotary movements in a single integrated direct drive solution. The two motors are individually and independently driven. Working with a higher-level control high dynamic linear and rotary movements can be realized. These can be programmed either synchronously or independently of each other.

Complex tasks such as screwing, closing, capping, stacking, aligning and much more can be realized with a single component. The PR01 linear-rotary motor allows for independently specified linear force/pressing force as well as rotary torque.

Standard
Gearbox
Hollow shaft
Stainless steel

✓ **Linear and rotary direct drive**

✓ **Synchronous linear and rotary movements**

✓ **Programmable forces and torques**

✓ **Stainless steel version available**

✓ **With gear transmission or hollow shaft**

✓ **Simplest realization of seamers & cappers**
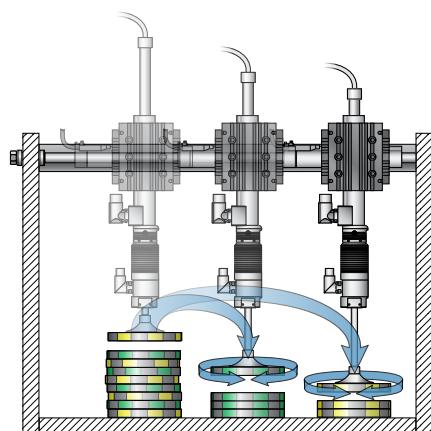
LinMot®

» Version with hollow shaft
» Inner diameter 2.5 / 4.0 mm
» Upgradeable to vacuum gripper
» Can be combined with
   a pneumatic or electric gripper

Stroke up to	mm	300
Max. Force	N	255-1024
Nominal Force	N	51-354
Peak Velocity	m/s	3.9
Peak Torque	Nm	1.53-8.9
Constant Torque	Nm	0.32-2.64
Max. Num. of Rev.	rpm	1000-1500
Repeatability	mm	0.05/0.01
Length	mm	503-1222

» Linear direct drive
» Rotary direct drive
» Independent linear and
   rotary motions
» Integrated position sensors
» Absolute temperature feedback
» Programmable position /
   motion profiles
» Programmable press force
» Programmable torque

Stroke up to	mm	150
Max. Force	N	229-921
Nominal Force	N	45-319
Peak Velocity	m/s	3.9
Peak Torque	Nm	1.53-8.9
Constant Torque	Nm	0.32-2.64
Max. Num. of Rev.	rpm	1000-1500
Repeatability	mm	0.05/0.01
Length	mm	503-959

Stainless steel

» Linear rotary shaft in stainless steel
  EN 1.4404 / AISI 316
» Hygienic Design
» Resistant to cleaning supplies
» Designed for use with food products
» Designed for use in the
  chemical industry
» With interchangeable plain bearings

Gearbox

» Independent linear and rotary motions
» For applications with high inertia loads
» For applications with high torque
  requirement
» 3 selectable transmission ratios
» With guide rails to bear
  transverse loads
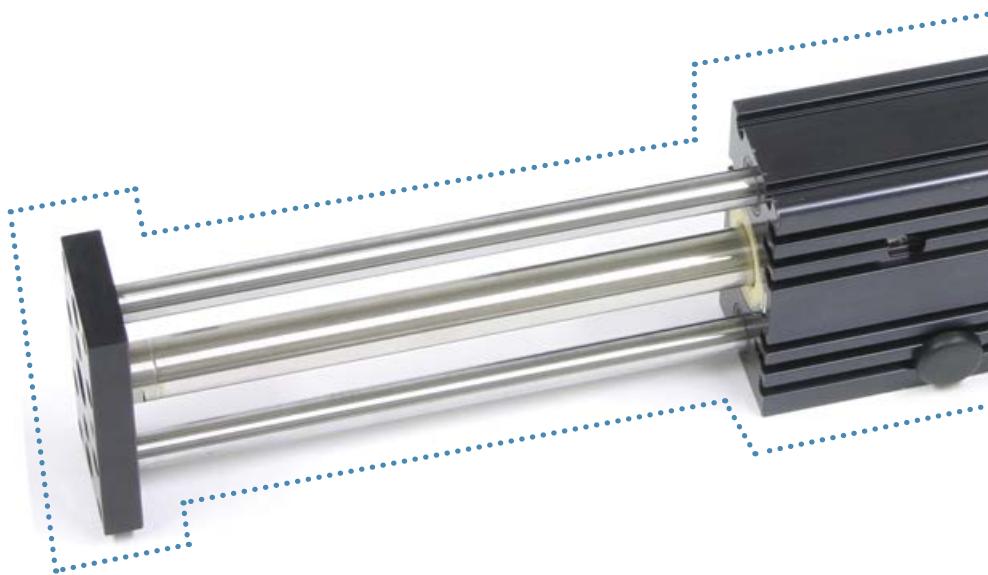
| Max. Stroke	mm	150
Max. Force	N	1024
Nominal Force	N	354
Peak Velocity	m/s	3
Gear	n	1:5/1:7/1:10
Peak Torque	Nm	44/62/89
Constant Torque	Nm	9.5/13/19

Linear Guides

LinMot linear guides are compact guide units with integrated ball bushings or bearings for the LinMot linear motors.

The guides use load bearings to support external forces, torques, and bending moments. Additionally the linear guides act as an anti-twist device. These products offer high guidance accuracy and facilitate dynamic and precise positioning of the load.

The load is connected directly to the front panel of the linear guide. The mechanical dimensions and mounting options are compatible with many pneumatic guides. The modular design allows an easy mounting of accessories, such as a mechanical brake or MagSpring (magnetic spring) for load balancing in a vertical installation position.

Linear Guides H01	Linear Guides B01	Linear Guides H10
» Bearing external forces, torque and bending moments	» Increased stiffness by endplate	» Bearing external forces, torque and bending moments
» Turning resistance	» Use in high-clearance sliders	» Turning resistance
» Compatible with pneumatic guides	» Bearing external forces, torque and bending moments	» Compatible with pneumatic guides
» Integrated Linear ball bearings or sintered bearings	» Turning resistance	» Integrated Linear ball bearings or sintered bearings
	» Compatible with pneumatic guides	
	» Integrated Linear ball bearings or sintered bearings	

MagSpring

Weightlessness in your application

When installed vertically, linear motors and other direct drives must apply a constant force to counteract the force of gravity.
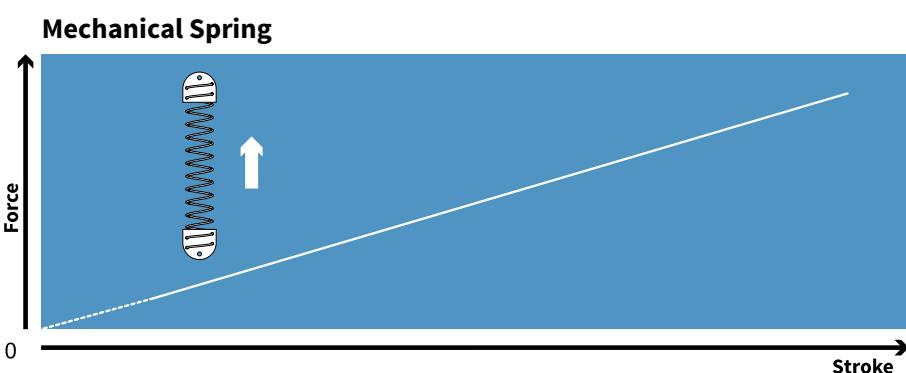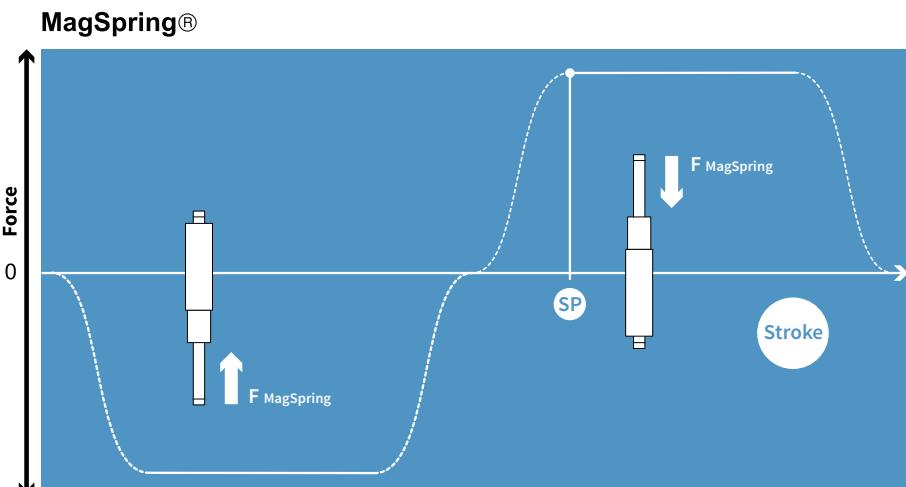
This is exactly why LinMot has developed the «Magnetic Spring» MagSpring.

Mounted parallel to the linear motor, the weight force can be passively compensated via the MagSpring. When the vertical axis de-energizes, the MagSpring may prevent lowering of the vertical axis. Utilizing a MagSpring the linear motor is used only for actual positioning and application of dynamic forces, thus allowing smaller dimensioned motors.

The functionality is based on the attraction of the permanent magnet. Accordingly, no power supply (electricity, compressed air, etc.) is necessary, allowing easy implementation of safety-related applications.

Thanks to the constant power path characteristic numerous applications are possible, such as position-independent generation of a constant contact force, the application of a constant holding force over a large stroke range or the unilateral power assistance in driving tasks.

MagSpring®

F MagSpring

F MagSpring

SP

Stroke

0

Force

Mechanical Spring

0

Force

Stroke

M01-20			M01-37		
Constant force	N	11 / 17 / 22	Constant force	N	40 / 50 / 60
Stroke (Constant force)	mm	≤ 290	Stroke (Constant force)	mm	≤ 275
Stator mass	g	75 - 388	Stator mass	g	440 - 1800
Slider mass	g	75 - 280	Slider mass	g	75 - 280

Product characteristics

»   Constant force along the entire stroke
»   Purely passive, no electricity needed nor compressed air
»   Ideal for compensating the gravitational force
»   Also suitable for dynamic movements
»   Different stroke ranges and forces
»   Compatible with H-guides
»   Simple construction

Motor accessories

Plenty of choice for customized applications

Electric

» **Motor cable**
For stationary operation
or cable tracks and robot
applications

» **Connection cable and
converter**
PC configuration cable
and interface cable

External position sensor
For high precision applications in
the micron range and / or absolute
Position detection

» **Control Box**
For quick setup of Servo Drives

» **Power Supplies**
In the power range of 300 W,
500 W, 1000 W

» **Transformer Supplies**
In the power range of 420 VA /
900 VA / 1500 VA

Mechanically

» **Mounting Flanges**
Fast motor assembly and
optimal cooling

» **Slider Mounting**
Prevents misalignment

» **Brake**
Holds the load in a vertical
mounting position even in off
position

LinMot® System integration

LinMot products fit every control concept

SIEMENS Rockwell Automation AB Allen-Bradley BECKHOFF B&R Schneider Electric BOSCH

Controller

PROFI BUS PROFI NET DeviceNet EtherNet/IP CANopen

Communication Interfaces

24...72 VDC

LinMot Drives

LinMot® LinMot Motors

Voice Coil

EC/DC Motor

Linear Motor

LinMot®

OMRON   Lenze   CODESYS   NATIONAL INSTRUMENTS LabVIEW   MATLAB SIMU LINK®

▼   ▼   ▼   ▼

ETHERNET POWERLINK   EtherCAT.   sercos the automation bus   RS 485   RS 232

▼   ▼

3 x 400 VAC

LinMot Drives

3rd Party Drives

▼   ▼   ▼   ▼

P10-70   AC Servo   P10-70   AC Servo

LinMot®

Servo Drives

The wide product range of LinMot servo drives allows the rapid implementation in applications from simple two position point to point movements up to complex, high-precision multi-axis synchronization with electronic line shaft.

LinMot Drives cover the entire power range from the 24 to 72VDC low voltage range up to powering high performance servo motors with direct connection to 3phase 480VAC.

E 1200
E 1100
B 1100
C 1200
C 1100
A 1100
E 1400
M 8050

✓ **Wide range of applications from point to point to complex multi-axis applications**

✓ **Serial communication, field buses and realtime ETHERNET**

✓ **Internally stored motion profiles or program sequences**

✓ **Control of position, velocity, acceleration and force**

✓ **Integrated safety functions for switching off the power output stage**

✓ **Compact design and easy commissioning**

RT ETH Out

X18

RT ETH In

X17

Bus

or

high

ex

low

24V

OK

S1

S2
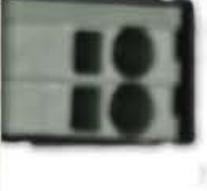
RS Config

X23

Supply

X24

LinMot®

C 1200
Compact Drive / NC Motion

» Absolute / relative
  positioning commands
» Limited jerk
  motion commands
» Time Curves
» Real Time (Streaming)
» Synchronous control
  (Drive profiles)
» PLC or Stand-Alone Solutions
» Digital and Analog IO's
» Safe Torque Off
» Safe Limited Speed Ready
» Interface for optional incremental
  and absolute sensor
» Supports Plug and Play
» UL 508C

C 1100
Compact-Drive / Point to Point

» Absolute / relative
  positioning commands
» Limited jerk
  motion commands
» Time Curves
» Real Time (Streaming)
» PLC or Stand-Alone Solutions
» Digital and Analog IO's
» Safe Torque Off
» Safe Limited Speed Ready
» Interface for optional incremental
  and absolute sensor
» Supports Plug and Play
» UL 508C

A 1100
Small drive for instrument engineering

» Absolute / relative
  positioning commands
» Limited jerk
  motion commands
» Time Curves
» PLC or Stand-Alone Solutions
» Digital IO's
» Supports Plug and Play
» UL 508C

E 1100
Universal


» Absolute / relative
positioning commands
» Limited jerk
motion commands
» Time Curves
» Real Time (Streaming)
» Master Encoder Synchronization
(In/Out)
» PLC or Stand-Alone Solutions
» Digital and Analog IO's
» Interface for optional
incremental sensor
» Master / Slave Solutions
» UL 508C

B 1100
Standard

» Absolute / relative
positioning commands
» Limited jerk
motion commands
» PLC or Stand-Alone Solutions
» Digital und Analog IO's
» Interface for optional
incremental sensor
» Position Encoder Simulation (RS 422)
» ± 10 VDC Force / Speed Control

E 1200
High End

» Absolute / relative
positioning commands
» Limited jerk
motion commands
» Time Curves
» Real Time (Streaming)
» Synchronous control (Drive profiles)
» Master Encoder
Synchronization (In/Out)
» PLC or Stand-Alone Solutions
» Industrial Ethernet Configuration
/ Remote Access Ethernet
» Digital and Analog IO's
» Safe Torque Off
» Interface for optional incremental
and absolute sensor
» Position Encoder Simulation (RS 422)
» Master / Slave Solutions
» ± 10 VDC Force / Speed Control
» Supports Plug and Play

LinMot®

E 1400
High feature drive

» Controls LinMot motors / AC servomotors
» Absolute / relative positioning commands
» Limited jerk motion commands
» Time Curves
» Real Time (Streaming)
» Synchronous control (Drive profiles)
» Master Encoder Synchronization (In/Out)
» PLC or Stand-Alone Solutions
» Industrial Ethernet Configuration
  / Remote Access Ethernet
» Digital and Analog IO's
» Safe Torque Off
» Safe Limited Speed Ready
» Interface for optional incremental
  and absolute sensor
» Position Encoder Simulation (RS 422)
» Master / Slave Solutions
» ± 10 VDC Force / Speed Control
» Supports Plug and Play

PROFIBUS / PROFINET / EtherNet/IP / EtherCAT / sercos the automation bus / ETHERNET POWERLINK / CANopen

M 8050
Modular drive concept

» Compact design up to 8 axis
» Central supply module
» SafeTorque Off
» Safe Limited Speed Ready
» Modular, wired through backplane
» Push-Pull motor connectors
» Easy and fast installation

PROFINET / EtherNet/IP

LinMot®

MB1150-ML-XC-1S-H
SN: 2034 6H2.010
PN: 0150-2034
Ver: 1 Rev: E

MB1150-ML-XC-1S-H
SN: 2034 6H2.008
PN: 0150-2034
Ver: 1 Rev: E

MB1150-ML-XC-1S-H
SN: 2034 6H2.009
PN: 0150-2034
Ver: 1 Rev: E

Type:
Part No.:
Serial No.:

Hardware:
Signal Sup.:
Power Sup.:

http://www.linm

LinMot®

LinMot Talk and LinMot Designer

Correctly size and monitor your linear motors

Complete control in configuration and operating modes

A linear drive application starts with the correct sizing of the linear motor. LinMot provides designers with an easy to use tool. LinMot Designer calculates the parameters required to select a drive and linear motor for a given motion sequence and load case, and relates them to the selected linear motor and servo drive.

Using LinMot Talk PC interface, the engineer can configure LinMot servo drives. The motors are also monitored during operation and the current motion sequences are analysed (monitoring).

The integrated control panel gives the user direct access to the control and status words, as well as all commands that are invoked by the upper-level controller.

Design with LinMot Designer

» Specification of all global data
» Simulation of motions
» Determination of kinematic data
» Calculating motor power draw
» Approval of selected motor
» "Cost efficiency" tab that compares energy use between pneumatic cylinders and linear motors
» Design of rotary motors
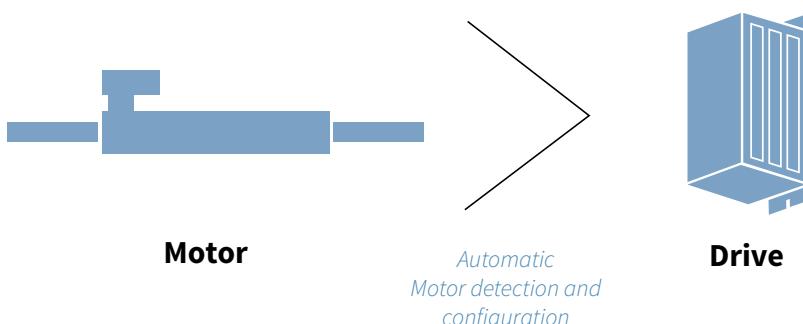
Configuration with LinMot Talk

» Drive and motor configuration
» Configuration of application data
» Create and save motion sequences
» Controller optimization and status monitoring
» Records and measurements with oscilloscope
» Reading error history (error management)
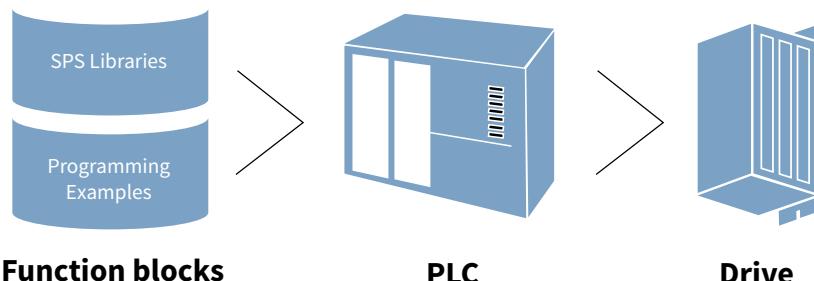
Commissioning by a click

Proven technology to get moving quickly.

Configuration via PnP

Motor
Automatic Motor detection and configuration
Drive

Configuration via PLC

SPS Libraries

Programming Examples

Function blocks   **PLC**   **Drive**

### SPS Libraries and Programming Examples

LinMot Drives have all common fieldbus interfaces available for connection to a master controller.

In order to realize simple control concept integration, extensive function blocks and programming examples are provided for the customer. These function blocks allow for direct and quick LinMot drive integration.

The function blocks run standard functions as well as commands such as drive parameterization and configuration directly from the controller. The complete drive configuration of the corresponding axis is thus stored on the controller.

Maintenance or replacement can be easily realized via automatic drives detection and configuration over the communication bus. Thus manual and time-consuming configuration of the drives in case of failure is eliminated.

Automatic motor configuration

Plug & Play technology, well established in the computer industry, is now used by LinMot for commissioning linear motors.

With Plug & Play motors, the parameters are saved directly to the stator. The servo drive reads these values when it boots up, and sets the parameters accordingly. This automatic device detection eliminates the selection of the required model parameters from an extensive library.

Immediately after installing and connecting the cable, the motor can be moved immediately. Without having the configuration software to boot, first commands can be sent directly by the PLC control. Initial commissioning and replacement with a motor are thus very simple operations.

LinMot Fields of Application

The right linear motor for every application

LinMot linear motors and servo drives are built for use in harsh, demanding industrial environments. Their exceptional technical properties, low-maintenance operation, and extremely long life set them apart.

Within the wide product range, LinMot offers electrical products for complex servo applications and simple pneumatic replacement. LinMot technology has been proven for years to be the ideal solution in many fields.

Packaging

Medical & Pharmaceutical

Food

Automotive

Beverage

Packaging & Labelling

Laboratory Automation

Textile Machines

Wood Machines

What has been achieved in the past by pneumatic cylinders, servo motors or mechanical cams, is now increasingly implemented directly by linear motors.
The fields of application are many:

- » Pick & Place
- » Flying Cut-Off
- » Synchronous insertion
- » Fill level metering
- » Blister filling
- » Pallet filling

- » Bottle and tube filling
- » Sealer control
- » Printing Registration
- » Pad printing
- » Doctor blade controls
- » Label positioning

- » Label application
- » Camera positioning
- » Lighting positioning
  and many more

RS01-52x40-R
Rotative Part
S/N:1572 5TI.043

CE

Electric linear motion
Superior to pneumatic cylinders in
many applications.

Electricity instead of air

Energy and cost savings - Unique Advantages of electric linear motion technology
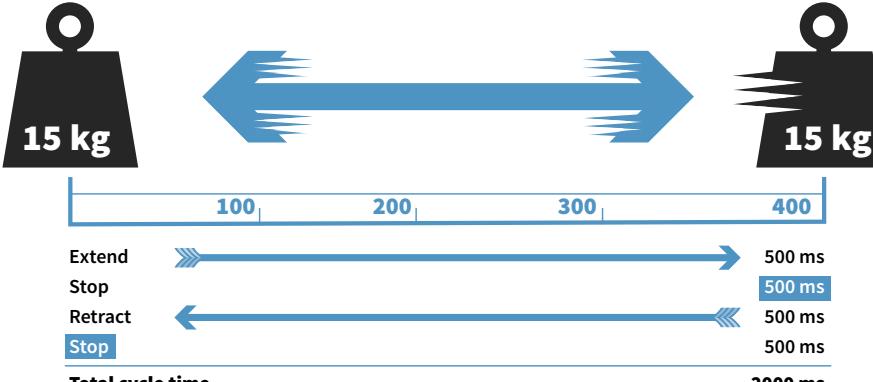
Machine design engineers have found numerous situations where linear direct drives provide distinct advantages over pneumatic actuators. These include: If more than two end positions are needed, if the positions are to be changed by software, if running synchronously with a main drive is required or the dynamics / life of a pneumatic cylinder is simply no longer sufficient.

Due to the high operating costs of pneumatic cylinders, linear motors may also prove to be a cost efficient alternative in simple point to point motions even with only two end positions.
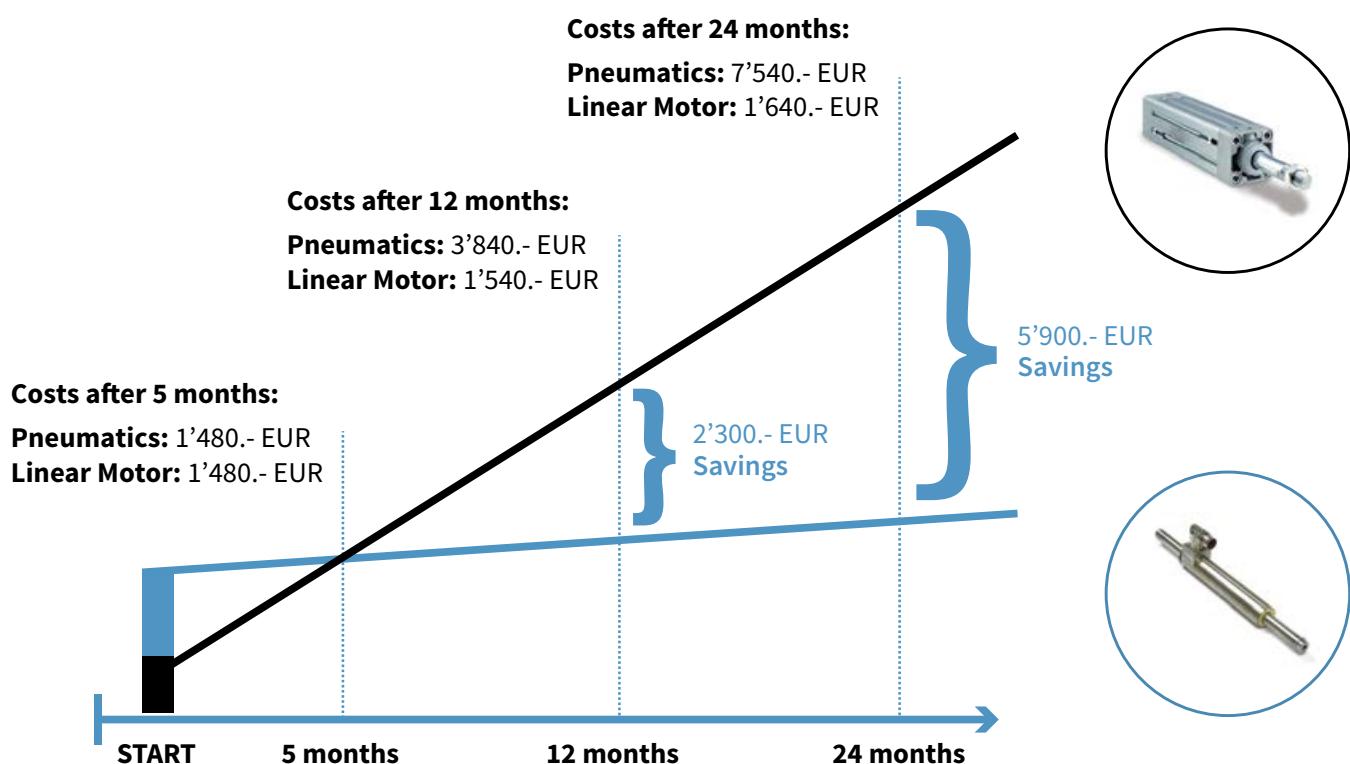
This is especially true when the motions are in a cyclic operation and carried out regularly. Many times pneumatic cylinders must be oversized due to the speed and load conditions. In many cases the pneumatic cylinder energy and maintenance costs exceed the investment costs within a few weeks.

A typical cost comparison shows the impressive cost savings with LinMot linear motors.

Cost comparison example

Application

**30 cycles per minute
with 500 ms travel time
and 500 ms pause time**

15 kg ⟷ 15 kg

	100	200	300	400

Extend	→	500 ms
Stop		500 ms
Retract	←	500 ms
Stop		500 ms
Total cycle time		**2000 ms**

Parameter

Stroke:	400 mm
Positioning time:	500 ms
Required acceleration:	10 m/s2
Required speed:	1 m/s
Expected period of operation:	8000 h

Comparison of technology

Linear Motors

» Acceleration work is performed only during 100 ms.
» At standstill, no energy is expended.
» At a constant speed, only energy to overcome the friction is used.
» Kinetic energy is stored in the DC link capacitor of the servo drives.
» **The measured power consumption for this application is 92 W on average.**

Pneumatic cylinder

» For the required mass and velocity a piston diameter of 50 mm is required.
» During the entire moving time, compressed air power is required.
» Dampers absorb the energy during braking. The energy cannot be stored.
» Due to the cylinder diameter, the stroke and the cycle time the annual air requirement equals 150.000 Nm^3 per year.
» Pneumatic manufacturers list production costs for compressed air at 0.025 EUR/Nm^3.

Energy costs

» At a current price of 0.12 € / kWh and 8000 hours of operation, **the annual energy cost is € 96.**

» With production costs of 0.025 EUR / Nm^3 and an air consumption of 150.000 Nm^3.
» **The annual compressed air costs are 3.750.- €.**

Total cost comparison and CO$_2$ emissions

Costs after 24 months:

Pneumatics: 7'540.- EUR
Linear Motor: 1'640.- EUR

Costs after 12 months:

Pneumatics: 3'840.- EUR
Linear Motor: 1'540.- EUR

Costs after 5 months:

Pneumatics: 1'480.- EUR
Linear Motor: 1'480.- EUR

5'900.- EUR
Savings

2'300.- EUR
Savings

START   5 months   12 months   24 months

The initial costs of a linear direct drive system including all components (cables, converters, etc.) required for the operation are higher than the initial costs for a pneumatic actuator system (incl. valves, hoses, etc.). But by accounting for the significantly lower energy costs of linear motors, these initial costs are recovered in less than half a year. After this time, the cost savings are realized as lower operating costs and increased profit margins. The operating energy costs of pneumatics exceed their initial investment costs after only three months.

CO$_2$ emissions can be drastically reduced by switching to an electric linear drive providing another huge benefit. The energy of 24.000 kWh, which is additionally required by the pneumatic cylinder in this sample calculation, results in an annual output of 12.000 kg CO$_2$. This calculation takes into account the German energy mix of 500g CO$_2$ / kWh.

Thus, the CO$_2$ record speaks clearly: A change to electric direct drives!

LinMot®

Competence

Everything from one source

Support

As the world`s leading manufacturer of industrial linear motors, NTI AG uses its knowledge and innovation to provide customized solutions. Seeking the optimal solution of specific drive tasks our application engineers offer exceptional support to the customer. Our customers can rely on years of production experience for the implementation and production for customer specific drive solutions.

Innovation

Through continuous development and investment and with the input of our worldwide sales consultants, engineers and partners NTI AG is able to offer its customers commercially viable new products at attractive prices.

Production

The standardized LinMot and MagSpring products are manufactured via self-designed production facilities. This guarantees rapid product availability even in larger quantities while simultaneously allowing for maximum flexibility and customizations. The highly automated production facilities ensure constant high quality products.

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Seeking optimal solutions for specific drive tasks LinMot application engineers provide exceptional customer support.

Logistics

LinMot and MagSpring products are standardized products, which are typically supplied from stock and available worldwide. Currently more than 1000 different drive and motor combinations are in stock and available within 48 hours worldwide.

Quality

Quality control starts with the checking of incoming material and continues into production all the way through the final burn-in testing before delivery. All LinMot linear motors are subjected to a 24-hour burn-in before delivery. For long-term quality assurance, LinMot products are labeled with a unique serial number on the Stator, on its electronic nameplate and in the Servo Drive.

ALL LINEAR MOTION
FROM A SINGLE SOURCE

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