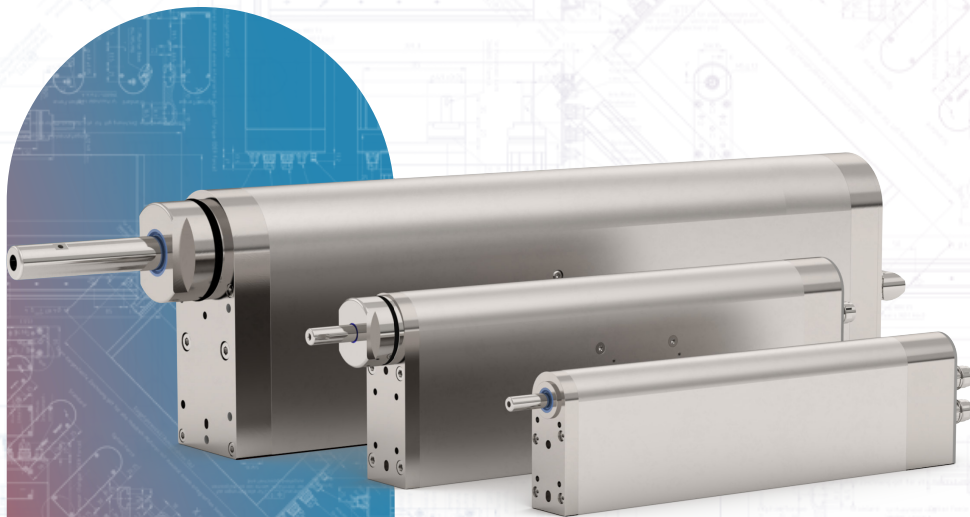


LinMot®

LinMot

Linear Rotary Motors PR02

New with
torque and
force sensor



Smart solutions are driven by
LinMot

Intelligent Screwing and Assembling

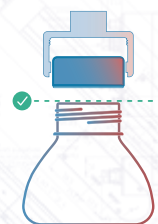
Sensitive assembly or screwing with final tolerances in the millimetre range requires a complex, usually external measuring technique for screwing units. The new PR02 Linear Rotary Motor from LinMot already includes everything you need to perform a demanding closing task. In addition to the motors for linear and rotating movements, a torque and force sensor can also be cleverly integrated into the housing as an option.

During the operating process, PR02 Linear Rotary Motors measure all important variables such as linear position, angle of rotation, feed force and torque and control them precisely for the respective application. Cases in which, for example, poorly fitting closures or damaged threads interfere with assembly are detected redundantly by the two servo motors and the respective sensors.



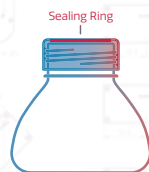
PR 02

READY TO INSTALL WITHOUT ENGINEERING



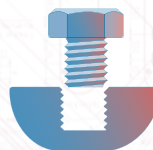
Monitoring
Overall Process

- ✓ Cover fitting
- ✓ Pressing force
- ✓ Torque
- ✓ Programmed motion profiles
(Position + angle of rotation)



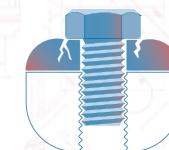
Features
Assembling

- ✓ Detect missing components
such as sealing rings.
- ✓ Detect slanted position of the lid.
- ✓ Detect damaged threads or
components
- ✓ Monitor characteristic curve of
closing torque



Features
Screwing

- ✓ Locate beginning of the
thread
- ✓ Detect excessively long
screws
- ✓ Acquire washers



Redundant
Error Detection

- ✓ For example, angle of
rotation and linear position
not reached



Ready for Industry 4.0

The innovative PR02 delivers all necessary data packages for networked production in the sense of «Industry 4.0». With the help of the drive parameters and the additional sensors that can be integrated, detailed information such as the vertical position, press force or impact force, closing angle and torque are available. In many cases, this information simplifies or completely eliminates the need for time-consuming subsequent inspections. The user has full control over the process quality and can detect deviations at an early stage. In addition, the traceability of every single product in the entire production chain is guaranteed.



Independent
Motion Control



Linear Position
Control



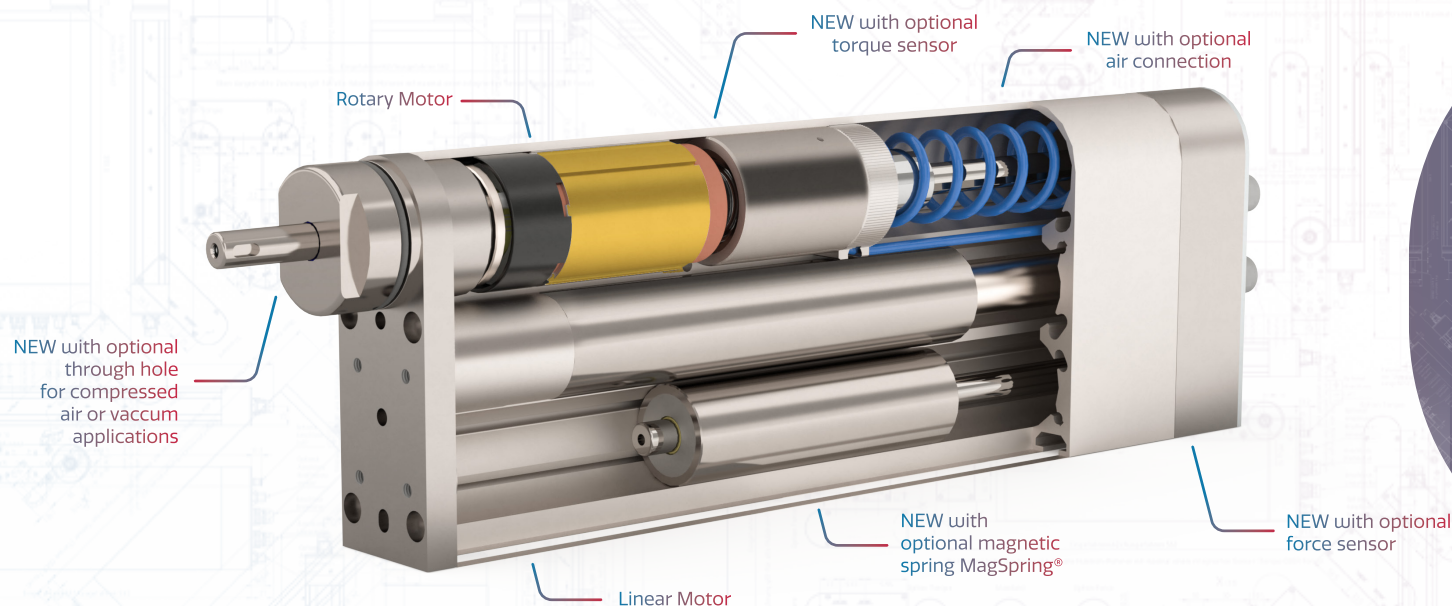
Linear
Force Control



Rotary
Angle Control



Rotary
Torque Control



PR02

Linear Rotary Motor

The new PR02 motor series is characterised by a new design in which the motors including additional components are integrated in a slim housing. In addition to the linear motor and the rotary motor, further options such as a magnetic spring «MagSpring», a torque and a force sensor can be installed.

The MagSpring ensures that the weight force of the moving load is passively compensated and also prevents the axis from lowering in the currentless state. The torque and force sensor enable precise, reproducible and recordable sealing processes as required, for example, in the pharmaceutical industry.

The user also benefits from the shorter installation length of the entire unit and the hygienic design with easy-to-clean surfaces.

ALL LINEAR MOTION FROM A SINGLE SOURCE

Would you like to know more about LinMot Products?
Discover all the advantages of the new Liner Rotary
Motor PR02 on our website and set the future of your
machines in motion.



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