

Product



No. 1 position:

- ✓ Extremely compact linear motor axis with junction roller guide

Product Features

- ✓ Very compact unit due to use of junction roller guides.
- ✓ Stroke measuring system available incrementally with sine or cosine interface, or absolutely with Hi-perface or SSI interface
- ✓ No mechanical play between the drive elements, enabling high-precision positioning
- ✓ Pre-loaded junction roller guide with high load capacity, as a result, rigid design and totally free from play
- ✓ The guidance is very smooth running, thus low power losses of the drive
- ✓ Modular design hole pattern therefore fully integrated into the modular system of the modular assembly automation
- ✓ BoschRexroth IndraDrive series or Siemens Sinamics series drive control units can be used (and thus the following communication interfaces are possible: Sercos III, Profinet IO, EtherNet/IP, EtherCat, Profibus, Sercos 2, CANopen, DeviceNet)
- ✓ Optional load compensation
- ✓ Optional holding brake available for applications as a Z axis

Market and Competitors

Advantages over competitors:

- ✓ Jenny:
 - Larger portfolio
 - Fully integrated in the modular system. Can be combined with pneumatic units from the standard program.
 - Gripper can be attached as standard.
 - Significantly more robust
 - Conventional controllers can be used
 - Industrial-purpose connection plug
 - High intermediate circuit voltage, therefore smaller, affordable controllers can be used
- ✓ Afag:
 - Significantly more compact
 - Absolute-value transducer possible
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Cost-effectiveness / Customer Benefits

- ✓ Pre-loaded free from play junction roller guide, therefore extremely rigid and hence top precision with high dynamics
- ✓ Optional with absolute-value transducer, therefore homing no longer necessary (time savings when the system starts up, or after emergency stop situations)
- ✓ The absolute-value transducer means that commutation is only necessary during initial commissioning, after which the parameter is stored in the controller (time savings when the system starts up, or after emergency stop situations)
- ✓ The absolute-value transducer means that no end or reference sensors are necessary. On the one hand, more convenient, on the other, less programming time required
- ✓ High dynamics for very short cycle times and increased productivity
- ✓ Almost no wearing parts resulting in long service life
- ✓ Thanks to the high repeat accuracy, joining and placing processes can be executed with much more reliability.
- ✓ Higher operating speeds lead to reduced cycle times, they also lead to more cycles per unit of time, and they lead to more products produced per unit of time

Technical Data / Functions

Technical Data:

- ✓ Number of sizes: 1 (size 70)
- ✓ Strokes: 50 mm, 75 mm, 125 mm
- ✓ Max. driving force: 150 N
- ✓ Rated force: 40 N
- ✓ Repeat accuracy: 0.01 mm
- ✓ Max. acceleration: 100 m/s²
- ✓ Max. speed: 4 m/s²

Complementary products:

- ✓ ERD
- ✓ LM
- ✓ CLM
- ✓ Pillar assembly system
- ✓ MPG+
- ✓ PGN+

Industries and Applications

Universal in use, for small and medium-sized loads

Industries:

- ✓ Electronics/electrical industry
- ✓ Plastic
- ✓ Pharmaceuticals
- ✓ Automotive
- ✓ Assembly of consumer goods
- ✓ Clock and watch making industry

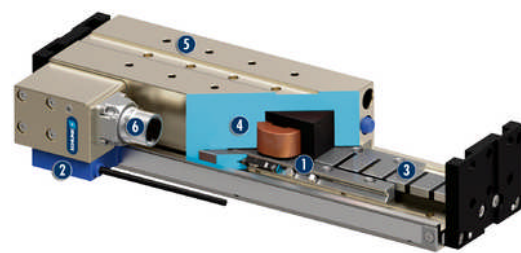
Applications:

- ✓ Assembly of cannulas
- ✓ Assembly of diesel injection pumps
- ✓ Handling of electronic components for testing and machining stations
- ✓ Assembly of disposable razors
- ✓ Printed circuit board assembly
- ✓ Assembly of "Trodat" stamps
- ✓ Assembly of lipsticks
- ✓ Assembly of toothbrushes

Additional Information

Based on the pneumatic linear module LM 100. Total length with the same stroke even less than the LM 100. Regarding dimensions, it is almost interchangeable with the LM 100.

Cross Section



1. Cross roller guidance
2. Stroke measuring system
3. Integrated secondary parts
4. Primary component
5. Modular design hole pattern
6. Motor plug