

Product



No. 1 Position:

✓

Features

Further Features:

- ✓ +15 % higher nominal force towards the predecessor version, this means more powerful motors in the same installation space
- ✓ No more hall encoder sensors => less cables per cable set
- ✓ No mechanical scope between the drive elements. Therefore high-precision positioning is possible
- ✓ More compact and lighter short stroke module for lower payloads, which have to be moved very dynamically in Z-axis direction.
- ✓ On request with parking break for applications in Z-axis direction.

Market and Competitors

Main Competitors

- ✓ Afag
- ✓ Isel
- ✓ Hiwin
- ✓ IDAM

Advantages towards competition:

- ✓ Larger product portfolio

Economy/Customer Benefits

- ✓ High dynamics for shorter cycle times and a higher productivity
- ✓ Hardly no wear parts => therefore higher life-times
- ✓ Due to the high repeat accuracy, joining and placing processes can be carried out at a higher process reliability.
- ✓ Higher working speeds lead to lower cycle times. More cycles per time unit lead to more produced products per time unit.
- ✓ Higher nominal force than the predecessor for example higher masses in case of vertical applications. Therefore, smaller linear modules can be used than before.

Questions about the product? Your Contact Person of the Product Management Automation is J. Khoury (+49 - 7133 - 103 - 2667)

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Technical Data/Functions

Basic technical Data:

- ✓ Max. nominal stroke: 200 mm
- ✓ Max. drive force: 125 N
- ✓ Nominal force: 52 N
- ✓ Repeat accuracy: 0,01 mm
- ✓ Max. acceleration: 40 m/s²
- ✓ Max. speed: 4 m/s²

Complementary Products:

- ✓ ERD (new MRD-S)
- ✓ MPG+
- ✓ PGN+
- ✓ ERS (new STM)

Industries and Applications

Only useable as a Z-axis (stroke module)

Industries

- ✓ Electrical industry
- ✓ Plastic industry
- ✓ Pharmaceutical industry
- ✓ Automotive industry
- ✓ Assembly of consumer goods

Applications

- ✓ Assembly of cannulas
- ✓ Assembly of diesel fuel injections
- ✓ Handling of electronic components at test and machining stations
- ✓ Assembly of disposable razors
- ✓ Production of circuit boards
- ✓ Assembly of "Trodat" stamps
- ✓ Assembly of lipsticks
- ✓ Assembly of toothbrushes

Additional Information

This product will replace the 50K profile of the MLD series (background information: The MLD series contained several profile types K-, N-, M-, T- and FU-profile. They were reworked, and are divided into various series LDH, LDK, LDN, LDM, LDT and LDF)

- ✓ +15 % higher nominal force towards the predecessor version, this means more powerful motors in the same installation space. For example higher masses in case of vertical applications. Therefore smaller linear modules can be used than before.
- ✓ No more hall encoder sensors => less cables per cable set
- ✓ Integration of an absolute encoder measurement system

Basically we can advertise with a "new axis generation" here (incl. all other axes LDH, LDK, LDN, LDM, LDT, LDF).

Cross Section

1. Aluminum profile
2. Steel guide rail
3. Secondary components
4. Primary component
5. End plates
6. Motor plug



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