

Product



No. 1 Position:

✓ .

Features

Features:

- ✓ +15 % higher nominal force towards the predecessor version, this means more powerful motors in the same installation
- ✓ No more hall encoder sensors => less cables per cable set
- ✓ Absolute encoder measurement system
- ✓ No mechanic play between the drive elements. Therefore high-precision positioning possible
- ✓ Several freely programmable slides are located on one guide profile => allows exceptional, compact and cost-efficient drive concepts.
- ✓ Many different variants (double motor, long slide, mechanically supported version) available for the optimum axis for each application
- ✓ Axis module with rigid x-shaped profile for loads with high dynamic requirements
- ✓ On request with parking break for applications as a Z-axis.

Market and Competitors

Main Competitors

- ✓ Afag
- ✓ Isel
- ✓ Hiwin
- ✓ IDAM

Advantages towards competition:

- ✓ Large product portfolio

Economy/Customer Benefits

- ✓ New! With absolute encoder, therefore no reference runs are necessary (time saving when starting up the plant, or in emergency stop situations)
- ✓ Due to the absolute encoder, cummutation is only necessary during commissioning. Then the parameter keeps stored in the controller (time saving when starting up the plant or in case of emergency stop situations)
- ✓ Due to the absolute encoder, no end or reference sensors have to be used. More favorable, and less programming efforts
- ✓ High dynamics for shortest cycle times and higher productivity
- ✓ Hardly no wear parts => higher lifetimes
- ✓ 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 cycle times 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.

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: 2700 mm
- ✓ Max. drive force: 500 N
- ✓ Nominal force: 190 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

Multi-purpose, for lower and medium payloads

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

The product will replace the N-profile of the MLD series (background information: the MLD series contained several profile types K-, N-, M-, T- and FU-profile. They were re-worked 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 the other axes LDH, LDK, LDN, LDM, LDT, LDF).

Cross Section

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



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