

Product



No. 1 Position:

- ✓ Unique torque motor with integrated air feed-through and absolute encoder measurement system on the market

Features

Unique Selling Points:

- ✓ Integrated media feed-through (2 x pneumatic, 4 x electric)

Further Features:

- ✓ Absolute encoder measurement system
- ✓ SIL2-certified absolute encoder measurement system (Important! Not the whole module, just the encoder measurement system)
[SIL = Safety integrity level] important for the Machinery Directive
- ✓ Brushless synchronous motor with permanent magnetic field excitation
- ✓ High number of pole pairs for a strong torque even at low speeds
- ✓ Special motor geometry for high dynamics and acceleration
- ✓ Drive control device BoschRexroth IndraDrive CS, IndraDrive Advanced

Market and Competition

Main Competitors

Many competitors offer torque motors on the market, however, most of them are intended to be used as a drive, and not as a handling module. This is the reason why the sizes cannot be compared with other units. Two competitors are representative here, which are acting on the market for handling segments.

- ✓ Weiss



	Nenn Drehmoment	Kantenmaß x Länge
ST 075-1	0,5 Nm	75 mm x 111 mm
ST 075-2	1 Nm	75 mm x 131 mm
ST 075-3	1,4 Nm	75 mm x 151 mm

- ✓ Afag



	Nenn Drehmoment	Kantenmaß x Länge
RE 50	0,75 Nm	50 mm x 75,8 mm
RE 75	3,5 Nm	75 mm x 103,5 mm

Economy/Customer Benefits

- ✓ Integrated air and electric feed-through. Therefore low space requirements
- ✓ New! With absolute encoder measurement system. Therefore reference runs are no more necessary (Time saving when starting up the plant or after an emergency stop situation)
- ✓ Absolute encoder measurement system, SIL2 certified for higher safety in the plant according to the new machine directives.
- ✓ High dynamics for shortest cycle times and higher productivity
- ✓ Hardly no wear parts and thus higher lifetime
- ✓ Optimized air feed-through for faster actuation of the actuator (e.g. gripper) in case of high-speed applications. => higher process reliability and shorter overall cycle times and therefore a higher productivity

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:

- ✓ Sizes: 04, 08, 12
- ✓ Rotation angle: > 360°, continuously rotating
- ✓ Nominal torque: 0,4 Nm, 0,8 Nm, 1,2 Nm
- ✓ Max. moment of inertia of the set up: 900 kgmm²
- ✓ Number of air feed-throughs: 2
- ✓ Number of electrical feed-throughs: 4
- ✓ Repeat accuracy 0,01°

Complementary Products:

- ✓ MPGplus
- ✓ PPU-E

Industries and Applications

The perfect solution for equipment in the electronic assembly!

The ERD convinces in the following industries

- ✓ Electronic assembly
- ✓ Assembly of consumer goods
- ✓ Pharmaceutical industry

Applications

- ✓ Assembly of disposable razors
- ✓ Printed circuit board assembly
- ✓ Assembly of "Trodat" stamps
- ✓ Assembly of lipsticks
- ✓ Assembly of toothbrushes

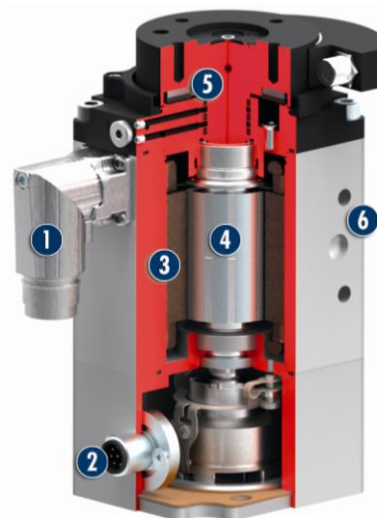
Additional Information

The ERD will replace the present MRD-S rotary module. These are the changes:

- ✓ Integration of an absolute encoder measurement system, which is SIL2-certified
- ✓ Improvement of the air feed-through for faster actuation of the actuator (e.g. gripper) during high-speed applications.

Cross Section

1. Motor plug
2. Absolute encoder plug
3. Primary component
4. Secondary component
5. Energy feed-through
6. Housing



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