MRG50 ECCENTRIC

Motor roller with integrated eccentric stroke for flat and space-saving corner transfers in sorting and conveyor systems

Applications

The eccentric roller was developed specifically for dynamic rejection and transfer processes in intralogistics. Typical applications include belt ejectors, corner transfers and sorting segments in which conveyed goods are lifted in a targeted manner and then transferred in a 90° conveying direction.

During the transfer process, a belt segment between the conveyor rollers is actively lifted, whereby the transport container or the conveyed goods are lifted out of the main flow in a controlled manner.

The precise 90° discharge then takes place into the downstream conveyor system.



The lifting movement is completely realized by the integrated eccentric disk within the motor roller. This eliminates the need for external, flanged lifting drives, which enables a significantly more compact and flatter design of the entire corner transfer unit.

Features & Benefits

- **Integrated eccentric stroke** directly in the motor roller
- **Allows exceptionally low-profile corner transfer units**
- **Reduces installation space** significantly compared to classic external lifting drives
- **Ideal for belt ejectors** and 90° sorting systems
- **Precise and synchronized lifting** during the conveying process
- **Fewer mechanical components** → reduced complexity and maintenance
- **High integration capability** in modular sorting and conveying systems
- **Optimized for compact, high-performance intralogistics systems**
- **Replacement for classic motor/gearbox lifting combinations**

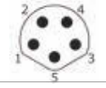
Technical data

		MRG50 Eccentric	
Rated voltage	VDC	24	48
Rated power (S1)	W	58	70
Speed	m/s	0 - 0.37	0 - 0.37
Nominal torque (S1)	Nm	3.92	4.76
Maximum torque	Nm	10.07	10.89
Rated current	ADC	1.0	1.87
Maximum current *	ADC	3.3	5.1

* Current limitation possible when operating with motor module

	Configuration
Interfaces	I/O or CAN
Lift height	13.5 mm
Maximum noise level	< 55 dB(A), application dependent
Length of connecting cable	500 mm
Tube dimensions	Ø 50 x 1.5 mm
Tube material	Galvanized steel
Ambient temperature	0 °C ... 40 °C
Protection class	IP54

Electrical interfaces

Pin	I/O version	CAN version	Presentation
1	Supply voltage (24 V/48 V)	Supply voltage (24 V/48 V)	 M8 B-coded 5-pin/male
2	Direction of rotation	CAN-HIGH	
3	Ground	Ground	
4	Error output / start-stop	CAN-LOW	
5	Speed setpoint	manufacturer-specific	

Dimensions

