

# **PRODUCT PORTFOLIO**

## **SORTER MOTORS**

Sorting systems powered by electricity alone can be built with MTA Sorter Motors.

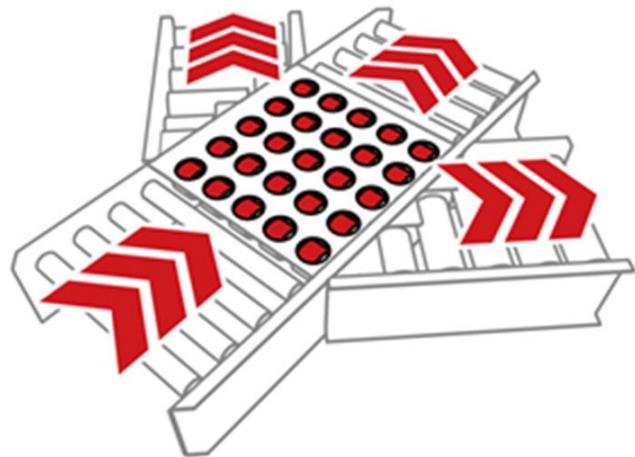
The main application is the sorting, redirecting, filtering, and separation of mail and package streams. Moreover, in-feeds and out-feeds can be implemented effortlessly.

The gearless sorter motors are extremely compact. This makes it possible to implement sorting systems with a very high roller density.

In combination with MTA motor controllers for several axles in different designs (4-fold, 8-fold, 12-fold), there are almost unlimited possibilities for implementing flexible cell sorters for all imaginable application requirements. The individual control and diagnostics of each individual motor ensures smooth out-feeding and sorting.

The positioning of the out-feed angles is implemented extremely precisely using an MTA swivel drive with integrated commutation electronics via CANopen.

Standardised communication interfaces and the possibility of an individual mechanical adaptation ease the integration of equipment automation.



### **Properties:**

- Nominal voltage 24 VDC or 48 VDC
- Mechanical power of 15 W to 35 W
- Gearless version
- Sensorless technology
- Noise of sorter motor <45 dB
- Each drive can be individually controlled or adjusted
- Motor controller for several axles in three different designs (4-fold, 8-fold, 12-fold)
- Full digitisation via the CANopen interface
- Integrated braking chopper at motor controller
- Swivel motor with integrated electronics with CANopen interface

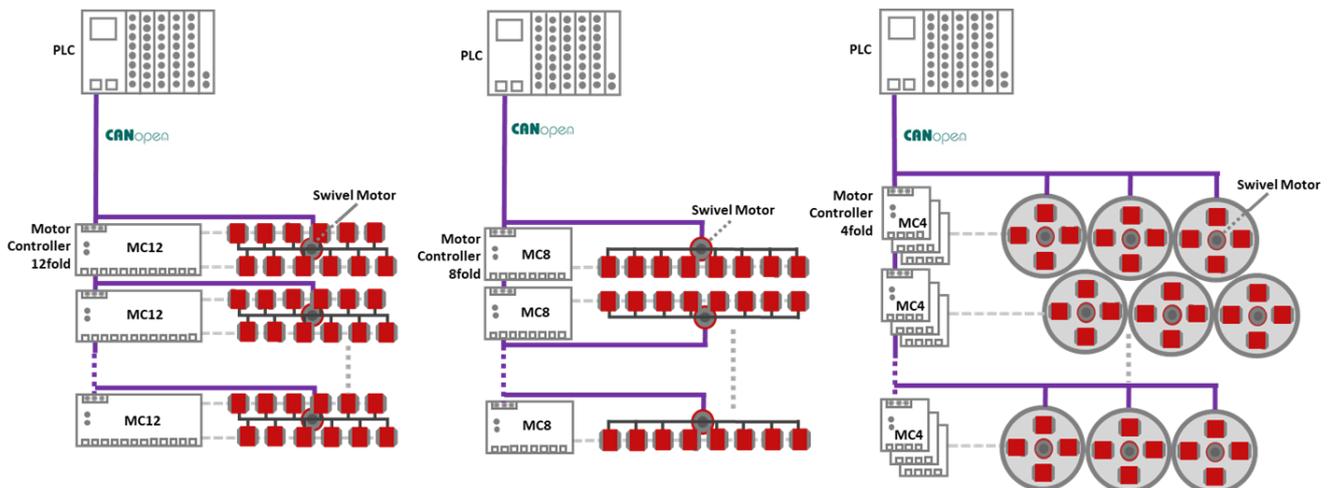
## Advantages/Benefits:

- Low noise due to gearless technology
- Maintenance-free and long life-span due to the elimination of wearing parts
- Flexible construction thanks to scalable electronics and motor designs
- Simple and cost-effective cabling due to sensorless technology
- End-to-end digitisation, diagnostics, and analysis via CANopen ensures a high degree of system availability
- Smooth package transport due to individual controls over every motor
- Advanced software functionality for predictive maintenance
- Simple system integration due to compatibility with current industry standards

## System integration:

MTA Sorter Motors can be effortlessly integrated into standardised automation systems through a flexible electromechanical concept. Communication to the motor controllers for several axes and the swivel drives is done via the CANopen interface. This therefore ensure full digitisation of the entire sorter.

Furthermore, advanced software functions enable increased system availability through predictive maintenance.



## Areas of application:

Sorter motors are used in a wide variety of applications in the area of stationary conveyor technology. Typically, package streams are sorted, filtered, discharged, distributed, and separated. Typically, the following goods are transported:

- Small load carriers
- Letters
- Packages

## Portfolio overview:

Nominal voltage	24 VDC or 48 VDC
Mechanical power	15 W to 35 W
Speed range	1.0 m/s to 3.0 m/s
Outer diameter	58 mm to 61 mm
Coating	PU, 80 Shore A, black Vulkollan, 80 Shore A, red
Protection class	IP54
Connection technology	Connector
Construction form/motor design	Customer-specific design possible

**Product images:**



## Type code:

		SM	5	D	1	-	1	4	1	-	A	A	-	0032	-	AA	-	C111
<b>Sorter motors</b>		SM																
Sorter motor		SM																
Outer diameter	61 mm		6															
	58 mm		5															
Transfer	Direct			D														
Nominal voltage	48 VDC				3													
	24 VDC				1													
Mechanical power	35 W						3											
	25 W						2											
	15 W						1											
Output speed	3.0 m/s							5										
	2.5 m/s							4										
	2.0 m/s							3										
	1.5 m/s							2										
	1.0 m/s							1										
Feedback system	Sensor-less								1									
Coating	Vulkollan, 80 Shore A, red										B							
	PU, 80 Shore A, black										A							
Protection class	IP54											A						
Clamping length in mm														0032				
Cable and connector	Length 0.46 m, female connector XHP-4																	AB
	Length 0.5 m, Molex Mini-Fit Jr. plug, 4-connector, 2-row																	AA
Customer-specific version																		C111