

# TECHNICAL SPECIFICATION

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**MEVA**  
by Nordic Water

## Monoscreen RSM

### General information

The Meva Monoscreen RSM is a fine screen for water treatment, with high requirements on separation of solid particles. RSM is the only fine screen on the market that can guarantee a slot width down to 0,5 mm on the entire surface, also during operation.

The RSM has an exact slot width during the entire working cycle. A small part of the screening mat is lifted during one cycle in a progressive motion, keeping the screening mat intact through the cycle. It minimizes the rush of water that might occur after one cycle.

The design of the RSM eliminates the risk of blockage caused by sand, stones etc. The RSM does not have to fulfill an entire working cycle. It can be run in very short intervals creating a fully covering screening mat and gives an unsurpassed degree of separation.



Illustration may differ from drawing.

Manufacturing standards	
Screen	EC Machinery Directive 2006/42/EC, EU standards EN ISO 12100 1&2, EN ISO 14121-1

Surface finish	
Surface treatment	Electropolished
Surface treatment RSM 7	Fully pickled
Painted parts standard color	RAL 4002
Painting standard	BSK 07 ISO 12944 C3 A3.03

Dimensions	
Slot widths	0.5-6 mm

Electrical specification	
Voltage	3x400 V
Frequency	50 Hz
Enclosure	IP 55

Construction material	
Main parts	<i>Stainless steel EN 1.4307 or EN 1.4404</i>
Axle bearing	<i>Carbon steel</i>
Bearing for crankshaft	<i>Carbon steel</i>
Bushing, support leg	<i>Nylon</i>
Channel sealing	<i>Armed NBR</i>
Connecting rod bearing	<i>Carbon steel</i>
End blade spacer	<i>Polyoximetylen</i>
Excentric drive rod	<i>Carbon steel</i>
Flexible coupling for RSM 7-8	<i>Aluminum, rubber</i>
Gear box	<i>Cast iron etc.</i>
Grease hose	<i>Plastic</i>
Handle	<i>Thermoplastic</i>
Handle, insert	<i>ABS</i>
Intermediate spacer	<i>Plastic</i>
Junction box	<i>FRP, PC, Polyamide, Polyurethane</i>
Key	<i>Carbon steel.</i>
Lock including clamp	<i>Polyamide, Stainless EN 1.4301</i>
Lower bearings for RSM 7-15	<i>Plastic</i>
Lower bearings for RSM 20-45	<i>Composite</i>
Motor	<i>Aluminum, Cast iron.</i>
Roller for home position	<i>PVC</i>
Seal	<i>NBR Rubber</i>

For further information, see next page.

Options	
Explosion proof	<i>According to ATEX</i>
Color (other than standard)	<i>Painted parts</i>

ATEX options	
ATEX designation zone 1: II 2G Ex h IIB T3 Gb	
ATEX designation zone 2: II 3G Ex h IIB T3 Gc	
<i>ATEX directive 2014/34/EU, Standard EN ISO 800 79-36 &amp; 37</i>	

Motor options	
Anti-condensation heater	<i>Motor option</i>
Thermistor	<i>Motor option</i>
Thermo-contact (Klixon)	<i>Motor option</i>
Weather protection	<i>Motor option</i>

Additional accessories	
Drip plate	<i>Additional accessory</i>
Electric control panel	<i>Additional accessory</i>
Safety switch	<i>Additional accessory</i>
Spray bar	<i>Additional accessory</i>
Support legs	<i>other than standard</i>

Transport and handling	
RSM	Transported on wooden pallet

Documentation	
Machine card	
Operation & maintenance manual	
Dimensional drawing	
Control philosophy	
Further documents are available upon request	

Model	RSM 7	RSM 8	RSM 11	RSM 15	RSM 20
Frame	3 mm	5 mm	3 mm	5 mm	5 mm
Bars	2 mm	3 mm	3 mm	3 mm	3 mm
Gearbox	FL50	FL50	SA47/57	SA57/67/77	SA77/87
Motor	SEW	SEW	SEW	SEW	SEW
Power	0,37 kW	0,37-0,75 kW	0,37-1,1 kW	0,55-1,5 kW	1,5-2,2 kW
Overload sensor	N/A	Telemecanique RM4-JA32Q	Telemecanique RM4-JA32Q	Telemecanique RM4-JA32Q	Telemecanique RM4-JA32Q
Home position limit switch	Telemecanique XS618B1MAL2	Telemecanique XS618B1MAL2	Telemecanique XS618B1MAL2	Telemecanique XS618B1MAL2	Telemecanique XS618B1MAL2
Drawing No.	DD-RSM7	DD-RSM8	DD-RSM11	DD-RSM15	DD-RSM20
Support leg Drawing No.	P1-14332	P1-14332	P1-14332	P1-10327	P1-10189

Model	RSM 26	RSM 31	RSM 35	RSM 38	RSM 45
Frame	5 mm	5 mm	5 mm	5 mm	5 mm
Bars	3 mm	3 mm	3 mm	3 mm	3 mm
Gearbox	SA77/87	SA77/87	SA87	SA87	SA87/KA87
Motor	SEW	SEW	SEW	SEW	SEW
Power	1,5-2,2 kW	1,5-3 kW	2,2-3 kW	2,2-3 kW	3-4 kW
Overload sensor	Emotron ELFi M20	Emotron ELFi M20	Emotron ELFi M20	Emotron ELFi M20	Emotron ELFi M20
Home position limit switch	Telemecanique XS618B1MAL2	Telemecanique XS618B1MAL2	Telemecanique XS618B1MAL2	Telemecanique XS618B1MAL2	Telemecanique XS618B1MAL2
Drawing No.	DD-RSM26	DD-RSM31	DD-RSM35	DD-RSM38	DD-RSM45
Support leg Drawing No.	P1-10189	P1-11254	P1-11254	P1-11254	P1-22685