

TECHNICAL SPECIFICATION

Document ID: Meva SWP technical specification EN

Revision: 17.14

MEVA
by Nordic Water

Screw Wash Press SWP

General information

The Meva Screw wash press SWP is designed to press, wash, dewater and transport screenings or sludge from fine screens. The press consists of two main elements: the machine body and the transport screw.

Meva Screw wash press SWP separates organic particles and reduces the amount of screenings, which is advantageous of environmental as well as economic reasons.

Meva SWP is a compact and cost effective unit, with a simple and functional design. Feeding can, apart from via a fine screen, also be performed via rake screens and other filters or transportations units such as transport screws or conveyors.

The SWP is equipped with a double tray, which makes it very torque resistant and, thereby, enabling heavy operation at high DS-content. The retention time in the press can be prolonged, by mounting a counter pressure system CPS following the SWP. This will lead to a better wash and a higher DS-content.

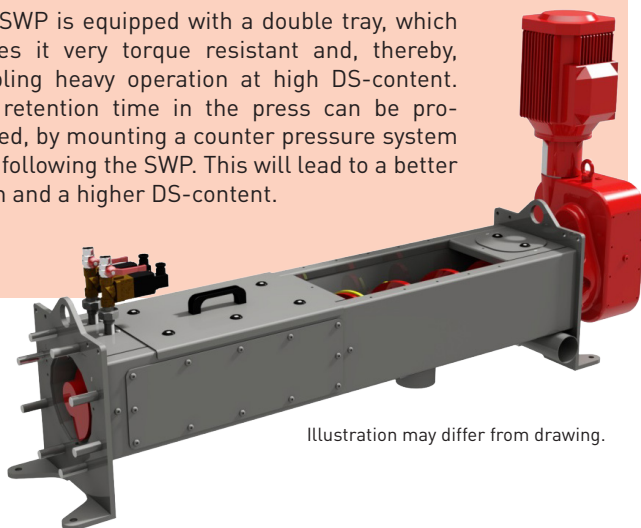


Illustration may differ from drawing.

Manufacturing standards

Screw wash press	EC Machinery Directive 2006/42/EC, EU standards EN ISO 12100 1&2, EN ISO 14121-1
------------------	--

Surface finish

Surface treatment	Electropolished
Painted parts standard color	RAL 4002
Painting standard	BSK 07 ISO 12944 C3 A3.03

Electrical specification

Voltage	3x400 V
Frequency	50 Hz
Enclosure	IP 55

Construction material

Main material	<i>Stainless steel EN 1.4307 or EN 1.4404</i>
Gear box and motor	<i>Cast iron, aluminum, Carbon steel EN S355 J2 etc.</i>
Axial bearing	<i>Hardened steel, Nylon</i>
Ball valve	<i>Brass</i>
Bearing housing	<i>Carbon steel EN S355 J2</i>
Chain	<i>Carbon steel</i>
Gasket cover	<i>EPDM</i>
Handle	<i>Thermoplastic</i>
Hoses	<i>Silicone</i>
Key	<i>Carbon Steel EN S355 J2</i>
O-rings	<i>NBR rubber</i>
Rubber spacer (only SWP-40)	<i>NR and BR rubber</i>
Scraper strip	<i>Polyethylene</i>
Shaft	<i>Carbon steel EN S355 J2</i>
Solenoid valves	<i>Brass</i>
Transport screw	<i>Carbon steel EN S355 J2</i>
Trough scraper	<i>NR and BR rubber</i>
Wear strips	<i>Hardox</i>

For further information, see next page.

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

Material options	
Ball valve	<i>Material</i>
Chain	<i>Material</i>
Solenoid valve	<i>Material</i>
Transport screw	<i>Material EN 1.4307 / EN 1.4404</i>

Additional accessories	
Control panel	
Inlet hopper	
Inlet hopper overflow sensor	
Inlet hopper safety switch (magnetic)	
Rotation sensor	<i>Milltronic Millipulse 600</i>
Trough scraper brush	

Gear options				
Model	SWP 15	SWP 20	SWP 25	SWP 30
Gearbox	Swedrive F240	SEW FA77	SEW FA87	SEW FA97
Motor	Seperate motor	SEW	SEW	SEW
Power	2.2 kW	2.5 kW	4 kW	5.5 kW

Model	SWP 15	SWP 20	SWP 25	SWP 30	SWP 40
Gearbox	Nord SK3282	Swedrive F240	Swedrive F240	Swedrive F240	Nord SK7382
Motor	Nord	SEW	Brook Compton	SEW	Nord
Power	1,1 - 2,2 kW	2,2 - 3 kW	4 kW	4 - 5,5 kW	7,5 kW
Drawing No.	DD-SWP15-SK3282	DD-SWP20-F240	DD-SWP25-F240	DD-SWP30-F240	DD-SWP40-SK7382

An SWP 30 connected to a CPS will per standard be equipped with a FA97 gear.

Transport and handling	
SWP	Transported on wooden pallet
Accessories	Transported in a cardboard box
Other packaging options may be available upon request.	

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

Accessories	
Documentation	