

TECHNICAL SPECIFICATION

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Revision: 17.14

MEVA
by Nordic Water

Counter Pressure Screw CPS

General information

The combination of Meva CPS and SWP results in a product optimal for incineration. The result is a product with a DS content of 50-60%, shredded screenings and a superior washing effect. It gives 50% less screenings compared to a washpress.

Meva CPS is connected to the SWP by a pipe bend. The CPS creates a counter pressure during the working cycle of the SWP, which is continuously adjusted and maintained to maximize the results of the SWP regardless of the circumstances.

Pressure is continuously adjusted and maintained resulting in a maximum DS content.

The high counter pressure ensures a long retention time in the press zone, providing a superior washing effect.

At the discharge of the CPS the material is shredded, making it optimal for incineration. The CPS also works as a conveyor, enabling long vertical conveying distances.



Illustration may differ from drawing.

Manufacturing standards	
CPS	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 parts	Stainless steel EN 1.4307 or EN 1.4404
Axial bearing	Nylon
Gasket	Aramid fibre
Gearbox and motor	Cast iron, aluminum etc.
Inlet bend flange	Silumin
Key	Key steel
Radial bearing / Wear strips	Hardox
Transport screw	Carbon Steel EN S355 J2

Options	
Explosion proof	<i>According to ATEX</i>
Color (other than standard)	<i>Painted parts</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	
Inlet bend flange	<i>Material EN 1.4307 or EN 1.4404</i>

Transport and handling	
CPS	Transported on wooden pallet
Accessories	Transported on wooden pallet
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	
Support legs	
Inlet elbow	

Model	CPS 15	CPS 20	CPS 25	CPS 30	CPS 35	CPS 40
Gearbox	SEW FA 67	SEW FA 77	SEW FA 87	SEW FA 87	SEW FA 97	SEW FA 97
Motor	SEW	SEW	SEW	SEW	SEW	SEW
Power	1,1 kW	2,2 kW	3 kW	4 kW	5,5 kW	5,5 kW
Start trigger	Emotron ELFi M20	Emotron ELFi M20	Emotron ELFi M20	Emotron ELFi M20	Emotron ELFi M20	Emotron ELFi M20
Length	1000-4000 mm	1000-6000 mm	1000-6000 mm	1000-6000 mm	1000-4000 mm	1000-4000 mm
Drawing No.	DD-CPS15	DD-CPS20	DD-CPS25	DD-CPS30	DD-CPS35	DD-CPS40