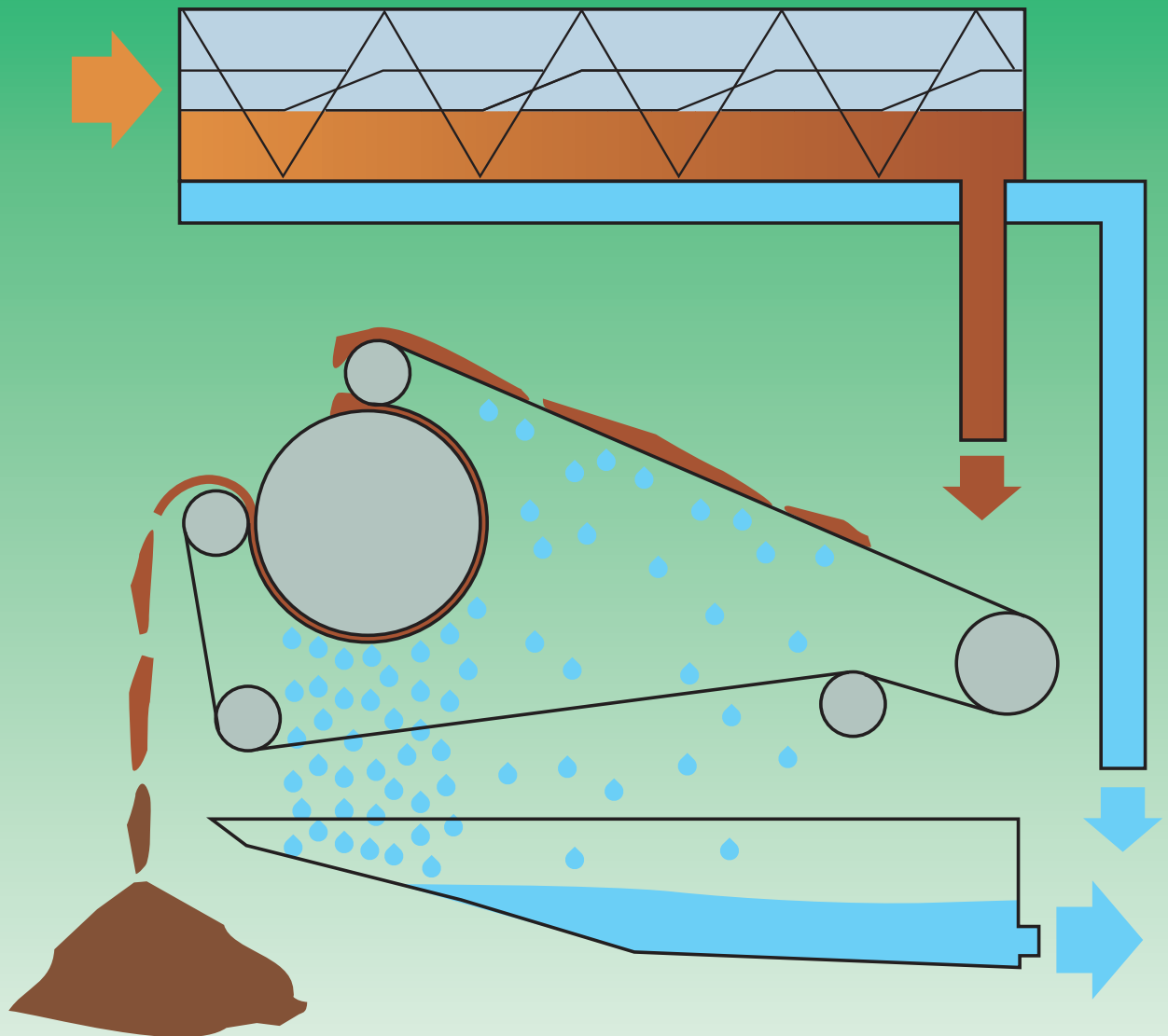


MONOBELT®

Belt filter press



SLUDGE
Technology

Belt filter press for sludge dewatering

The **MONOBELT**® belt filter press is an entirely new patented design.

It comprises two units, the pre-thickener and the sludge press. The pre-thickener performs the initial solid/liquid separation stage, taking sludge solids concentration from 0,5-3% up to 5-15%.

The sludge press takes pre-thickened sludge and spreads it uniformly onto the main filter cloth via a series of baffles. Final dewatering occurs as the sludge cake passes between the perforated cylinder, which is covered with secondary cloth, and the main cloth.

Discharged sludge cake can reach dry solids contents of 18-30%.

TEKNOFANGHI's extensive experience in sludge handling has allowed the Company to produce this innovative belt press which uses an endless belt. Results from existing installations confirm that, as well as producing dryer cake than traditional equipment using the same width of filter cloth, a higher sludge throughput can also be obtained. The use of the endless cloth together with the machine's unique design, allows

for rapid and simple maintenance and associated cost reductions.

The alignment and tension of the belt are controlled from the main control panel using pneumatic actuators.

Sensors monitor the operation of the machine and halt operation in the event of malfunction.

The control system provides automatic operation of the sludge pump and chemical dosing equipment.

In keeping with our high standards, the machines are manufactured in 304 stainless steel.

Applications

- municipal sewage plants
- industrial effluent plants
- paper industry
- food industry
- slaughter houses
- manure, agriculture
- chemical industry
- recycling of plastics
- stone industry
- ceramic/glas
- recultivation of lakes

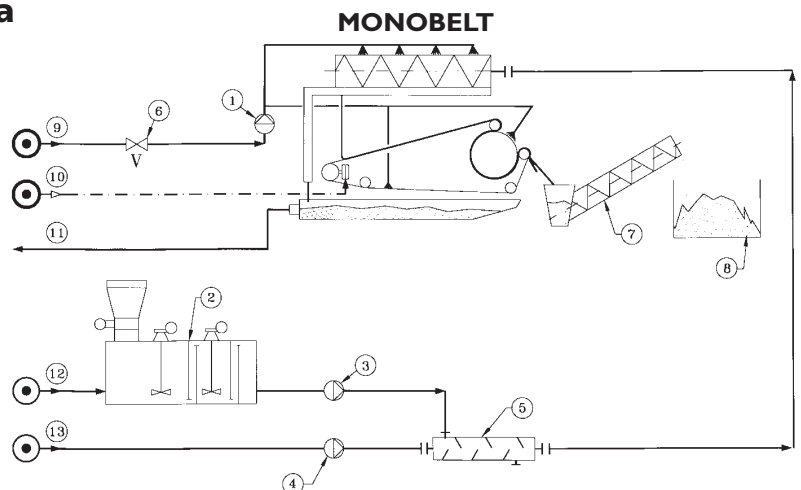
- recultivation of soil
- steel industry
- potato washing plants
- drinking water plants
- many others

Advantage

- combination prethickener and belt press
- unique prethickener
- high throughput rates
- unique construction
- endless belts
- endless belt with apicial spliced seam (with longer life)
- higher belt tension due to seam
- long pressing time
- high DS content in filtercake
- continuous operation
- compact construction
- easy operation
- stainless steel AISI 304
- suitable dosing units in AISI 304
- completely pre-assembled
- CE-conformity
- dimensioned for transport in container

Installation and technical data

- 1 Washing pump (included)
- 2 Polyelectrolyte unit
- 3 Polyelectrolyte pump
- 4 Sludge pump
- 5 Static mixer
- 6 Washing water interception valve
- 7 Dewatered sludge screw conveyor
- 8 Dewatered sludge box
- 9 Washing water
- 10 Compressed air
- 11 Filtrate to the head of the treatment plant
- 12 Clean water
- 13 Sludge



MONOBELT TYPE	NP 08 C	NP 12 C	NP 15 C
Belt width	800 mm	1.200 mm	1.500 mm
Flow max m ³ /h*	2 - 8	3 - 12	5 - 20
Belt press (kW)	0,7	0,95	1,3
Wash pump (kW)	2,2	2,2	3
Weight (Kg)	1.100	1.450	2.200

* Max flow depends on the type of sludge and concentration of D.S.

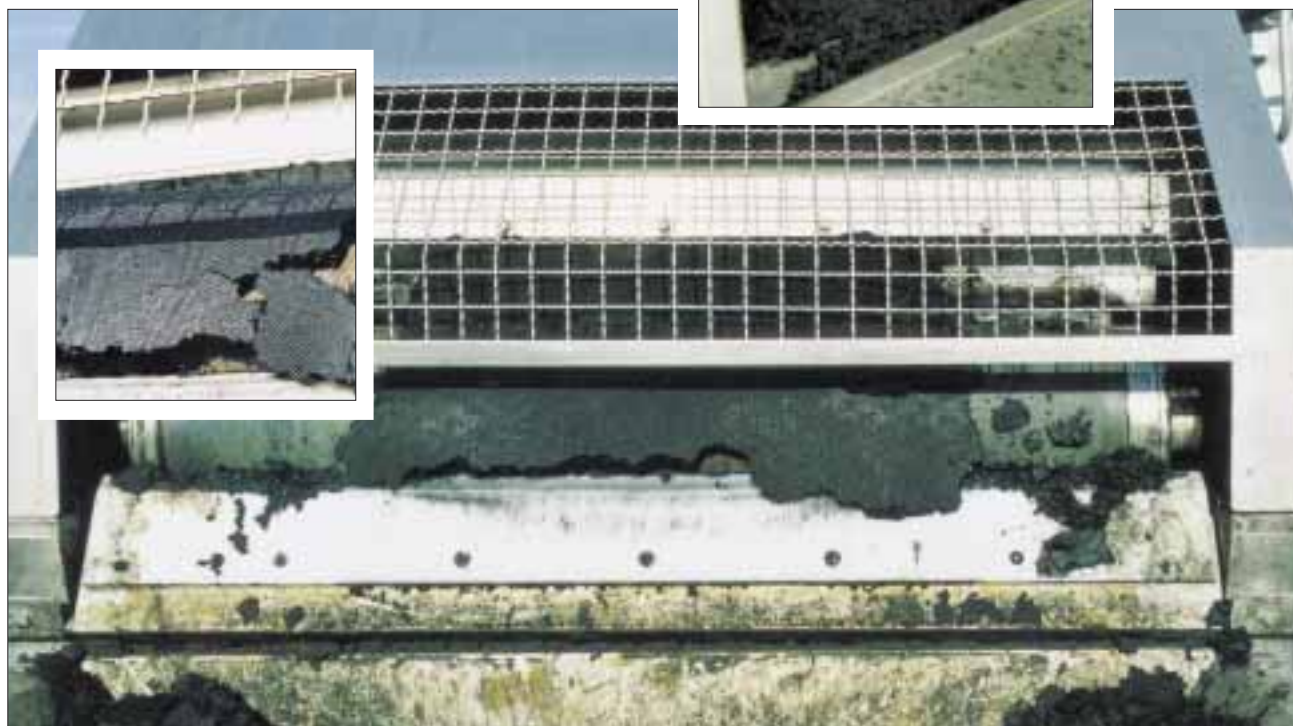
MONOBELT TYPE NP 08 C



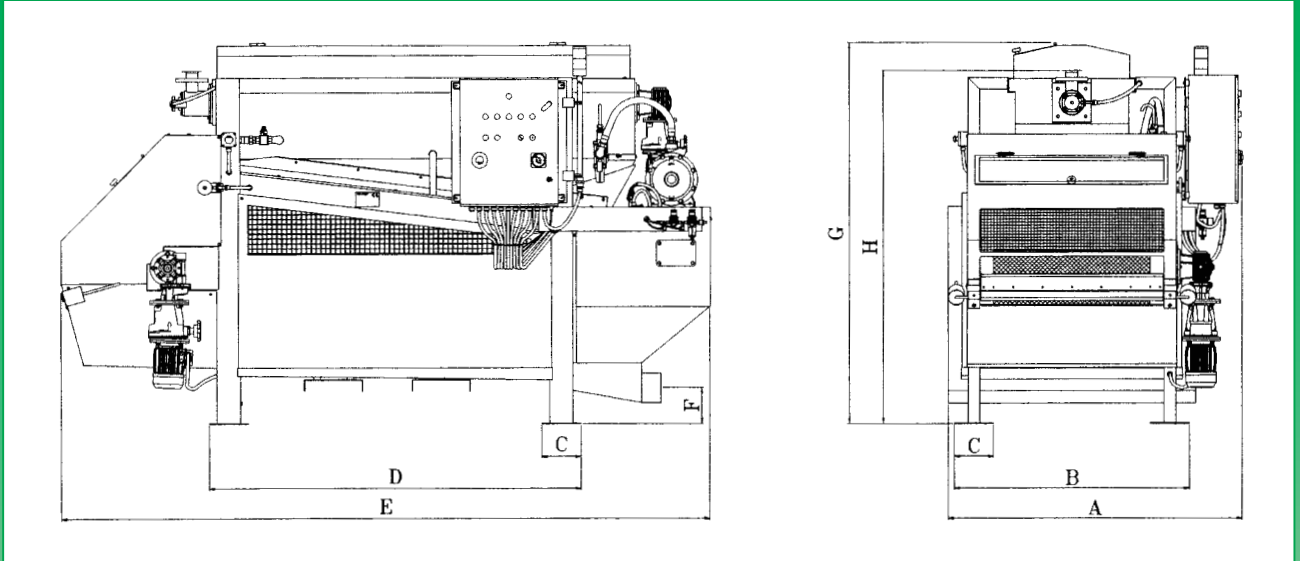
Sludge leaving the pre-thickener

MONOBELT TYPE NP 08 C

Treating biological sludge (textile industry)



Technical drawing and dimensions



MONOBELT TYPE	A	B	C	D	E	F	G	H
NP 08 C	1500	1200	200	1900	3316	180	1930	1800
NP 12 C	1900	1600	200	1900	3316	180	1930	1800
NP 15 C	2200	1900	200	1900	3316	180	1930	1800

Dimensions are indicative only and subject to change without notice.

* All dimensions are in mm



opigraphic (March 1999)

Our equipments are made according to CE European standard
All equipments are manufactured by Teknofanghi



Equipment for the Treatment of Sludge

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