

## Multi-Cyclone-Unit 24x4

### Description

The DSE Multi-Cyclone-Unit 24x4 separation plant is designed to dewater heterogeneous solid-liquid mixtures. Therefore the machine is equipped with 24 hydrocyclones (4" each) and 4 panel screens.

The DSE Multi-Cyclone-Unit is an optimal extension for DSE TSP300 Separation plants.



Vorderansicht Multizykloneinheit mit 24 St. 4"-Zyklonen

### Structure

The Multi-Cyclone-Unit includes supporting frame, piping, manifold, overflow header and fittings. Furthermore a 4PSM screening machine, pump package and an electrical cabinet are installed at the multi-cyclone-unit.



Seitenansicht Multizykloneinheit mit 24 St. 4"-Zyklonen

The vibration screening machines 4PSM with fully inclination adjustment capability and feed box is equipped with 4 panel screens incl. screen equipment.

The single-deck vibration screening machine can easily and flexibly be equipped with a wide range of different panel screens made of steel or polyurethane which are available from 4mm mesh width down to 45µm.



vibration screening machine 4PSM

The Multi-Cyclone-Unit is fed by a heavy-duty centrifugal feed pump package, which includes one (1) heavy-duty feed pump type Warman 200-200 DMU, one (1) coupling, one (1) motor, (1) baseplate and one (1) electrical cabinet .

**Transport dimensions:**

**Vibration screening machine 4PSM**

Length	3 300 mm
Width	1 880 mm
Height	1 600 mm

**Pump package**

Length	2 390 mm
Width	1 020 mm
Height	1 900 mm

**Vibration screening machine and cyclone-unit**

Length	3 200 mm
Width	2 400 mm
Height	2 720 mm
Height	5 700 mm (installed)

Total weight (ca.)	5 100 kg
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**Technical specification:**

Nominal fluid capacity (max.) <sup>1</sup>	260	m <sup>3</sup> /h
Total power supply	78	kW

**Vibration screening machine 4PSM**

Number installed	1	no
Number of decks (each)	1	no
Deck angle adjustment	-5° to +3°	
Total screen area	3.2	m <sup>2</sup>
Screen panels per shaker	4	no

**Vibration motors**

Rated power (each with)	2 x 3.6	kW
Voltage	400V / 50Hz / 3phase	

**Multi-cyclone-unit 24x4**

Number installed	24	no
Diameter/cone size	100	mm (4")
Cut point d <sub>50</sub>	25	µm

**Centrifugal feed pump**

Number installed	1	no
Rated power <sup>2</sup>	75	kW
Voltage	400V / 50Hz / 3phase	

<sup>1</sup> The capacity is subject to the slurry properties, solids loading, grain size distribution, screen selection, and properties along with operating conditions, and might be differ than specified.

<sup>2</sup> subject to change

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