

# Decanter centrifuge BD-90/75

*Separation of mineral solids  
from slurries and sludges*



*Decanter centrifuge BD-90 in  
open 20' container frame*

## **Range of Application / Operating Range**

*The solid-wall decanter centrifuge has been developed especially for the separation of fine and very fine solids from slurries and sludges.*

### **Possible operating ranges**

- Tunnel drilling with hydro shield
- Macro- and Microtunneling
- Deep Drilling
- Slurry supported pile drilling, diaphragm walls etc.
- Sand and gravel treatment
- Mining Industry
- Dredging

### **Decisive advantages**

- Enormous solid discharge
- Outstanding separation results
- High reliability
- Simple operation
- Little wear
- Outstanding economic efficiency

## The outstanding technology

- Parts in contact with product made of carbon steels for long service life.
- Energy-optimised rotor geometry for low energy consumption.
- External drive for optimal access during maintenance and service.
- Feed pipe with extra large cross-section for high flow.
- Feed point on the screw conveyor designed for highest possible separation performance.
- Housing design with large discharge ducts for highest possible through-puts.
- Special wear protection system with replaceable carbide inserts to minimise the abrasion on the rotor assembly.
- Drum-independent screw conveyor drive (backdrive) with high safety factors for absorbing high torque spikes.
- Rotor design with flat cone, large discharge openings and special screw conveyor geometry for large mineral product loads.
- Torque-dependent regulation with overload protection to prevent damage and downtimes due to overloading.
- Fully automatic, torque-dependent differential speed control for straightforward adjustment to changing flushing characteristics and the resulting separation requirements.

## Technical Specifications BD-90/75

Dimension approx. L x W x H	mm	6,058 x 2,438 x 2,591
Weight approx.	kg	12,500
Hyd. charging volume, max.	m <sup>3</sup> /h	90
Solids discharge, max.	t/h	18
Drive power, drum	kW	75
Drive power, screw conveyor	kW	30
Drum speed, standard	1/min	2,000
Drum speed, max. (optional)	1/min	2,400
Differential speed, screw conveyor	1/min	1 to 60
Max. permissible slurry density	kg/dm <sup>3</sup>	1.5
Drum inside diameter	mm	600
Centrifugal force, standard	g figure	1,350
Centrifugal force, max. (optional)	g figure	1,930
Dry matter content load, max.	%	70
Connection voltages / frequencies, standard (CE)	V	400
	Hz	50
Alternative el. power supply (CE)	V	460
	Hz	60
Control system		SP

### Extra equipment (options):

- Binding agent treatment
- Valve plate
- Discharge screw conveyors
- Feed pumps
- Noise protection

All dimension and weight data are dependent on the specific version and equipment of the pump. Therefore, the stated dimensions and weights are only typical values and are non-binding until all technical details have been definitely agreed upon.

Technical specifications are subject to change without prior notice and incurring responsibility for machines previously sold. The plants shown may have optional equipment. Technical data do not consider operational efficiency. Error and misprints reserved.