

MD/HD 44 DECANter CENTRIFUGE

TEMS
INTERNATIONAL

The MD44/HD44 decanter represents a new concept in decanter technology, featuring in the same decanter optimum capability for both dewatering and clarification at high capacity.

The MD44/HD44 is a high-speed and long bowl decanter with a length/diameter ratio of 4:1, allowing it to work with a deep pool and providing a high capacity with low operating costs. The standard MD44/HD44 is supplied in stainless, acid proof duplex steel and in two-phase or three-phase versions.

The HD44 features the patented Hyflex bearing principle making it possible to overcome speed limitations imposed by rigidly fixed main bearings. The Hyflex principle supports one end of the rotor in a suspended arrangement while the opposite end is fixed in a support which can accommodate small angular movements. This system effectively lets the rotor find its own centre of rotation. The exceptionally low vibration level ensures a long-life for the bearings and a low noise level. The base frame is supported on rubber vibration isolators.

The main cover, drive unit cover and solids/liquid outlets are supplied in stainless steel as standard, while the hinged main cover increases accessibility to the rotor.

As standard, the flight tips of the scroll are wear protected by a frame sprayed replaceable tungsten carbide hard facing.

The general design of the decanter is optimised with regard to long service life, minimum maintenance and easy access to all serviceable parts.

Applications

The MD44/HD44 can be supplied in a number of different versions, all designed to meet a wide range of requirements with regards to wastewater purification and the chemical and processing industries.

- Dewatering of sludge from industrial or municipal wastewater treatment
- Dewatering of flotation sludge
- Purification of oil
- Separation of oil/water/solids emulsion (vegetable oil, animal fat, waste oil)
- Thickening of sludge
- Dewatering of sludge from flue gas cleaning, paint residue, wastewater from slaughterhouses and food processing industries

