

# CD 250 Centrifuge



The CD 250 centrifuge is the smallest centrifuge in the fleet characterized by an easy control system, a rugged design and a low installation/removal time. The unit recovers valuable fluids while reducing the total volume of waste.

In spite of the compact design, it delivers a high clarification capacity thanks to the high G-Force created.

To minimize the footprint and weight the unit is equipped with a single 20 Hp motor. An innovative system of belts and pulleys drives the sun-wheel shaft and provides the necessary torque therefore eliminating the need for a second motor. As the unit only requires a single motor the power consumption is kept to a minimum.

## Features

### Performance

- Smallest footprint
- Lowest weight
- Fixed bowl and differential speed
- High bowl speed
- Easy control system
- Split pillow blocks
- Hard facing on flights
- Adjustable pond dams and variable pump speed
- Stainless steel rotating assembly
- Perfectly balanced rotating assembly

### Safety

- Vibration sensor
- Torque limiter
- Micro switches on vessel and guards

## Benefits

### Performance

- Portable and rugged design
- Minimal installation and removal time
- Bowl speed (4,000 rpm) and differential (26 rpm) are set to maximize LGS removal in HDD/ Mining projects
- High bowl speed assures a high G-Force, solids removal efficiency percentage and finest cut points
- Minimized equipment operator skill requirements
- Split pillow blocks for increased protection against contamination, extended material life and easier maintenance
- High flights wear resistance thereby reducing maintenance requirements
- Adjustable pond dams and variable pump speed allow for adjustment of the retention time and subsequent efficiency
- Highly corrosion resistant
- Minimal vibration and noise emissions

# Technical specifications for the CD 250 Centrifuge

## CD 250 Fixed Drive

All dimensions are expressed in inches (millimeters).

### Specifications

#### Performance

- Hydraulic Capacity: 83 GPM (314 LPM)
- Operating Speed: 4,000 rpm
- G-Force: 2,191 G
- Sigma Value: 13,326 ft<sup>2</sup> (1,238 m<sup>2</sup>)
- Solids Discharge: 11 GPM (2.5 m<sup>3</sup>/h)

#### Rotating Assembly

- Bowl Diameter: 10.0 in. (253 mm)
- Bowl Length: 37.1 in. (941.5 mm)
- Pond Depth: 0.95, 1.14, 1.44 in. (24, 29, 36.5 mm)
- Scroll Type: Single Lead Radial Flow
- Scroll Pitch: 3.94 in. (100 mm)
- Main Bearings: Grease Lubricated
- Internal Bearings: Grease Lubricated
- Feed Tube: Slotted

#### Rotating Assembly Material

- Bowl: Stainless Steel Duplex A890
- Scroll: Stainless Steel AISI 304
- Scroll Flights: Castolin Eutalloy SF hard facing
- Discharge Bushings: Tungsten Carbide

#### Gearbox

- Type: Planetary [Model; ZG 2400/10]
- Gear Ratio: 60:1
- Torque, maximum: 1,475 ft-lb (2,000 Nm)
- Differential Range: 26 rpm
- Weight: 128 lbs (58 Kg)

#### Nozzle Schedule

- Liquid Discharge: 3.9 x 3.2 in. (100 x 80 mm)
- Solids Discharge: 16.3 x 10.6 in. (413 x 268 mm)
- Feed Tube: 1 in. [WN RF ANSI 150 lb]

#### Fixed Drive Type

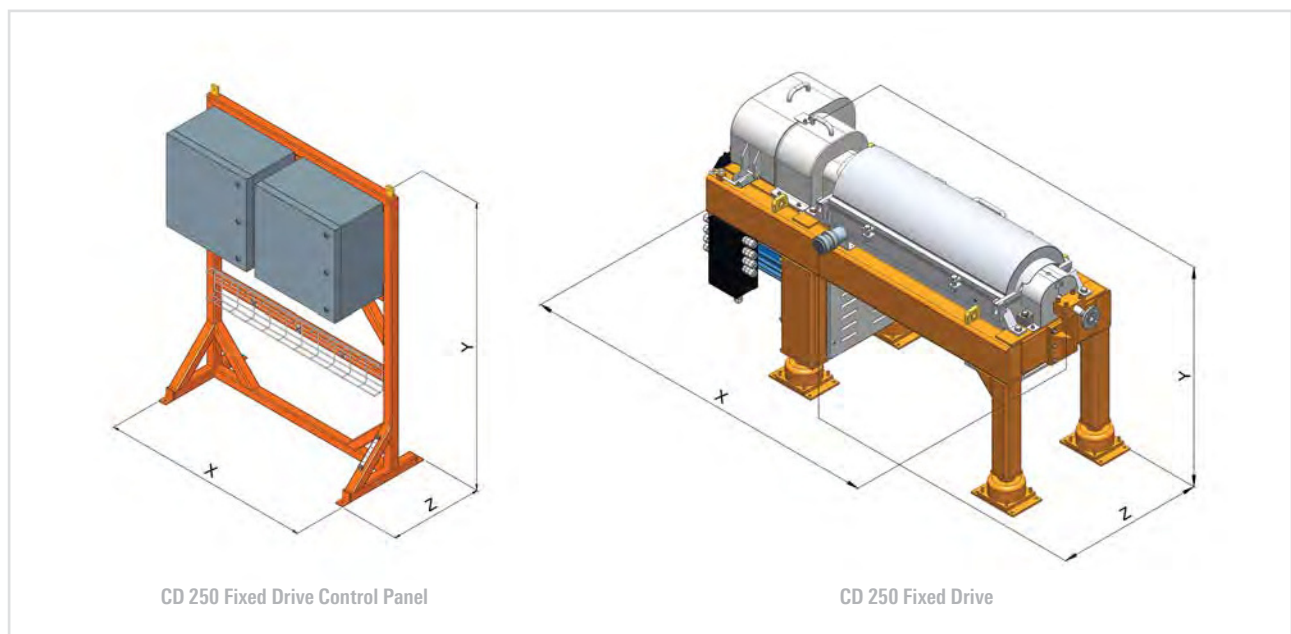
- Power: 400/460 V - 50/60 Hz, 3 Phase
- Main Drive Motor: 20 Hp (15 kW)

#### Certification

- CD 250 Fixed Drive:
  - CE Marked Only (Standard)
  - CE ATEX, Zone 1 (Optional)

### Dimensions and Weights

	X	Y	Z	Weight
■ CD 250 Fixed Drive:	81.8 in. (2,077 mm)	46.7 in. (1,187 mm)	31.5 in. (799 mm)	2,646 lbs (1,200 Kg)
■ CD 250 Fixed Drive Control Panel:	45.3 in. (1,150 mm)	61.0 in. (1,550 mm)	20.1 in. (510 mm)	551 lbs (250 Kg)



CD 250 Fixed Drive Control Panel

CD 250 Fixed Drive