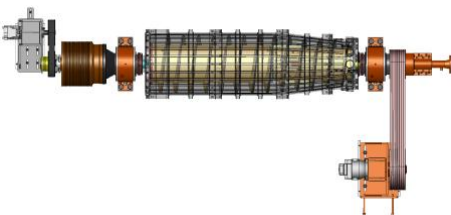
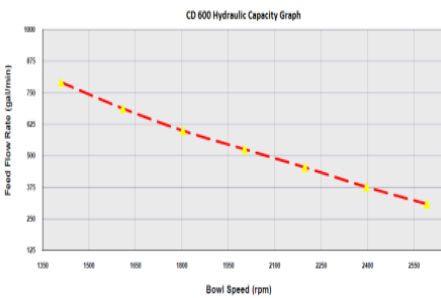
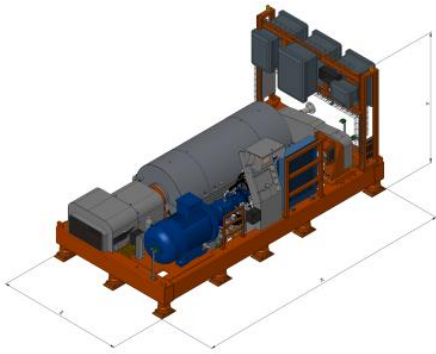


Equipment Data Sheet: CD 600 FHD (ATEX)

The CD 600 FHD is a Big Bowl (Fully Variable) Centrifuge which is specially engineered for high volume drilling, achievable of a high G Force at a low rpm



Dimensions

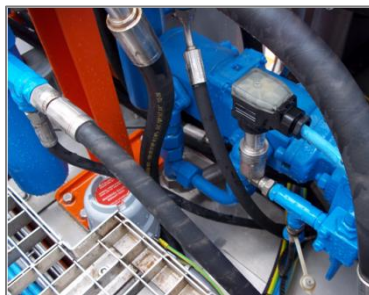
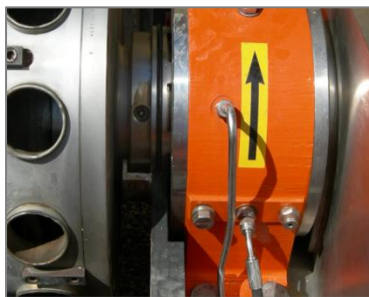
Overall Dimensions & Weight	
Weight	9,000 kg (19,842 lbs)
Length X	4,586 mm (180.55 in.)
Height Y	2,095 mm (82.48 in.)
Width Z	2,210 mm (87.01 in.)
Centre of Gravity Dimensions	
CG XG	2,250 mm (88.58 in.)
CG YG	659 mm (25.95 in.)
CG ZG	1,122 mm (44.17 in.)

Performances

G-Force & Feed Rate	
Max Design Speed	2,800 rpm
Max Operating Speed	2,600 rpm
Max G-Force	2,229 G @ 2,600 rpm
Max Sigma Value	6,574 m ² (70,762 ft ²)
Hydraulic Capacity [TUV Certified]	179.7 m ³ /h (791 GPM)
Max Solids Discharge Rate	28.5 m ³ /h (125 GPM)

Physical Data

Rotating Assembly	
Bowl Diameter (Internal)	598 mm (23.54 in.)
Bowl Length (Internal)	2,020 mm (79.53 in.)
Pond Setting	71 (R228) – 61 (R238) – 51 (R248) mm (2.80 – 2.40 – 2.00 in.)
Bowl Material	Stainless Steel Duplex A890
Bushings Protection	Tungsten Carbide Solids Discharge Nozzle
Scroll Type	Single Lead – Radial Flow
Scroll Pitch	150 mm (5.91 in.)
Scroll Angle	6°
Scroll Material	Stainless Steel AISI 304
Flights Protection	Scroll Fitted with Tungsten Carbide Tiles
Pillow Block Bearings	Oil Forced Lubricated - Automatic
Internal Bearings	Grease Lubricated - Manual
Feed Tube	Open Ended – Axial Flow



Physical Data

Gearbox	
Type	Planetary Gearbox, Ratio 80:1
Max Output Torque	11,000 Nm (8,113 ft·lb)
Operating Differential	1 – 40 rpm
Drive & Operating System	
Voltage	400/460 Volt, 50/60 Hz, 3 Phase - Standard [690 Volt, 60 Hz, 3 Phase – Optional]
Drive Motor	132 kW (177 HP)
Control System	PLC (Programmable Logic Controller)
Drive System	Independent Fully Variable Main & Back Hydraulic Motors; Fully Variable Feed Rate
Safety Features	
Safety Devices	Torque Limiter To Protect Sun-Wheel Shaft Micro-Switch On Vessel & Guards To Avoid Start-Up While Servicing.
Display (Settings)	Bowl Speed, Differential Value, Feed Rate, Current Adsorbed, Vibration, Hydraulic Oil Temperature & Pressures, Bearings & Feed Pump Stator Temperatures.
Automatic Safety System	Continuous Monitoring & Self Shutdown on All Critical Parameters, Automatic Control to Avoid Pack-off & Automatic Unplugging Procedure.
Certification	
Certification	CE ATEX, Zone 1
Operating Temperature	0 +40°C (+32 +104 °F)
Storage Temperature	-20 +40°C (-4 +104 °F)
Process Fluid Temperature	Drilling Fluid: < 85°C (185°F)

Nozzle Schedule

Connection	
Feed Pipe	2-1/2" ANSI B 16.5 Welding Neck
Liquid Discharge	3 x Custom Design Flanges Standard Supply 2 x 8 in. + 1 Blind Flange
Solids Discharge	1,020 x 474 mm (40.16 x 18.66 in.)

