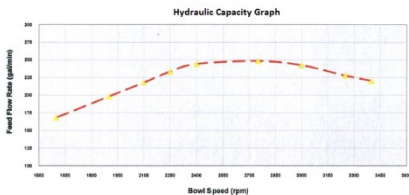
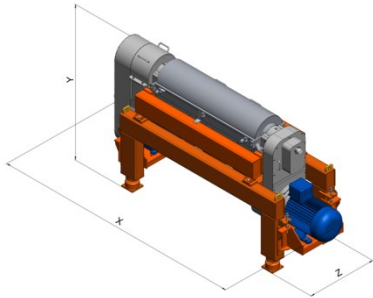


Equipment Data Sheet: 518 HV SL VFD (C_US)

Slim Line version of the 518 High Volume, Variable Frequency Drive Centrifuge, characterized by the compact foot-print and the remote control system



Dimensions

Overall Dimensions & Weight

Weight	2,656 kg (5,856 lbs)
Length X	3,371 mm (132.70 in.)
Height Y	1,707 mm (67.20 in.)
Width Z	1,000 mm (39.37 in.)

Performances

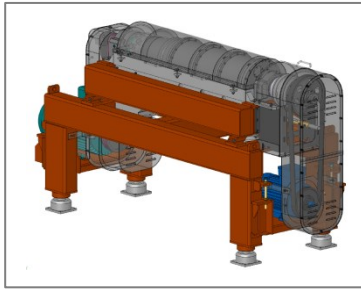
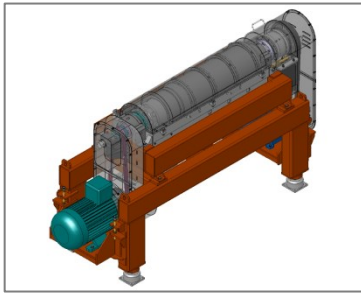
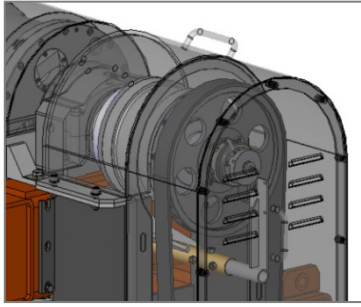
G-Force & Feed Rate

Max Operating Speed	3,200 rpm
Max G-Force	1,975 G @ 3,200 rpm
Max Sigma Value	2,260 m ² (24,326 ft ²) @ 3,200 rpm
Hydraulic Capacity [TUV Certified]	56.3 m ³ /h (248 GPM)
Max Solids Discharge Rate	6.1 m ³ /h (27 GPM)

Physical Data

Rotating Assembly

Bowl Diameter (Internal)	353 mm (14 in.)
Bowl Length (Internal)	1,461 mm (58 in.)
Pond Setting	64.5 (R112) – 61.5 (R115) – 58.5 (R118) mm (2.54 – 2.42 – 2.30 in.)
Bowl Material	Stainless Steel Duplex A890 (4A)
Bushings Protection	Tungsten Carbide Solids Discharge Nozzle
Scroll Type	Single Lead – Quasi Axial Flow
Scroll Pitch	109.5 mm (4.31 in.)
Scroll Angle	8.5°
Scroll Material	Stainless Steel Duplex A890 (4A) - AISI 304
Flights Protection	Scroll Fitted with Tungsten Carbide Tiles
Pillow Block Bearings	Grease Lubricated - Manual
Internal Bearings	Grease Lubricated - Manual
Feed Tube	Open Ended (Axial Outlet Flow)



Physical Data

Gearbox	
Type	Planetary Gearbox, Ratio 57:1
Max Output Torque	3,432 Nm (2,531 ft·lb)
Operating Differential	1 - 55 rpm
Drive & Operating System	
Voltage	460V/60Hz, 3 Phase
Main Drive Motor	37 kW (50 HP)
Back Drive Motor	11 kW (15 HP)
Control System	PLC (Programmable Logic Controller)
Drive System	VFD (Variable Frequency Drive)
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, Bearings Temperatures.
Automatic Safety System	Continuous Monitoring & Self Shutdown on All Critical Parameters, Automatic Control to Avoid Pack-off & Automatic Unplugging Procedure.
Certification	
Certification	Class I, Division I Hazardous Areas for USA & Canada
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 in. NPT (Male Connection)
Liquid Discharge	8 in. Victaulic
Solids Discharge	530 x 350 mm (20.87 x 13.78 in.)

