



DE-6400™ CENTRIFUGE

DE-6400™ VFD

The DE-6400 VFD™ (Variable Frequency Drive) centrifuge offers a robust mechanical design coupled with advanced control technology, enabling it to provide consistent and effective solids control in a wide range of drilling fluid types and drilling conditions. The stainless steel bowl and conveyor with hardened and replaceable wear parts reduce the total ownership cost and maintenance downtime. With a maximum of 3310 G's at 3600 RPM bowl speed the DE-6400 separates fine solids from drilling fluids, improving drilling fluid rheology and thus drilling performance. The DE-6400 features a 60 HP conveyor drive motor with 88,507 in-lbs gearbox torque, allowing it to maintain high feed rates while processing drilling fluids with high solids content and high mud weights.

With an 18" diameter bowl capable of processing high volumetric flow rates and removing large quantities of solids, the DE-6400 has the capacity needed for effective solids control on deep wells with high circulating rates and fast rates of penetration. Automatic load sensing and feed pump control dynamically adjusts the pump rate to maintain bowl or conveyor torque set point, enabling automated processing optimization and preventing rotating assembly overload. The DE-6400 is available with remote monitor and control capability, allowing the operator to be located outside of hazardous working environments and enabling offsite technicians to perform process optimization, quality control, and troubleshooting.

FEATURES & BENEFITS

Bowl

- High volumetric flow rates provide processing capacity for the most demanding applications
- Driven by a 150 HP motor, the bowl attains 3310 G's at 3600 RPM to separate fine solids at high feed rates
- High speed and high capacity enable maximum solids removal efficiency and finest cut points

Control System

- Control cabinet is separate from the centrifuge for flexibility during installation
- Non-hazardous location control panel available
- Variable frequency drive control for ultimate operational flexibility and performance optimization
- Load sensing and feed pump control automatically adjusts feed rate for optimal processing efficiency

Conveyor and Gearbox

- Axial and radial combination conveyor increases throughput and reduces fluid turbulence at liquid end of bowl for increased solids settling
- With 88,507 in-lbs maximum torque and 60 HP motor, the conveyor handles high solids volume without overloading or packing off



DE-6400 Control Cabinet

DE-6400 SPECIFICATIONS

DE-6400	
CENTRIFUGE	
Type:	Decanter (continuous flow)
Bowl Inside Diameter:	18" (457 mm)
Bowl Effective Length:	64" (1626 mm)
High G Maximum:	3310 G's
Bowl Speed Range:	up to 3600 RPM
Conveyor Differential Speed Range:	1-90 RPM
CONVEYOR	
Type:	Axial/Radial Flow
Lead Direction:	Left Hand
Movement Related to Bowl:	Lagging
GEARBOX	
Type:	Two Stage - Planetary
Ratio:	50.3:1
Torque Maximum:	88,507 in-lb (10,000 Nm)
ELECTRICAL	
Bowl Drive:	150 HP (112 KW) Motor and VFD
Conveyor Drive:	60 HP (45 KW) Motor and VFD
Pump Drive:	30 HP (22 KW) VFD
Control System:	Intuitive 7" color operator interface with PLC control
OPTIONS	
Electrical Configurations:	380/50/3, 460/60/3, 575/60/3, 690/60/3 VAC Input
Electrical Cabinet:	NEMA 3R/IP54 (non-explosion proof) rating NEC Class I, Division I, Groups C&D (explosion proof) rating



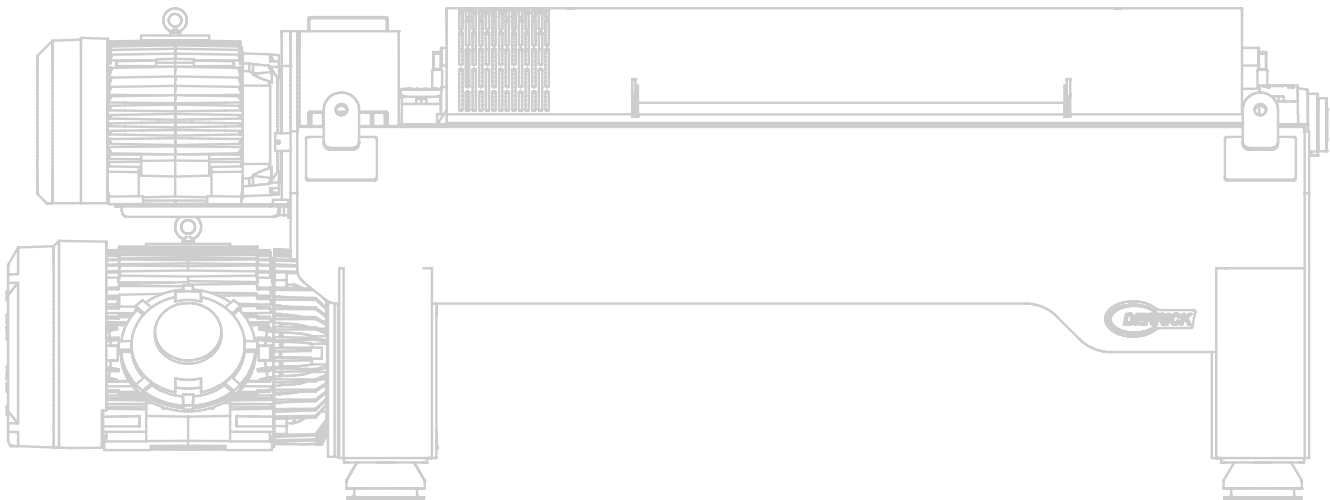
DE-6400™ with cover open

WEIGHTS & DIMENSIONS

EQUIPMENT		DIMENSIONS			
Model	Options	Width in (mm)	Length in (mm)	Height in (mm)	Weight lbs (kg)
DE-6400 VFD (Variable Frequency Drive)	Centrifuge	46-11/16 (1186)	149-3/8 (3794)	77-5/16 (1964) [†]	10550 (4785)
	Class I Div. 1 Control Panel	37-9/16 (954)	77-1/8 (1959)	67-1/4 (1708)	2500 (1134)

† Centrifuge Bowl Cover Open

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