

CENTRIFUGES

Model CD 40

TECHNICAL INFORMATION

The centrifuge will be a solid bowl, horizontal, scroll type unit and is designed specifically to handle the specified mud. The Machine is capable of continuous operation with a minimum of maintenance.

RIG OIL LLC will supply the decanter with all the appurtenances and ancillaries as detailed and specified and/or required for a complete operating system.

The unit is equipped with:

- Vibrator isolators
- Electrical main motor
- Electrical controlled sludge scraper mechanism
- Belt guards
- Grease lubricated bearings
- central discharge tube
- Solids discharge chute
- Start main motor w/ hydraulic clutch

Description of the Decanter Centrifuge. The decanter as indicated is a counter current centrifuge according to the state of the art and can be applied without any special adaptations.

Bowl. The bowl of the decanter is made of stainless steel. The dewatering volume in the bowl can easily be altered by exchanging the weir disc.

Screw. The centrifuge screw is made of AISI 304 and is coated from both sides with tungsten carbide against erosion. The MUD feed point, with ceramic protection. -

Sludge Scraper. In the solids discharge chamber the decanter has a sludge scraper mechanism, which continuously removes sludge from the wall of the solid discharge.

Back-Drive. The back-drive is a grease lubricated Cyclo gearbox. The gearbox is protected against overloading with an electronic detection system.

Main drive. The main motor is mounted on a sub-frame to allow tensioning of the drive belts. The drive belts are v-belts except for the hydraulic machine.

Construction. The entire rotating assembly of the centrifuge is mounted in a " Split Case ". The frame is mounted on support struts to raise the centre-line of the machine to enable easy access for service and maintenance. The raised construction also allows easy discharge of liquids and solids from under the machine. The frame is preserved by means of a two coat epoxy system. All parts in contact with MUD are executed in stainless steels. All bearings are lubricated with grease.

Voltage. Our equipment is standard executed in 480V, 3 phase, 60 Hz, 50 Hz is available. The decanter centrifuge is also equipped with the following parts:

Vibration detection/Vibration Control. The centrifuge is equipped with a vibration detection monitor, and is integrated in the controls of the decanter. The vibration monitoring system generates an acoustic alarm when the vibration exceeds 7 mm/s. If the vibration of the machine exceeds 12 mm/s the machine will automatically switch off.

Control panel. Main function:

- Motor starter
- Differential speed control
- Vibration detection
- Overload alarm, emergency light & sound signal. All pumps motor starter and auxiliaries linkage.

The panel will include isolators, contactors, thermal relays, ammeters, voltmeters, ON/OFF switches, reset push button and test buttons.



Bowl and screw are completely in stainless steel.
Special wear-proof protection on peripheral screw area.
Optional, tungsten carbide plates.

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Decanter CD40 SP

FSI DECANTER TYP CD 40S (15in x 51in)	
Actual flow rate	depending on incoming sludge
Length	3.100 mm (122in)
Width	1.115mm(44in)
Height	1.690mm(66.5in)
Housing	Carbon Steel-SPLIT CASE
Liquid and solids discharge	AISI 304
Bowl Material	X3 CrNiMo 13.4
Internal Screw	AISI 304
Screw flight coated from both side with tungsten carbide	
Bowl Dia	380 mm(15in)
Bowl length	1.300 mm(51 in)
Slenderness ratio	3, 4
Bowl max. speed	4200 rpm
Differential speed	0.1 to 55 rpm
Bowl powered by belt transmission and electric motor	
Electric motor	22 kW (30 hp) 34 A, 4poles-IP55
Start by inventor	
Solids scraper	0,3 kW
Ball bearings	SKF-NSK
Gear box	Cyclo
Vibration isolators under decanter frame	
Noise level	80dB
Weight(not including oilfield skid)	1,800 kg(4000 lbs)
Electric Board(Explosion Proof)	II 2GD EExd- II B-T5
Voltage 50 Hz Available	480V 60 Hz 3 Phase
Vibration Control	
Oilfield Skid	
Manual in English	
Option:	Fully hydraulic(alternative)

Decanter CD40 P

FSI DECANTER CD 40 (15in x 65in)	
Actual flow rate	depending on mud, solids, etc
Length	3.450 mm (136in)
Width	1.115mm(44in)
Height	1.690mm(66.5in)
Housing	Carbon Steel
Liquid and solids discharge	AISI 304
Bowl Material	X3 CrNiMo 13.4
Internal Screw	AISI 304
Screw flight coated from both side with tungsten carbide	
Bowl Dia	380 mm(15in)
Bowl length	1.650 mm(65 in)
Slenderness ratio	4,3
Bowl max. speed	4000 rpm
Differential speed	0.1 to 55 rpm
Bowl powered by belt transmission and electric motor	
Electric motor	30 kW (40 hp) 34 A, 4poles-IP55
Start by inventor	
Solids scraper	0,3 kW
Ball bearings	SKF-NSK
Gear box	Cyclo
Vibration isolators under decanter frame	
Noise level	80dB
Weight(not including oilfield skid)	2,000 kg(4500lbs)
Electric Board(Explosion Proof)	II 2GD EExd-II B-T5/
Voltage 50 Hz Available	480 V 60Hz 3 Phase
Vibration control	
Oilfield Skid	
Manual in English	
Option:	Fully hydraulic(alternative)

