

Centrifuge

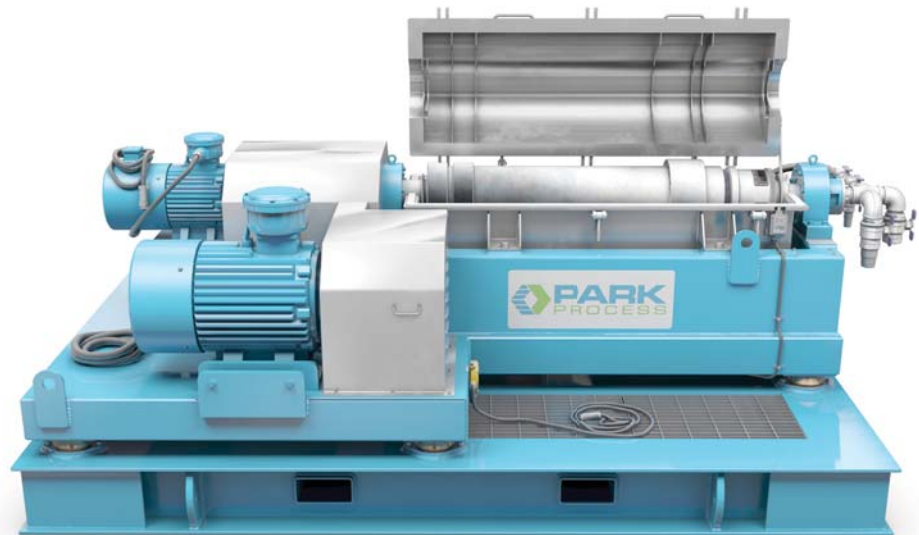
The ParkProcess Decanter Centrifuge is the most popular size centrifuge in the oil drilling industry. It can be used for fine/ultra fine solids separation, barite recovery and zero-discharge dewatering. With its removable legs, this centrifuge can be mounted on a solids control mud tank or on a telescopic skid for drilling waste management. The 3.5 length to diameter bowl ratio is ideal for drilling mud. The VFD Decanter Centrifuge is driven by a main motor and is supplied with a back drive motor with high torque sun-wheel gear box. Fixed speed units are available with different pulley sizes available for changing the RPM of the centrifuge. The VFD drive with PLC control is standard for the VFD models.

Oilfield Decanter Centrifuge for Drilling Fluids

Decanter centrifuges are used to process un-weighted and weighted, water-based and oil-based drilling fluids (muds). Mechanical energy is utilized to increase the gravitational force exerted on solids that are present in the mud. The Decanter Centrifuges are able to apply over 3,000 G-forces on the liquid/solids mixture, which separates the heavier solids from the lighter solids in the carrier fluid. Mechanical separation of solids from the mud system through the use of a decanter centrifuge is a highly-effective means of maintaining proper mud weight and viscosity. When used in conjunction with other solids control equipment, the decanter centrifuge enables users to maintain the mud properties within the prescribed range as per the drilling program. Typically the decanting centrifuge is the final processing unit in the arrangement of solids control equipment. The centrifuge is preceded by gumbo removal equipment (if utilized), Shale Shakers, Mud Cleaners (if utilized), Vacuum degassers, and Hydrocyclones.

► Features

- Patented design with best materials of construction for long and reliable service.
- Bowl Cylindrical and Conical section made from Duplex Stainless Steel 2205 by centrifugal casting.
- Other Parts of the bowl assembly material: stainless steel SS316L.
- Screw protection: Tungsten Carbide Tiles for longer life easy replacement.
- Screw flow distribution port and bowl solids discharge port protected by tungsten carbide wear plates.
- Easily adjustable liquid discharge weir height.
- Pressurized EX Proof VFD control cabinet with PLC.
- Genuine SKF bearings for longer and reliable operation.



Technical Parameters

Model	CentriCat-1450A	CentriCat-1450A-VFD	CentriCat-1861A-VFD	CentriCat-2271A-VFD
Bowl Diameter	14 inches	14 inches	18 inches	22 inches
Bowl Length	50 inches	50 inches	61 inches	61 inches
Max. Capacity	200 GPM	200 GPM	352 GPM	484 GPM
Effective Capacity	132 GPM	132 GPM	264 GPM	264 GPM
Max Bowl Speed	3900 RPM	3900 RPM	3200 RPM	3000 RPM
Typical Bowl Speed	3200 RPM	0~3200RPM	0~2800RPM	0~2500RPM
Max G-Force	3063	3063	2578	2719
Typical G-Force	2062	0~2062	0~1973	0~1888
Separation Point	2~5µm	2~5µm	2~5µm	2~5µm
Differential Speed	40	0~40	0~35	0~45
Gearbox Torque	2580 ft. lbs.	2580 ft. lbs.	5500 ft. lbs.	8850 ft. lbs.
Gearbox Ratio	57:1	57:1	57:1	35:1
Main Drive Motor	50HP	50HP	75HP	120HP
Back Drive Motor	15HP	15HP	30HP	50HP
XP Standard	IEC EX/ ATEX			
Electric Cabinet	Exp. Proof Standard	PLC- Positive Pressurized		
Weight	7,800 lbs	7,800 lbs	10,100 lbs	12,875 lbs
Dims: L x W x H	10'11" x 5'5" x 4'3"	10'11" x 5'5" x 4'3"	12'7" x 5'11" x 4'4"	14'2" x 6'6" x 4'7"

NOTES:
 1. ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE.

THIS SHEET IS THE PROPERTY OF PARK PROCESS, HOUSTON, TEXAS, AND MAY CONTAIN PROPRIETARY INFORMATION. IT IS CIRCULATED UNDER THE EXPRESS CONDITION THAT IT IS NOT TO BE USED IN ANY MANNER DIRECTLY OR INDIRECTLY DETRIMENTAL TO PARK PROCESS.

WEIGHTS, DIMENSIONS AND DESIGN ARE SUBJECT TO CHANGE. CONTACT PARK PROCESS FOR THE MOST UP TO DATE EQUIPMENT DRAWINGS AND INFORMATION.

PARK PROCESS

CENTRIFUGE
 DRAWING IS INTENDED FOR GENERAL ARRANGEMENT/PLACEMENT

PH	DRN	CHK	DWG. NO.	REV.
RC	ALU		PP-OG-C-01	A
DATE	07/17/15			