

Centrifuge

Centrifuge is a piece of solids-removal machinery that removes fine and ultrafine solids. It contains a conical drum that rotates at 2000 to 4000 rpm. Drilling fluid is fed into one end and the separated solids are moved up the bowl by a rotating scroll to exit at the other end. Centrifuges generally have limited processing capacity (50 to 250 gpm) however are efficient for processing weighted drilling fluids and can remove finer solids than a hydrocyclone or shaker screens. They can also be applied for water clarification or for processing oily cuttings.

General Features



NL series [Centrifuge](#) are special designed according to the characters of drilling fluid, to separate the solid and liquid part. Featured with high capacity, quiet and easy to maintenance. Suitable for onshore and offshore drilling operations.

Details

The NL series centrifuge were developed to provide the market with more reliable technology and more hoisting performance. Mainly used for barite collection, remove small dimensioned solid from the mud to control the density and viscosity of the drilling fluid. Featured with high capacity, quiet and easy to maintenance. Included but not limited by the advantages mentioned, NL series centrifuges might be your best choice.

General Features

- Suitable for cold area and desert environment
- Suitable for onshore or offshore rigs
- Wear-resisting protections offers long life of the system
- Positive pressure explosion proof control cabin

Main Paramaters

Maximum Capacity: 1589 scfh – 3884 scfh (45 m³/h – 110 m³/h)

Actual Capacity: 1060 scfh – 3178 scfh (30 m³/h – 90 m³/h)

Separate Diameter of Solids: 2~5 μm

Parameters:

Model	NL363CG	NL363CG-VFD	NL453VFD	NL553VFD
Bowl Diameter	360mm(14inch)	360mm(14inch)	450mm(18inch)	550mm(22inch)
Bowl Length	1271mm(50inch)	1271mm(50inch)	1540mm(61inch)	1800mm(71inch)
Max. Capacity	200GPM(45m ³ /h)	200GPM(45m ³ /h)	352GPM(80m ³ /h)	484GPM(110m ³ /h)
Effective Capacity	132GPM(30m ³ /h)	132GPM(30m ³ /h)	264GPM(60m ³ /h)	400GPM(90m ³ /h)
Max Bowl Speed	3900RPM	3900RPM	3200RPM	3000PRM
Typical Bowl Speed Rate	3200RPM	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	2~5 μ m	2~5μm	2~5 μ m
Differential Speed	40	0~40	0~35	0~45
Gearbox Torch	3500N.M	3500N.M	7500N.M	12000N.M
Gear Box Ration	57:01:00	57:01:00	57:01:00	35:01:00
Main Drive Motor	37KW(50HP)	37KW(50HP)	55KW(75HP)	90KW(120HP)
Back Drive Motor	11KW(15HP)	11KW(15HP)	22KW(30HP)	37KW(50HP)
Recommend Pump	7.5KW(10HP)	7.5KW(10HP)	15KW(20HP)	22KW(30HP)
EX Standard	ExdIIBt4 / IEC EX/ ATEX			
Electric Carbinet	Exd Standard	PLC+Positive Presurized		
Weight	3500KG	3400KG	4580KG	5840KG
Dimension	3305x1638x1277mm	3305x1638x1277mm	3824x1798x1317mm	4293x1978x1381mm