

Dewatering Pumps

HD/HDG/BD

60Hz
SERIES



HD 1.5HP

HD 2~5HP

HD 7.5~10HP

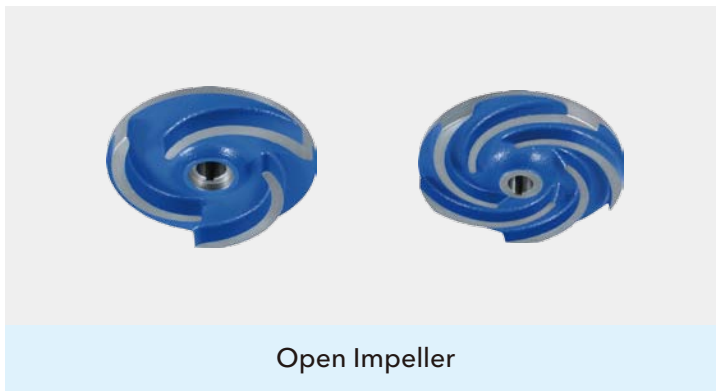
HD 15~20HP

BD 30HP

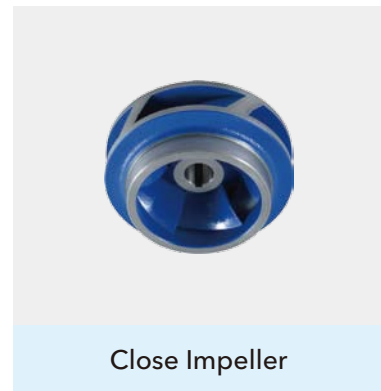
HD/BD Optimizing Lifetime Cost

FEATURES

- Compact, robust and easy handling for all construction and civil engineering dewatering application conditions.
- (HD) stainless steel SUS304 / (BD) SPHC double outer casing, water cooling motor for continuous duty and low water level conditions.
- Standard accessories include : cable with an epoxy resin sealed water-resistant cable base, Auto-cut motor protector, double mechanical seals, lip oil seal design, and High Solid Epoxy coating.
- High efficient special impeller design in High Chrome Alloy steel (HiCrFC), with a hardness of 55 - 60 Rockwell, to stand high abrasive applications.



Open Impeller



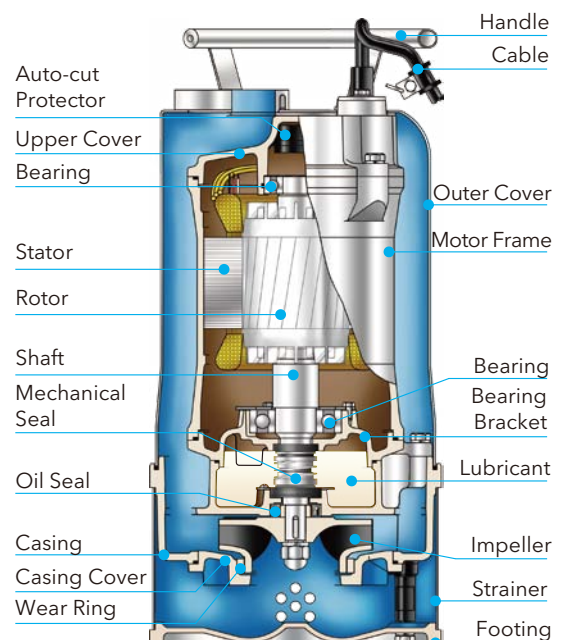
Close Impeller

APPLICATIONS

- Civil engineering, dewatering, tunneling, groundworks, mining and manhole sewer.
- Industrial wastewater dewatering of fluids containing solid sediments.
- Portable use for contractors, installers and industry.

PRODUCT NOMENCLATURE

100	HD	2	5.5
Discharge mm	Type	Pole	kW

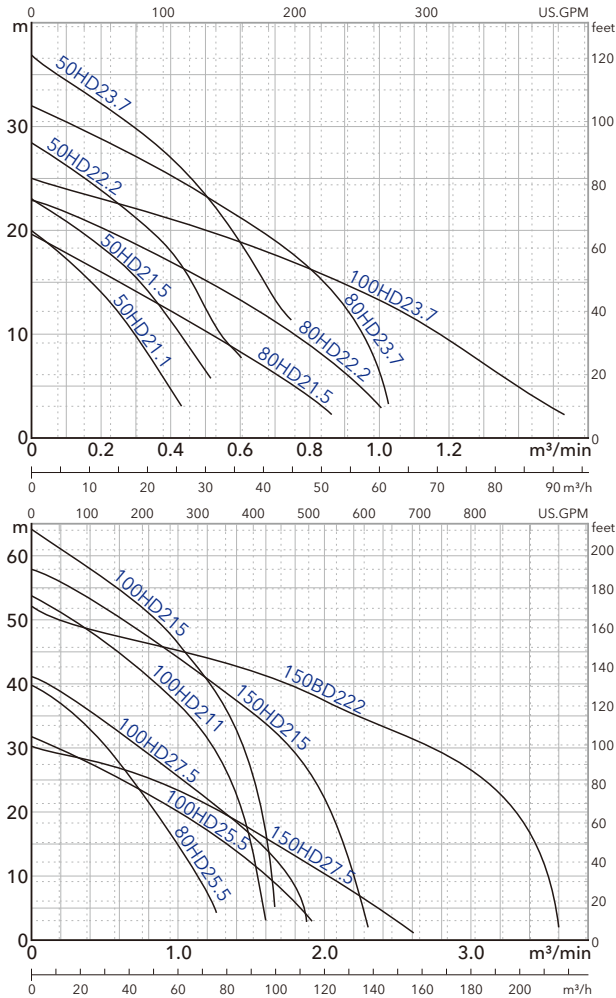


HD/BD

SUBMERSIBLE DEWATERING PUMPS



PERFORMANCE CURVES



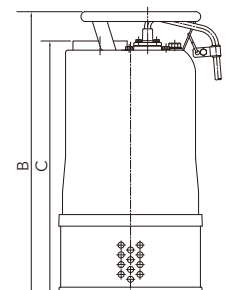
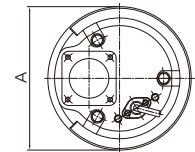
SPECIFICATIONS

	Item	Description
Limits of Use	Liquid Temp.	0~40°C (32~104°F)
	Applications	Construction sites • Basins dewatering
Type	Frequency	60Hz
	Motor	2P (3600rpm) • Dry Motor
	Insulation	Class F (1.5~5HP) • Class H (7.5~30HP)
	Protection	IP68
	Protector	Auto-cut
	Bearing	Ball type
	M.seal	Double M.seals
	Impeller	Open • Close
Material	Outer cover	SUS304 (Series HD) • SPHC (Series BD)
	Upper Cover	FC200
	Motor Frame	SUS304 (1.5HP) • FC200 (2~30HP)
	Shaft	SUS403 (1.5~3HP) • SUS304 (5~10HP) • SUS420J2 (15~30HP)
	M.seal	CA/CE & SiC/SiC
	Casing	FC200 (1.5~10HP • 30HP) • FCD500 (15~20HP)
	Impeller	HiCrFC
	Wear plate	HiCrFC (For Open)
	Wear ring	HiCrFC (For Close)
	Cable	VCT or H07RN-F or SJOW/SOW
Optional	Pumps can be customized to fit specifications Floating Switch (1.5~3HP 1Ø)	

PERFORMANCE SPECS.

※ Note : Weight Without Cable & Elbow Set.

Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Standard		Solid Passage mm(inch)	Weight kg(lb)		Dimensions mm				
					m-m³/min	ft-GPM		1Ø	3Ø	A	B	C	3Ø	
50HD21.1	1.5(1.1)	2"(50)	1	Capacitor	13.5-0.2	44-52	7.5(1/4")	28(62)	24(53)	210	482	423	431	372
				DOL										
50HD21.5	2(1.5)	2"(50)	1	Capacitor	16.5-0.25	54-66	10(3/8")	40(88)	36(79)	235	511	466	465	421
				DOL										
50HD22.2	3(2.2)	2"(50)	1	Capacitor	20.5-0.3	67-80	10(3/8")	44(97)	39(86)	235	541	466	496	421
				DOL										
50HD23.7	5(3.7)	2"(50)	3	DOL	29.5-0.3	97-80	10(3/8")	-	44(97)	235	-	496	-	451
80HD21.5	2(1.5)	3"(80)	1	Capacitor	10-0.5	33-132	10(3/8")	40(88)	36(79)	235	511	466	465	421
				DOL										
80HD22.2	3(2.2)	3"(80)	1	Capacitor	15-0.5	49-132	10(3/8")	44(97)	39(86)	235	541	466	496	421
				DOL										
80HD23.7	5(3.7)	3"(80)	3	DOL	22.5-0.5	74-132	10(3/8")	-	44(97)	235	-	496	-	451
100HD23.7	5(3.7)	4"(100)	3	DOL	13-1.0	43-265	10(3/8")	-	44(97)	235	-	511	-	465
80HD25.5	7.5(5.5)	3"(80)	3	DOL	30-0.5	98-132	10(3/8")	-	69(152)	286	-	610	-	550
100HD25.5	7.5(5.5)	4"(100)	3	DOL	20-1.0	66-265	10(3/8")	-	71(157)	286	-	610	-	550
100HD27.5	10(7.5)	4"(100)	3	DOL	26-1.0	85-265	10(3/8")	-	79(174)	286	-	610	-	550
150HD27.5	10(7.5)	6"(150)	3	DOL	17-1.5	56-395	10(3/8")	-	81(179)	286	-	610	-	550
100HD211	15(11)	4"(100)	3	DOL	37-1.0	121-265	10(3/8")	-	124(273)	330	-	700	-	642
100HD215	20(15)	4"(100)	3	DOL	46-1.0	151-265	10(3/8")	-	133(293)	330	-	700	-	642
150HD215	20(15)	6"(150)	3	DOL	35-1.5	115-395	10(3/8")	-	132(291)	330	-	700	-	642
150BD222	30(22)	6"(150)	3	DOL	37-2.0	121-530	15(5/8")	-	223(492)	403	-	813	-	721





HDG 2-5HP

HDG 7.5-10HP

HDG Optimizing Application Performance

FEATURES

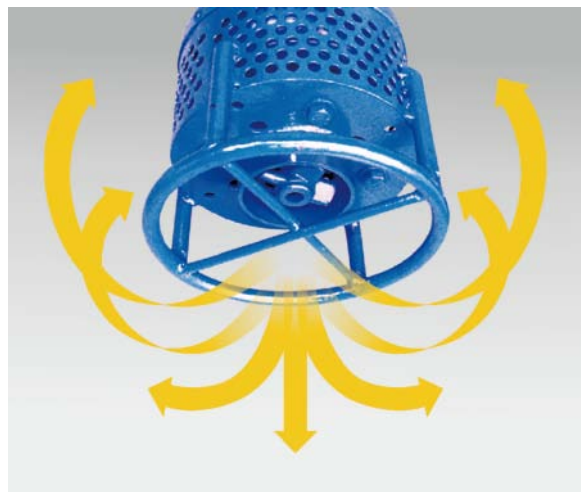
- Optimizing HDG series designed with hardened ductile cast iron (FCD-700) agitator, for maximum stirring and pump action for slurry applications.
- Standard accessories include: cable with an epoxy resin sealed water-resistant cable base, Auto-cut motor protector, double mechanical seals, lip oil seal design, and High Solid Epoxy coating.
- High efficient special impeller design in High Chrome Alloy steel (HiCrFC), with a hardness of 55 - 60 Rockwell, to stand high abrasive applications.



Open Impeller

Close Impeller

Agitator

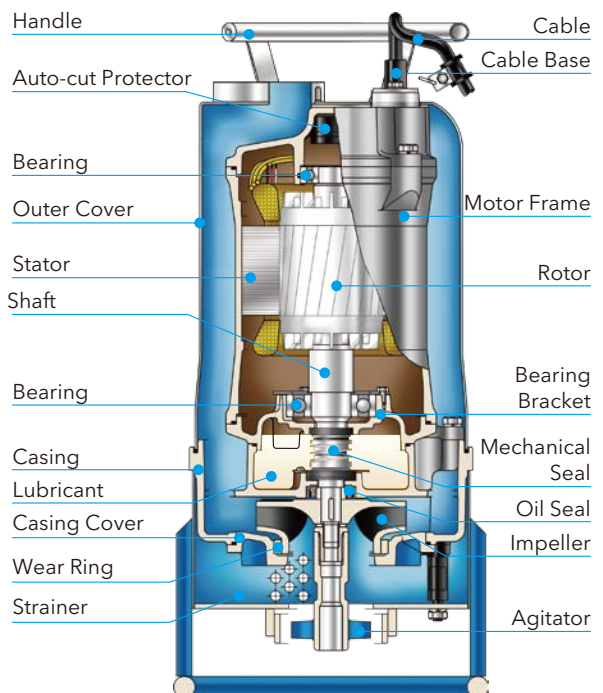


APPLICATIONS

- Civil engineering, dewatering, tunneling, groundworks, mining and manhole sewer.
- Industrial wastewater dewatering of fluids containing solid sediments.
- Dewatering of slurry mixed with water.
- Portable use for contractors, installers and industry.

PRODUCT NOMENCLATURE

80	HDG	2	1.5
Discharge mm	Type	Pole	kW



Handle

Cable

Auto-cut Protector

Cable Base

Bearing

Outer Cover

Motor Frame

Stator

Shaft

Rotor

Bearing

Bearing Bracket

Casing

Lubricant

Casing Cover

Wear Ring

Strainer

Mechanical Seal

Oil Seal

Impeller

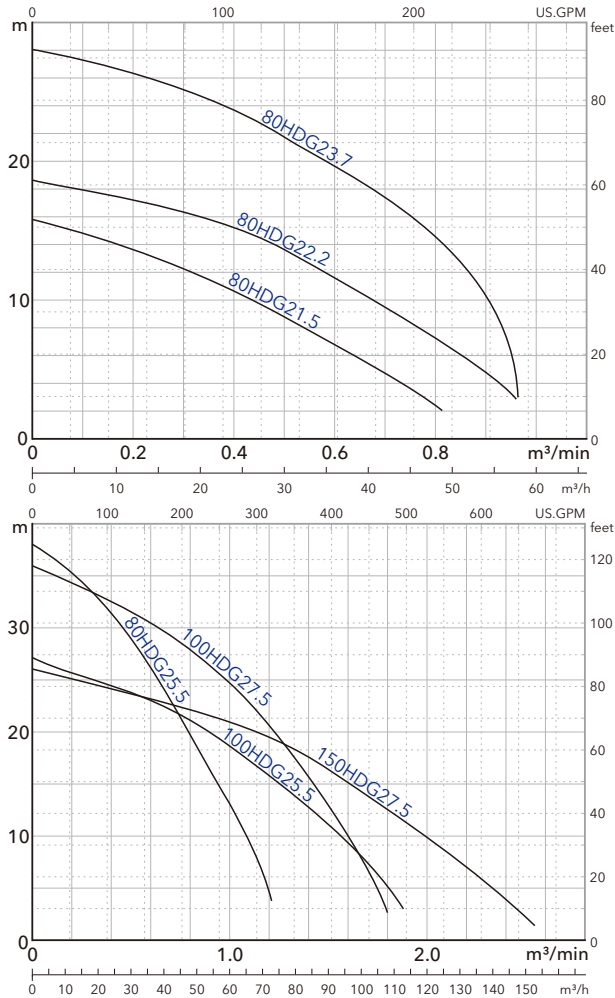
Agitator

HDG

SUBMERSIBLE SLURRY DEWATERING PUMPS



PERFORMANCE CURVES



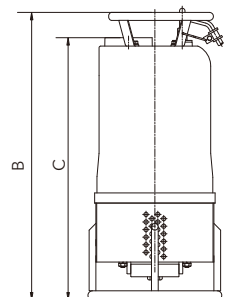
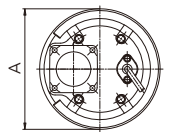
SPECIFICATIONS

	Item	Description
Limits of Use	Liquid Temp.	0~40°C (32~104°F)
	Applications	Dewatering Fluids Contain Solid Sediment
Type	Frequency	60Hz
	Motor	2P (3600rpm) • Dry Motor
	Insulation	Class F (2~5HP) • Class H (7.5~10HP)
	Protection	IP68
	Protector	Auto-cut
	Bearing	Ball type
	M.seal	Double M.seals
Material	Impeller	Open • Close
	Outer cover	SUS304
	Upper Cover	FC200
	Motor Frame	FC200
	Shaft	SUS403 (2~3HP) • SUS304 (5~10HP)
	M.seal	CA/CE & SiC/SiC
	Casing	FC200
	Impeller	HiCrFC
	Wear plate	HiCrFC (For Open)
	Wear ring	HiCrFC (For Close)
Agitator	FCD700	
	Cable	VCT or H07RN-F or SJOW/SOW
	Optional	Pumps can be customized to fit specifications

PERFORMANCE SPECS.

Model	Output HP(kW)	Discharge Inch(mm)	Phase	Start Method	Standard		Solid Passage mm(inch)	Weight kg(lb)		Dimensions mm				
					m-m³/min	ft-GPM		1∅	3∅	A	B		C	
80HDG21.5	2(1.5)	3"(80)	1	Capacitor	8-0.5	28-132	10(3/8")	41(90)	36(79)	260	592	547	546	502
				DOL										
80HDG22.2	3(2.2)	3"(80)	1	Capacitor	13.5-0.5	44-132	10(3/8")	45(99)	39(86)	260	622	547	577	502
				DOL										
80HDG23.7	5(3.7)	3"(80)	3	DOL	21-0.5	69-132	10(3/8")	-	45(99)	260	-	577	-	532
80HDG25.5	7.5(5.5)	3"(80)	3	DOL	29-0.5	95-132	10(3/8")	-	70(154)	318	-	683	-	623
100HDG25.5	7.5(5.5)	4"(100)	3	DOL	18-1.0	59-265	10(3/8")	-	72(159)	318	-	683	-	623
100HDG27.5	10(7.5)	4"(100)	3	DOL	24-1.0	79-265	10(3/8")	-	80(176)	318	-	683	-	623
150HDG27.5	10(7.5)	6"(150)	3	DOL	16-1.5	53-395	10(3/8")	-	82(181)	318	-	683	-	623

※ Note : Weight Without Cable & Elbow Set.





OPTIONAL OUTLET SET

Output HP(kW)	Discharge inch(mm)	Lower PCD*Holes	LOH Hose Connection	LOT Male Thread Connection	LOF Flange Connection	LKF Double Flange Set	LOC(A) Center Line Flange
2(1.5) 5(3.7)	2"(50)	98*4	LOH2-98	LOT2-98	LOF2-120-125*98	LKF2-120*98	-
	3"(80)	98*4	LOH3-98	LOT3-98	LOF3-150-160*98	LKF3-150*98	LOC3-150*98
7.5(5.5) 10(7.5)	4"(100)	98*4	LOH4-98	LOT4-98	LOF4-175-190*98	LKF4-175*98	-
	3"(80)	127*4	LOH3-127	LOT3-127	LOF3-150-160*127	LKF3-150*127	LOC3-150*127
15(11) 20(15)	4"(100)	127*4	LOH4-127	LOT4-127	LOF4-175-190*127	LKF4-175*127	-
	6"(150)	127*4	LOH6-127	LOT6-127	LOF6-240*127	LKF6-240*127	-
30(22)	4"(100)	145*4	LOH4-145	LOT4-145	-	-	LOC4-175*145
	6"(150)	145*4	LOH6-145	LOT6-145	-	-	LOC6-240*145
	6"(150)	185*5	LOH6-185	LOT6-185	-	-	LOC6-240*185

PRODUCT NOMENCLATURE

LOH 4 - 98
Type Discharge PCD

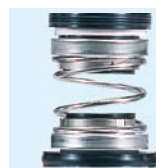
LOF 4 - 175 - 190 * 98
Type Discharge PCD PCD
(upper flange) (lower flange)

PRODUCT FEATURES



Epoxy Cable Base

An epoxy resin seal cable base prevents moisture from entering the motor through the core wires.



Double Mechanical Seals

Superior abrasion resistant mechanical seal is manufactured with silicon carbide to ensure the best seal effect.



Auto-cut Protector

Automatic On / Off motor protector to prevent motor burn out due to high temperature and excess amperage draw. The Protector can revert when the motor temperature returns to normal.



High Efficiency Dry Motor

All stator coils are treated with insulating varnish procedures to achieve the best insulation, efficiency and durability.



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