

# Dewatering Pumps

# HD/HDG/BD

50Hz  
SERIES



HD 1.5HP

HD 2~5HP

HD 7.5~10HP

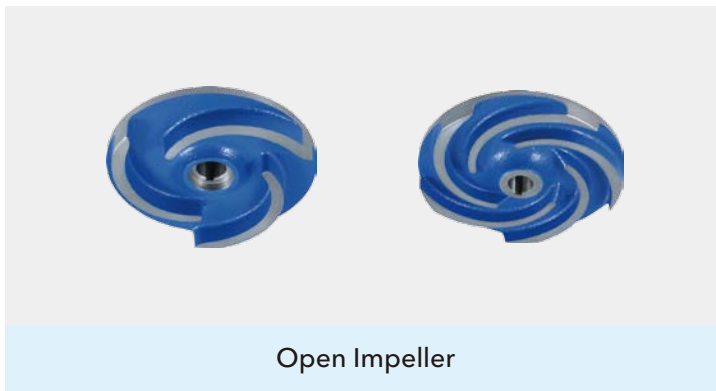
HD 15~20HP

BD 30HP

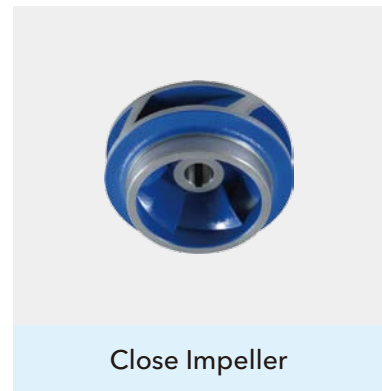
## HD/BD Optimizing Lifetime Cost

### 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



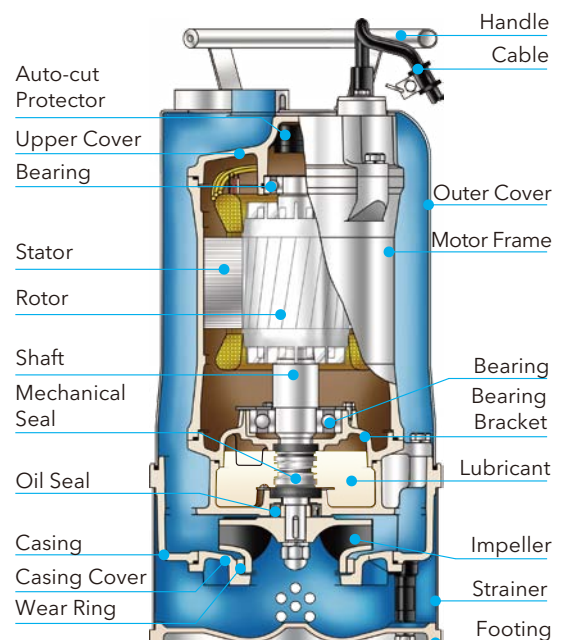
Close Impeller

### 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



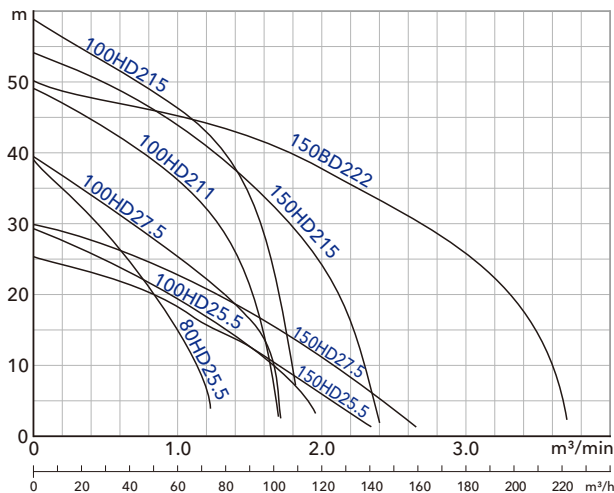
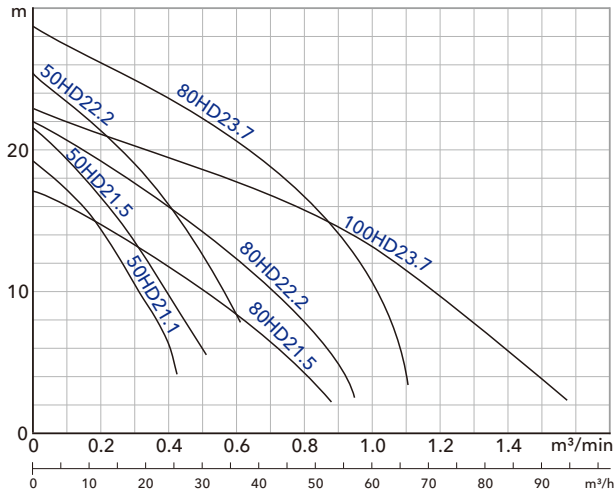


# HD/BD

## SUBMERSIBLE DEWATERING PUMPS



### PERFORMANCE CURVES



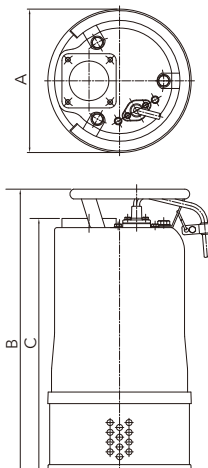
### SPECIFICATIONS

	Item	Description
Limits of Use	Liquid Temp.	0~40°C (32~104°F)
	Applications	Construction sites • Basins dewatering
Type	Frequency	50Hz
	Motor	2P (3000rpm) • 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	Start Method	Head m	Standard		Solid Passage mm	Weight kg		Dimensions mm				
						m³/min	m³/h		1Ø	3Ø	A	B	C	3Ø	
50HD21.1	1.5(1.1)	2"(50)	1	Capacitor	13.5	0.2	12	7.5(1/4")	28	24	210	482	423	431	372
				DOL											
50HD21.5	2(1.5)	2"(50)	1	Capacitor	15	0.25	15	10(3/8")	40	36	235	511	466	465	421
				DOL											
50HD22.2	3(2.2)	2"(50)	1	Capacitor	19	0.3	18	10(3/8")	44	39	235	541	466	496	421
				DOL											
80HD21.5	2(1.5)	3"(80)	1	Capacitor	10	0.5	30	10(3/8")	40	36	235	511	466	465	421
				DOL											
80HD22.2	3(2.2)	3"(80)	1	Capacitor	14	0.5	30	10(3/8")	45	39	235	541	466	496	421
				DOL											
80HD23.7	5(3.7)	3"(80)	3	DOL	22	0.5	30	10(3/8")	-	44	235	-	496	-	451
100HD23.7	5(3.7)	4"(100)	3	DOL	13	1.0	60	10(3/8")	-	44	235	-	511	-	465
80HD25.5	7.5(5.5)	3"(80)	3	DOL	28	0.5	30	10(3/8")	-	72	286	-	610	-	550
100HD25.5	7.5(5.5)	4"(100)	3	DOL	19	1.0	60	10(3/8")	-	75	286	-	610	-	550
150HD25.5	7.5(5.5)	6"(150)	3	DOL	12	1.5	90	10(3/8")	-	78	286	-	610	-	550
100HD27.5	10(7.5)	4"(100)	3	DOL	25	1.0	60	10(3/8")	-	80	286	-	610	-	550
150HD27.5	10(7.5)	6"(150)	3	DOL	17	1.5	90	10(3/8")	-	81	286	-	610	-	550
100HD211	15(11)	4"(100)	3	DOL	36	1.0	60	10(3/8")	-	125	330	-	700	-	642
100HD215	20(15)	4"(100)	3	DOL	46	1.0	60	10(3/8")	-	134	330	-	700	-	642
150HD215	20(15)	6"(150)	3	DOL	35	1.5	90	10(3/8")	-	133	330	-	700	-	642
150BD222	30(22)	6"(150)	3	DOL	37	2	120	15(5/8")	-	224	403	-	813	-	721





HDG 2-5HP

HDG 7.5-10HP

# HDG Optimizing Application Performance

## FEATURES

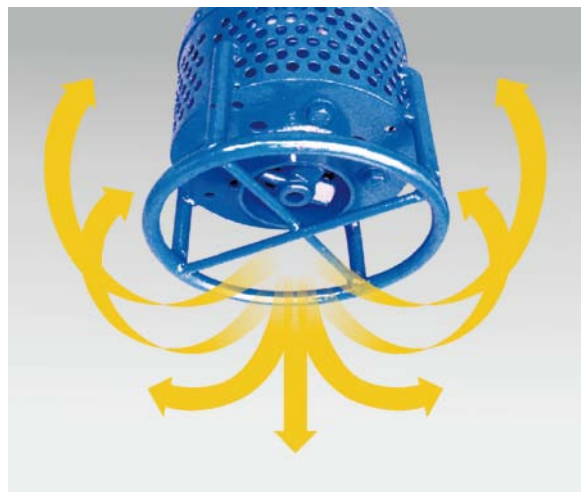
- Optimizing HDG series designed with hardened ductile cast iron (FCD-700) agitator, for maximum stirring and pump action for slurry applications.
- Standard accessories include: cable with an epoxy resin sealed water-resistant cable base, Auto-cut motor protector, double mechanical seals, lip oil seal 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

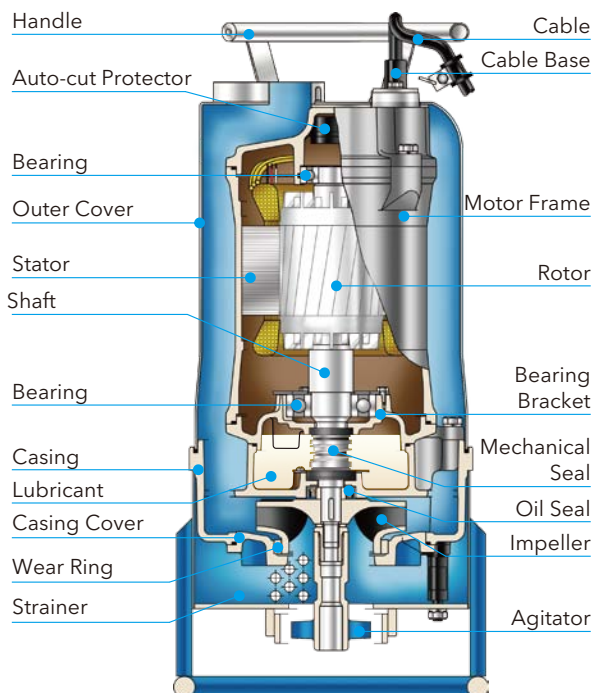


## APPLICATIONS

- 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

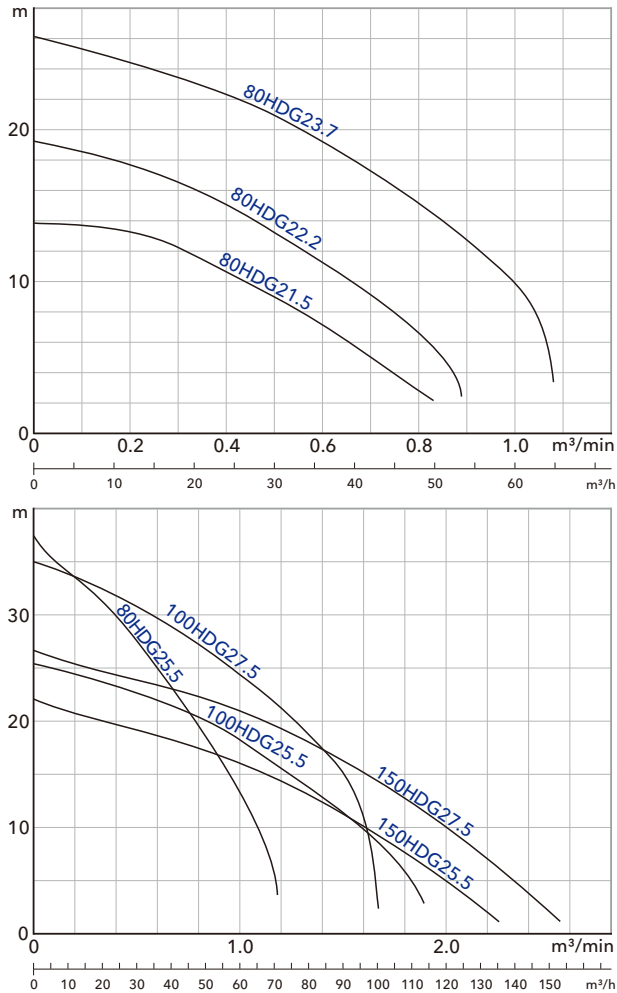
Agitator

# HDG

## SUBMERSIBLE SLURRY DEWATERING PUMPS



### PERFORMANCE CURVES



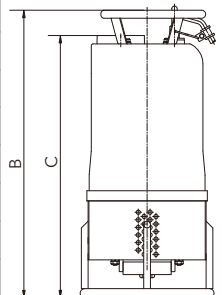
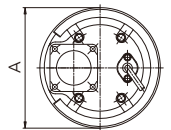
### SPECIFICATIONS

Item	Description
Limits of Use	Liquid Temp. 0~40°C (32~104°F)
	Applications Dewatering Fluids Contain Solid Sediment
Type	Frequency 50Hz
	Motor 2P (3000rpm) • 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
	Impeller Open • Close
Material	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 Ø	Start Method	Head m	Standard		Solid Passage mm	Weight kg		Dimensions mm				
						m³/min	m³/h		1Ø	3Ø	A		B		C
80HDG21.5	2(1.5)	3"(80)	1/3	Capacitor DOL	9	0.5	30	10(3/8")	41	36	260	592	547	546	502
80HDG22.2	3(2.2)	3"(80)										622	547	577	502
80HDG23.7	5(3.7)	3"(80)	3	DOL	21	0.5	30	10(3/8")	-	45	260	-	577	-	532
80HDG25.5	7.5(5.5)	3"(80)	3	DOL	27	0.5	30	10(3/8")	-	73	318	-	683	-	623
100HDG25.5	7.5(5.5)	4"(100)	3	DOL	18	1.0	60	10(3/8")	-	76	318	-	683	-	623
150HDG25.5	7.5(5.5)	6"(150)	3	DOL	11	1.5	90	10(3/8")	-	79	318	-	683	-	623
100HDG27.5	10(7.5)	4"(100)	3	DOL	24	1.0	60	10(3/8")	-	81	318	-	683	-	623
150HDG27.5	10(7.5)	6"(150)	3	DOL	16	1.5	90	10(3/8")	-	82	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

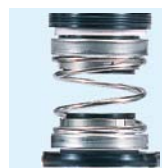
LOF 4 - 175 - 190 \* 98  
Type Discharge PCD PCD  
(upper flange) (lower flange)

## 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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