



HD

DEWATERING PUMPS

60Hz

make future flow

HD Series

SUBMERSIBLE DEWATERING PUMPS

- Compact, robust and easy handling for all construction and civil engineering dewatering application conditions.
- Stainless steel (SUS304) outer casing, the self-cooling motor is suitable for continuous duty and low water level conditions.
- Standard accessories include the cable with an epoxy resin sealed water-resistant cable base, Auto-cut motor protector, double mechanical seals, 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.
- The pump internal castings are all protected by the high solids epoxy coating, which can prolong the metal life and avoid corrosion and oxidation.
- The mechanical seal bracket is covered by EPDM with anti-abrasive wear for HD 15~20HP models.
- Optional ADTC (Adapter Connection) Casing to connect suction with inline pipe, allowing surface/ inline/deep well pumping.

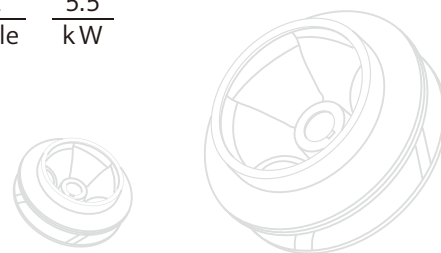


SPECIFICATIONS

Spec.	Description
Liquid Temp.	0~40°C (32~104°F)
Motor	2P (3600rpm) • Dry Motor
Insulation	Class F • Class H
Protection	IP68
Protector	Auto-cut
M.seal Type	Double M.seals
Impeller Type	Open • Close
Item	Material
Outer Cover	SUS304 / AISI 304
Upper Cover	FC200 / ASTM-30
Motor Frame	FC200 / ASTM-30
Shaft	SUS403 / ASTM 403 • SUS304 / AISI 304 • SUS420J2 / ASTM 420 F
M.seal	CA/CE & SiC/SiC
Casing	FC200 / ASTM-30 • FCD500 / Gr.65-45-12
Impeller	HiCrFC
Wear plate	HiCrFC (For Open)
Wear ring	HiCrFC (For Close)
Cable	VCT or SJOW/SOW

PRODUCT NOMENCLATURE

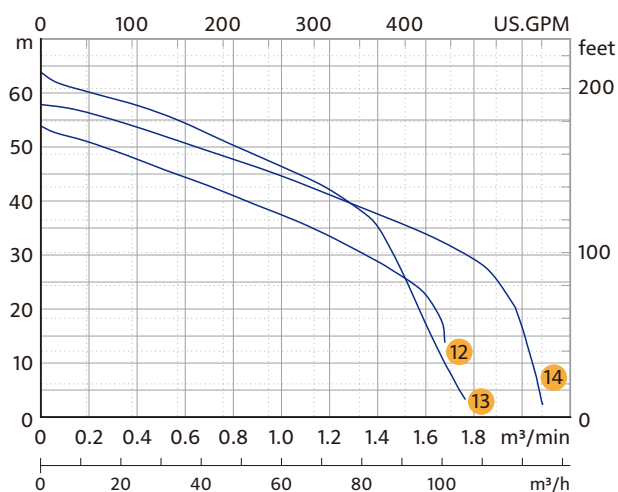
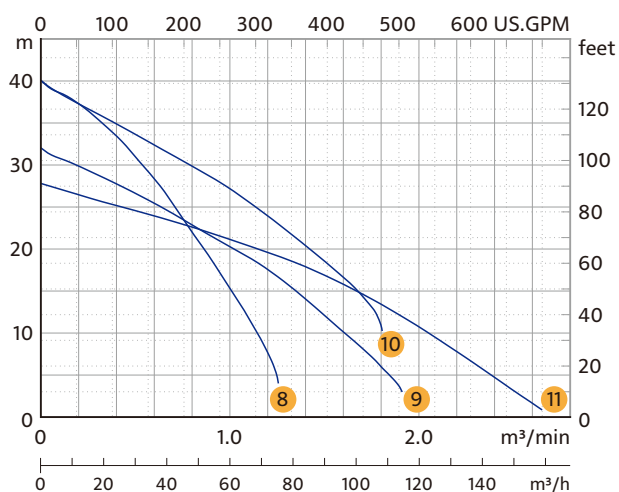
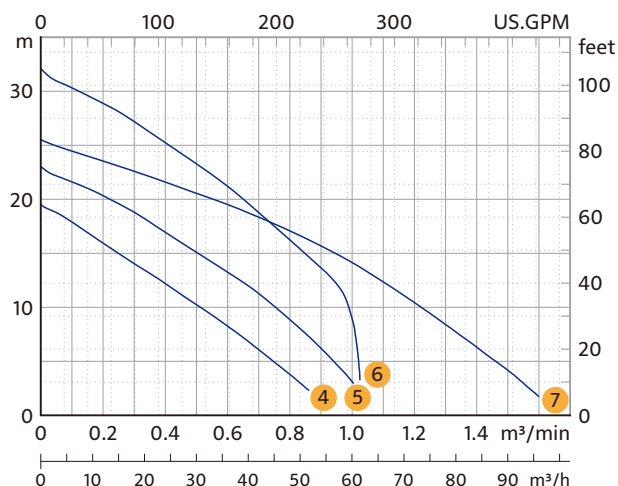
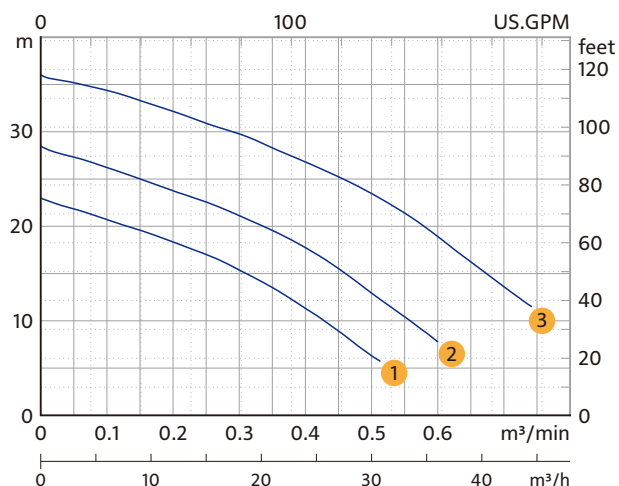
$\frac{100}{\text{Discharge mm}}$
 $\frac{\text{HD}}{\text{Type}}$
 $\frac{2}{\text{Pole}}$
 $\frac{5.5}{\text{kW}}$



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

PERFORMANCE CURVES AND SPECS



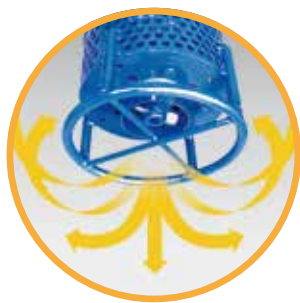
Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Standard	Max.	Solid Passage mm(inch)	Weight kg(lb)	
					ft-GPM	ft-GPM		1Ø	3Ø
1 50HD21.5	2(1.5)	2" (50)	1	Capacitor	54.1-66	75.5-145	10(3/8")	40(88)	36(79)
			3	DOL					
2 50HD22.2	3(2.2)	2" (50)	1	Capacitor	67.3-80	93.5-172	10(3/8")	44(97)	39(86)
			3	DOL					
3 50HD23.7	5(3.7)	2" (50)	3	DOL	96.8-80	118.1-212	10(3/8")	-	44(97)
4 80HD21.5	2(1.5)	3" (80)	1	Capacitor	32.8-132	64-238	10(3/8")	40(88)	36(79)
			3	DOL					
5 80HD22.2	3(2.2)	3" (80)	1	Capacitor	49.2-132	75.5-278	10(3/8")	44(97)	39(86)
			3	DOL					
6 80HD23.7	5(3.7)	3" (80)	3	DOL	73.8-132	105-290	10(3/8")	-	44(97)
7 100HD23.7	5(3.7)	4" (100)	3	DOL	42.7-264	82-420	10(3/8")	-	44(97)
8 80HD25.5	7.5(5.5)	3" (80)	3	DOL	98.4-132	131.2-345	10(3/8")	-	69(152)
9 100HD25.5	7.5(5.5)	4" (100)	3	DOL	65.6-264	105-530	10(3/8")	-	71(157)
10 100HD27.5	10(7.5)	4" (100)	3	DOL	85.3-264	131.2-475	10(3/8")	-	79(174)
11 150HD27.5	10(7.5)	6" (150)	3	DOL	55.8-395	91.9-700	10(3/8")	-	81(179)
12 100HD211	15(11)	4" (100)	3	DOL	121.4-264	177.2-450	10(3/8")	-	124(273)
13 100HD215	20(15)	4" (100)	3	DOL	150.9-264	210-475	10(3/8")	-	133(293)
14 150HD215	20(15)	6" (150)	3	DOL	114.8-395	190.3-605	10(3/8")	-	132(291)

※ Excludes Cable & Outlet Weight.

HDG Series

SUBMERSIBLE SLURRY DEWATERING PUMPS

- 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, 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.



Agitator

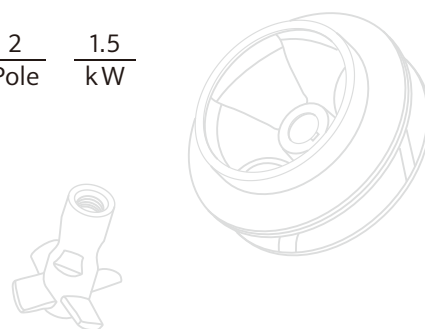


SPECIFICATIONS

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Motor	2P (3600rpm) • Dry Motor
Insulation	Class F • Class H
Protection	IP68
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Outer Cover	SUS304 / AISI 304
Upper Cover	FC200 / ASTM-30
Motor Frame	FC200 / ASTM-30
Shaft	SUS403 / ASTM 403 • SUS304 / AISI 304
M.seal	CA/CE & SiC/SiC
Casing	FC200 / ASTM-30
Impeller	HiCrFC
Wear plate	HiCrFC (For Open)
Wear ring	HiCrFC (For Close)
Agitator	FCD700 / Gr.100-70-03
Cable	VCT or SJOW/SOW

PRODUCT NOMENCLATURE

$\frac{80}{\text{Discharge mm}}$
 $\frac{\text{HDG}}{\text{Type}}$
 $\frac{2}{\text{Pole}}$
 $\frac{1.5}{\text{kW}}$

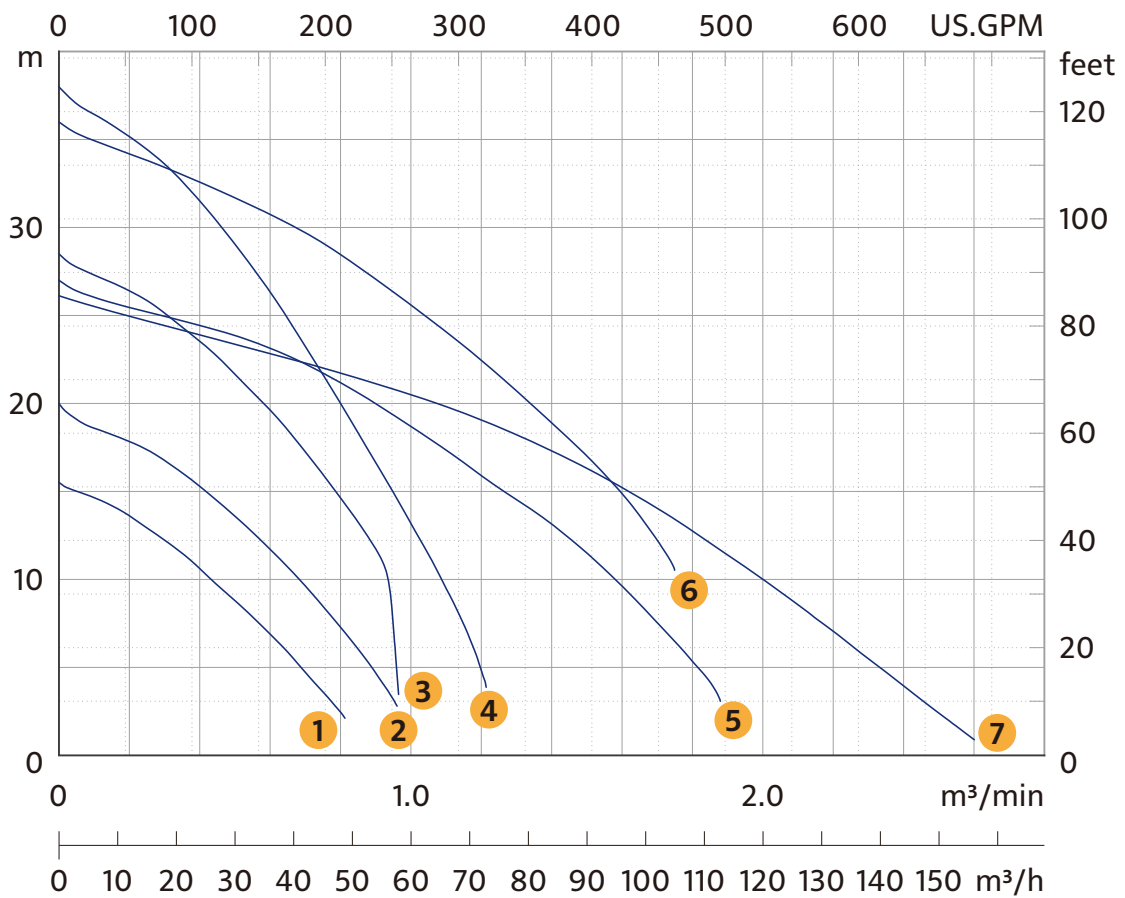


APPLICATIONS

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PERFORMANCE CURVES AND SPECS

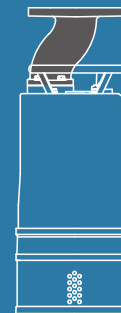


Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Standard	Max.	Solid Passage mm(inch)	Weight kg(lb)	
					ft-GPM	ft-GPM		1Ø	3Ø
1 80HDG21.5	2(1.5)	3" (80)	1	Capacitor	26.2-132	50.9-225	10(3/8")	41(90)	36(79)
2 80HDG22.2	3(2.2)	3" (80)	3	DOL					
3 80HDG23.7	5(3.7)	3" (80)	1	Capacitor	44.3-132	65.6-264	10(3/8")	45(99)	39(86)
4 80HDG25.5	7.5(5.5)	3" (80)	3	DOL					
5 100HDG25.5	7.5(5.5)	4" (100)	3	DOL	68.9-132	93.5-290	10(3/8")	-	45(99)
6 100HDG27.5	10(7.5)	4" (100)	3	DOL	95.1-132	124.7-315	10(3/8")	-	70(154)
7 150HDG27.5	10(7.5)	4" (100)	3	DOL	59.1-264	88.6-450	10(3/8")	-	72(159)
					82-264	118.1-460	10(3/8")	-	80(176)
					52.5-395	85.3-685	10(3/8")	-	82(181)

※ Excludes Cable & Outlet Weight.

ACCESSORIES: LOC CENTER LINE FLANGE

Pumps require center align could adapt with LOC sets, which can prevent center of gravity (CG) swift under pipe connection, keep dewatering in alignment with pipe arrangement.



LOH
Type

4
Discharge

—

98
PCD

LOF
Type

4
Discharge

—

175 – 190
PCD
(upper flange)

*

98
PCD
(lower flange)

OPTIONAL OUTLET SET

Output HP(kW)	Discharge inch(mm)	Lower PCD*Holes	LOH Hose Connection	LOT Male Thread Connection	LOF Flange Connection
					
2(1.5)~5(3.7)	2"(50)	98*4	LOH2-98	LOT2-98	LOF2-120-125*98
	3"(80)	98*4	LOH3-98	LOT3-98	LOF3-150-160*98
	4"(100)	98*4	LOH4-98	LOT4-98	LOF4-175-190*98
7.5(5.5)~10(7.5)	3"(80)	127*4	LOH3-127	LOT3-127	LOF3-150-160*127
	4"(100)	127*4	LOH4-127	LOT4-127	LOF4-175-190*127
	6"(150)	127*4	LOH6-127	LOT6-127	LOF6-240*127
15(11)~20(15)	4"(100)	145*4	LOH4-145	LOT4-145	-
	6"(150)	145*4	LOH6-145	LOT6-145	-

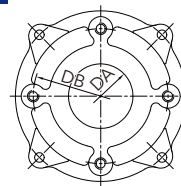
Output HP(kW)	Discharge inch(mm)	Lower PCD*Holes	LKF Double Flange Set	LOC Center Line Flange	LEB Elbow Sets (HD)
					
2(1.5)~5(3.7)	2"(50)	98*4	LKF2-120*98	-	LEBX-98
	3"(80)	98*4	LKF3-150*98	LOC3-150*98	LEBX-98
	4"(100)	98*4	LKF4-175*98	-	LEBX-98
7.5(5.5)~10(7.5)	3"(80)	127*4	LKF3-150*127	LOC3-150*127	-
	4"(100)	127*4	LKF4-175*127	-	-
	6"(150)	127*4	LKF6-240*127	-	-
15(11)~20(15)	4"(100)	145*4	-	LOC4-175*145	-
	6"(150)	145*4	-	LOC6-240*145	-



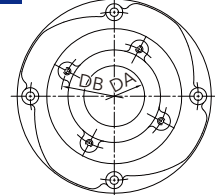
ACCESSORIES : ADAPTER

ADTC (Adapter Connection) Pump model, can be applied with flange type adapter or check valve is an optional accessory for groundwater, deep well or wellpoint dewatering applications.

a



b



Adapter Connection (ADTC)

Optional ADTC (adapter Connection) Casing

Figure	Model	mm		Bolt Size	Screw Number
		DA	DB		
a	80HD21.5/22.2/23.7	67	140	M12*25L	4
a	100HD23.7	80	150	M12*25L	4
a	100HD25.5/27.5	87	150	M12*25L	4
a	150HD27.5	97	175	M12*25L	4
b	100HD211/215	100	175	M12*30L	4
b	150HD215	100	175	M12*30L	4



PRODUCT FEATURES



1 Epoxy Cable Base

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



2 Auto-cut Protector

Automatic On / Off motor protector to prevent motor burn out due to high temperature and excess amperage draw.



3 High Efficiency Dry Motors

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



4 Double Mechanical Seals

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



Close Impeller



Open Impeller



Professionalism · Innovation · Service · Commitment
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DHDEN6-2509



YouTube



Selection
system



Catalog