

Dewatering Pump Handbook

AN / IC/LH / GD/HD/HDG/BD Series 50 & 60Hz

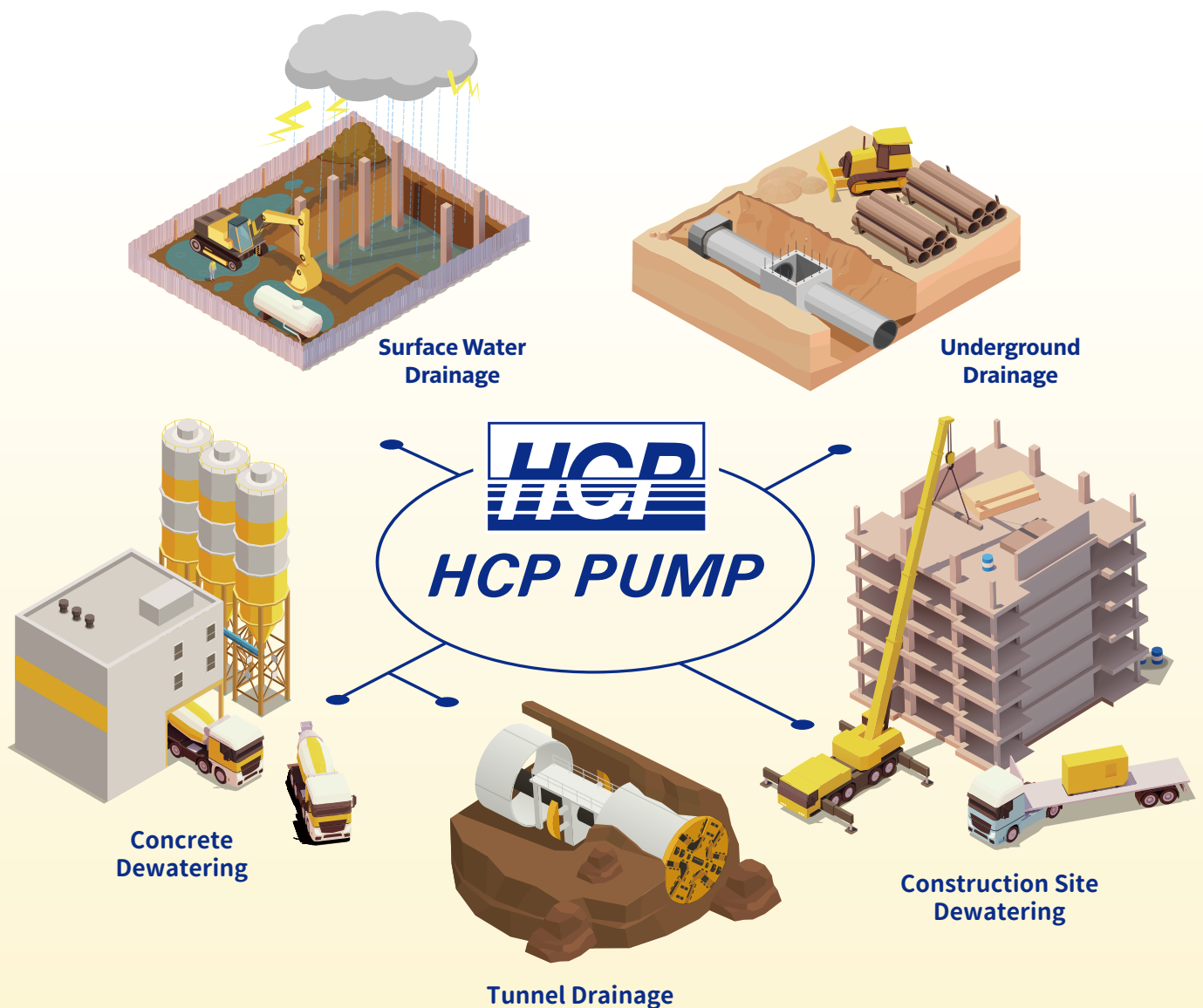
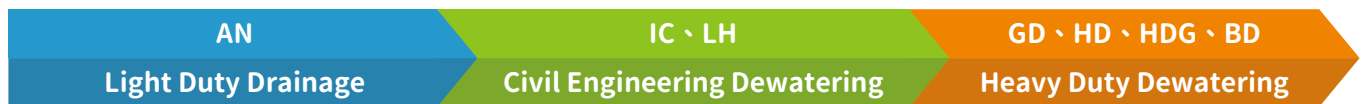


HCP PUMP

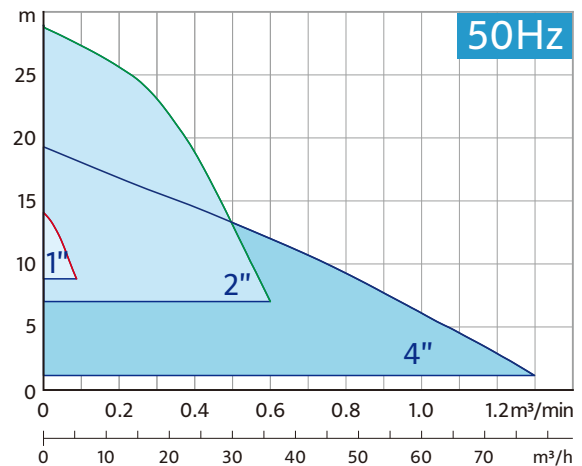
Reliable Water Solutions, Trusted On-Site Partnership

HCP PUMP products are designed for a wide range of applications, including civil engineering, construction site dewatering, tunnel drainage, and wellpoint and deep well dewatering. Whether on busy construction sites or complex tunnel projects, HCP PUMP delivers exceptional efficiency and durability to tackle every drainage challenge and ensure smooth project progress.

HCP PUMP offers years of expertise and a comprehensive after-sales service network. This includes custom production, timely delivery, installation, technical support, and customer service, ensuring you can confidently rely on our products, with HCP PUMP as your trusted partner in every project.

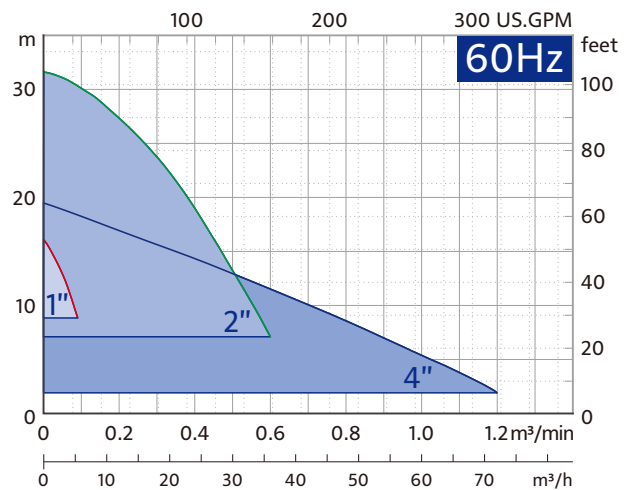


Submersible Wastewater Sump Pumps



FEATURES

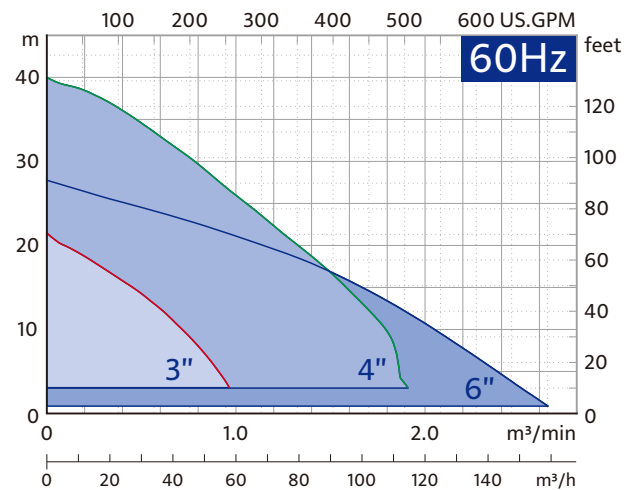
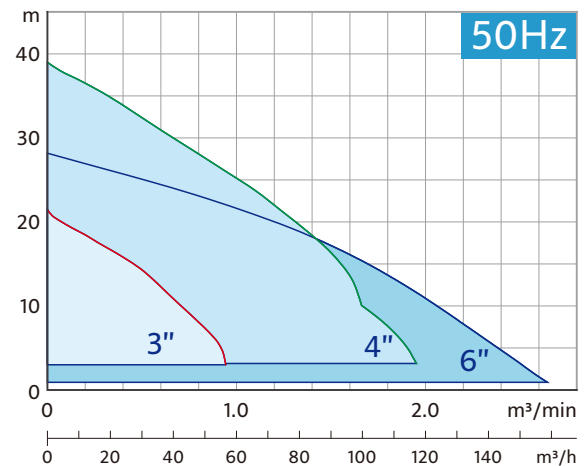
- Lightweight and portable, with strainers designed to block foreign matter.
- Equipped with an optional float switch for automatic operation, starts when the water level rises and stops when it lowers.
- AN-2.5M features an oil-filled motor with a single mechanical seal.
- Hose Kit is compatible with AN series (2"), making it ideal for flood emergencies.
- The impellers for AN-22 and AN-23 can be upgraded with heat treatment, enhancing hardness and wear resistance to extend service life.



Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	50Hz		60Hz	
				Standard	Max.	Standard	Max.
				m-m³/min		ft-GPM	
AN-2.3	1/3(0.25)	2" (50)	1Ø	4.5-0.14	7.5-0.21	-	-
AN-2.5M	0.5(0.4)	2" (50)	1Ø	8-0.12	12-0.22	26.2-32	41-55
AN-2.5MR	0.5(0.4)	1" (25)	1Ø	10-0.07	14-0.09	36.1-18	52.5-24
		2" (50)		8-0.1	14-0.15	27.9-26	52.5-40
AN-2.5	0.5(0.4)	2" (50)	1Ø / 3Ø	6.5-0.16	11-0.26	21.3-42	36.1-66
AN-21A	1(0.75)	2" (50)	1Ø / 3Ø	10-0.17	14.5-0.33	34.5-45	52.5-88
AN-21.5H	1.5 (1.1)	2" (50)	1Ø / 3Ø	14.5-0.17	21-0.33	46-45	72-88
AN-22	2 (1.5)	2" (50)	1Ø / 3Ø	18.5-0.25	24-0.55	59.1-66	80.4-132
AN-23	3(2.2)	2" (50)	1Ø / 3Ø	23.5-0.3	29.5-0.65	75.5-80	101.7-158
AN-43	3 (2.2)	4" (100)	1Ø / 3Ø	10.5-0.7	19.5-1.3	36.1-185	67.3-345



Submersible Dewatering Pumps



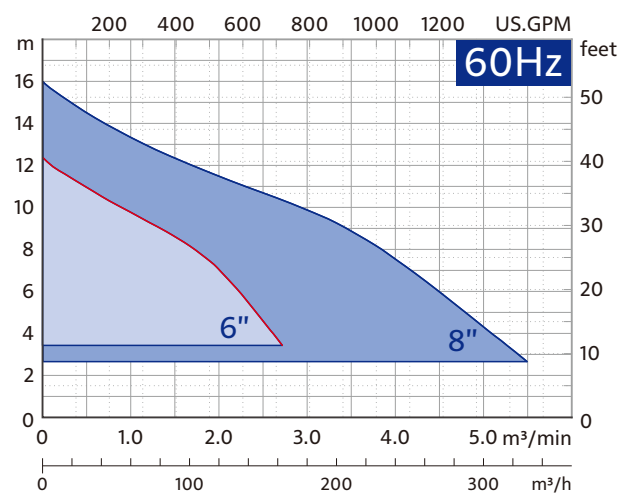
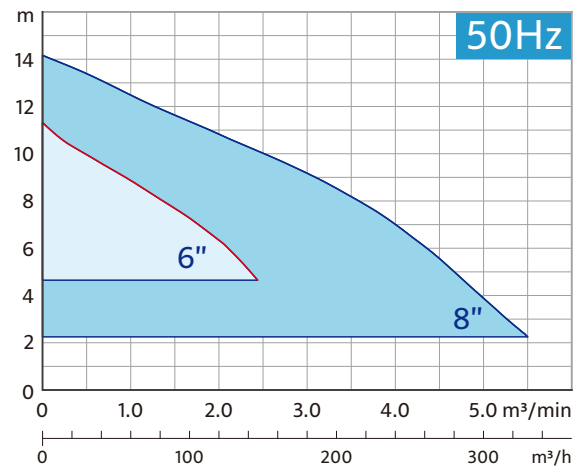
FEATURES

- High efficient water-cooled motor ensures energy saving in continuous/ intermittent operation.
- Dry motor, Auto-cut motor protector, double mechanical seals, and oil seal design.
- Internal casing treated with high solids epoxy coating to improve anti-corrosion resistance and extend product life.
- High efficient chrome steel impeller design (2~10HP) with HRC 30~35 Rockwell Hardness allows high head performance and large ow application and to stand water abrasion and corrosion.
- Optional ADTC (Adapter Connection) casing cover to connect suction with inline pipe, allowing surface/inline/deep well pumping up to 8m deep.

Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	50Hz		60Hz	
				Standard	Max.	Standard	Max.
				m-m³/min		ft-GPM	
IC-32B	2(1.5)	3" (80)	1Ø / 3Ø	9.5-0.5	16.5-0.9	31.2-132	62.3-238
IC-33B	3(2.2)	3" (80)	1Ø / 3Ø	14-0.5	21.5-1.0	45.9-132	70.5-264
IC-43B	3(2.2)	3" (80) \ 3.5" (90) 4" (100)	1Ø / 3Ø	9.5-0.8	17-1.3	31.2-212	60.7-355
IC-45B	5(3.7)	3.5" (90) \ 4" (100)	3Ø	13-1.0	22-1.7	42.7-264	78.7-425
IC-46B	6(4.5)	3.5" (90) \ 4" (100)	3Ø	-	-	51-264	82-475
IC-48	7.5(5.5)	4" (100)	3Ø	19-1.0	29-2.0	65.6-264	105-530
IC-68	7.5(5.5)	6" (150)	3Ø	12-1.5	25-2.4	-	-
IC-410	10(7.5)	4" (100)	3Ø	25.5-1.0	38-1.85	85.3-264	131.2-475
IC-610	10(7.5)	6" (150)	3Ø	17-1.5	28-2.65	55.8-395	91.9-700



Large Volume Pumps



FEATURES

- LH High-efficient impeller provides best energy saving for handling high head and long distance pumping applications.
- Double outer casing, water cooling motor for continuous duty, and low water level conditions.
- High efficient chrome steel impeller design with HRC 30~35 Rockwell Hardness, cast iron casing with heat treatment, chrome steel wear plate allow pump to stand abrasive and corrosive applications.
- Sacrificial Anode prolongs pump life in brine environment.
- Optional ADTC (Adapter Connection) Casing to connect suction with inline pipe allows surface /inline/deep well pumping.

Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	50Hz		60Hz	
				Standard	Max.	Standard	Max.
				m-m³/min		ft-GPM	
LH-65	5(3.7)	6" (150)	3Ø	6-2.0	11-3.2	21.3-530	39.4-820
LH-88	8(6.0)	8" (200)	3Ø	5-3.5	11.5-4.7	18-950	42.7-1280
LH-812	12(9.0)	8" (200)	3Ø	7-4.0	14-5.5	23-1060	52.5-1450

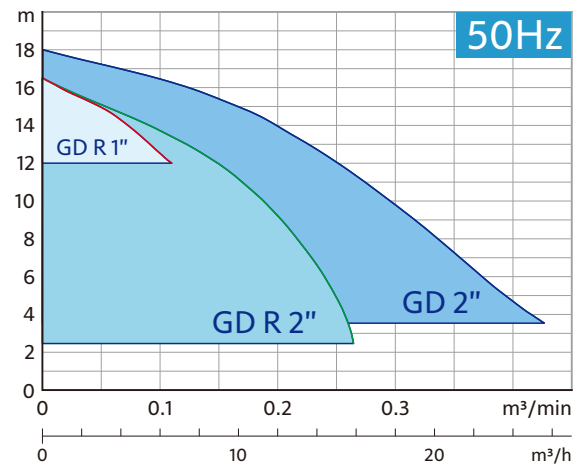


Lightweight Construction Pumps



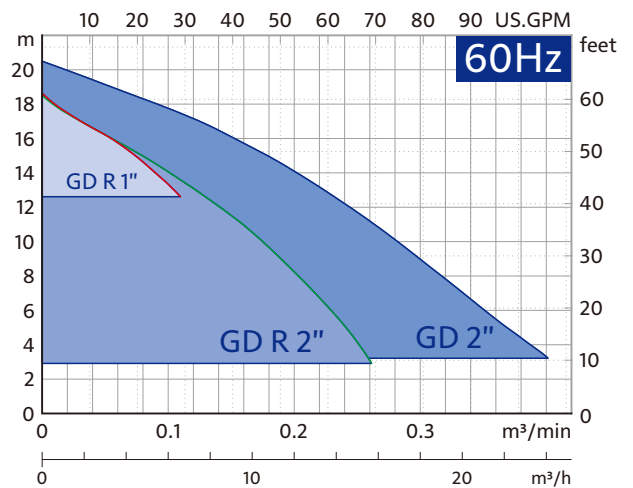
GD

GD R



FEATURES

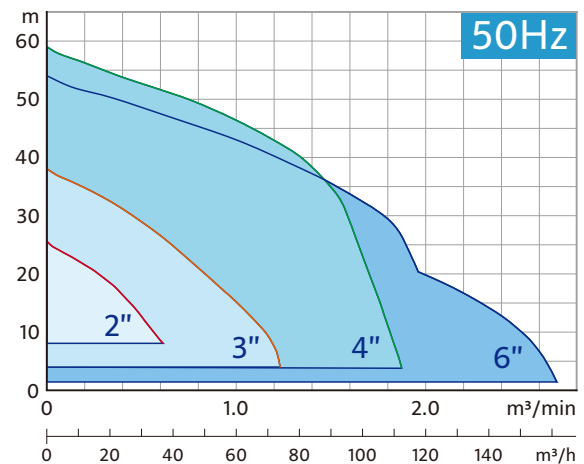
- Lightweight, portability and durability, aluminum motor frame and seal bracket, water-cooling motor, exchangeable vertical and horizontal discharges that provides adaptability and flexibility in installations.
- GD-1100: Motor frame features a sturdy 3.2mm iron plate thickness, enhancing its impact resistance and minimizing the risk of deformation.
- GD R type: Equipped with water cooling motor with rubber suction pads for residual removal as low as 1mm (0.39"). Start up at water level of 5mm.
- GD-400A/750A Optional: built-in ON/OFF floating (F) or vertical floating (FV) for automatic pump down and pump applications.



Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	50Hz		60Hz	
				Standard	Max.	Standard	Max.
				m-m³/min		ft-GPM	
GD-400A	0.5(0.4)	2" (50)	1Ø	8-0.12	11.5-0.23	27.9-32	41-60
GD-750A	1(0.75)	2" (50)	1Ø	11-0.16	15.5-0.32	37.7-42	56-74
GD-1100	1.5(1.1)	2" (50)	1Ø / 3Ø	13.5-0.2	18-0.43	45.9-52	67.3-106
GD-400AR	0.5(0.4)	1" (25)	1Ø	9.5-0.07	12.5-0.09	34.5-18	47.6-24
		2" (50)		8-0.12	12.5-0.22	27.9-32	47.6-58
GD-750AR	1(0.75)	1" (25)	1Ø	14-0.07	16.5-0.11	49.2-18	60.7-30
		2" (50)		11-0.17	16.5-0.26	37.7-42	60.7-68

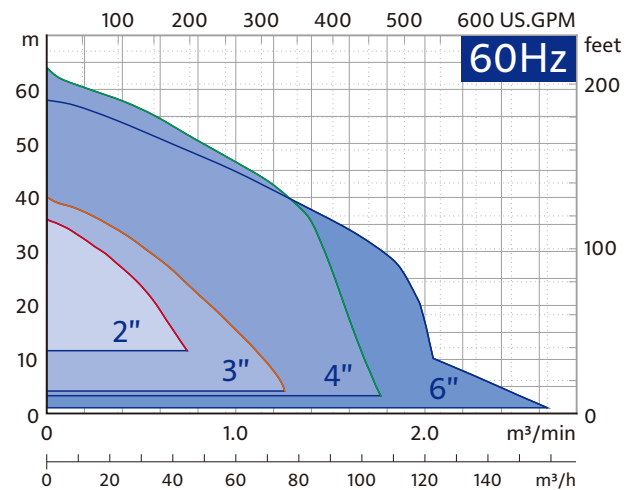


Dewatering Pumps



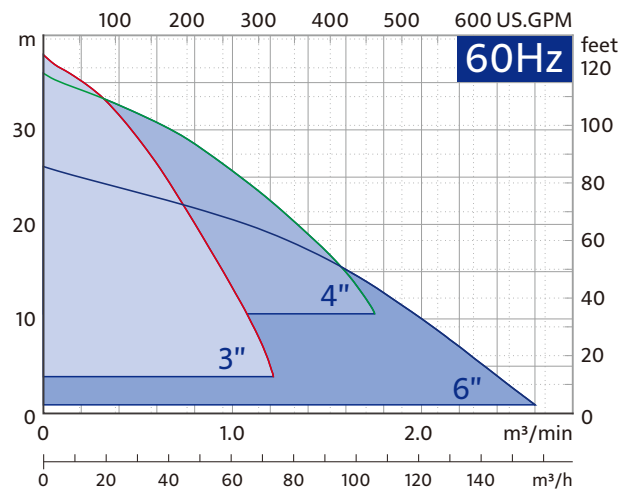
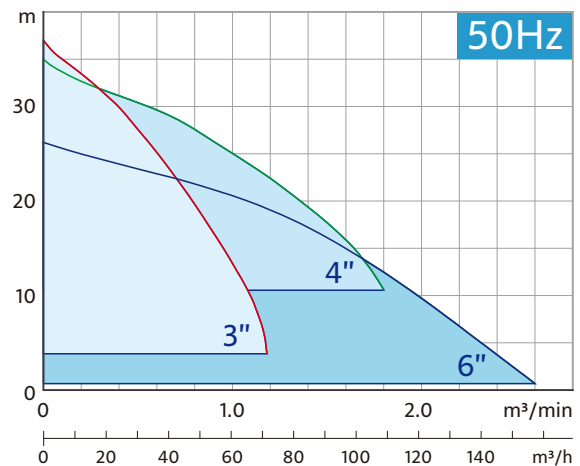
FEATURES

- Compact, robust and easy handling for all construction and civil engineering dewatering application conditions.
- High efficient special impeller design in High Chrome Alloy steel (HiCrFC), with a hardness of 55~60 Rockwell, to stand high abrasive applications.
- For the HD 15~20HP models, the mechanical seal bracket is coated with EPDM to enhance anti-abrasive wear.
- Optional ADTC (Adapter Connection) Casing to connect suction with inline pipe, allowing surface/ inline/deep well pumping.



Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	50Hz		60Hz	
				Standard	Max.	Standard	Max.
				m-m³/min		ft-GPM	
50HD21.5	2(1.5)	2" (50)	1Ø / 3Ø	15-0.25	21.5-0.55	54.1-66	75.5-145
50HD22.2	3(2.2)	2" (50)	1Ø / 3Ø	19-0.3	25.5-0.65	67.3-80	93.5-172
50HD23.7	5(3.7)	2" (50)	3Ø	-	-	96.8-80	118.1-212
80HD21.5	2(1.5)	3" (80)	1Ø / 3Ø	10-0.5	17-0.9	32.8-132	64-238
80HD22.2	3(2.2)	3" (80)	1Ø / 3Ø	14-0.5	22.5-1.0	49.2-132	75.5-275
80HD23.7	5(3.7)	3" (80)	3Ø	22-0.5	29-1.2	73.8-132	105-290
100HD23.7	5(3.7)	4" (100)	3Ø	13-1.0	23-1.65	42.7-264	82-425
80HD25.5	7.5(5.5)	3" (80)	3Ø	28-0.5	38-1.3	98.4-132	131.2-345
100HD25.5	7.5(5.5)	4" (100)	3Ø	19-1.0	29-2.0	65.6-264	105-530
150HD25.5	7.5(5.5)	6" (150)	3Ø	12-1.5	25-2.4	-	-
100HD27.5	10(7.5)	4" (100)	3Ø	25.5-1.0	38-1.85	85.3-264	131.2-475
150HD27.5	10(7.5)	6" (150)	3Ø	17-1.5	28-2.65	55.8-395	91.9-700
100HD211	15(11)	4" (100)	3Ø	36-1.0	50-1.8	121.4-264	177.2-450
100HD215	20(15)	4" (100)	3Ø	46-1.0	59-1.9	150.9-264	210-475
150HD211	15(11)	6" (150)	3Ø	26.5-1.5	44-2.7	-	-
150HD215	20(15)	6" (150)	3Ø	35-1.5	54-2.4	114.8-395	190.3-605

Slurry Dewatering Pumps



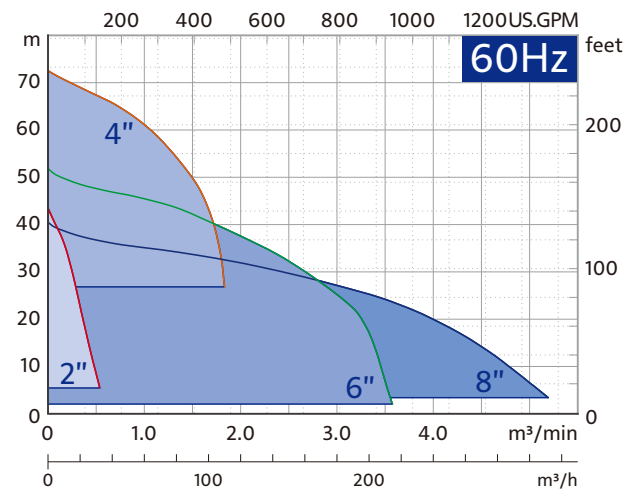
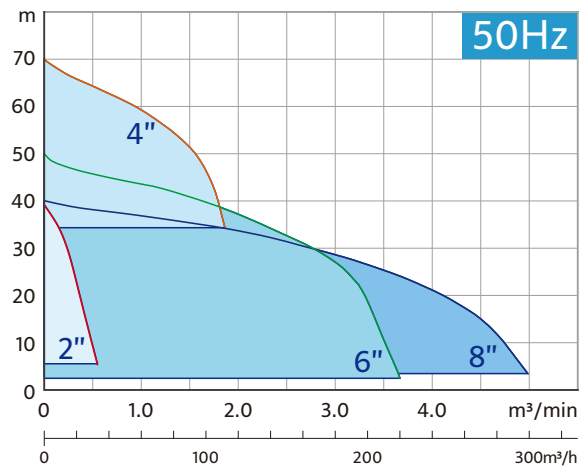
FEATURES

- 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.
- Optimizing HDG series designed with hardened ductile cast iron (FCD-700) agitator, for maximum stirring and pump action for slurry applications.

Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	50Hz		60Hz	
				Standard	Max.	Standard	Max.
				m-m³/min		ft-GPM	
80HDG21.5	2(1.5)	3" (80)	1Ø / 3Ø	9-0.5	15-0.9	26.2-132	50.9-225
80HDG22.2	3(2.2)	3" (80)	1Ø / 3Ø	13-0.5	20-0.95	44.3-132	65.6-264
80HDG23.7	5(3.7)	3" (80)	3Ø	21-0.5	26.5-1.2	68.9-132	93.5-290
80HDG25.5	7.5(5.5)	3" (80)	3Ø	27-0.5	37-1.2	95.1-132	124.7-315
100HDG25.5	7.5(5.5)	4" (100)	3Ø	18-1.0	25-1.9	59.1-264	88.6-500
150HDG25.5	7.5(5.5)	6" (150)	3Ø	11-1.5	22-2.3	-	-
100HDG27.5	10(7.5)	4" (100)	3Ø	24.5-1.0	35-1.8	82-264	118.1-460
150HDG27.5	10(7.5)	6" (150)	3Ø	16-1.5	26-2.6	52.5-395	85.3-685



Submersible Dewatering Pumps



FEATURES

- The mechanical seal bracket is covered by EPDM with anti-abrasive wear. The casing is heat-treated nodular cast iron (FCD500) and the wear plate is made of high chrome alloy steel (HiCrFC) to resist the intensive abrasiveness of sand and gravel.
- BD-SH series: Suitable for use in narrow spaces, such as 8-inch diameter pipes, The dual impeller design provides double the pumping head compared to a single impeller pump, making it ideal for high-head applications including construction dewatering, deep well water supply, and mine drainage.
- Optional ADTC (Adapter Connection) Casing to connect suction with inline pipe, allowing surface/ inline/deep well pumping.

Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	50Hz		60Hz	
				Standard	Max.	Standard	Max.
				m-m³/min		ft-GPM	
100BD222	30(22)	4" (100)	3Ø	59-1.0	70-2.1	200.1-264	237.9-530
150BD222	30(22)	6" (150)	3Ø	37-2.0	50-3.7	121.4-530	170.6-950
150(200)BD222	30(22)	6" (150)	3Ø	33-2.0	40-5.0	103.4-530	132.9-1370
		8" (200)		20.5-4.0	40-5.0	65.6-1060	132.9-1370
50BD23.0SH	4(3.0)	2" (50)	3Ø	32-0.2	39-0.55	108.3-52	141.1-140



Compatible with multiple accessories for installation.



Hose Kit

Applicable Models:
AN 2" 0.5~3HP / GD 0.5~1HP

The hose features a total length of 10 meters, and an angled outlet discharge prevents overbending, ensuring smooth drainage. The set includes the hose, outlets, screws, and other essential components, offering a complete solution for rapid emergency dewatering. The PRO Kit features Storz connection to ensure simple, secure, providing ease of mobility and storage.



External Float Control Set

Applicable Models:
AN / IC / GD / HD Series

The mechanical ball inside the float switch design replaces the mercury float switch, reducing pollution and ensuring precise control capability. The cable is reinforced with epoxy for waterproof protection, and the core wire is treated with epoxy resin to prevent moisture entry, meeting leakage and moisture resistance requirements.



ADTC Flange Adapter

Applicable Models:
Top discharge models

This range of pumps supports the ADTC (Adapter Connection) flange adapter. With this accessory, the pump can be installed on land for ground water transfer applications.

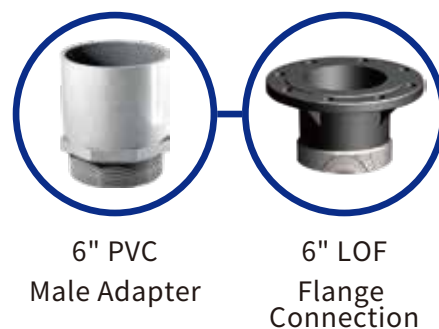
**Outlet options range from 2" to 8",
providing flexibility for various site applications.**



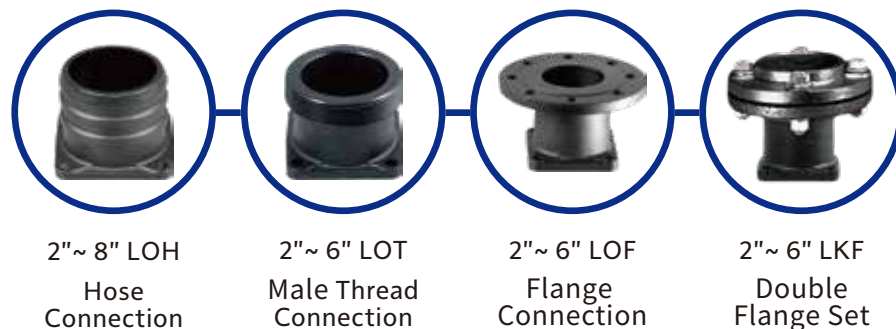
Applicable Models:
IC-32B~46B



Applicable Models:
LH-65



Applicable Models:
IC-48~610, GD-1100, HD Series, HDG Series, BD Series



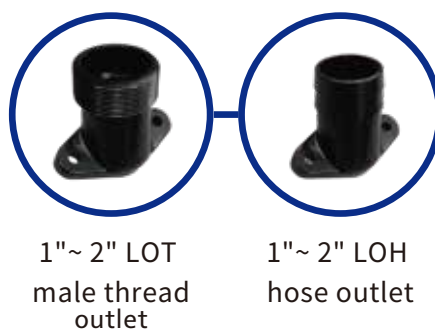
Applicable Models:
HD Series, HDG Series, BD Series



Applicable Models:
AN Series



Applicable Models:
GD-400~750A(R) 、 AN2.5M(R)



Applicable Models:
LH-88~812





„ make future flow „

HCP aims to lead the industry in pump technology by driving business growth,
creating value for customers, and promoting the sustainable circulation of
water resources to contribute to a better future for humanity.



Professionalism · Innovation · Service · Commitment
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Selection
system



Catalog