

GD series 50Hz

Submersible Grinder Pump

STAIRS GD series Submersible Sewage / Effluent Pumps are designed for commercial and industrial wastewater transferring and dewatering applications.







STAIRS INDUSTRIAL CO., LTD.



Index

50/60Hz



STAIRS GD series Submersible Sewage / Effluent
Pumps are designed for commercial and industrial
wastewater transferring and dewatering applications.

The innovative vortex impeller design reduces the risk of clogging problem. Moreover, STAIRS GD series include a stainless steel motor frame to prevent corrosion and are designed to provide great heat dissipation from the motor, ensuring a long service life.

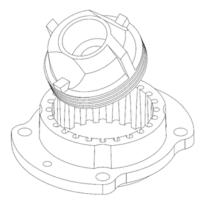
As with STAIRS pump, each one is 100% tested to ensure quality and reliability for years of trouble-free performance.



GD series

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Model Code GD 15 E M A 30 Discharge size A = Float switch M = Single Phase T = Three Phase E = Elbow Power (HP)

Series name

Material and standard table

		Caiil	per	32mm • 50mm				
Liquid	Tem	pera	ture	0°C~40°(32°F~104°F)				
uid	The	lowe	st depth	▽30M				
		Imp	eller	Centrifugal Vortex Impeller				
		Upp	er Cover	FC200				
		Bra	cket	FC200				
		Bea	aring	FC200				
		Imp	eller	FC250				
_	3	Vol	ute Casing	FC200				
Pump	Material	Mot	or Brackat	FC200				
0	ial	M.S	Seal Bracket	FC200				
		Rac	dial Cutter	SUS440C				
		Rac	dial Ring	SUS440C				
		7	Lubricant	ISO VG#32				
		M.Seal	Motor Side	Carbon / Ceramic				
		<u>a</u>	Pump Side	Silicon Carbide				
	Туре			Submersible dry type				
	Pump			Protection Class: IP 68.				
-	Insulation Class			F class(155°C)				
Motor	Inner Protector			Auto Reset Motor Protector				
	<u></u>	Cas	sing	FC200				
	Msterial	Mai	in Shaft	SUS410				
	<u>a</u>	Cab	ole	Standard H07				

Applications

- General household use, Drainage systems for Buildings, Apartments, Resorts and Wastewater systems. Waste water drainage.
- Materials such as leather, textile fibres, food and other tougher objects can be pumped.
- Wastewater systems for Domestic, Commercial, Industrial, Municipal, Schools, Hospitals and many other uses.
- Sewage and Drainage systems.

Advantages

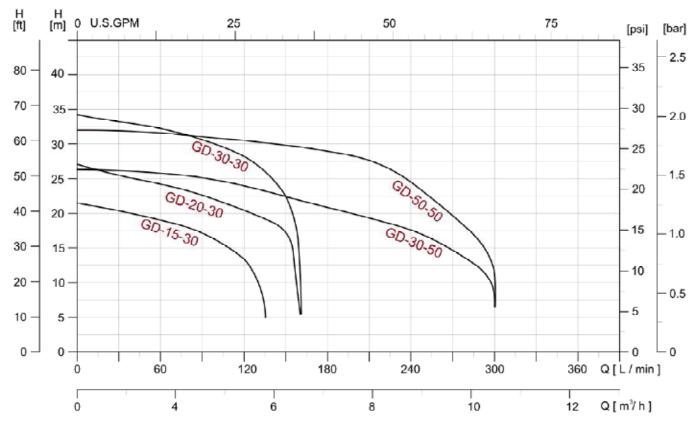
- Robust construction.
- Superior Heat Dissipation.
- Effectively combine various foreign body grinding
- The grater knife/ring is made of SUS440C material,
 The hardness reaches HRC 55-60 degrees, and the high hardness material is resistant to wear and tear.





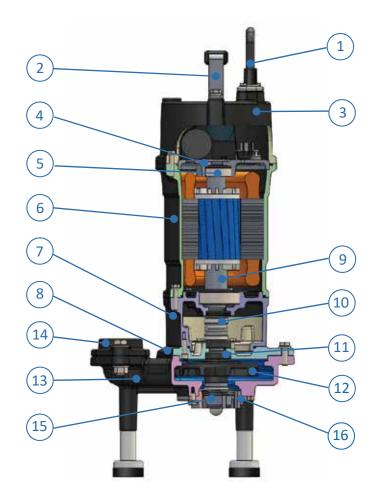


Performance Curves



Material

NO.	Component	Material
1	Cable	H07RN-F
2	Handle	AISI304+NBR
3	Motor cover	FC200
4	Bearing cap	FC200
5	Bearing	
6	Motor frame	FC200
7	Bearing Bracket	FC200
8	M.Seal Bracket	FC200
9	Motor Shaft	AISI 410
10	Mechanical seal	CA / CE, SIC/SIC
11	Oil Seal	NBR70
12	Impeller	FC250
13	Pump casing	FC200
14	Flange	FC200
15	Radidl cutter	AISI 440C
16	Cutter ring	AISI 440C







Technical Data

Single Phase

Model	Power		Nominal Current [A]	Discharge	Head		Flow		Cable	Weight
Wodor	HP	kw	220-230V	[inch]	Rated. (M)	Max. (M)	Rated. (L/min)	Max. (L/min)	[M]	[kg]
GD-15 M(A)30	1.5	1.1	6.6-6.4	1 1/4"	16	21	60	140	10	27
GD-20 M(A)30	2	1.5	10.4-10.0	1 1/4"	24	26	60	170	10	36

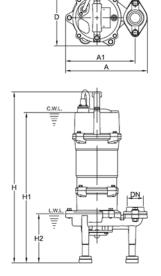
[·] A = Auto Float Switch

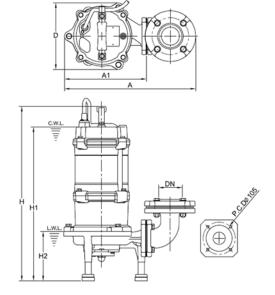
Three Phase

Model	Power		Nominal Current [A]		Discharge	Head		Flow		Cable	Weight
Model	HP	kw	230V	380~415V	[inch]	Rated (M)	Max (M)	Rated (L/min)	Max. (L/min)	[M]	[kg]
GD-15 T30	1.5	1.1	4.2	2.4-2.3	1 1/4"	16	21	60	140	10	25
GD-20 T30	2	1.5	6.1	3.6-3.4	1 1/4"	24	26	60	170	10	32
GD-30 T30	3	2.2	8.6	5.1-4.8	1 1/4"	32	34	60	170	10	35
GD-30E T50	3	2.2	9.5	5.6-5.2	2"	20	25	200	300	10	44
GD-50E T50	5	3.7	14.0	8.2-7.7	2"	31.5	27	200	300	10	47

Dimensions

Model	Phase		DN					
inodo.	1 11400	А	A1	D	Н	H1	H2	(mm)
GD-15-30	1	267	228	96	558	491	159	32
	3				528	461	159	
GD-20-30	1	290	251	96	605	538	159	32
	3				550	483	159	
GD-30-30	3	290	251	96	550	483	159	32
GD-30E-50	3	428	268	215	569	502	237	50
GD-50E-50	3	428	268	215	589	522	237	50







STAIRS

Guide Rail System



SPECIFICATION

Model	Guide Rail	DN (mm)	Dimensions H4(mm)
GD-15-30	TS-32	32	36
GD-20-30	TS-32	32	34
GD-30-30	TS-32	32	34
GD-30E-50	TG-50	50	88
GD-50E-50	TG-50	50	88

The Guide Rail System is also known as the auto coupling system. The auto coupling is fixed to the bottom of the sump,pit or chamber.

Pump can be lowered into the chamber on dual guide rails and automatically conneted to the elbow of auto coupling system.

The punp can be automatically discounted from the auto coupling system elbow when the pump is raised.

The pump can be raised and lowered in a short time without emptying the chamber and without entering the chamber for dioounting the pump.

Through auto coupling system, technician can easily and safely perform the repair anf maintenances of pump.

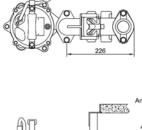
The operation of entire system can be continued if the additional spare submersible pumps are inatalled and operated the servicing of the major pump units

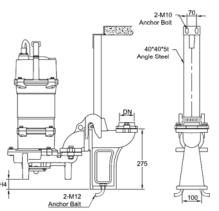
Guide Rail System

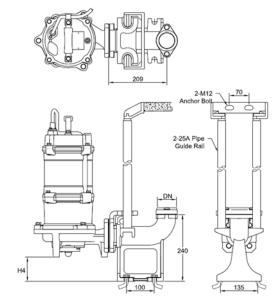
GD Series with pump stool and guide rail system make it easy for removal, dismantling, repair and maintenance of Pumps, Motors, Float switches etc.

ATTENTION

The GD Lifting device option is not included in the price of Pumps and may be purchased separately.











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