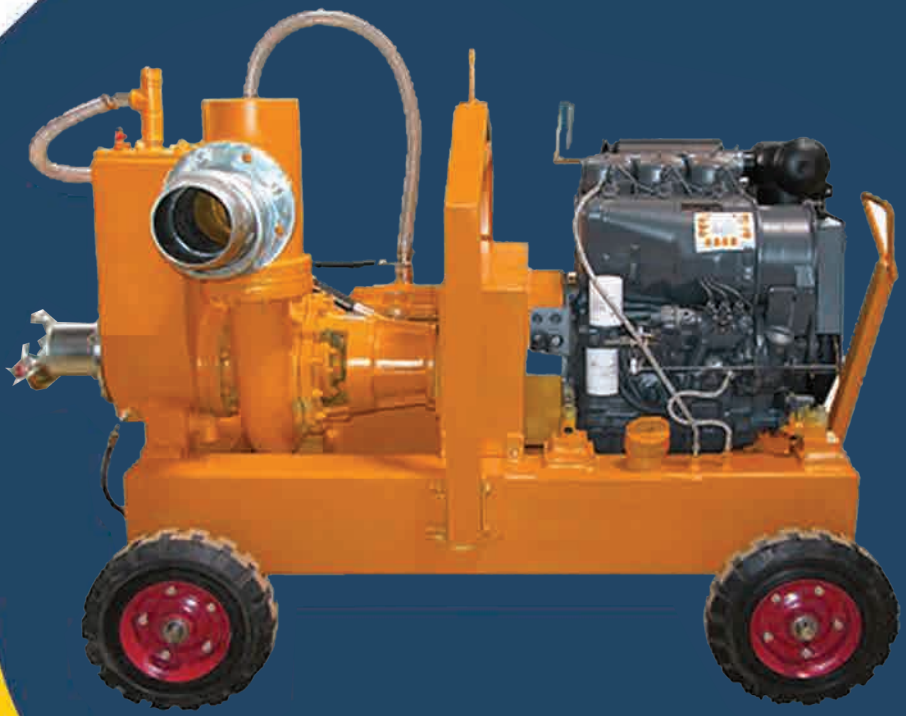
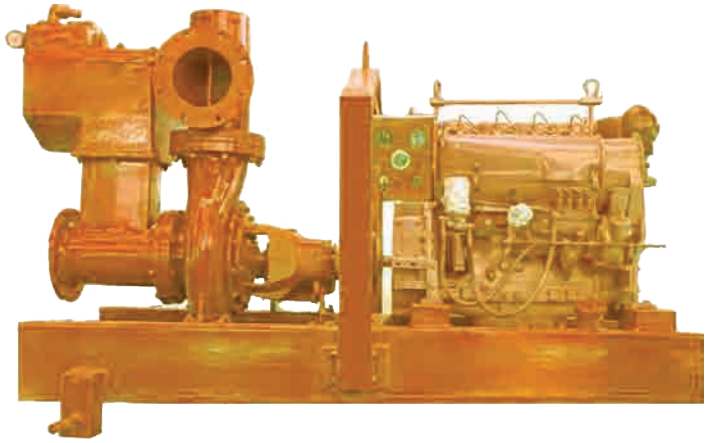
DEWATERING PUMPS

CORO - TUFF



- Auto prime Technology
- High Flow
- High Head
- 50 mm Solid Handling
- Self Priming

These pumps are suitable for Self priming dewatering, over pumping sewage, drainage pumping, irrigation and chiller plants. The suction and discharge is 200 x 200 mm with closed type impeller with mechanical seal. (Open type impeller also available). These are available with Centrifugal, priming Tank is made of Mild Steel/ Stainless Steel (Aluminium also available) and the internal parts are of Teflon, Stainless steel which increase the life and efficiency of the pump.
Volute Casing is cast iron (Stainless Steel also available) and it is designed in such a way that the shape helps to give better discharge. Shaft, Impeller, Stuffing box and all other internal parts are made by stainless steel.



We are manufacturing pumps as per the demand of the customer requirements: Open Impeller pumps, Electric motor driven pumps, with 2/4 wheel types, skid mounted types and MOC according to customer requirements.

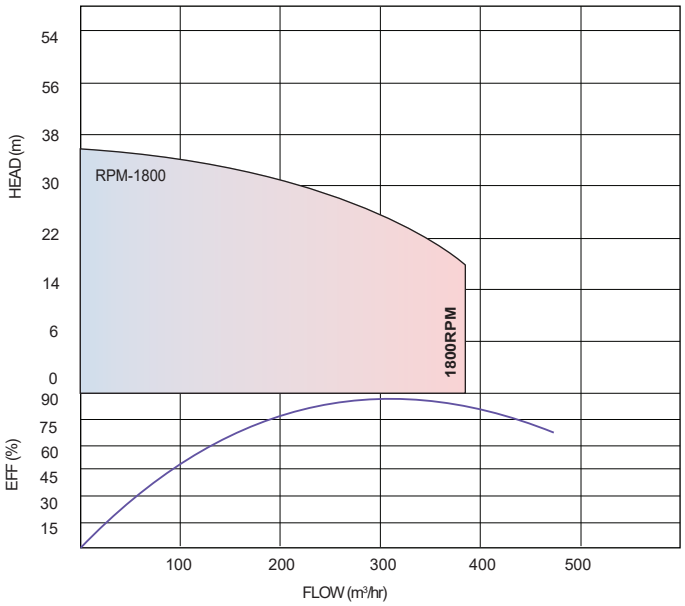
APPLICATION

- Construction quarries
- Flood water dewatering
- Municipal applications
- Mines and tunnel dewatering
- Heavy Sludge & Slurry
- Solid laden liquid
- Jetting
- Stream diversions
- Ground excavation
- Drainage and dewatering
- Tunneling construction
- Dam Drainage
- Bridges
- Sewage Networks
- Pipelines
- Maring
- Strom water runoff

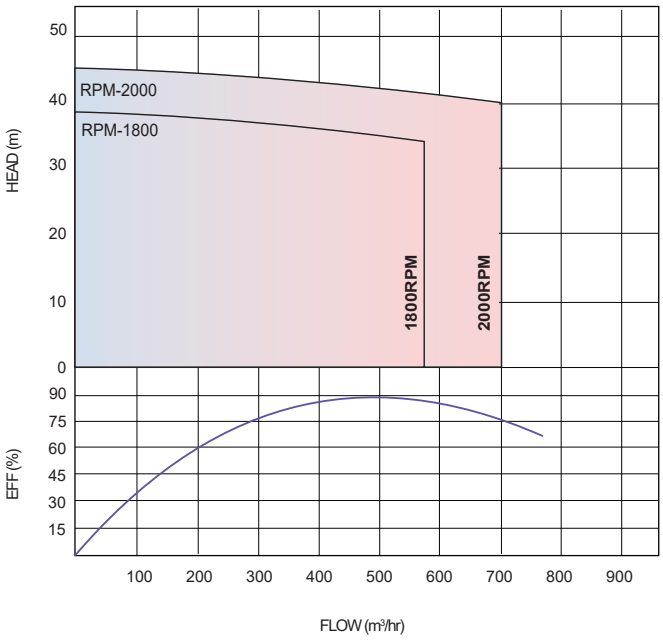
FEATURES & BENEFITS

- Easy Maintenance normally limited to checking oil levels and filters.
- This dewatering pump used for handling sewage, slurries, and liquids with solids up to 2.0 in diameter.
- Dry-running high pressure liquid bath Double mechanical seal with high abrasion resistant solid silicon carbide faces.
- A centrifugal pump with Dri- Prime system coupled to a diesel engine or electric motor.
- Kirloskar HA 494 engine can be coupled with the pump. Electric motor is also an option.

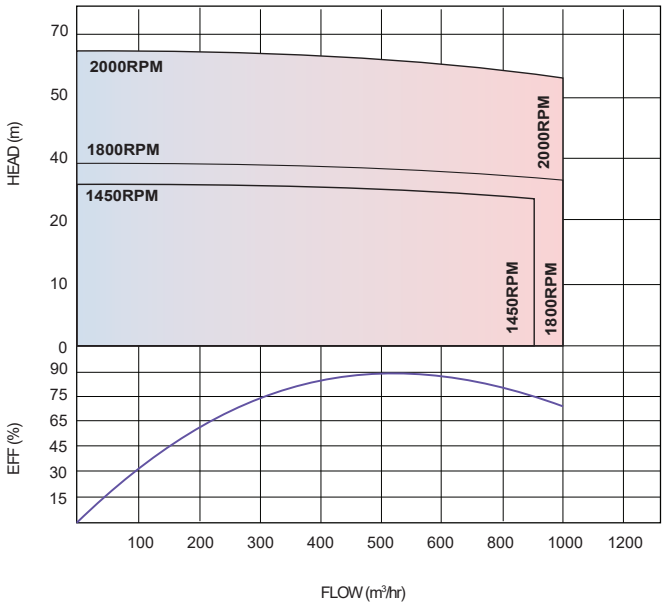
MODEL : DEWAT 6 | SIZE : 6"X6"



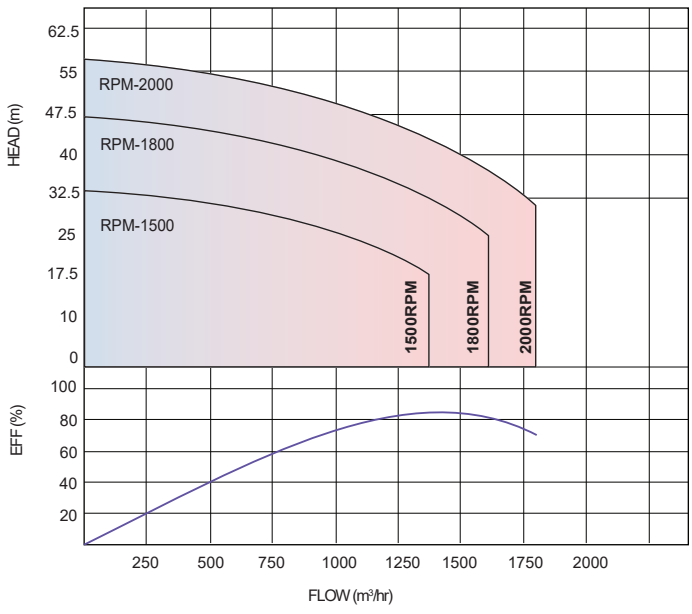
MODEL : DEWAT 8 | SIZE : 8"X8"



MODEL : DEWAT 10 | SIZE : 10"X10"



MODEL : DEWAT 12 | SIZE : 12"X12"



TECHNICAL DETAILS

MODEL	DWPx4 inch	DWPx6 inch	DWPx8 inch	DWPx10 inch	DWPx12 inch
Head Range upto m	45	45	37	65	57
Discharge upto m3/h	475	475	770	850	1800
Engine Power Rating kW	25	30	55	55-75	90-110
Suction x Delivery mm	100 x 100	150 x 150	200 x 200	250 x 250	300 x 300
Flange Standard	DIN ND16	DIN ND16	DIN ND16	ANSI B 16.5	ANSI B 16.5
Max. Operating Pressure Bar	16				
Max. Liquid Temperature C	60 C				
Operating Speed rpm	2000				
Hydro Static Test Pressure Bar	6.75	6.75	5.55	9.75	8.55
Max. Solid handling mm	12	18	20	20	25
Fuel Tank Capacity litre	120	180	240	300	350
Battery	12V, Min. 500 CCA				

PART NAME	MATERIAL
Casing	CI/WCB/CF8/CF8M/CD4MCuN
Impeller	CF8/CF8M/CD4MCuN/ Bronze
Wear Ring	CF8/CF8M/ Bronze
Shaft	SS304/ SS316
Shaft Sleeve	SS304/ SS316
Bearing Housing	CI
Bearing Lubrication	Crease
Mechanical Seal	Double - Silicon/ Tungsten Carbide
Chassis / Fuel Tank	MS

Weight without engine	550 kg
Weight with engine	950 kg
Length x width x height(cm)	214 x 213 x 153 cm
20 feet container	6 nos
40 feet container	12 nos

SPARES

LOAD LOSSES TABLE

LOAD LOSSES (Pc) in meters (column of water) Flow rate (V m/s)

Capacity		Internal diameter in mm																										
m³/h		25	32	40	50	60	70	80	90	100	125	150	175	200	225	250	275	300	350	400	450	500	600	700	800	900	1000
3	Pc% Vm/s	17 1.70	6 1.03	1.6 0.67	0.54 0.43	0.25 0.29	0.13 0.22	0.06 0.16	0.03 0.13	0.02 0.10																		
6	Pc% Vm/s		24 2.06	6 1.34	2 0.85	0.9 0.58	0.43 0.44	0.21 0.32	0.13 0.26	0.08 0.20	0.026 0.13																	
9	Pc% Vm/s			12.5 2.08	4.3 1.32	1.8 0.89	0.9 0.65	0.46 0.5	0.25 0.39	0.15 0.32	0.06 0.20																	
12	Pc% Vm/s			20 2.76	7 0.76	32 1.19	1.5 0.88	0.75 0.67	0.44 0.53	0.25 0.43	0.09 0.27	0.03 0.18																
15	Pc% Vm/s				12 2.2	5.2 1.49	2.4 1.1	1.25 0.87	0.7 0.66	0.42 0.54	0.15 0.34	0.06 0.24																
18	Pc% Vm/s				17 2.64	7 1.78	3.5 1.3	1.7 1	1 0.78	0.6 0.64	0.2 0.4	0.08 0.28																
21	Pc% Vm/s				22 3.35	8.8 2.08	4.2 1.54	2.2 1.17	1.3 0.93	0.75 0.75	0.26 0.48	0.1 0.32	0.05 0.24															
24	Pc% Vm/s					12 2.38	5.7 1.76	3 1.34	1.7 1.06	1 0.86	0.36 0.54	0.14 0.36	0.07 0.28															
27	Pc% Vm/s					14 2.7	7 1.97	3.5 1.45	2 1.17	1.25 0.96	0.42 0.6	0.17 0.42	0.08 0.31															
30	Pc% Vm/s					17 2.98	8.2 2.2	4.2 1.74	2.5 1.32	1.5 1.08	0.5 0.68	0.2 0.48	0.09 0.34															
36	Pc% Vm/s					25 3.58	12 2.63	6.3 2	3.5 1.58	2 1.28	0.75 0.52	0.3 0.57	0.14 0.42	0.07 0.32														
42	Pc% Vm/s						16 3.07	8.5 2.34	4.5 1.85	2.7 1.5	0.85 0.96	0.33 0.66	0.18 0.48	0.08 0.37														
48	Pc% Vm/s						21 3.51	10 2.68	6 2.12	3.6 1.75	1.2 1.08	0.45 0.72	0.22 0.56	0.12 0.43	0.06 0.37													
54	Pc% Vm/s						25 3.94	13.5 3	7.6 2.34	4.5 1.92	1.5 1.2	0.55 0.84	0.28 0.63	0.14 0.48	0.08 0.38													
60	Pc% Vm/s							16 3.32	9 2.64	5.5 2.16	1.8 1.36	0.7 0.96	0.33 0.68	0.17 0.53	0.1 0.42													
75	Pc% Vm/s							24 4.17	14 3.31	8 2.68	2.76 1.72	1 1.18	0.48 0.87	0.24 0.67	0.14 0.53	0.08 0.43												
90	Pc% Vm/s								20 3.97	12.5 3.24	3.8 2.04	1.45 1.44	0.74 1.02	0.36 0.8	0.2 0.63	0.14 0.51	0.08 0.42											
105	Pc% Vm/s								26 4.6	16.5 3.74	5.3 2.41	1.95 1.66	0.9 1.22	0.47 0.93	0.27 0.74	0.16 0.59	0.1 0.49											
120	Pc% Vm/s									21.5 4.31	6.9 4.72	2.6 1.93	1.2 1.35	0.61 1.06	0.36 0.84	0.2 0.68	0.14 0.56	0.08 0.47										
135	Pc% Vm/s									26 4.81	9 1.07	3.3 2.43	1.5 1.56	0.76 1.19	0.45 0.95	0.25 0.76	0.17 0.63	0.1 0.53										
150	Pc% Vm/s										11 3.44	4 2.36	1.9 1.74	0.95 1.34	0.55 1.05	0.3 0.86	0.21 0.70	0.12 0.59	0.06 0.43								
165	Pc% Vm/s										13 3.75	4.7 2.61	2.2 1.94	1.13 1.46	0.65 1.15	0.37 0.94	0.24 0.77	0.15 0.65	0.08 0.48								
180	Pc% Vm/s										15.2 4.09	5.5 2.83	2.6 2.08	1.3 1.59	0.76 1.26	0.43 1.02	0.29 0.84	0.18 0.71	0.09 0.52								
210	Pc% Vm/s										21 4.70	7.4 3.32	3.5 2.43	1.8 1.86	1.1 1.49	0.6 1.19	0.37 0.98	0.24 0.82	0.12 0.61	0.06 0.47							
240	Pc% Vm/s											9.4 3.78	4.3 2.77	2.3 2.12	1.3 1.68	0.75 1.36	0.48 1.12	0.3 0.95	0.15 0.69	0.08 0.53							
270	Pc% Vm/s											12 4.26	5.5 3.13	2.8 2.39	1.62 1.90	0.9 1.53	0.58 1.26	0.35 1.07	0.18 0.78	0.09 0.59							
300	Pc% Vm/s											14 4.75	7.5 3.47	3.4 2.66	2 2.10	1.1 1.71	0.74 1.40	0.46 0.18	0.22 0.86	0.11 0.67	0.07 0.53						
360	Pc% Vm/s												9 4.15	4.7 3.17	2.8 2.53	1.6 2.04	1 1.68	0.65 1.41	0.32 1.04	0.16 0.79	0.09 0.63	0.05 0.51					
420	Pc% Vm/s												11.6 4.86	6.2 3.72	3.5 2.94	2 2.37	1.3 1.96	0.82 1.64	0.41 1.22	0.21 0.94	0.12 0.76	0.07 0.59	0.03 0.41				
480	Pc% Vm/s													8.5 4.24	4.9 3.36	2.9 2.72	1.9 2.24	1.2 1.90	0.6 1.36	0.3 1.06	0.17 0.84	0.09 0.69	0.04 0.47				
540	Pc% Vm/s													14 4.78	6.5 3.80	3.7 3.06	2.35 2.52	1.52 2.13	0.75 1.56	0.38 1.19	0.22 0.94	0.12 0.76	0.05 0.53				
600	Pc% Vm/s													12.2 5.30	7.4 4.20	4.3 3.40	2.7 2.81	1.7 2.36	0.9 1.73	0.45 1.34	0.25 1.06	0.13 0.86	0.055 0.61	0.024 0.44			
660	Pc% Vm/s														9 4.61	5.2 3.76	3.3 3.07	2.1 2.59	1.1 1.89	0.54 1.46	0.3 0.15	0.16 0.93	0.06 0.65	0.03 0.48			
720	Pc% Vm/s														10 5.05	6 4.08	3.8 3.37	2.5 2.84	1.3 2.08	0.62 1.65	0.35 1.26	0.19 1.02	0.075 0.71	0.035 0.52			
780	Pc% Vm/s															7.3 4.43	4.5 3.65	3 3.08	1.5 2.26	0.75 1.73	0.42 1.36	0.23 1.11	0.08 0.77	0.04 0.56			
840	Pc% Vm/s															8 4.76	5.4 3.95	3.4 3.31	1.7 2.43	0.85 1.86	0.48 1.47	0.26 1.19	0.1 0.83	0.047 0.61			
900	Pc% Vm/s															9 5.1	5.8 4.22	3.75 3.54	1.9 2.60	0.96 2.00	0.53 1.57	0.29 1.27	0.11 0.88	0.053 0.65			
960	Pc% Vm/s																6.5 4.49	4.3 3.78	2.1 2.77	2.1 2.13	0.6 1.68	0.32 1.36	0.12 0.95	0.06 0.70			
1020	Pc% Vm/s																7.2 4.76	4.6 4.01	2.45 2.94	1.2 2.26	0.67 1.78	0.35 1.44	0.14 1.00	0.065 0.77	0.033 0.54		
1080	Pc% Vm/s																	5.4 4.26	2.8 3.12	1.4 2.38	0.78 1.86	0.43 1.53	0.16 1.06	0.073 0.78	0.037 0.57		
1140	Pc% Vm/s																	6 4.49	3.2 3.29	1.53 2.53	0.86 1.99	0.45 1.65	0.175 1.12	0.08 0.84	0.043 0.61	0.037 0.52	
1200	Pc% Vm/s																	6.5 4.72	3.4 3.45	1.7 2.68	0.93 2.12	0.5 1.72	0.19 1.23	0.09 0.98	0.046 0.63	0.04 0.54	0.025 0.4

Discharge diameter

Suction diameter diameter