

Slurry Handling
Creating solutions
over three decades



Simply
pump!

A HEAVY DUTY & VERSATILE SLURRY HANDLING PUMP



Highly efficient slow speed motors with built in protection against temperature rise

Pumps can be offered for slurries with specific gravity up to 2.8

Built-in agitator arrangement with each pump

Shaft not exposed to pumpage liquid

Highly abrasion resistant material for pump portion

Dual mechanical seal independent of discharge pressure, neither is it exposed to pumpage liquid

Compressed air connection for de-settling of slurry

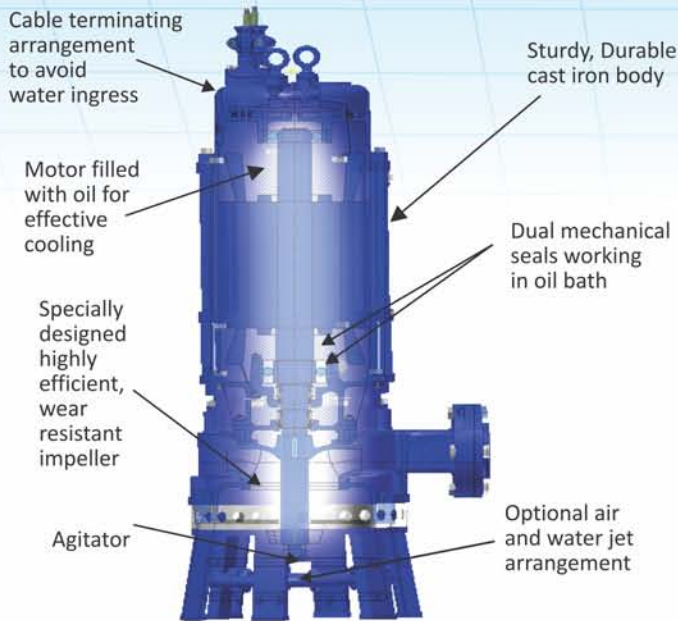
Special series of pumps to handle high temperature liquids

DREDGER SERIES PUMP

DARLING PUMPS
Pioneers in Submersible

Dredger Pumps Up to 30 HP

Darling slurry handling dredger pumps are ideal for ash handling plants, coal handling plants, coal washries, scale mill pits, waste sludge handling, iron ore / dust pumping, de-silting of waste collections, dredging deep deposits, sludge transfer, de-silting of water intakes, ceramic slurry pumping, petroleum, chemical & process industry.



DENOMINATION

Product code	4 DRR+
Installation	Portable
Impeller characteristics	Radial
Discharge connection	2.5"/3"/4"/6"

PROCESS DATA

Liquid temperature	Max +40° C
Liquid density	2.8 gm/cc
Solid passage	Up to 25 mm

MOTOR DATA

Submersible squirrel cage induction motor	
Frequency	50 Hz (±3%)
Voltage variation	415 (+6/-15%)
Phase	Three
Starting	DOL/Star Delta

SPEED & CURRENT

kW	Wt. (Kg)	Speed of motor(RPM)	Rated Current
3.7	200	1440	9.5
5.5	230	1450	13
7.5	265	1450	16
11	290	1450	23
15	325	1450	32
18.5	325	1460	38
22	350	1460	45

MATERIALS

Casing	2% NiCl
Impeller	Abrasion Resistance Iron (Hi chrome)
Agitator	Abrasion Resistance Iron (Hi chrome)
Motor Body	Cast Iron
Shaft	Stainless Steel

Other MOC can be provided on request

MONITORING EQUIPMENT

Thermal contacts cut off temperature +85° C

CABLE

Heavy-duty double sheathed submersible cable

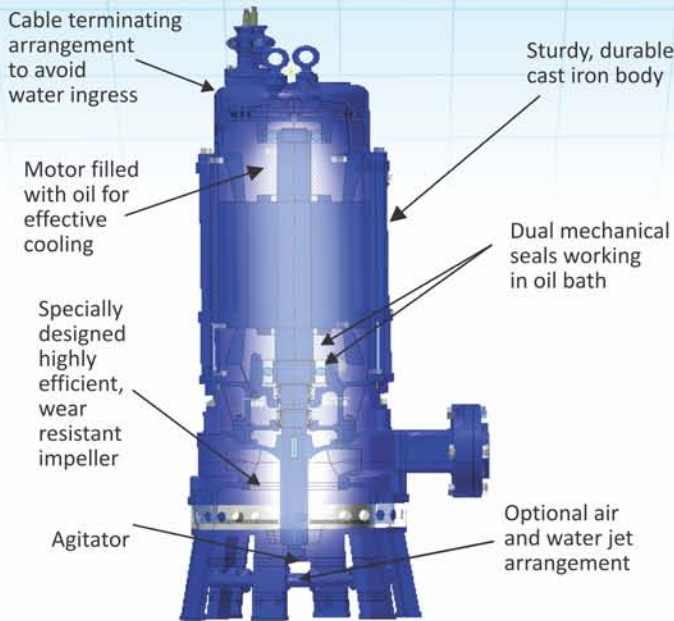
DARLING MAKE SUBMERSIBLE 4DRR+ SERIES PUMP

Models	kW/HP	Outlet in MM/Inch	200	300	400	500	600	700	800	900	1000	DISCHARGE IN LPM
4DRR-05F/16+	3.7/5	65/2.5	17.6	16	13.8	11	-	-	-	-	-	
4DRR-07H/16+	3.7/5	80/3	13	12.5	12	11.4	10.8	10	9	8	7	
4DRR-07F/16+	5.5/7.5	65/2.5	20.6	19	16.5	13.5	-	-	-	-	-	
4DRR-07H/16+	5.5/7.5	80/3	18.5	17.5	16.5	15	13	11	-	-	-	HEAD IN MTRS
4DRR-10H/20+	7.5/10	80/3	18.7	18	17.3	16.5	15.5	14.5	13.3	12	10.5	
4DRR-10F/16+	7.5/10	65/2.5	22.5	21.5	20	18	15.5	-	-	-	-	
4DRR-15H/16+	11.2/15	80/3	22.5	22	21	20	18.7	17.3	15.8	-	-	
Models	kW/HP	Outlet in MM/Inch	500	750	1000	1250	1500	1700	-	-	-	DISCHARGE IN LPM
4DRR-05G/25+	3.7/5	100/4"	8.2	7.8	7	5.7	4	-	-	-	-	
4DRR-07G/25+	5.5/7.5	100/4"	12.8	11.7	10	7.5	-	-	-	-	-	
4DRR-10I/25+	7.5/10	100/4"	15.5	15	14	12	9	-	-	-	-	HEAD IN MTRS
4DRR-15I/25+	11.2/15	100/4"	19	18	17	15	12.5	10	-	-	-	
4DRR-20J/16+	15/20	100/4"	30	28	25	21	-	-	-	-	-	
Models	kW/HP	Outlet in MM/Inch	500	1000	1500	2000	2500	3000	3000	-	-	DISCHARGE IN LPM
4DRR-25J/20+	18.5/25	100/4"	30.5	28	25	20	-	-	-	-	-	HEAD IN MTRS
4DRR-30J/20+	22/30	100/4"	36	33.5	30	24.5	-	-	-	-	-	

- Note:
1. Above performance is at rated voltage (415 Volts), 3 phase & rated frequency (50 Hz).
 2. Above performance is for specific gravity 1 and viscosity as of water.
 3. Due to continuous improvements from time to time, given performance is subject to change without any prior notice.
 4. Highlighted / Bold duties are best efficiency point for given pump.

Dredger Pumps 40 to 150 HP

Darling slurry handling dredger pumps are ideal for ash handling plants, coal handling plants, coal washries, scale mill pits, waste sludge handling, iron ore / dust pumping, de-silting of waste collections, dredging deep deposits, sludge transfer, de-silting of water intakes, ceramic slurry pumping, petroleum, chemical & process industry.



DENOMINATION

Product code	4 DRR+
Installation	Portable
Impeller characteristics	Radial
Discharge connection	4", 6" & 8"

PROCESS DATA

Liquid temperature	Max +40° C
Liquid density	2.8 gm/cc
Solid passage	Up to 25 mm

MOTOR DATA

Submersible squirrel cage	Induction motor
Frequency	50 Hz (±3%)
Voltage variation	415 (+6/-15%)
Phase	Three
Starting	Star Delta

SPEED & CURRENT

kW	Wt. (Kg)	Speed of motor(RPM)	Rated Current
30	440	1460	60
37	490	1460	75
75	900	1460	140

MATERIALS

Casing	2% NiCl
Impeller	Abrasion Resistance Iron (Hi-chrome)
Agitator	Abrasion Resistance Iron (Hi-chrome)
Motor Body	Cast Iron
Shaft	Stainless Steel
O-Ring	Nitrile Rubber

MONITORING EQUIPMENT

Thermal contacts cut off temperature +85°C

CABLE

Heavy-duty double sheathed submersible cable

DARLING MAKE SUBMERSIBLE 4DRR+ SERIES PUMP

Models	kW/HP	Outlet in MM/Inch	500	1000	1500	2000	2500	3000	-	DISCHARGE IN LPM
4DRR-40J/20+	30/40	100/4"	41.5	40	37	33	27.5	-	-	
4DRR-50J/20+	37/50	100/4"	48	45.5	42.5	38	32.5	-	-	HEAD IN MTRS

Models	kW/HP	Outlet in MM/Inch	1000	2000	3000	4000	5000	6000	7000	DISCHARGE IN LPM
4DRR-50N/25+	37/50	200/8"	25.5	25.5	24.3	23	21	17.8	13.8	HEAD IN MTRS

- Note:**
1. Above performance is at rated voltage (415 Volts), 3 phase & rated frequency (50 Hz).
 2. Above performance is for specific gravity 1 and viscosity as of water.
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Dredger Series Pumps



OUR COMPLETE RANGE OF PRODUCTS:



CLEAR WATER PUMPS

Head
Up to 150 M

Capacity
Up to 6000 LPM

Rating
0.75 to 110 kW

Suitable for:

- Housing & commercial complex
- Sprinkler & drip irrigation
- River water pumping
- Gardening
- Water supplies in industries, hospital, hotels, cooling tower etc.
- Raw water pumping



DEWATERING PUMPS

Head
Up to 108 M

Capacity
Up to 12000 LPM

Rating
0.55 to 110 kW

Suitable for:

- Infrastructure project
- Construction sites
- Steel / power plant
- Pumping heavily contaminated water with sand & gravel
- Mines dewatering
- Micro tunneling projects



WASTE WATER PUMPS

Head
Up to 72 M

Capacity
Up to 1800 LPM

Rating
0.37 to 37 kW

Suitable for:

- Packaged STP / ETP
- Treated water
- Drainage & septic tanks waste pumping
- Industrial processes
- Pharmaceutical plant
- Waste in hotels, hospital, malls etc.



SEWAGE EFFLUENT PUMPS

Head
Up to 62 M

Capacity
Up to 14000 LPM

Rating
2.2 to 110 kW

Suitable for:

- Raw unscreened sewage.
- STP & ETP plants
- Sewage pumping station
- Boiler room
- Effluents & solvents
- Industrial waste water
- Storm & tunnel water de-watering



SLURRY PUMPS

Head
Up to 85 M

Capacity
Up to 14000 LPM

Rating
3.7 to 110 kW

Suitable for:

- AHP / CHP
- Metal processing unit
- Mineral processing unit
- Mineral mines
- Iron scale slurry
- Ceramic slurry

Disclaimer: On account of continuous improvements, data mentioned in this leaflet is subject to change without prior notice.



Simply pump!



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