

Slurry Handling
Creating solutions
over three decades



Simply pump!

SLURRY PUMPS ENGINEERED TO PERFECTION



Provided with built-in Agitating arrangement to stir the slurry

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

Replaceable Twin volute casing to balance radial load

Adjustable & Replaceable wear plate to restore clearances for optimum efficiency

Non pressurized Dual Mechanical Seal - better seal life

Shaft not exposed to pumpage liquid

Semi-open impeller with back vane for hydraulically balanced axial thrust

Water jet / compressed air connection for de-settling of slurry

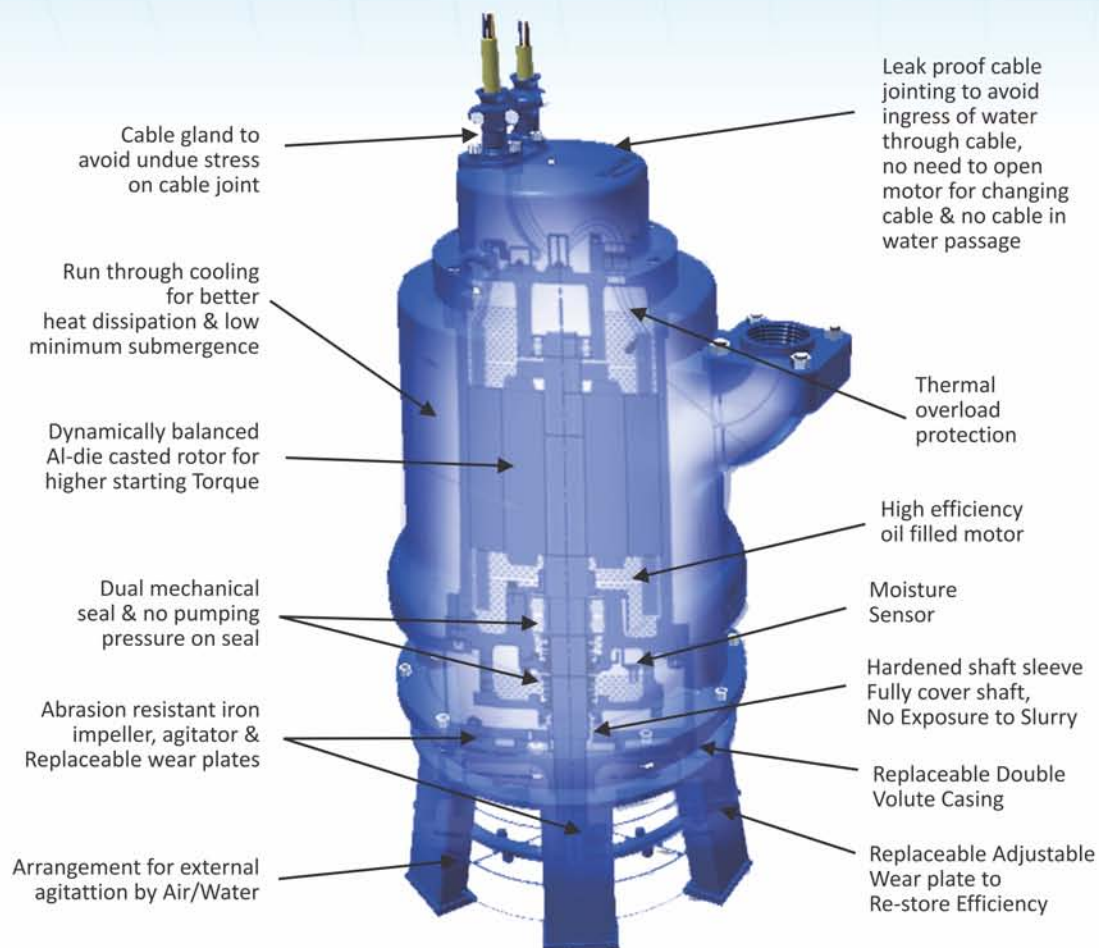
4HD SERIES PUMP

DARLING PUMPS
Pioneers in Submersible

4HD SERIES PUMP

4HD Series Slurry Pumps are heavy duty pumps which are specially designed to pump settled slurry containing solids of desired size & concentrations up to 65% by weight of the liquid. These pumps are designed to handle very abrasive slurries.

Slurry Pumps have been specially designed to suit the tough Indian working & climate conditions, which gives it an edge over imported pumps whose maintenance is both difficult & costly due to non-availability of spares & proper service backup. Darling Pumps to a large extent can be maintained at site itself.



Pump is supplied with fully automatic control panel having protection against earth leakage current overload, phase imbalance, phase rotation, phase loss, voltage fluctuation.

Darling 4HD Series Pump with its advanced agitation system, special sealing arrangement and unique motor design provides a more reliable and lower installation cost. These pumps can work in bad conditions as the pump portion used is of highly abrasion resistant materials.

4HD SERIES PUMP

4HD Series Pumps are ideal for ash handling in power plants, cement plants, abrasive iron slurry in steel plant, de-silting of waste collections ponds, conveyor tunnel sumps, trench clean out mill scale slurry, mineral processing units, blast furnace, sugar industries, petro-chemical industry, ceramic, granite, marbles, stone cutting & sawing industries, coal/ore mining, gravel pits & quarries, paper mills, power plant & many more similar applications.



DENOMINATION

Product code	4HD
Installation	Vertical/Portable
Impeller characteristics	Semi open

CAPACITY

Discharge	Up to 200 m ³ / hr
Head	Up to 40 mtrs
Solid passage	Up to 32 mm

PROCESS DATA

Liquid temperature	Max + 40°C
Liquid density	2.8 gm / cc
Solid passage	Up to 32 mm
Solid concentration by weight up to	65%

MOTOR DATA

Submersible squirrel cage induction motor	
Frequency	50 Hz (±3%)
Voltage variation	415 (+6/-15%)
Motor protection as per	IP 68
Class of insulation	"F"
Method of starting	D.O.L
Phase	Three

SPEED & CURRENT

kW	Wt. (Kg)	Speed of motor (RPM)	Rated current
18.5	520	1460	38
30	570	1460	60

MATERIALS*

Discharge shell	SG Iron
Impeller	Hi-Chrome
Twin volute	Hi-Chrome
Wear plate	Hi-Chrome
Shaft	SS 431
Agitator	Hi-Chrome
O-Ring	Nitrile rubber

*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 4HD SERIES PUMP

Models	kW/HP	Outlet	400	800	1200	1600	2000	2400	2800	3200	3600	DISCHARGE IN LPM
4HD-253	18.5/25	80	28.7	25.4	20.4	13						HEAD IN MTRS
4HD-404	30/40	100	35.3	34.3	32.2	29.5	26	20.4	14.6	7.8	-	

- 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.

4HD SERIES PUMP



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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