



DARLING[®]
PUMP

Designing SMART pumping solutions...

Slurry Pumps
Engineered to perfection...



Heavy Duty & Versatile Slurry Handling Pumps - 4DRR Series

Applications

- Highly Abrasive Slurries
- Mill Scale, Iron Ore & Pallet Slurries
- Mineral Ore Processing Units
- Ash and Coal Handling Plants
- Granite & Marble Slurry
- Industrial Waste Removal
- Jack Well / In-take Well Cleaning
- Removal of Sand Deposition at dam galleries & penstock tunnels
- & many more similar applications...

Features

- Highly efficient slow speed motors with built-in protection against temp. rise
- Pumps can be offered for slurries with specific gravity up to 2.8
- High abrasion resistant material for pump portion
- Shaft not exposed to pumpage liquid
- Built-in agitator arrangement
- Dual mechanical seals are independent of discharge pressure, neither are they exposed to pumpage liquid
- Optional cooling jacket arrangement
- Special series for pumping hot temperature liquids up to 90°C.



Denominations

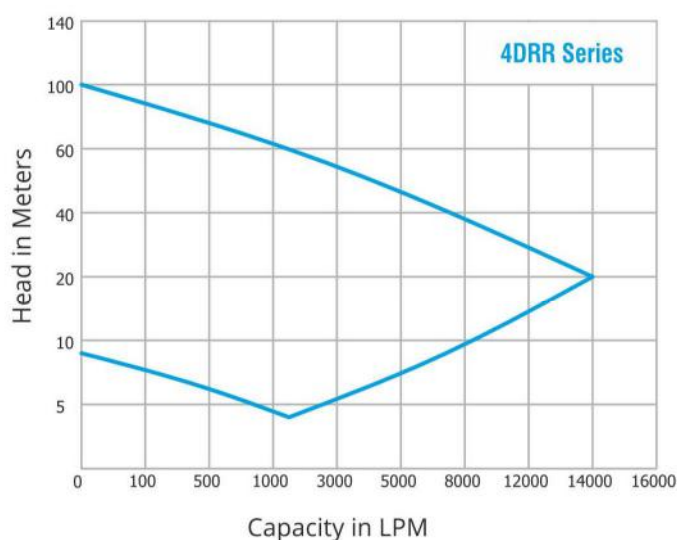
Product Code	4DRR+
Installation	Vertical / Portable
Impeller Characteristic	Radial
Discharge Connection	65/80/100/150 mm

Process Data

Liquid Temperature	Max 40°C
Liquid Density	2.8 gm/cc
Solid Passage	Up to 25 mm
Solid Concentration	65% by weight

Technical Specifications

Flow	: Up to 14000 LPM
Head	: Up to 100 m
Rating	: 3.7kW to 110kW
Frequency	: 50Hz
Supply	: Three Phase - 415 V
Motor	: Wet type / Dry Type
RPM	: 1450 (nominal)
Materials	: Cast Iron, Ni-CI, High Chrome, Ni-Hard, Hardned SS & Duplex



Unique Slurry Handling Pumps - 4HD Series

Applications

- Highly Abrasive Slurries
- Mill Scale, Iron Ore & Pallet Slurries
- Mineral Ore Processing Units
- Ash and Coal Handling Plants
- Granite & Marble Slurry
- Industrial Waste Removal
- Jack Well / In-take Well Cleaning
- Removal of Sand Deposition at dam galleries & penstock tunnels
- & many more similar applications...



Features

- Pumps can be offered for slurries with specific gravity up to 2.8
- Replaceable Twin volute casing to balance radial load
- Adjustable and replaceable wear plate to restore clearances for optimum efficiency
- Semi-open impeller with back vane for hydraulically balanced axial thrust
- Shaft not exposed to pumpage liquid
- Built-in agitator arrangement
- Non-pressurised dual mechanical seals for better seal life
- Water jet / compressed air connection for de-settling of slurries

Denominations

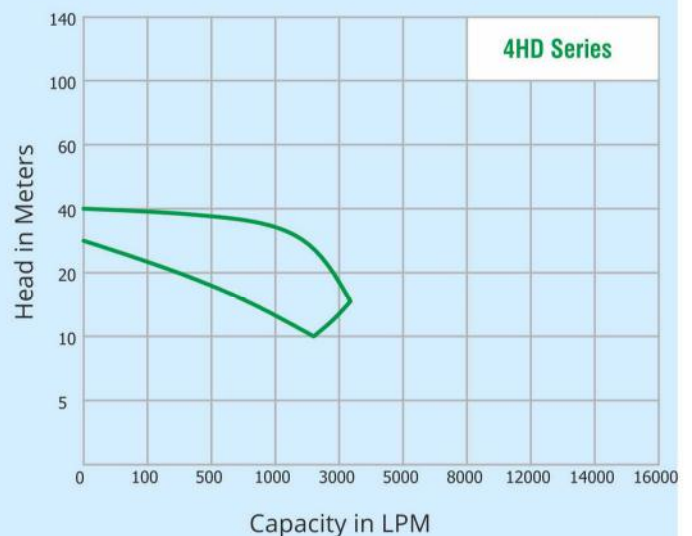
Product Code	4HD
Installation	Vertical / Portable
Impeller Characteristic	Semi open
Discharge Connection	80 / 100 mm

Process Data

Liquid Temperature	Max 90°C
Liquid Density	Max 2.8 gm/cc
Solid Passage	Up to 32 mm
Solid Concentration	65% by weight

Technical Specifications

Flow	: Up to 3500 LPM
Head	: Up to 42 m
Rating	: 7.5kW to 30kW
Frequency	: 50Hz
Supply	: Three Phase - 415 V
Motor	: Wet type / Dry Type
RPM	: 1450 (nominal)



Cantilevered Slurry Handling Pumps - CL Series

Applications

- Highly Abrasive Slurries
- Mill Scale, Iron Ore & Pallet Slurries
- Mineral Ore Processing Units
- Ash and Coal Handling Plants
- Granite & Marble Slurry
- Industrial Waste Removal
- Jack Well / In-take Well Cleaning
- Removal of Sand Deposition at dam galleries & penstock tunnels
- & many more similar applications...



Features

- Option of direct drive / belt driven motor
- Ideal for slurries with sp. gravity up to 2.8
- No submerged bearings, stuffing box or shaft seal
- Extra hardened fully covered shaft
- Adjustable wear plate to restore efficiency
- Casing cover plate to protect from external impact
- No flushing through service water pump
- Anti-friction, grease lubricated bearings totally protected against contamination
- Optional agitator arrangement
- Special series for pumping hot temperature liquids up to 90°C.

Denominations

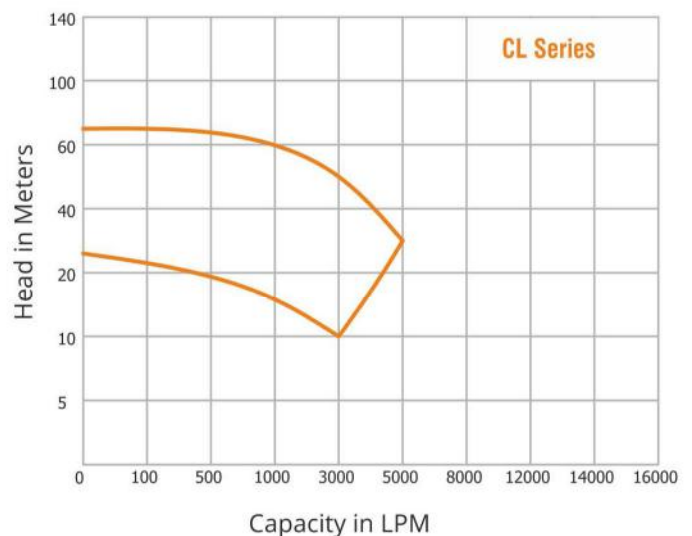
Product Code	CL
Installation	Vertical
Impeller Characteristic	Radial
Discharge Connection	65/80/100/150 mm

Process Data

Liquid Temperature	Max 40°C
Liquid Density	2.8 gm/cc
Solid Passage	Up to 25 mm
Solid Concentration	65% by weight

Technical Specifications

Flow	: Up to 5000 LPM
Head	: Up to 75 m
Rating	: 3.7kW to 110kW
Frequency	: 50Hz
Supply	: Three Phase - 415 V
Motor	: TEFC (foot / flange mounted)
RPM	: 1450 / 960 (nominal)
Materials	: Cast Iron, Ni-CI, High Chrome, Ni-Hard, Hardned SS & Duplex



APPLICATIONS		PRODUCTS			
		4DRR	4HD	CL	HT*
STEEL	Mill scale pits	✓	✓	✓	
	Sintering plants / RHMS area	✓	✓	✓	
	Blast furnace Slag pit	✓	✓	✓	✓
	Beneficiation area	✓	✓	✓	
	Ash & Coal slurry in CPP & Wagon Tripler	✓	✓	✓	
	Hot slurries in Casters & Coke oven				✓
POWER	Fly Ash collection sumps	✓	✓	✓	
	Coal wash down sumps	✓	✓	✓	
	Ash & Waste collection pits	✓	✓	✓	
	Emergency dump pond	✓	✓	✓	
	Sand deposition at Dam galleries	✓	✓		
	Deposition in Penstock tunnels	✓	✓		
DOCK / MARINE	Removal of silt built-up at ports	✓	✓		
	Contaminated sludge collection ponds	✓	✓	✓	
	Reclaiming of beaches	✓	✓		
	Cleaning of River / Canals	✓	✓		
	De-silting of water intakes	✓	✓		
	Dry dock cleaning	✓	✓	✓	
MINES	Conveyor tunnel sumps	✓	✓		
	Underground slimes collection sumps	✓	✓		
	Ball mills sumps	✓	✓		
	Settling & collection ponds	✓	✓		
	Grinding area sumps	✓	✓		
	Truck wash sumps	✓	✓		
OTHER	Mineral ore processing units	✓	✓	✓	
	Granite & Marble slurry	✓	✓	✓	
	River silt (clay) removal	✓	✓		
	Industrial waste removal	✓	✓	✓	
	Jack well & Intake well cleaning	✓	✓		
	Removal of Sand deposition	✓	✓		

Applications mentioned above are not conclusive, these pumps can be offered for many more similar applications.

*Hot Liquids Series

Research Agriculture Government Agencies Water and Sewerage
 Steel Plants Research Mines Textile Industries
 Irrigation Projects Power Sector Civil Infraprojects Petroleum Sector
 Tunnel Dewatering Atomic Energy Civil Infraprojects
 Electricity Boards Fountains Water and Sewerage
 Satellite & Space Agencies
 Port Trusts Construction Railways Port Trusts Textile
 Irrigation Projects Cement Industries Food & Pharma Industries
 Electricity Boards Railways Cement Industries Construction
 Fountains Textile
 Irrigation
 Steel
 Mine
 Power



Our Product Range

- Clear Water Pumps • Raw Water Pumps • Dewatering Pumps • Waste Water Pumps
- Vertical Wet Pit Pumps • Sewage Handling Pumps • Slurry Handling Pumps
- Pump Control Systems ...and various pumping accessories

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