

PRODUCT SPECIFICATION

- DEF 6/4 E-DAH PUMP
- DEF ENGINE 6LTAA8.9-P340
- PONTOON

" Exploring the Efficiency of Advanced Slurry Pump Pontoon Technology for Optimal Handling of Heavy Materials in Deep Waters "



DEF 6/4 E-DAH

Heavy and mining duty rubber lined
and metal horizontal slurry pumps

HIGH PRESSURE SLURRY PUMP

E-DAH Series - high pressure Slurry pump is designed to combat the need to run at excessive speeds to generate high speed head often required in many modern slurry pumping applications. Single pump unit rather than series pumping can be adopted, at greatly reduced cost, while still offering optimum wear life and efficiency.



Heavy Duty Slurry Pump (E - DAH SERIES)



We provide the pumps with both metal liner & rubber liner, the metal & rubber liner provide corrosion & abrasion resistance, plus the interchangeability to reduce the maintenance cost and maximize wear life.

Pump Range:

- Pump Size: 1" to 18"
- Flow: 10-5400 m³/h
- Head: 10-75 m

Pump Application:

- Mineral Processing
- Mill Discharge
- Coarse Sand
- FGD
- Coal Washing
- Bottom/Fly Ash
- Flotation Circuit
- Mineral Concentration
- Tailing
- Heavy Media

Pump Structures :



Typical Application

Minerals Flotation
Processing Electric
Factory Coal
Preparation Coal
Washing Chemical
Medium Processing
Effluent Handling

Type DEF 6/4 E-DAH Pump

- Flow range : 20-400 m³/h
- Head range : 20-90 m
- Max particle size : 40mm
- Speed : 1800 rpm
- shaft seal : Gland packing seal
- Casing (outer casing): Ductile Iron
- Impeller : Ultra chrome alloy A05
- Impeller type E4058
- Volute linear: Ultra chrome alloy A05
- Shaft : Carbon steel
- Shaft Sleeve : SS304/SS420/equal
- Bearing brand : Timken
- Supply Range : Bare Shaft Pump

Feature and Application

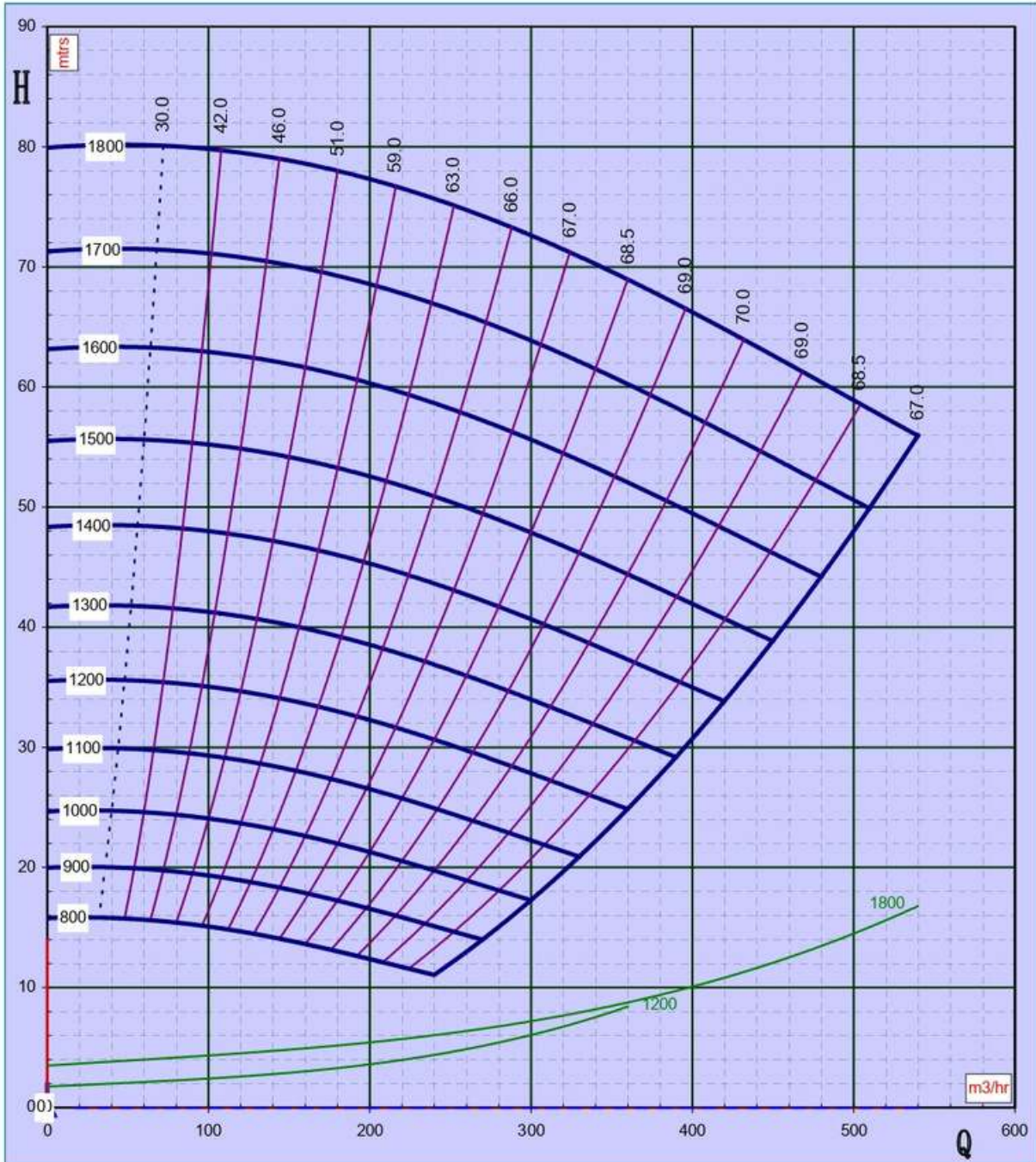
DEF-E (DAH) hard metal/rubber heavy duty slurry pumps are designed for the most difficult pumping applications for highly abrasive , high density or erosive slurries. Extra thick sections at wear point and perfect Impeller structure ensures satisfactory performance with long life, and needs minimum maintenance requirements. Rubber lined pump expand applications to chemical products handling, several different rubber options are available to meet different application needs. Especially fit in aggressive applications like mill discharge,tailing transportation.

DEFENDER

Max.rpm	1830	Curve No.	
Material		WPA64A01	
Impeller	ALLOY	Impeller Type	
Liner	ALLOY	CLOSED	
Impeller Dia. mm	365	Vane Nos	Max Solid Dia. mm
		5	51
Max Impeller Dia. mm	400	GLAND SEAL	
Impeller Part No.	E4147A	In terms of different sealing types, the efficiency of pumps is different for dynamic sealing, the efficiency will reduce at most 5% comparing with packing seal. Also, different structures of impellers cause to efficiency discrepancy. We reserve the right to change the performance curve without the advance notice.	
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Pump Model	Dia.	mm	Frame Type	KW
DEF 6/4	Inlet	152	D	60
			DD	110
E - DAH	Outlet	102	E	120
			EE	225

The power marked above refers to the maximum power that the bearing assembly can transfer, rather than the fitted motor power. The speed corresponding to highest curve is the maximum which the pump can bear. Please consult with the manufacturer if the pump you required is beyond the maximum speed. The capacity shown in the curve results from experimental data in conformity to Standard GB3216 Class C (ISO2548 Grade C), using clear water as pumped medium. When the medium is not clear water, please consider the effect on capacity caused by medium density, viscosity and solid character. Please contact with manufacturer if necessary.



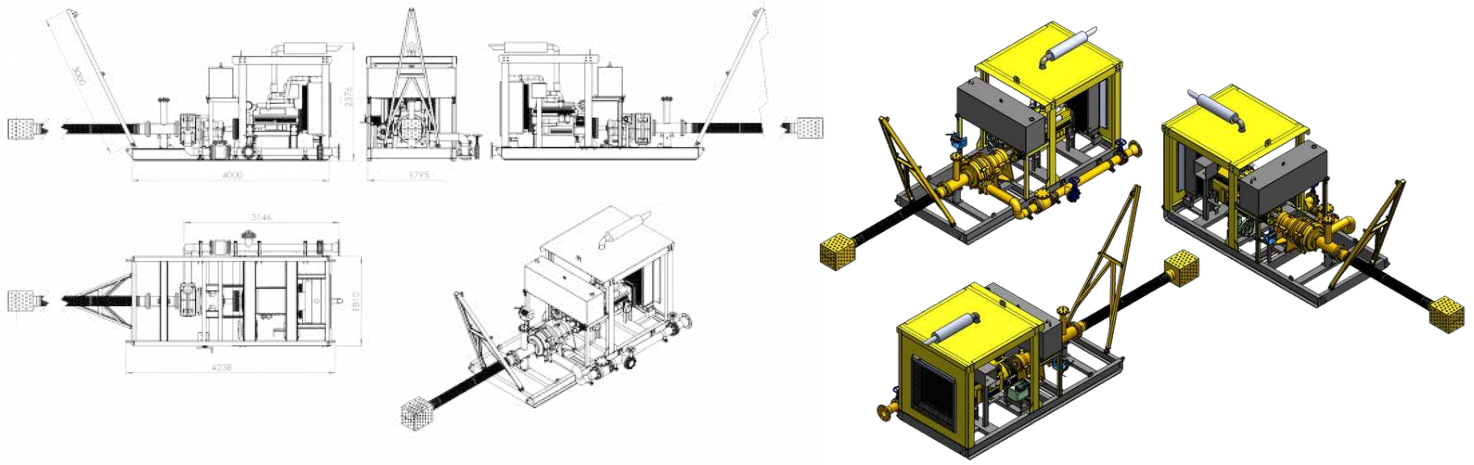
Selection and Performance of Defender pumps for Clear Water

Engine Data Sheet

Engine Performance Data of DCEC 6LTAA8.9-P340 Pump Drive Engine			
Engine Speed	1800 RPM	Output Power	230 kW
Torque	1464 N.m	Inlet Air Flow	215 L/s
Charge Air Flow	1000 kg/min	Exhaust Gas Flow	1001 kg/min
Exhaust Gas Temperature	533 °C	Heat Rejection to Coolant	100 kW
Radiator Coolant Flow	198 L/min	Heat Rejection to Charge Air Cooler	35 kW
Turbo Comp.Outlet Pressure	180 kPa	Temperature	170 °C
Fuel Consumption	45 kg/hr	Low Idle Speed	800±50 RPM
Maximum No Load Speed	1575±20 RPM	Maximum Overspeed Capability(15sec max)	2900 RPM
When 0% Gas Pedal Loading Capacity@1000rpm	N/A	Maximum Altitude Limit for Continious Running	N/A
Minimum Pump Inlet Pressure	N/A	Cold Start Capability-Without Start Add Device	-12 °C
Cold Start Capability-With Air Intake Preheating	-35 °C	Sound Pressure Level at 1m (GB/T1859)	N/A
Maximum Parasitic Load at 0°C @ 500RPM Without Aid	N/A	Maximum Parasitic Load at -15 °C @ 500 RPM Without Aid	N/A

Scopes of Supply of DCEC 6LTAA8.9-P340 Pump Drive Engine				
Air Intake System	1. Air Intake Manifold		Exhaust System	1. Exhaust Manifold
	2. Water-Air Intercooler			2. Turbocharger
	3. Air Filter			3. Exhaust Elbow
Starting System	1. Starter Motor		Charging System	1. Charging Alternator
	2. Starter Rely			2. N/A
Lubricating System			Fuel System	1. Electronic Fuel Transfer Pump
	1. Oil Pump			2. Common Rail Fuel System
	2. Oil Filter			3. Fuel Filter
				4. Ecu & Wiring Harness
Engine Auiliary Accessories	1. N/A		Power Output System	1. Flywheel
	2. N/A			2. Standard Flywheel Housing
Control System	1. Ecu Socket And Sensors		Engine Mounting System	1. Engine Mouting Bracket
Cooling System	1. Water Pump			
	2. Engine Fan			
	3. Standard Radiator			

Example 1



Real picture



MATERIAL MARINE PLATE	
Area dasar Pontoon	
Area depan Pontoon	
Area belakang Pontoon	
Area samping kiri-kanan	
Area atas Pontoon (Plat Bordes)	
CATATAN	
Semua sambungan antar plat di las luar-dalam, terkecuali bagian atas hanya diluar	
Test tekan 1 bar	
Tinggi man hole 50mm	

Example 2

