

- Hydraulic & Control Systems
- Dredgers, tugs and offshore applications
- Custom built diesel powerpacks
- Worldwide service, modifications and overhaul

HYCOS[®]

Hydraulics & Control Systems

This leaflet keeps you posted about our products and other facts about HYCOS

DHP 170 DAWSON



Hydraulic hammer/ vibrator diesel power pack

Recent Project,

Delivery of several diesel power packs.

No concessions for these powerpacks. A Caterpillar engine, Parker high pressure industrial pumps, sealed connectors with extra protection for the electric cables and Hydac filters and coolers are used. These are but a few examples to show that we strive for quality.

Quickly removable enclosures made from galvanised and powder coated steel offer optimum protection in tropical and marine environments. A stainless steel hydraulic oil tank for guaranteed operation over a long period.

The main system consists of an electronic controlled variable displacement pump. A large by-pass cooling and filtration system ensures a continuous operation at full power and in extreme conditions. There is a newly developed IP65 electronic control system with pendant control which completes the power pack.

Certified lifting eyes or shackles as well as fork lift apertures for easy transport. These power packs are of course built according to the CE regulations, quality management standard ISO9001 and good workmanship.

Dawson construction plant ordered the diesel power packs with electronic control system from HYCOS.

A new concept working with complete satisfaction in a harsh environment.

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SPECIFICATIONS



DIESEL DRIVE

Make and model	Caterpillar C6.6 ACERT
Emissions	Tier3 StageIIIA
Type	water cooled, direct injection
Aspiration	turbo charged and inter cooled
No. of cylinders	6
Power	168kW, C-rating (intermittent) @ 1800 rpm



ELECTRIC SYSTEM

System	24 VDC
Batteries	2 x 12 VDC, 120 Ah
Alternator	50 A
PLC	EPEC
Protection Rating	IP65



HYDRAULIC SYSTEM

Open circuit system for maximum cooling and filtering efficiency. Variable displacement pump for optimum power consumption and smooth operation.

Make and model	Parker PV+140cc
Regulator	Electronic displacement control
Rated flow	270 l/min
Pressure	350 bar
High pressure filter	20 microns
Full flow return filter	10 microns
Bypass filter	5 microns
Micro filtration	2 microns



COOLING SYSTEM

High capacity engine radiators direct drive. Hydraulic system includes two easy assessable vertical air to air coolers, hydraulically driven fans.

Hydraulic cooling capacity	50kW
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SERVICE CAPACITY

Full tank	500 l
Hydraulic oil tank	500 l
Engine oil	20 l
Engine coolant	35 l

DIMENSIONS

Weight	7800 kg
Length	3900 mm
Width	1400 mm
Height	1800 mm

