

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

# HYCOS<sup>®</sup>

## Hydraulics & Control Systems

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

# DHP 450



### Dredge pump diesel power pack

The DHP 450 is a standardized power pack intended to drive a dredge pump and several hydraulic auxiliaries.

No concessions for these powerpacks. A Caterpillar C 18 engine with a power output of 450 kW, 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. Ample cooling capacity 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.

The powerpack is easily adaptable to drive a number of winches, cylinders or other functions.

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.

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## SPECIFICATIONS



### DIESEL DRIVE

Make and model	Caterpillar C18 ACERT
Emissions	Tier3 StageIIIA
Type	water cooled, direct injection
Aspiration	turbo charged and inter cooled
No. of cylinders	6
Power	450kW, B-rating (intermittent) @ 1800 rpm



### ELECTRIC SYSTEM

System	24 VDC
Batteries	2 x 12 VDC, 200 Ah
Alternator	70 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+, 2 x 180 cc + 1 x 92 cc
Regulator	Electronic displacement control
Rated flow, main	700 l/min
Auxiliary flow	200 l/min
Pressure	350 bar
Full flow return filter	10 microns



### COOLING SYSTEM

High capacity engine radiators direct drive. Hydraulic system includes one easy assessable vertical air to air cooler with hydraulically driven fan.

Hydraulic cooling capacity	70kW @ $\Delta T$ 25 °
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## SERVICE CAPACITY

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Full tank	1800 l
Hydraulic oil tank	1350 l
Engine oil	20 l
Engine coolant	35 l

## DIMENSIONS

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Weight	8500 kg empty
Length	5200 mm
Width	2200 mm
Height	2300 mm

