Hydrauvision

RENTAL OPTION
DAMEN
DOP SERIES

Together with Damen Dredging Equipment, Hydrauvision Rental offers hydraulic powerpacks in combination with a complete range of heavy-duty and cost-effective submersible dredge pumps. These compact Damen DOP pumps are directly powered by a hydraulic motor, mounted in a protective casing.

The robust casing can be fitted out with a large array of suction heads, which results in a versatile dredging tool fit for a broad range of tasks. These Damen DOP pumps are designed to be user friendly and for easy maintenance.

Based on years of experience Hydrauvision has developed a range of standard hydraulic powerpacks. These powerpacks are built according to CE regulations, low noise level and quality management standard ISO 9001. With our various models we can provide you with the exact solution you need.

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Hydraulic Driven DOP Submersible Dredge Pump

The hydraulically driven DOP pump has been designed to efficiently dredge multiple mixtures. It has been fitted out with its own built-in motor, which can be driven by either the excavator's power unit, or by a separate hydraulic power pack.

On the lower casing, different types of suction heads can be flange-mounted. This easily interchangeable system ensures the fast mobilisation of the DOP submersible dredge pump and makes it fit for any dredging job.

- Hydraulic motor directly drives the dredge pump
- Robust casing protects hydraulic drive
- Fast mobilisation as hydraulic quick couplings are used
- DOP can run on excavator's hydraulic power pack
- Proven design: for the past 25 years, DOP pumps have been in use all over the world
- Hydraulically driven cutter unit and auger available

	DOP150	DOP200	DOP250	DOP350L	DOP350	DOP450L
PERFORMANCE						
Nominal mixture capacity	600 m³/hr	800 m³/hr	1,250 m³/hr	2,400 m³/hr	2,400 m³/hr	4,000 m³/hr
Max. total head	5.0 bar	5.0 bar	5.3 bar	3.2 bar	4.8 bar	3.5 bar
Max. pump speed	1,300 rpm	1,200 rpm	900 rpm	625 rpm	580 rpm	470 rpm
Max. power at shaft	80 kW	120 kW	195 kW	240 kW	360 kW	400 kW
HYDRAULIC REQUIREMENTS						
Oil flow	200 l/min	300 l/min	483 l/min	600 l/min	900 l/min	1,000 l/min
Oil pressure at motor*	250 bar	250 bar	250 bar	250 bar	250 bar	250 bar
JET WATER						
Internal diameter	80 mm	100 mm	125 mm	200 mm	200 mm	250 mm
Advised capacity	125 m³/hr	180 m³/hr	300 m³/hr	600 m³/hr	600 m³/hr	1,100 m³/hr
Advised pressure	8 bar	8 bar	8 bar	8 bar	8 bar	8 bar
DREDGE PUMP DIMENSIONS						
Suction internal diameter	150 mm	200 mm	250 mm	350 mm	350 mm	450 mm
Discharge internal diameter	180 mm	200 mm	250 mm	350 mm	350 mm	450 mm
Max. spherical passage	77 mm	125 mm	130 mm	200 mm	150 mm	165 mm
WEIGHT						
Basic DOP pump unit	1,100 kg	1,360 kg	2,425 kg	4,580 kg	5,330 kg	7,400 kg

* add for pipeline losses ** L in pump type stands for Low Pressure type dredge pump

Your partner in hydraulic drive technology

Hydrauvision is an expert in all systems that include hydraulic drive technology. We offer total solutions that incorporate and combine drive technology, construction technology, and control technology. High-performance engineering, a multidisciplinary perspective, and flexibility are the hallmarks of our approach. In addition, we offer custom rental solutions including power packs, winches, reel units and offshore frames. This way, you can rely on quality equipment whenever and wherever you need it, without considerable investmentor concerns about storage, maintenance or certification.

With our various powerpack models and options, we can provide you with the exact solution you need to rent with one of the Damen DOP pumps.

- Total solutions in hydraulic drive technology
- High performance engineering
- 24/7 worldwide support
- Hydraulic rental equipment

Type	P300 (provisional)	P400 (provisional)	P600	P800
Description	Drives DOP150 and DOP200	Drives DOP150 and DOP200	Drives DOP250 and DOP350L	Drives DOP350 and DOP450L
Dimensions (mm)	3800 x 1600 x 2150	3800 x 1600 x 2150	4700 x 1800 x 2272	5125 x 1800 x 2320
Total weight (excl. fluid)	5000 kg	5400 kg	7300/7750 kg	8500 kg
Max. oil flow	300 l/min	400 l/min	600 l/min	800 l/pm
Max. working pressure	350 Bar	350 Bar	350 Bar	350 Bar
Engine	Volvo Penta D8 / Caterpillar C7.1	Caterpillar C9.3 or C9.3B	Volvo Penta D13 / Caterpillar C13B	Volvo Penta D16 / Caterpillar C18
Exhaust certification (EU)	Stage 3A / Stage V	Stage 3A / Stage V	Stage 3A / Stage V	Stage 3A / Stage V
Engine power (kW)	235 (Volvo) / 205-225 (CAT)	261-290 (CAT)	391-405 (Volvo) / 403 (CAT)	565-596 (Volvo) / 522-597 (CAT)
Noise level	81 dBa @ 7 m	82 dBa @ 7 m	83 dBa @ 7 m	84 dBa @ 7 m
Capacity hydraulic tank	850 L	850 L	1220 L	1800 L
Capacity diesel tank	525 L	525 L	730 L	1070 L
Electronics	PLC based, IP 67 -40 to 85°C	PLC based, IP 67 -40 to 85°C	PLC based, IP 67 -40 to 85°C	PLC based, IP 67 -40 to 85°C
Ambient conditions	-20 to +45°C	-20 to +45°C	-20 to +45°C	-20 to +45°C
Transport	In 20 ft open top container	In 20 ft open top container	In 20 ft open top container	In 20 ft open top container

DOP350 UNLOADING BARGES

DOP350 MINING SAND

UP FOR ANY JOB

DOP200 CREATING A CAR PARK AND PUMPING THE SAND TO THE SPOIL FIELD

DOP250 AT WORK ON RAILWAY TUNNEL

DOP250 OPERATING IN A CONFINED SPACE

DOP250 MINING SAND

DOP250 ON PONTOON FOR HARBOUR MAINTENANCE

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All performance data and specifications mentioned in this document are guidelines. Due to operational and environmental influences performance data may vary. All products are subject to continuous review. Hydrauvision reserves the right to change specifications without prior notice.
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