



# Damen Suction Dredger

## DOP Dredge Pump

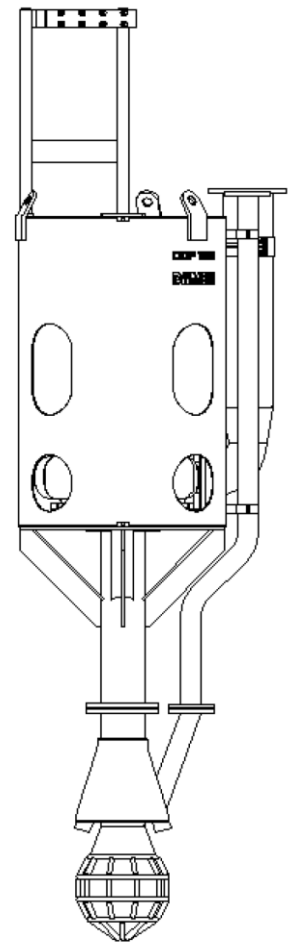
Damen Dredging Equipment has developed, in collaboration with various dredging contractors, a series of submersible dredge pumps: the DOP® pumps. These pumps can be hydraulically powered by hydraulic excavators, cranes or hydraulic power packs, and they are equipped with a mechanical seal which enables it to work without gland water or lubrication. The dredge unit can be installed on an excavator arm, suspended from a wire, or installed on a small dredger pontoon.



Different types of suction heads / cutter heads can be provided to suit any dredging situation.

Gulf Cobla operates the second largest Damen DOP pump available, the DOP3025, and has a sand production head, a flat bottom head and a cutter unit available to work with this dredge pump.

For dredging underneath bridges and low structures, Gulf Cobla developed a custom build dredge pontoon whereby the dredge unit is placed on a hinging ladder frame. The height above water level of this dredge unit is only 3.2 mtr.



### Performance DOP 3025

Max. mixture capacity	800-1400	m <sup>3</sup> /hr
Pump speed approx.	700	rpm
Max. power at shaft	250	kW

### Hydraulic requirements

Oil flow	700	l/min
Oil pressure	225	Bar

### Cutter driver

Max. power at shaft	38	kW
Oil flow	105	l/min
Oil pressure	225	Bar

### Jet water

Connection diameter	150	mm
Advised capacity	200-350	m <sup>3</sup> /hr
Advised pressure	5	bar

### Dimensions

Suction diameter	300	mm
Discharge connection	300	mm
Spherical passage	150	mm

