Dredging Equipment

Reliable, efficient and robust

The best tool for small scale dredging projects

Specifically developed for the dredging industry

For professional contractors and dredging companies
### DAMEN DOP® Pump

**Characteristics**

<table>
<thead>
<tr>
<th></th>
<th>150</th>
<th>200</th>
<th>250</th>
<th>350L</th>
<th>350</th>
<th>450L</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Max. mixture capacity</strong></td>
<td>600 m³/h</td>
<td>800 m³/h</td>
<td>1,250 m³/h</td>
<td>2,400 m³/h</td>
<td>2,400 m³/h</td>
<td>4,000 m³/h</td>
</tr>
<tr>
<td><strong>Max. pump speed</strong></td>
<td>1,300 rpm</td>
<td>1,200 rpm</td>
<td>900 rpm</td>
<td>625 rpm</td>
<td>580 rpm</td>
<td>470 rpm</td>
</tr>
<tr>
<td><strong>Max. power at shaft</strong></td>
<td>80 kW</td>
<td>120 kW</td>
<td>195 kW</td>
<td>170 kW</td>
<td>360 kW</td>
<td>400 kW</td>
</tr>
<tr>
<td><strong>Suction diameter</strong></td>
<td>150 mm</td>
<td>200 mm</td>
<td>250 mm</td>
<td>350 mm</td>
<td>350 mm</td>
<td>450 mm</td>
</tr>
<tr>
<td><strong>Discharge diameter</strong></td>
<td>180 mm</td>
<td>200 mm</td>
<td>250 mm</td>
<td>350 mm</td>
<td>350 mm</td>
<td>450 mm</td>
</tr>
<tr>
<td><strong>Max. spherical passage</strong></td>
<td>77 mm</td>
<td>125 mm</td>
<td>130 mm</td>
<td>200 mm</td>
<td>150 mm</td>
<td>165 mm</td>
</tr>
<tr>
<td><strong>Weight (basic DOP unit)</strong></td>
<td>1,100 kg</td>
<td>1,360 kg</td>
<td>2,425 kg</td>
<td>4,580 kg</td>
<td>5,330 kg</td>
<td>7,350 kg</td>
</tr>
</tbody>
</table>
Dredging Equipment

DOP 450L

DOP 350

DOP 350L

DOP 250

DOP 200

DOP 150

Capacity (m³/h)

DAMEN DOP® PUMP

PRODUCTION

Production Curves:
- Fine sand
  - D₅₀: 0.11 mm
  - In-situ density: 1,900 kg/m³
- Coarse sand
  - D₅₀: 0.37 mm
  - In-situ density: 2,000 kg/m³

At 10 m dredging depth and 30% concentration, 20 m flexible discharge piping.
Typical applications:
- Maintenance
- Sand / gravel mining
- Mobile booster station
- Mounted on ladder or crane
- Suspension from A-frame

Typical areas of operation:
- Harbours
- Rivers
- Canals
- Restricted areas
- Hopper barges
Dredging Equipment

STRONG POINTS

BASIC DESIGN

- Delivery from stock
- Heavy duty design
- Low maintenance
- Proven design
- Compact
- Versatile
- Multi functional
- Low cost
- Large spherical passage
- Various suction heads available
- In-house dredge pump design and development
- Soil investigation & dredging consultancy
- Optimization of dredging installation
- Production calculation programs
- FEM calculation construction
- Proven heavy duty technologies and principles

- Strong constructions

- Continuous improvement of standards

- Standardized components and principles:
  - Heavy duty mechanical seal
  - Designed for rough environments
  - Changeable wearing parts
  - Changeable suction heads
  - Components of well known manufacturers
Dredging Equipment

DOP® HEADS

- SAND PRODUCTION HEAD
- LEVELLER
- CUTTER UNIT
- AUGER UNIT
DREDGING EQUIPMENT

SAND PRODUCTION HEAD

- Jet-water pipe and nozzles
- Suspension from crane or A-frame
- High production capacities
Dredging Equipment

- Jet-water pipe and ring around head
- Suspension from crane or A-frame
- Bottom profile levelling in restricted areas
- Separate hydraulic powered cutter
- Fixed suspension on crane or ladder
- For removal of packed sand
Dredging Equipment

- Accurate dredging with minimal (close to zero) turbidity
- Fixed suspension on crane or ladder
- Dredging of contaminated sediments
Dredging Equipment

DOP® HEADS

SPECIALS
Dredging Equipment

AVAILBLE OPTIONS

- Production instrumentation
- Process instrumentation
- Powerpack
- Jet water pump
- Pipes and hoses
Dredging Equipment

AVAILABLE OPTIONS

PRODUCTION INSTRUMENTATION
Dredging Equipment

AVAILABLE OPTIONS

PROCESS INSTRUMENTATION

PUMP SPEED

DISCHARGE PRESSURE

DEPTH MEASUREMENT
AVAILABLE OPTIONS

DREDGING EQUIPMENT

DIESEL DRIVEN HYDRAULIC POWERPACK
Dredging Equipment

AVAILABLE OPTIONS

DIESEL DRIVEN JET WATER PUMP
**Dredging Equipment**

- Discharge hoses including floats
- Discharge over land (Steel / HDPE)
- Self floating hoses
- Hydraulic hoses
- Jet-water hoses
- Geotubes
Dredging Equipment

After sales department:
- Components with short delivery time
- Complete package of spare parts
- Registration of components
- Advice and support
- Dedicated team involved from order to shipment

Damen Field Service:
- Post delivery support
- Warrantee and after sales services
- Training courses (in-house and on-site)
- Technical check-ups
- Service in remote areas