



# GRAVING DOCK

DAMEN CIVIL PRODUCT

## GENERAL

Ref/No	Damen Shipyards Brest
Basic functions	Shiprepair and conversion of vessels

## DIMENSIONS

Length	up to 500	m
Width	up to 100	m
Height	up to 25	m
Area	50.000	m <sup>2</sup>
Volume	1.250.000	m <sup>3</sup>

## CONSTRUCTION

- Heavy concrete floor;
- Thick concrete walls, fortified Sheet-pile walls or Combi-walls;
- Capping beams (if applicable);
- Concrete pull piles or steel anchor rods;
- (floating steel) Locking gate or caisson;
- Pump chambers / machine room(s);
- Stairs;
- Watertight doors and external areas;
- Safety railing.

## INSTALLATION

- Electrical distribution installation (low and high voltage)
- Water installation;
- Air pressure installation;
- (large) Pump installations;
- Mooring bolders and fenders;
- Shore power;
- Fuel/oil/LNG transfer installations and reservoirs;
- Refill facilities;
- Terrain illumination;
- Fire extinguishing installation;
- Security/safety (detection) systems.

## DESCRIPTION

Damen Civil designs, engineers and provides technical assistance during the establishment of graving docks. A graving dock is basically used for surveys, ship-repair and conversion but can also be used for assembling new build hulls (partly prefabricated) of (large) ships. The graving dock has a large pump machine besides the dock. At each side of the dock cranes can be situated for hoisting aid to the docked ships.

As a global shipyard owner with graving docks up to 450 meters, Damen elaborates the most cost effective and efficient dock for your yard.

## OPTIONAL TOOLS AND EQUIPMENT

- Fixed and/or movable crane capacity;
- Forklift / reach stacker;
- Blasting & painting equipment;
- Fully equipped workshop (containers);
- Workshop building;
- Tugs, Multicats and/or other workboats;
- Wedges in all variations;
- Power packs / generators;
- Gangways & catwalks;
- Compressors.

## ADDITIONAL OPTIONS

- Dock covering for conditioned environment (weather influences);
- Exploitation feasibility study;
- Bathymetric and soil survey;
- Office units;
- Design engineering;
- Training program for personnel;
- Construction / realization;
- Supervision;
- Maintenance program.

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DOCK PLATFORM



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## DAMEN

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