

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
Heigth	up to 25	m
Area	50.000	m^2
Volume	1 250 000	m^3

CONSTRUCTION

- $\ {\scriptstyle \square} \ Heavy \ concrete \ floor;$
- ☐ 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;
- $\ \ {\scriptstyle \square} \ \ Pump \ chambers \ / \ machine \ room(s);$
- □ Stairs;
- □ Watertight doors and external areas;
- □ Safety railing.

INSTALLATION

- $\hfill \square$ Electrical distribution installation (low and high voltage)
- □ Water installation;
- □ Air pressure installation;
- □ (large) Pump installations;
- □ Mooring bolders and fenders;
- $\hfill\Box$ Shore power;
- $\hfill \square$ 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

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

ADDITONAL OPTIONS

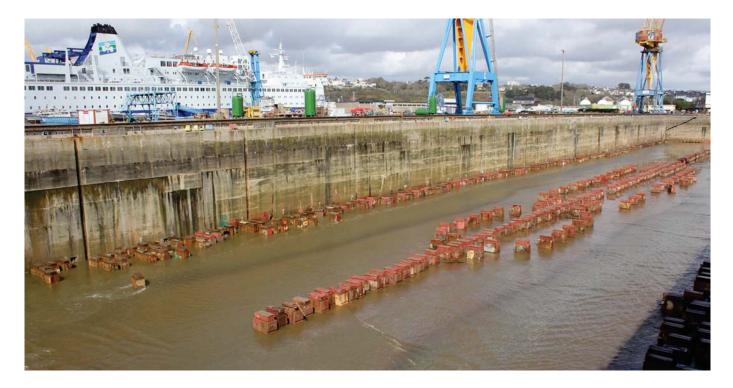
- $\hfill \square$ Dock covering for conditioned environment (weather influences);
- $\ {\scriptstyle \square} \ {\sf Exploitation} \ {\sf feasibility} \ {\sf study};$
- □ Bathymetric and soil survey;
- □ Office units;
- □ Design engineering;
- □ Training program for personnel;
- □ Construction / realization;
- □ Supervision;
- □ Maintenance program.



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DOCK PLATFORM



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DAMEN SHIPYARDS GROUP