

# DAMEN FLOATING DRYDOCK 5020

## Outline Specification FDd 5020

### GENERAL

Ref number	03100-FDd5020
Description	Monohull FDd5020, for all vessels up to 1.000t and up to 50t/m keel load, including all types Damen Tugs. Safe and simple lay-out to enable operation by yard's crew. Materials chosen for durability and easy maintenance. Prepared for load-out.
Classification	Optional

### DIMENSIONS (drydock)

Length o.a.	50,0 m
Beam o.a.	24,0 m
Depth to upper deck	10,5 m
Depth to drydock floor	1,7 m
Max draught	9,0 m
Min Freeboard to upper deck (when fully submerged)	1,2 m
Min Freeboard to dock floor (with 1000t load)	0,3 m
Length over keel blocks	50,0 m
Internal width at upper deck level	20,0 m
Internal width at dock floor level	20,0 m
Max draught above keel blocks	6,3 m
Max draught above dragline pl.	7,0 m

### DIMENSIONS (vessel in drydock)

Max length	50,0 m
Max width	19,5 m
Max displacement	1.000 t
Max draught (on keel blocks)	6,0 m
Max draught (on dragline plates)	6,7 m
Max trim	3,0 cm/m

### CAPACITIES

Max. lifting capacity (0,3m freeboard to dock floor)	1.000 t
Max. load on center line	50 t/m
Max. load of one keel block	50 t
Total no of keel blocks	74 pcs
Max. load dock floor	15 t/m <sup>2</sup>
Deck thickness	15 mm

### BALLAST SYSTEM

Ballast volume pontoon	2.050 m <sup>3</sup>
Ballast volume towers	700 m <sup>3</sup>
No of ballast pumps	2 pcs
Total ballast cap	900 m <sup>3</sup> /h
Pump rooms & voids volume	320 m <sup>3</sup>
Ballast piping hot dip galvanised	100 %

### PERFORMANCES (APPROX.)

Lifting time (from 9,3m to 1,7m draught, empty drydock)	50-70 min
Sinking time (from 1,7m to 9,3m draught, empty drydock)	60-80 min

### CRANE

No. of drydock cranes	1 pcs
Main hoist lift capacity	15 t @ 15m 10 t @ 20m 6 t @ 31m
Max main hoist reach	31 m
Aux hoist lift capacity	2 t @ 6-35m
Max aux hoist reach	35 m
Control via remote control unit	yes
Control via operator cabin	option
Max power consumption (380v)	92 kW

### CONTROL ROOM

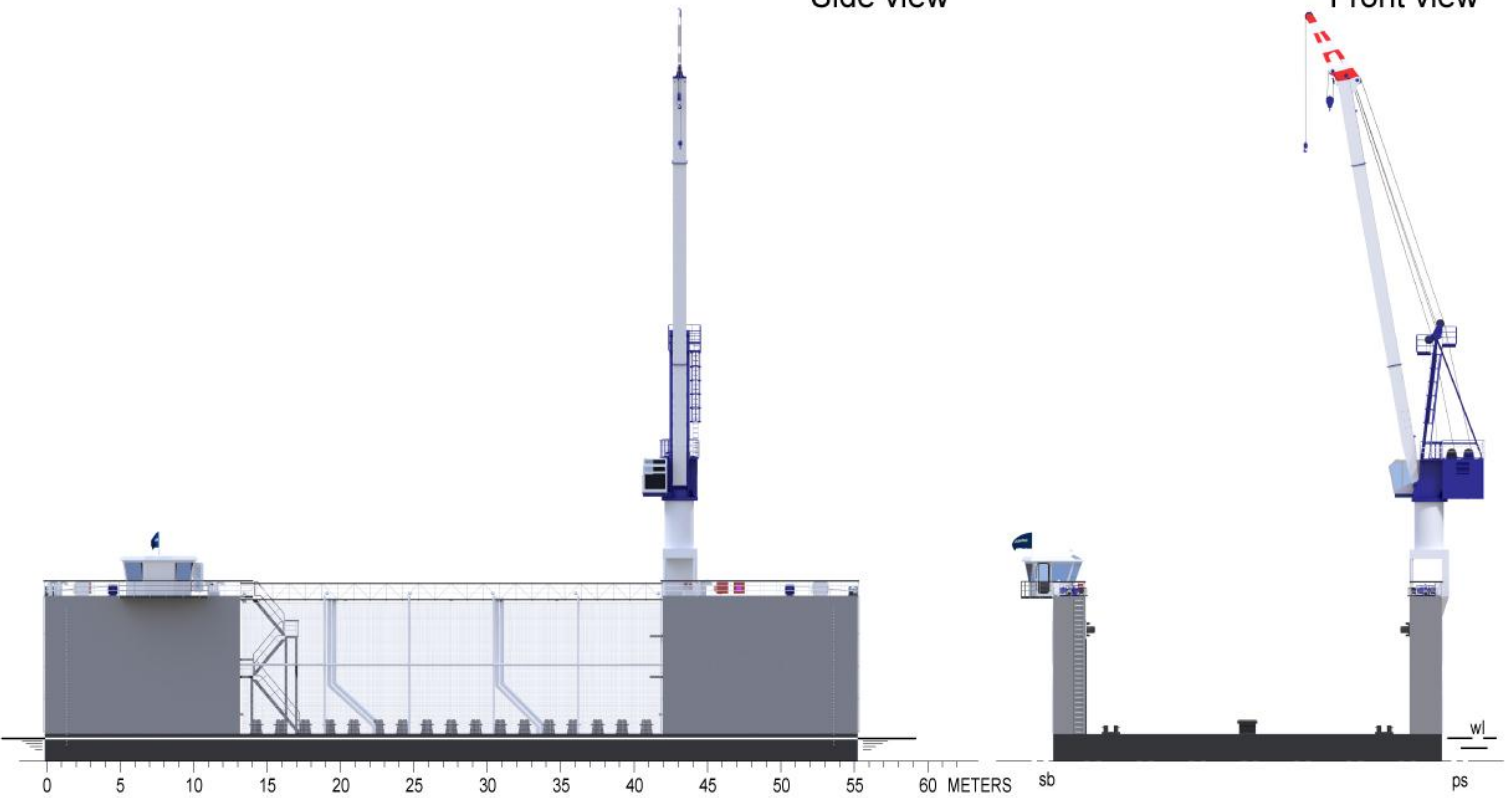
Control Room equipment	Ballast tank level system, Ballast control panel, Alarm panel, E-switchboard
Drydocking equipment	Deflection monitoring & alarm system, List & Trim monitors and backup, draft indication system
Standard equipment	VHF radio, anemometer, searchlight, binoculars, barometer
Other standard equipment	AC unit, charger for handheld VHF, charger for Crane Remote, first aid kit, fire extinguisher, life buoy with line.

### FIRE FIGHTING SYSTEM

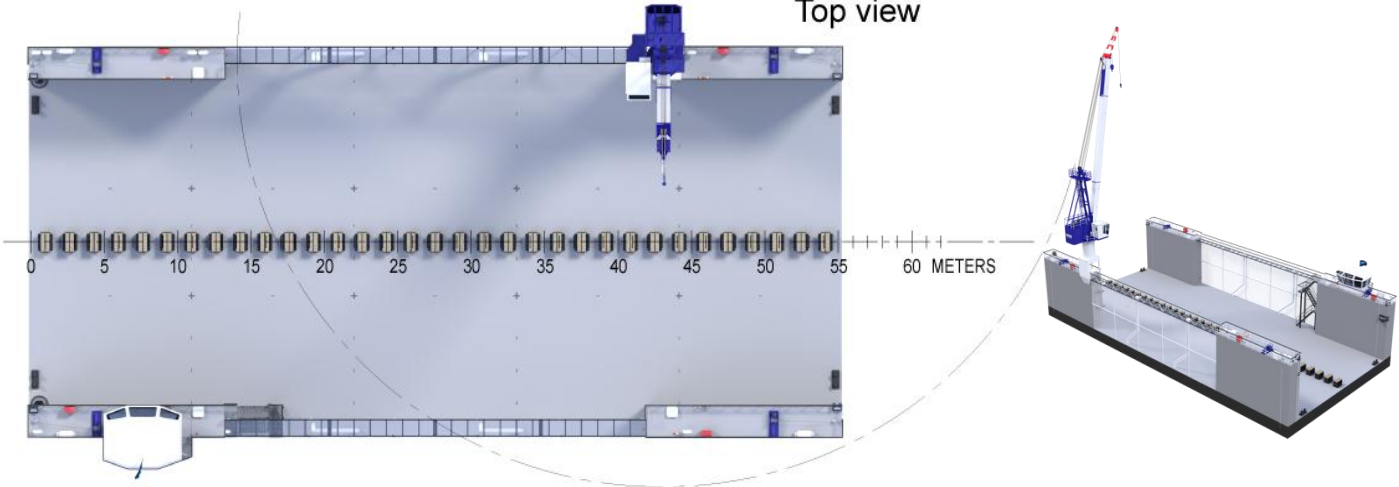
No. of fifi pumps	1 pc
Fifi pump capacity, each	25 m <sup>3</sup> @80mwc
No. of hydrants upper deck	4 pcs
No. of hydrants dock floor	4 pcs
Fifi piping hot dip galvanised	100 %

Side view

Front view



Top view



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