GENERAL
Ref number 03100 – FDd7020
Description Monohull FDd7020, for all vessels up to 1.75t 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. 70.0 m
Beam o.a. 24.0 m
Depth to upper deck 10.5 m
Depth to drydock floor 2.0 m
Max draught 9.3 m
Min Freeboard to upper deck (when fully submerged) 1.2 m
Min Freeboard to dock floor (with 1.75t load) 0.3 m
Length over keel blocks 70.0 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 plates 7.0 m

DIMENSIONS (vessel in drydock)
Max length 70.0 m
Max width 19.5 m
Max displacement 1.750 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 1.750 t
(0.3m freeboard to dock floor)
Max. load on center line 50 t/m
Max. load of one keel block 50 t
Total no of keel blocks 102 pcs
Max. load dock floor 15 t/m²
Deck thickness 15 mm

BALLAST SYSTEM
Ballast volume pontoon 3.050 m³
Ballast volume towers 850 m³
No of ballast pumps 3 pcs
Total ballast cap 1400 m³/h
Pump rooms & voids volume 380 m³
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 2 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, switchboard
Drydock equipment Deflection monitoring & alarm system, List & Trim monitors and backup, draft indication system
Standard equipment VHF radio, anemometer, searchlight, binoculars, barometer
Control room upholstery AC unit, charger for handheld VHF, charger for Crane Remote, first aid kit, fire extinguisher, life buoy with line.

FIRE FIGHTING SYSTEM
No. of fire pumps 1 pc
Fire pump capacity, each 25 m³@80mwc
No. of hydrants upper deck 4 pcs
No. of hydrants dock floor 4 pcs
Fire piping hot dip galvanised 100 %
DAMEN FLOATING DRYDOCK 7020
Outline Specification FDd 7020