

The Nav Worker is a good maneuverable but strong and speedy mooring- and workboat for operating on rivers and sea channels. It is a further development of the common Mooring Boats „Makkerboote“, which are used by the company SCHRAMM since a long time.



### BASIC DATA

NAME:	NavWorker
CLASSIFICATION:	Workboat with a max. displacement of 10 m <sup>3</sup>
WEIGHT:	9,3 t
SPEED:	8,8 kn
CREW:	1-2 person
MGO:	1 m <sup>3</sup>
LENGTH, o.a.:	9,85 m
BREADTH:	3,45 m
T DWL :	1,20 m
T max	1,50 m
DEPTH Inner Deck:	1,24 m
DEPTH Outer Deck:	1,80 m
HEIGHT Hull :	1,87 m
AIRDRAUGHT @DWL:	approx. 14,8 m

### OUTFITTING

- 4x single bollards with integrated air inlet/ outlet
- 1x 25kg foldable anchor, galvanized with 30m rope fastened inside of bulwark an SB side
- 1x lifebuoy with self-igniting light, lifeline and smoke signal fastened on front side of control console
- 1x 6kg portable powder fire extinguisher fastened inside bulwark PS side
- 1x removable signal mast approx 1,5m (Aluminium pipe) with mounted navigation lights (1x PS/SB, 1x Top) LED type with cables and plugs
- Stern light LED type mounted on aft upper deck
- 2x mooring rope 10m, 30mm dia, each end spliced eye
- 1x boat hook 3m
- 1x working light 24V mounted front side of control console
- 1x mobile working/searchlight 24V with 3m spiral cable and plug on control console

### CONTROL CONSOLE EQUIPMENT

- 1x weatherproof VHF Radio with handheld 24V
- 1x weatherproof loudspeaker 24V
- Antenna for VHF
- 1x horn 24V with button
- Engine control station with relevant analogue displays such as RPM, Temp, Start-Stop
- Rudder-Angle Indicator RAI
- 2x Tank level Indicator
- Control lever for engine speed and direction (right side)
- Steering wheel approx □700mm with hydraulic pump
- Navigation lights control
- Cover

### FENDERING

- Structural steel fendering on sheer rail SB, PS and stern
- Rubber block type fenders on bow and sides of bow according to GA Plan and steel plans
- 50mm half profiles on bow below WL
- Welded steel pipes on stern as protection pipes

### STEELWORKS, HULL, PAINTING

#### STEELWORKS:

Hull made of IACS certified steel grade A/ SJ235G, fully welded and according to IACS class standards: Hull is fully gridblasted SA2½, cleaned and shop primered

#### COATING, GENERAL:

high quality coating with Jotun, International or equivalent 2-component paint system

#### COATING, UNDERWATER:

e.g. 2x125µ Epoxy primer, 75µ Epoxy Tie Coat, 125µ TBT free Antifouling

#### COATING, ABOVE WL AND INSIDE:

e.g. 2x125µ Epoxy primer, 2x75µ Epoxy Tie Coat, sanded areas

#### ANODES:

A minimum of 8x3kg zinc anodes are fitted to the hull

## MACHINERY

### ENGINE:

Iveco N67-150 with 110kW@2800rpm resilient mounted with silencer min 35dB

### GEARBOX:

TechnoDrive/ Twin Disc reverse gearbox flanged on engine

### COOLING:

closed keel cooling with expansion tanks (level gauge and low level alarm)

### SHAFTING:

stainless steel, open system, grease lubricated, rubber bearings, stuffing box

### PROPELLERS:

fixed pitched bronze propeller, 650mm dia, 3 blades, ice strengthened

### NOZZLES

no nozzles

### RUDDER:

high performance flap rudder

### STEERING GEAR:

1x double acting hydraulic cylinder combined with hand driven pump on steering wheel, easy movable

### AUXILARY:

2x maintenance free gel type battery (24V) mounted below deck with sufficient capacity for vessels system (e.g. starting up engine, VHF etc.). Fedded from engine mounted alternator

### FUEL TANKS:

2x structural MGO storage tank of approx. 500ltr each, with manhole access 250mm dia, filling line connection below deck, vent pipe above deck, air pipe heads with flame arrestor mounted line. Tank level gauges and level indicators for control console mounted.

### FUEL SYSTEM:

1x pre-filter, 1x switchable double filter on engine. Each tank connection closable by ball valve

## DRAINAGE, HATCHES AND STORES

### COCKPIT DRAIN:

self draining cockpit with transverse trench between main service hatch and control console

### MAIN SERVICE HATCH:

watertight Flush Deck service hatch for engine and gearbox, dimensions approx. 1500x800mm bolted with stainless steel bolts; with integrated smaller hatch approx. 600x600mm with central locking and outboard drainage of coaming

### STERN TUBE SERVICE HATCH:

watertight flush deck hatch with central locking and outboard drainage, approx. 600x800mm

### STEERING GEAR SERVICE HATCH:

watertight flush deck hatch with central locking and outboard drainage, approx. 600x600mm

### DECKSTORE:

2x deckstore approx. 1200x300mm in structure aft of control console, with watertight hatches, drainage to cockpit and wooden grating to sit down