



## CONSTRUCTION/CLASSIFICATION

Built by	Motoren and Machinefabriek Van Boelen, The Netherlands
Year of construction	1981
Classification	MCA Workboat Category 2

## FEATURES

The Norma can operate in Water Injection Dredging Mode or in plough mode.

Accurate horizontal positioning and track plotting is achieved using DGPS to enable targeted dredging.

Vertical control achieved using tidal data transmitted from shore together with digital ladder indication.

Twin Schottel thrusters permit a high degree of manoeuvrability providing the ability to dredge accurately as well as in confined areas.

The Norma is equipped with plough/ bed levelling units in order to support dredging operations to achieve accurate finished levels.

She can also be used independently for bed levelling to extend the intervals between maintenance dredging.

## MAIN DATA

Type	Stantug
Length overall	27.00 m
Length BPP	18.80 m
Moulded breadth	9.5 m
Moulded depth	3 m
Draft	2.15 m
Main Propulsion	625 kW
Propulsion	2 Schottel thrusters 2 x 220 kW (2 x 300 HP)
Bow Thruster	125 kW (170 HP)
Max. Capacity	6 Persons

## Plough Specification

Max. Depth	17.00 m
Width	9.00 m
Capacity	23.00 m3



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## FEATURES

Water injection is achieved via two low pressure water pumps which circulate water to a specially designed injection head fitted with multiple water jets.

The combined output of these pumps is up to 7400m<sup>3</sup> per hour.

The injection head is brought into contact with the seabed and a predetermined thickness fluidised.

Accurate horizontal positioning and track plotting is achieved using DGPS to enable targeted dredging.

Vertical control is achieved using tidal data transmitted from shore together with digital ladder depth indication.

Twin Schottel azimuth thrusters permit a high degree of manoeuvrability with the ability to dredge accurately and in confined areas.

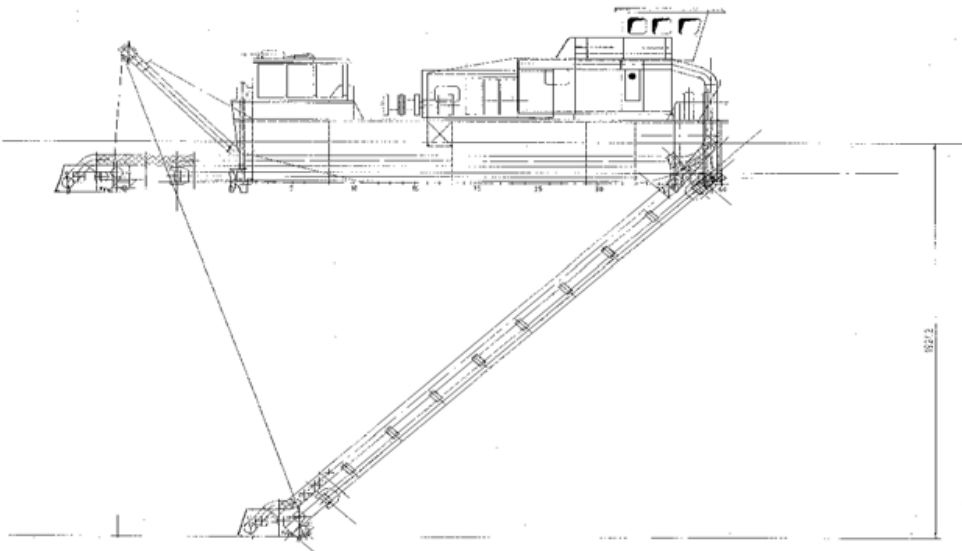
## MAIN DATA

Working areas	Sheltered waters
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### Jetting Head

- Maximum depth 19.00 m
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- Width 8.80 m
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