



**Breeman Engineering & Services B.V.**

**Breeman & van Seventer B.V.**

In a turn-key project Breeman & van Seventer B.V. and Breeman Engineering & Services B.V. have jointly developed two spudcarriers. These spudcarriers are used for the positioning of a pontoon for rock-dumping at sea.

# Spud carrier

## DE MAIN DESIGN PARAMETERS WERE:

Wave Hs	0,7 m
Current	3 kn
Spud load	25 tons
Waterdepth	15 m

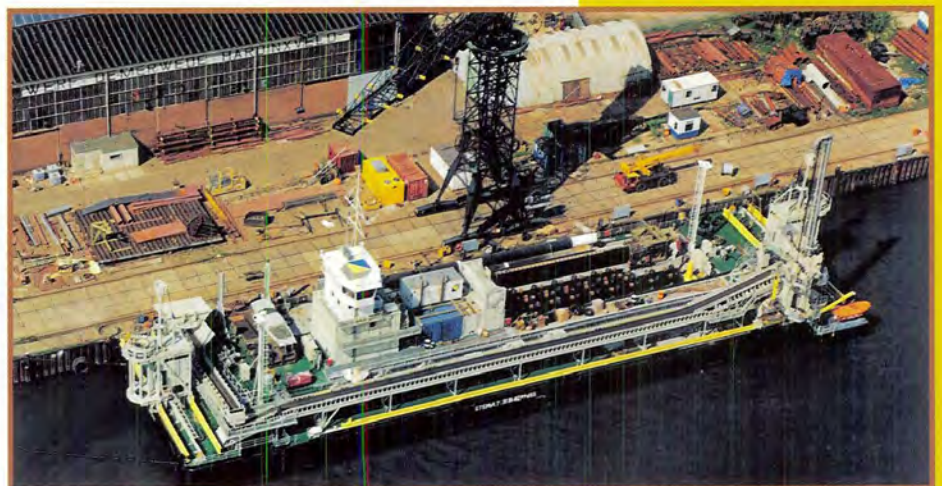
The construction of the spudcarrier is based on two separate platforms. The platforms are interconnected by means of a tubular truss frame.

Connected to the bottom platform are four wheelbogies. The bogies are mounted on a fixed position with  $\pm 3$  mm accuracy.

The 650 mm diameter wheels run in crane rail consisting of built up H-beam with internal dimension 653 mm.

All moving parts are periodically lubricated by a central greasing system.

The spudcarrier has a hydraulic drive system. The travelling motion is driven by hydraulic motors connected to pinions through coaxial planetary gearboxes. The pinions run on gear rack fitted in the centre of both rail beams.





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The complete hydraulic powerpack is fitted in a protective housing inbetween the truss frame.

On the upper platform the connection for the spudlift cylinder is located. When slacked, the cylinder rests in a supporting collar with D-rubber lining. The ring clamping the pole in the upper platform includes flexible rubber blocks. The controlled addition of flexibility prevents the transmission of shock loads from exceeding acceptable limits.

Breeman Engineering & Services B.V. has developed a novel type of spudcarrier satisfying the customers specifications. Breeman & van Seventer B.V. has manufactured and assembled the complete spudcarrier and rail beams.

On board the pontoon the rails were fitted, aligned and welded. Finally the spudcarrier was mounted in the rail beams.

The total project including development, engineering, construction and installation comprised a period of 7 months.

