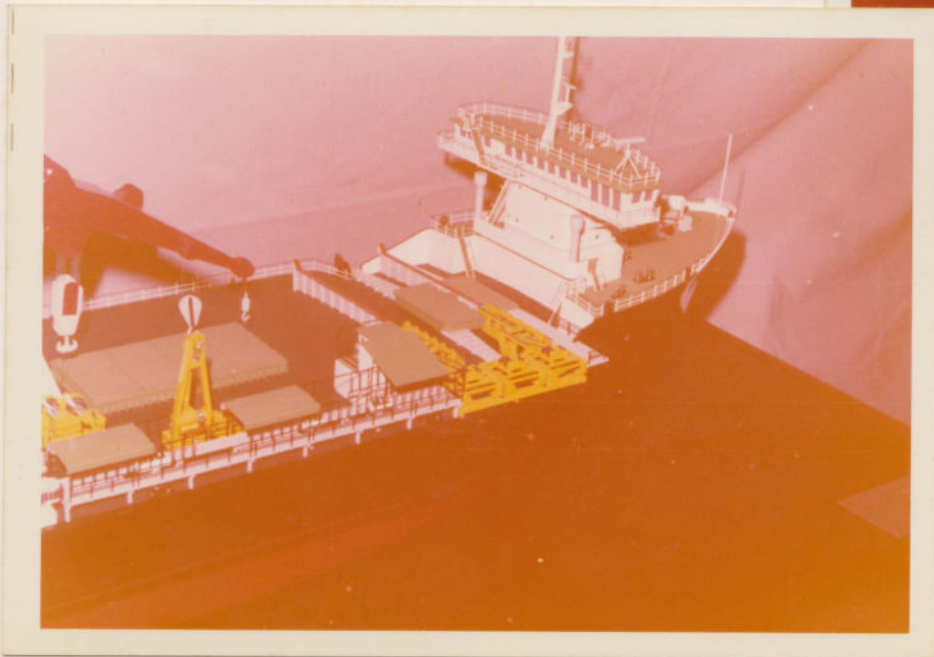
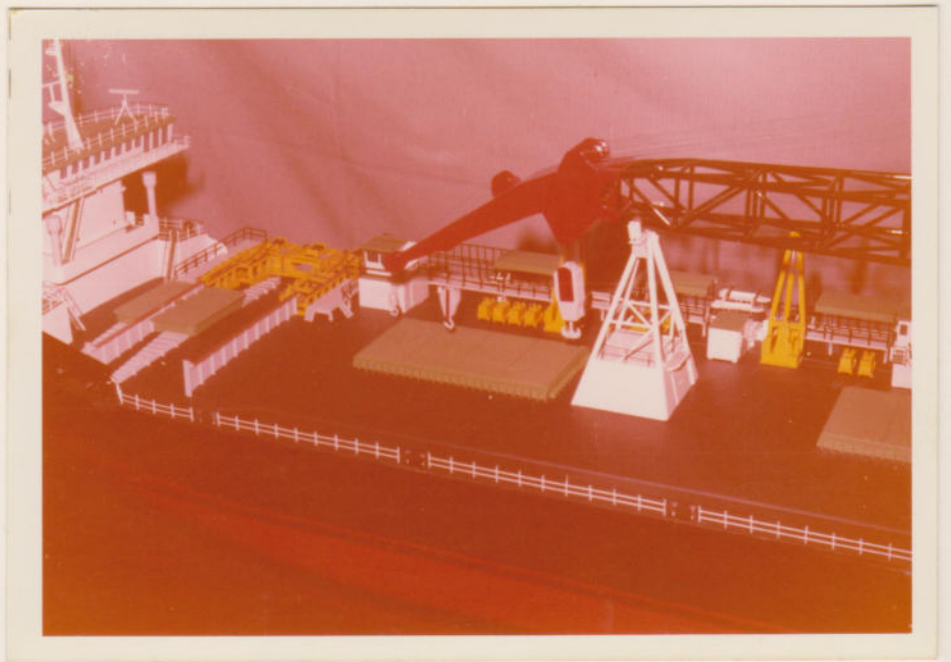




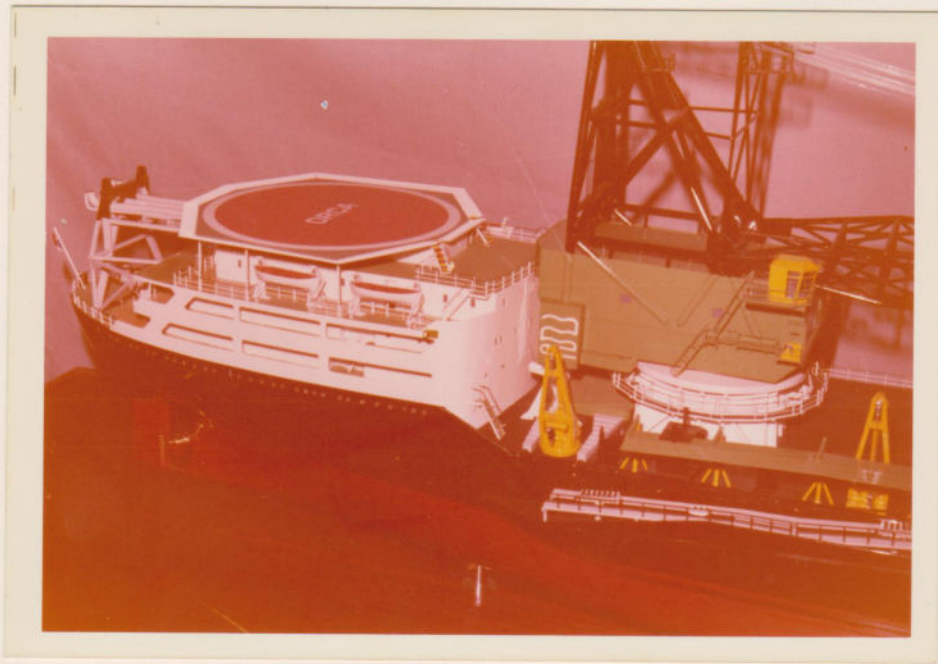
ORCA
1:100
BOELE.

804 WUR





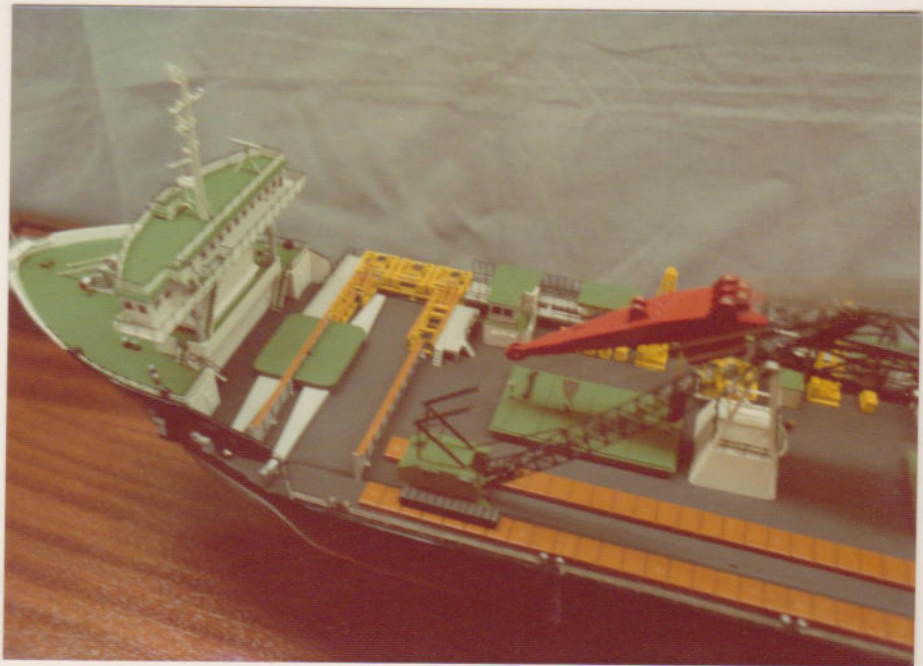
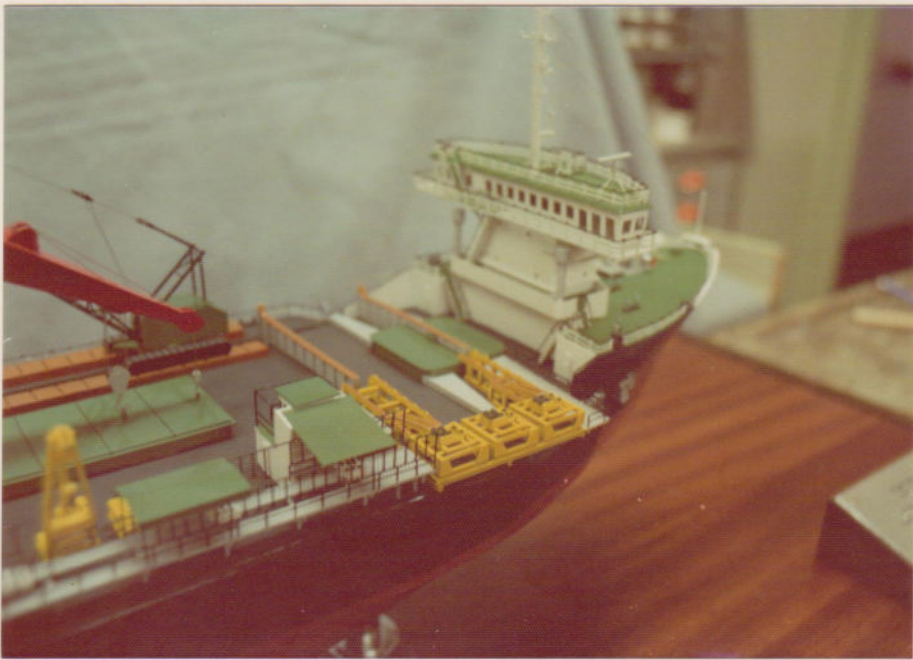


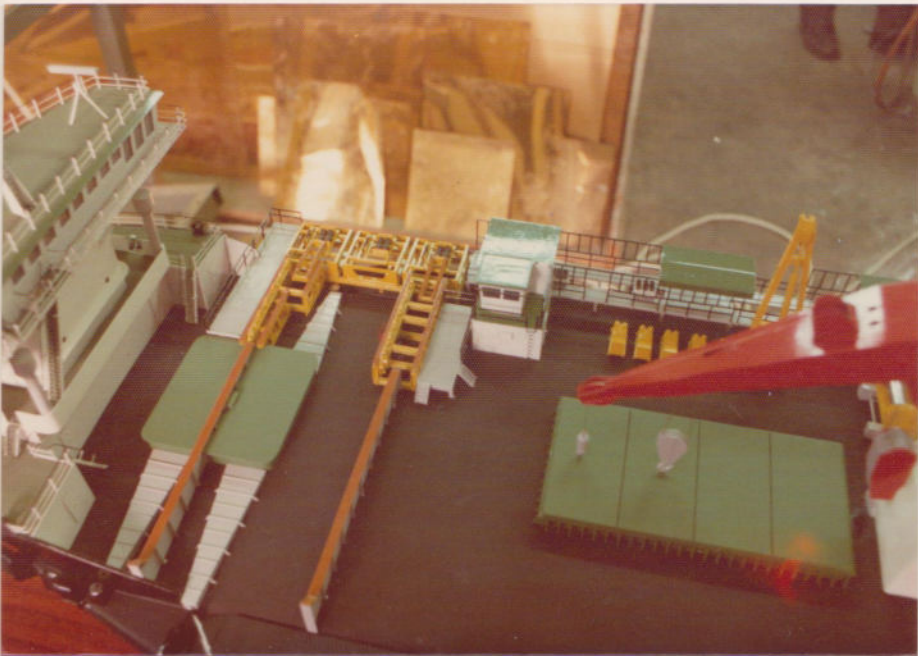


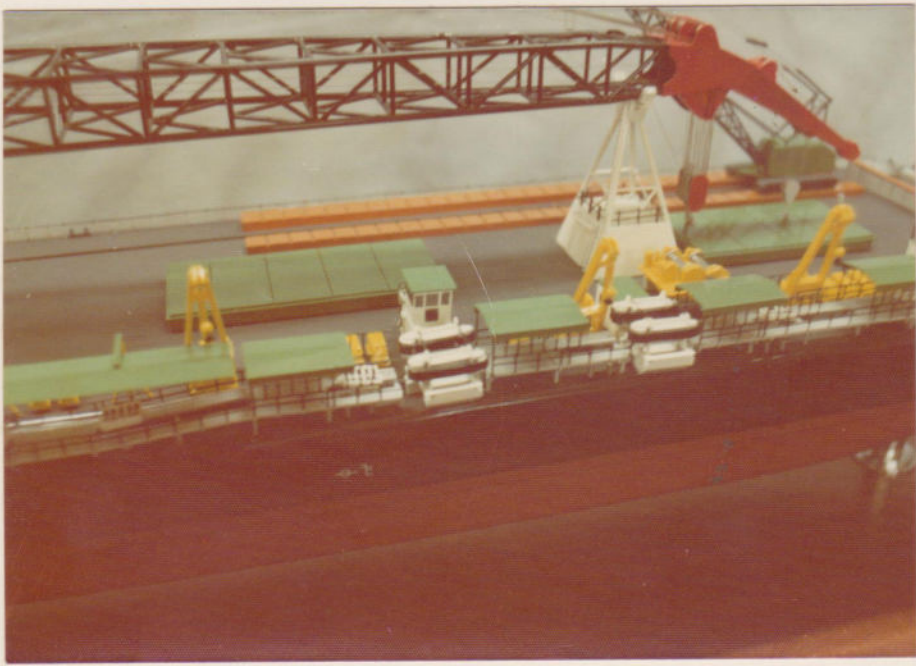


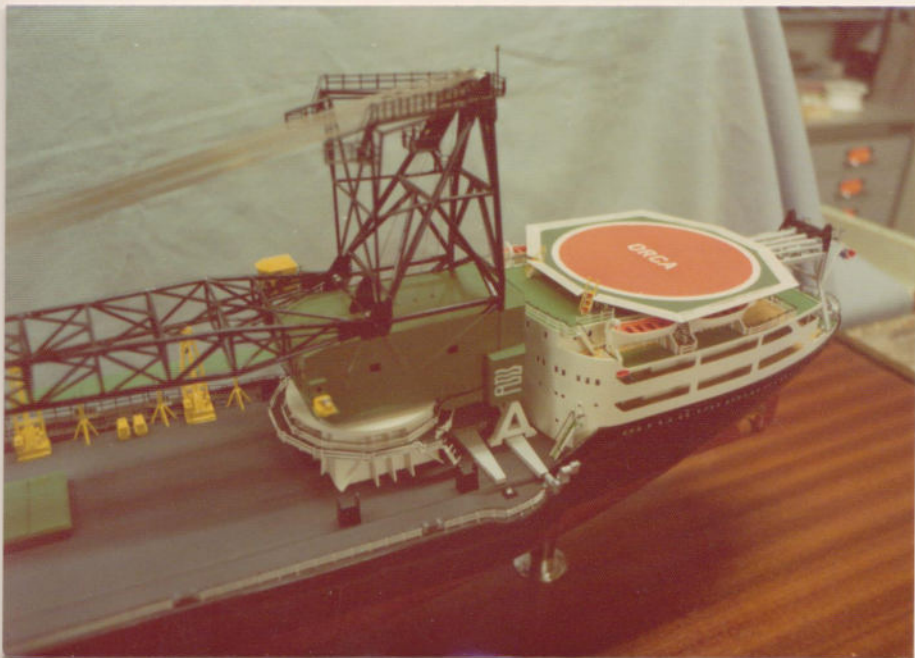
ORCA
1:200
N.O.C.

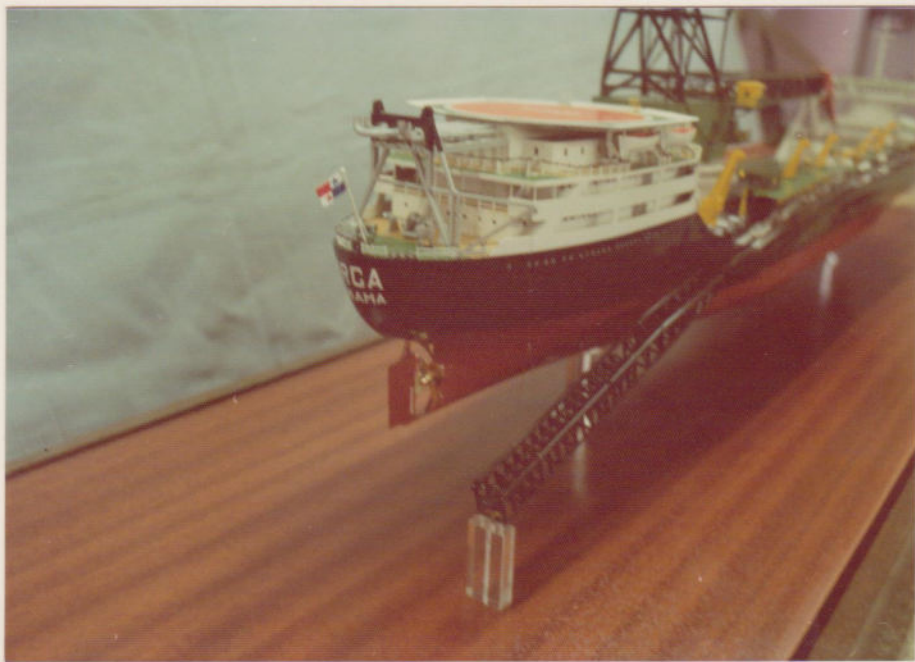














BOELE
BLUE WHALE

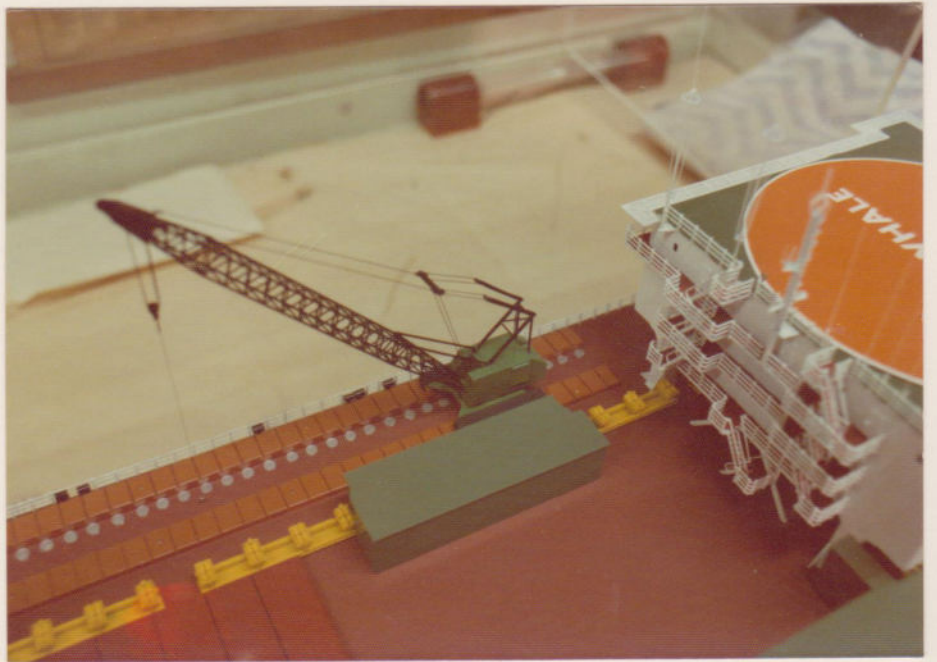
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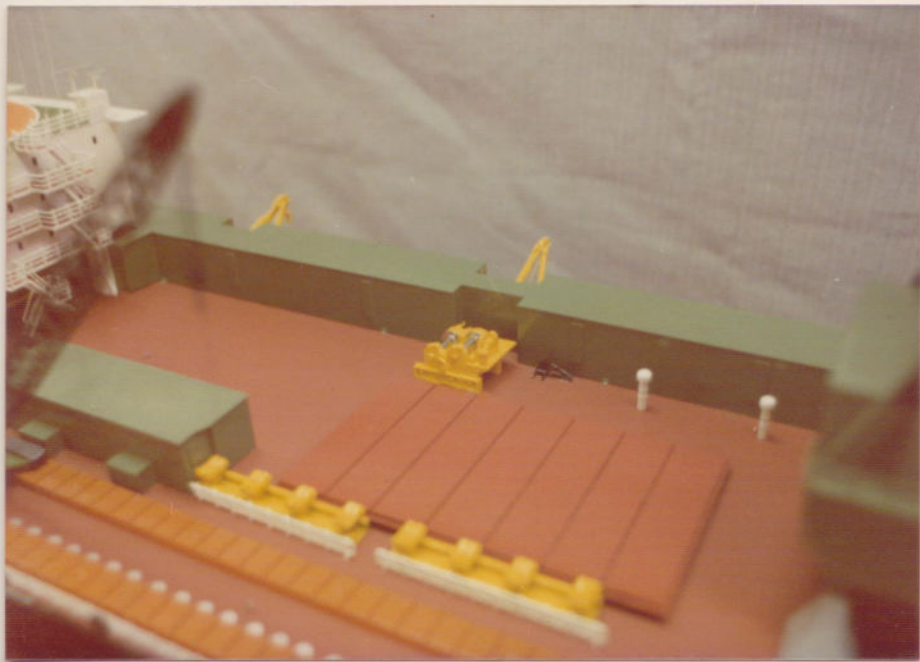
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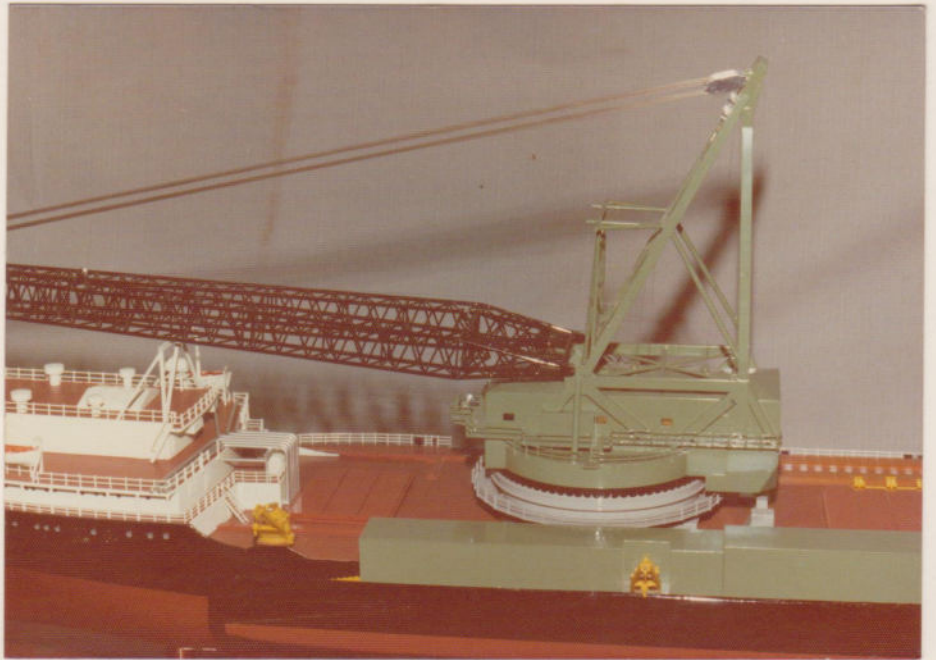
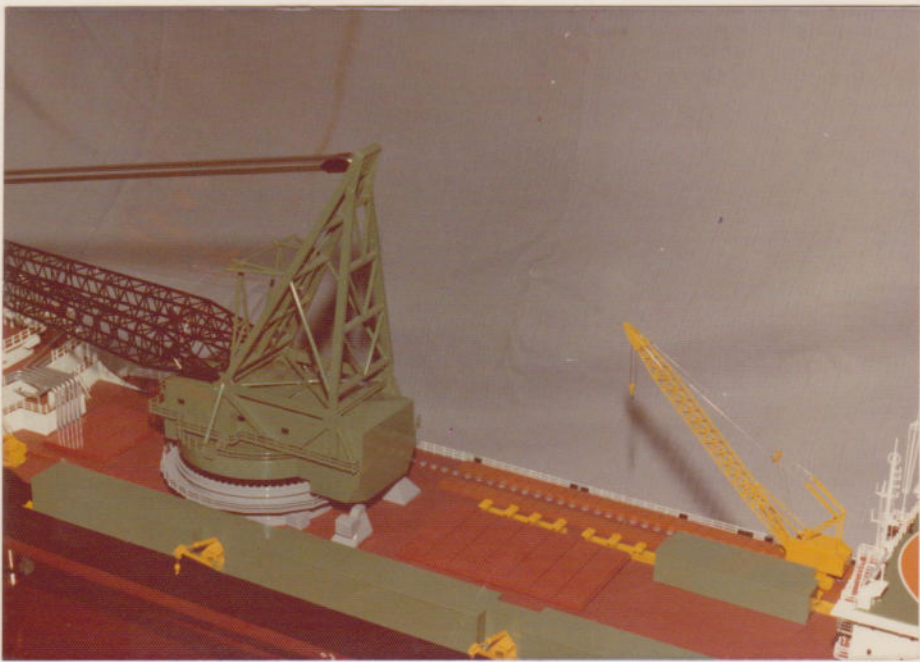
15-11-74

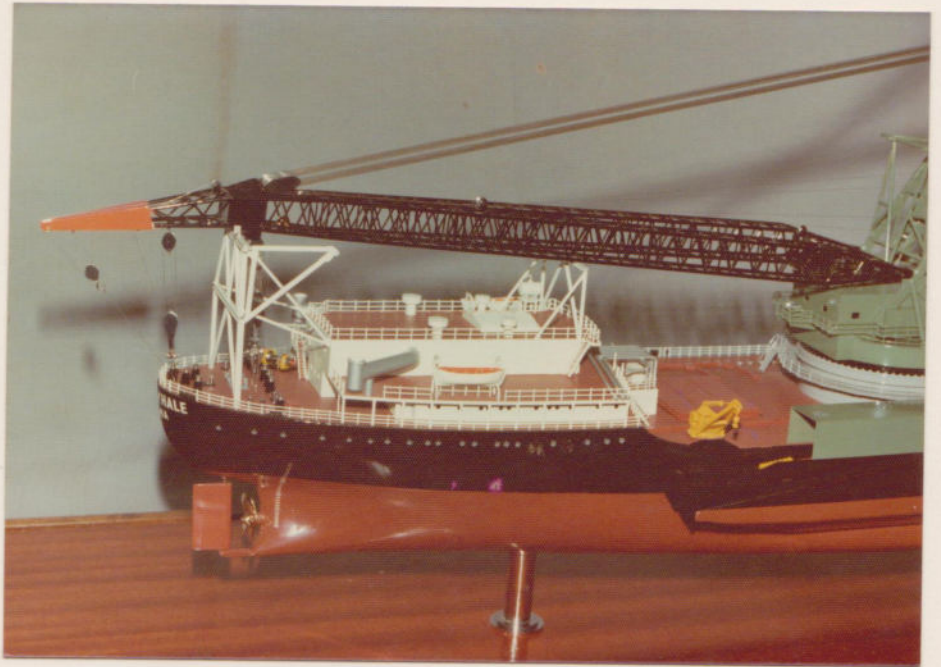
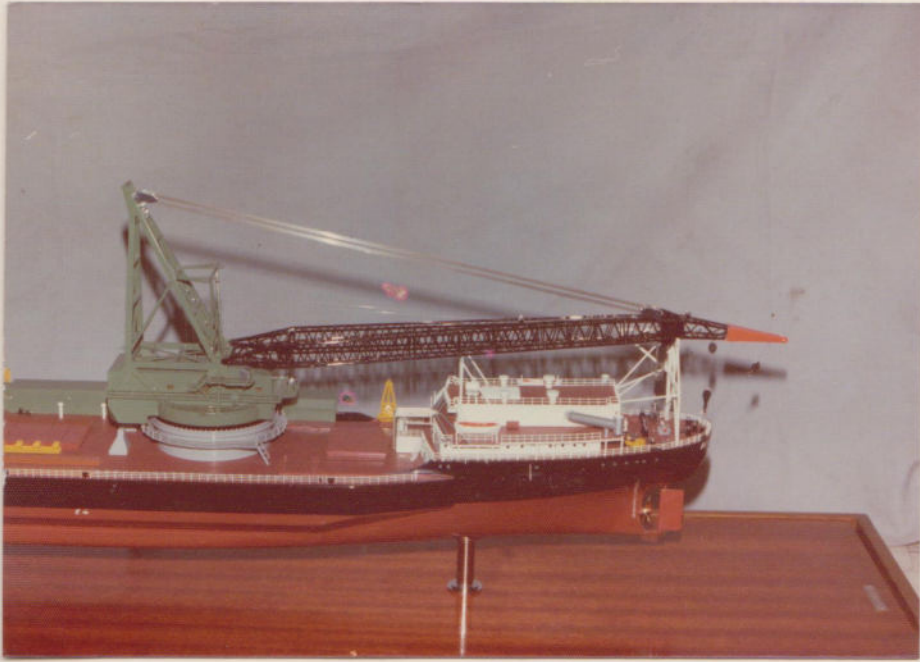
600 mm

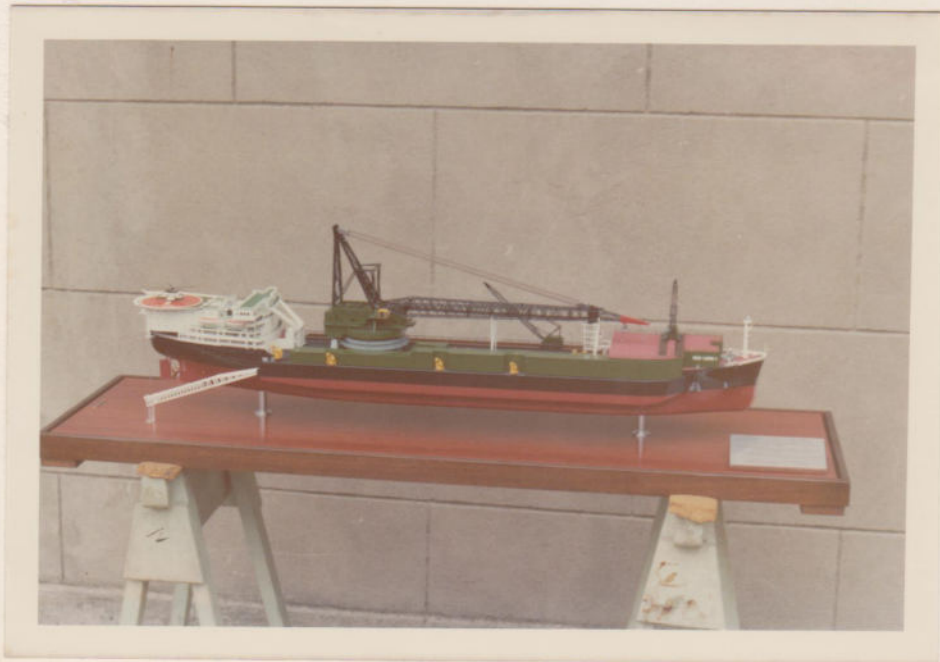












SEA LION I

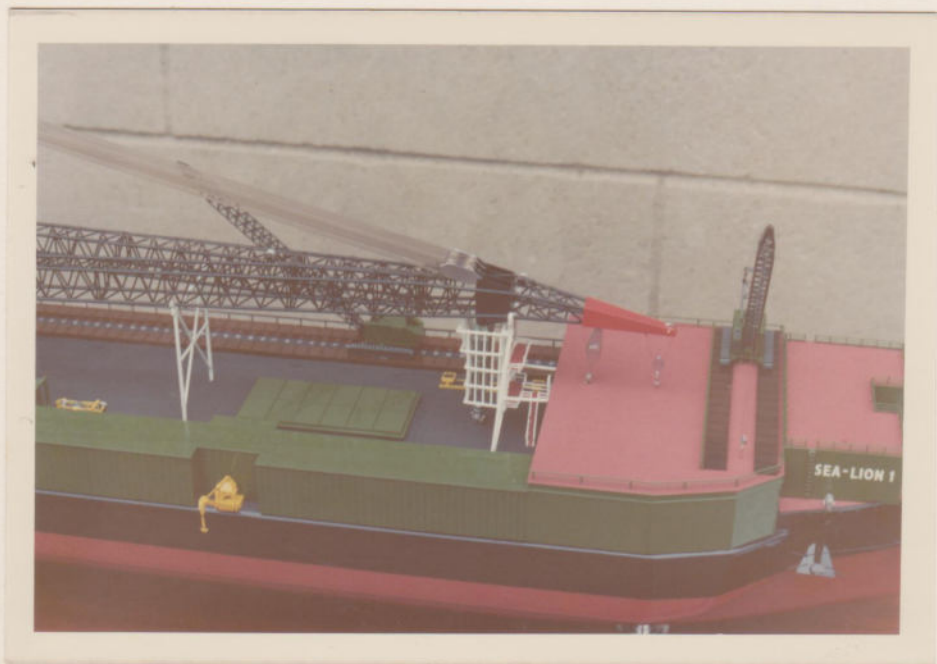
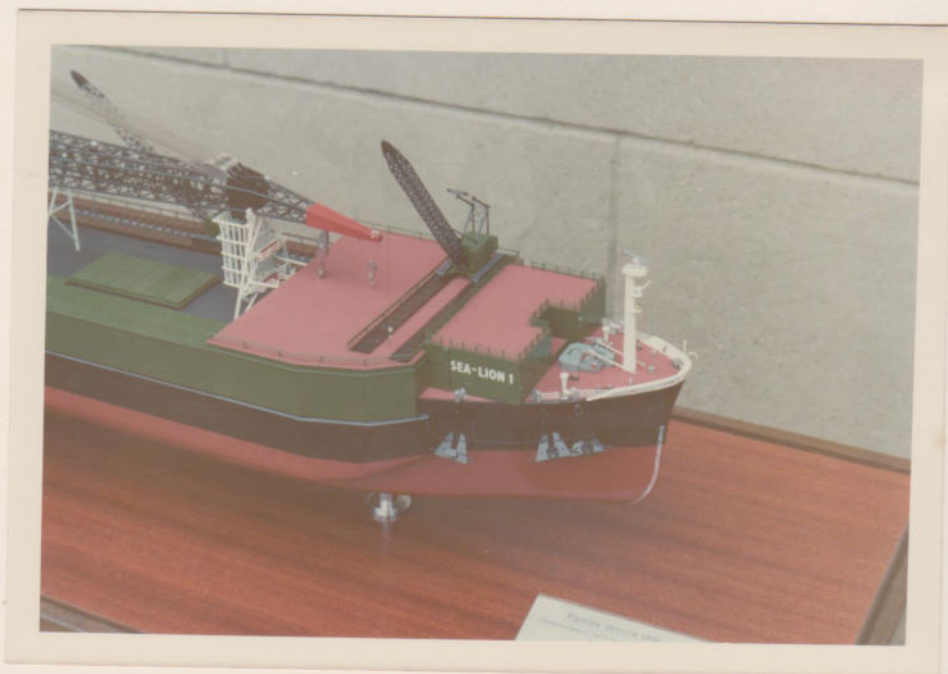
1:200

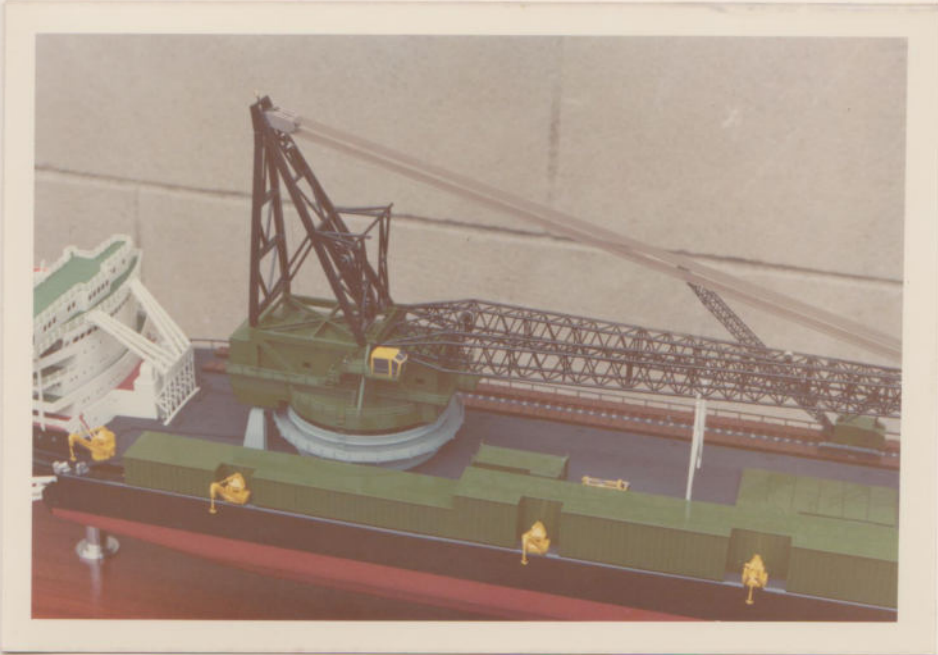
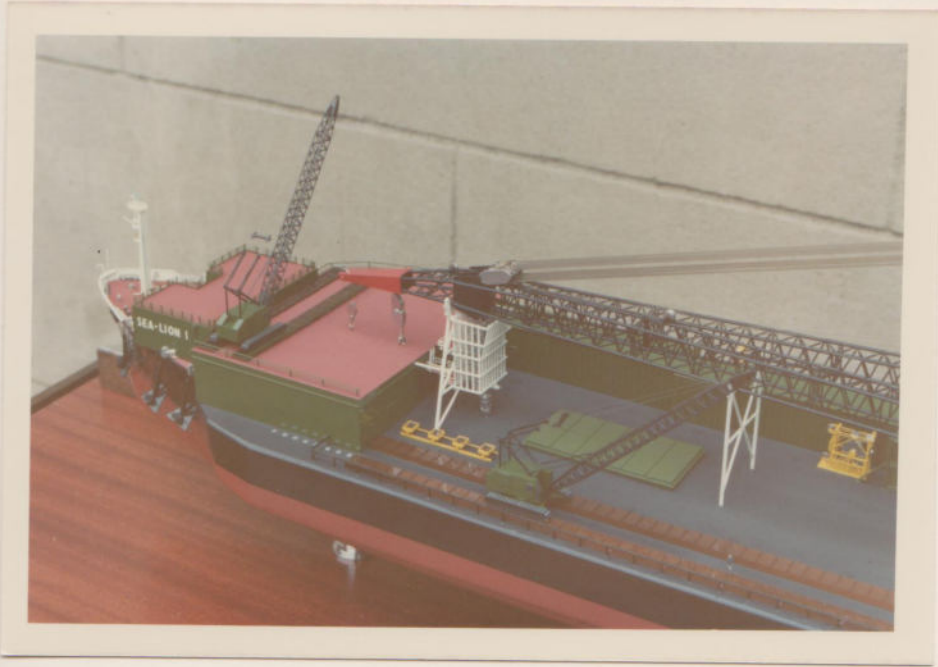
voor N.O.C.

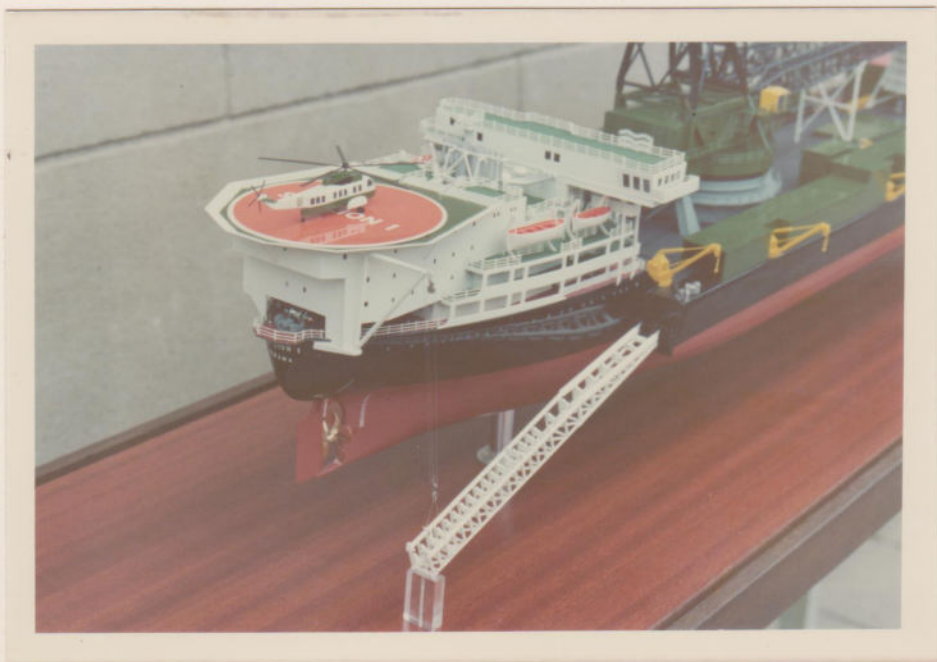
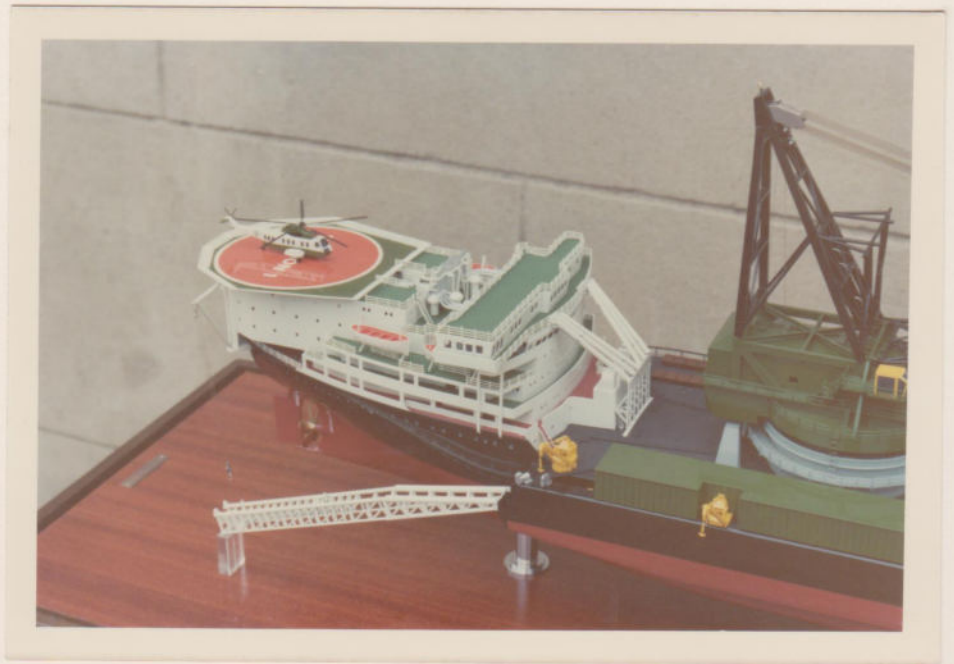
bij WILTON.

26-9-75

664 uur.





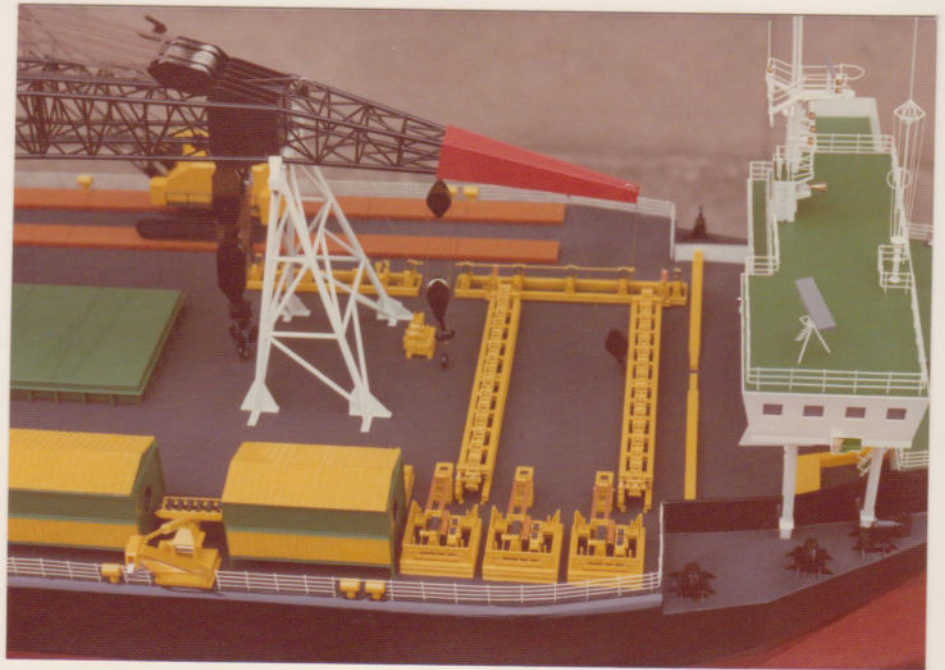


OCEAN BUILDER I

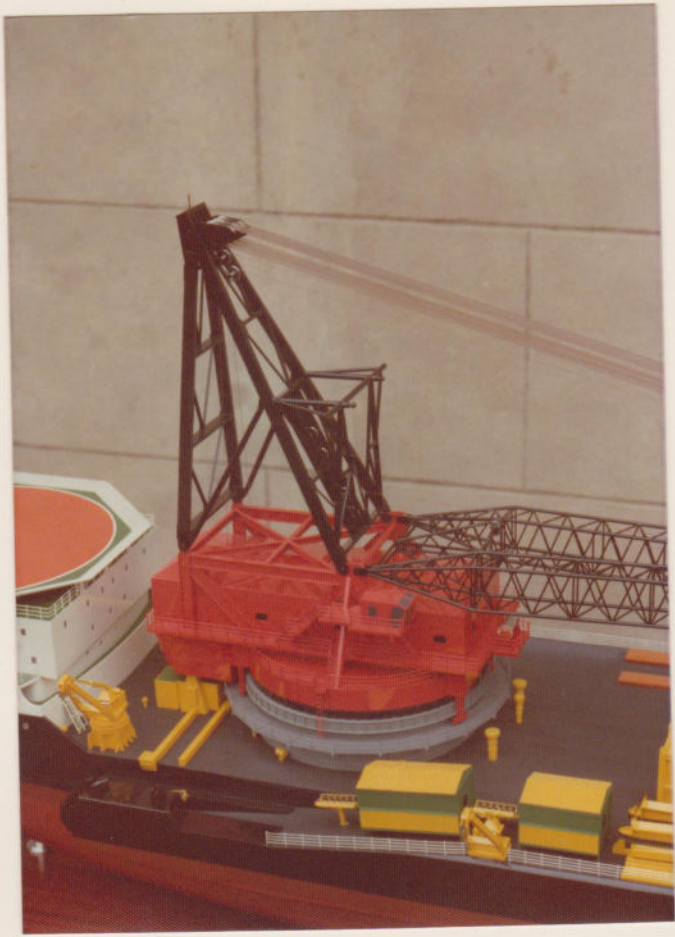
2 STUKS : BOELE
DE GROOT

1:100







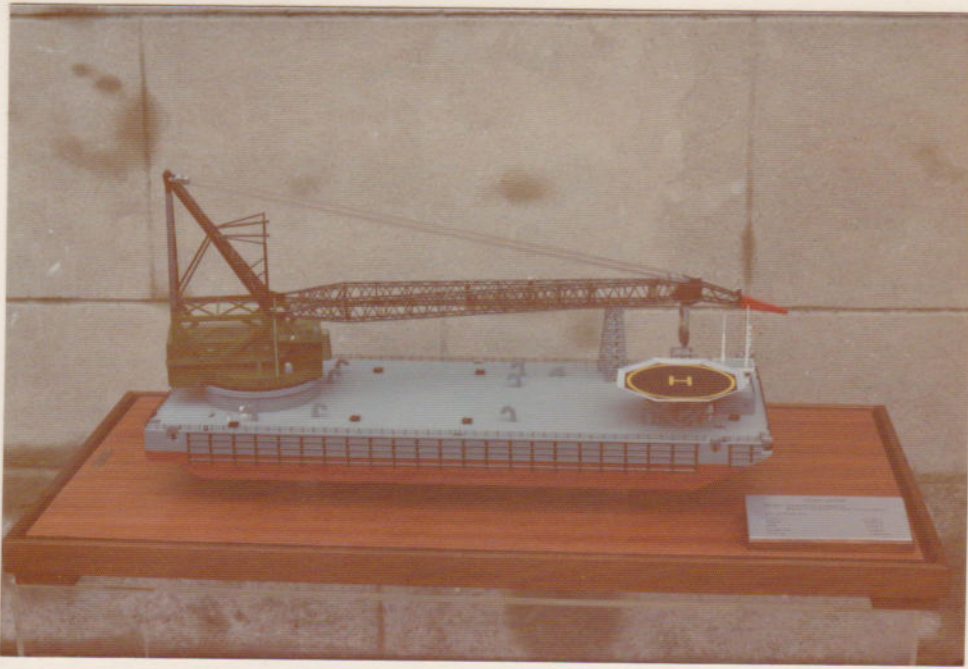


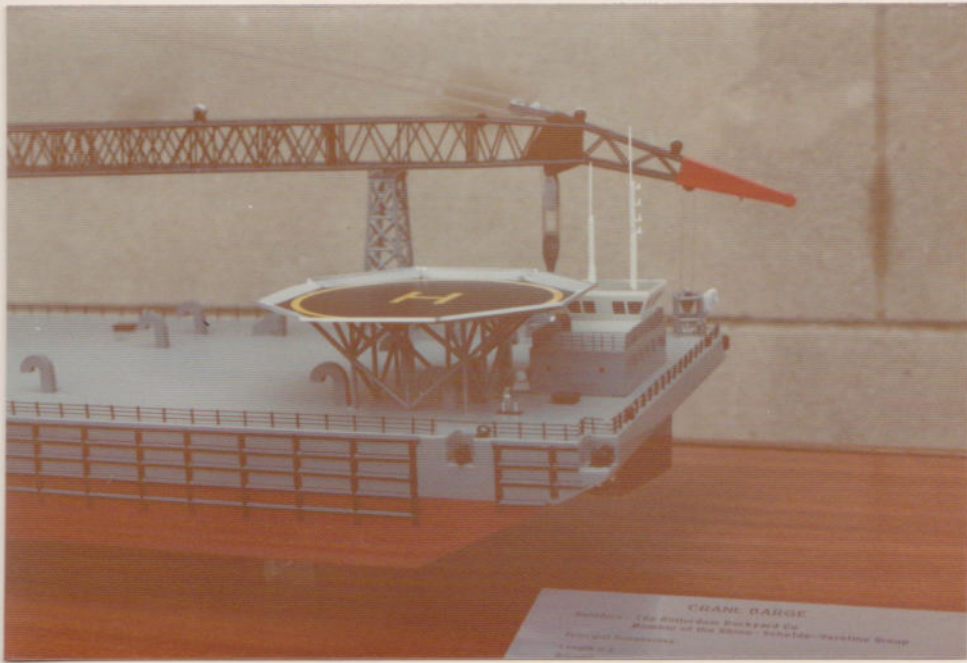


KRAAN-BARSE

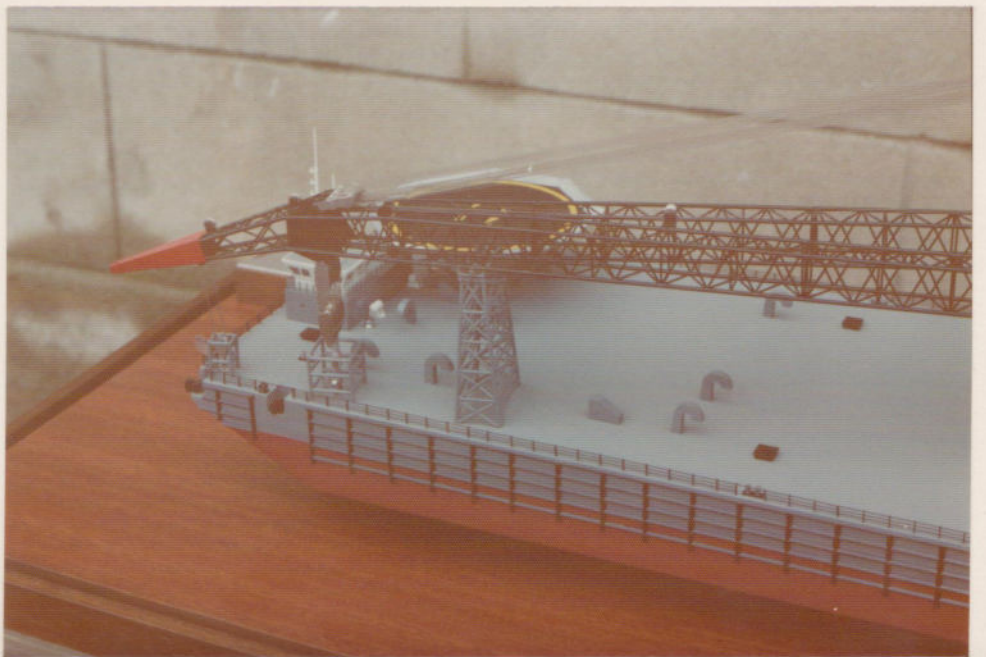
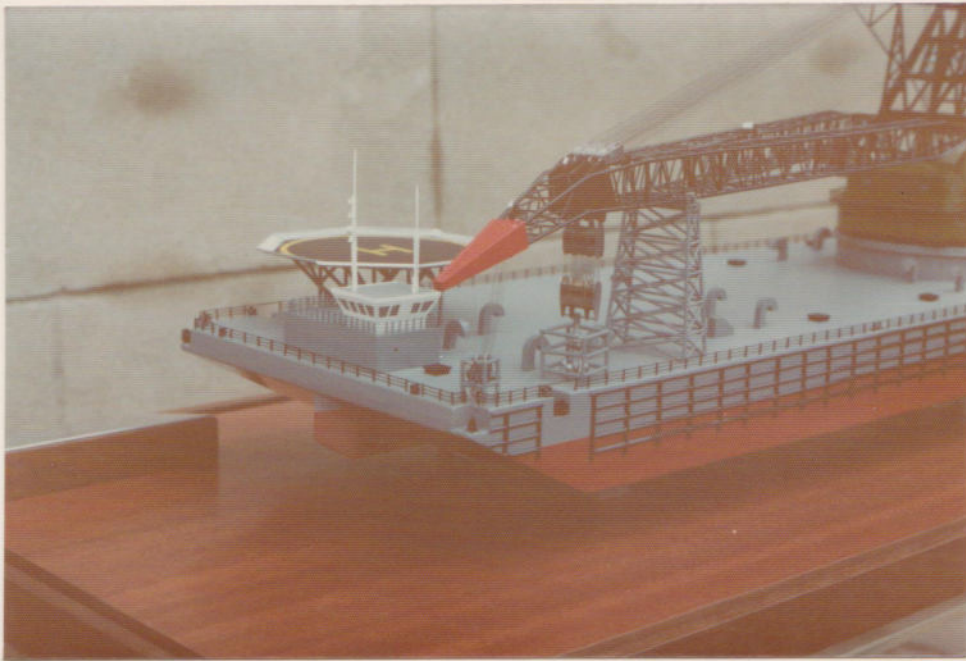
R. D. M

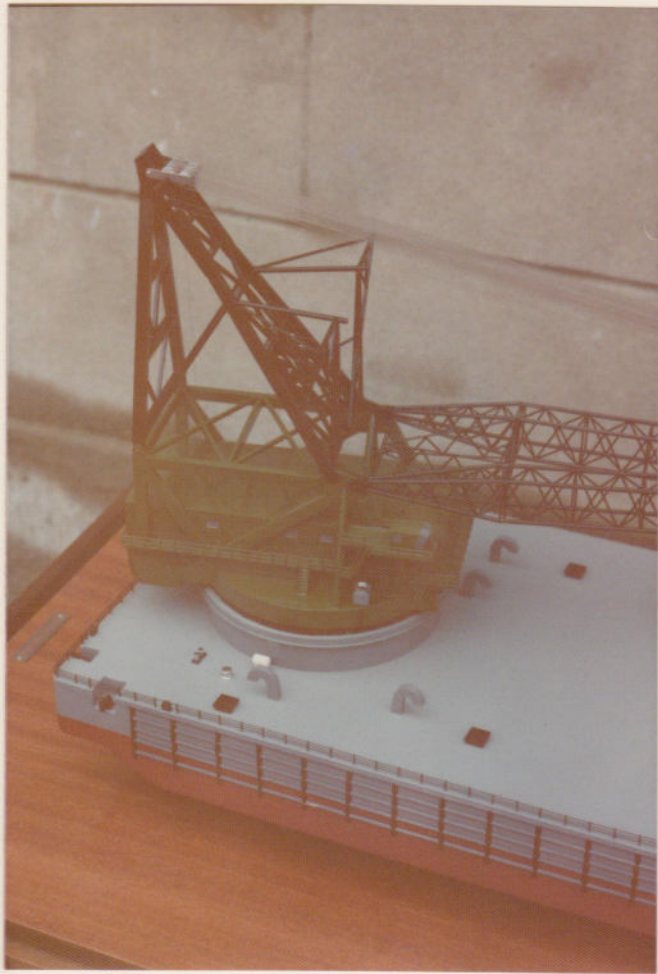
1:100





OCEAN BARGE
Model of the Atlantic Barge Co.
Member of the Union - Schelde-Waterline Group
Built 1952





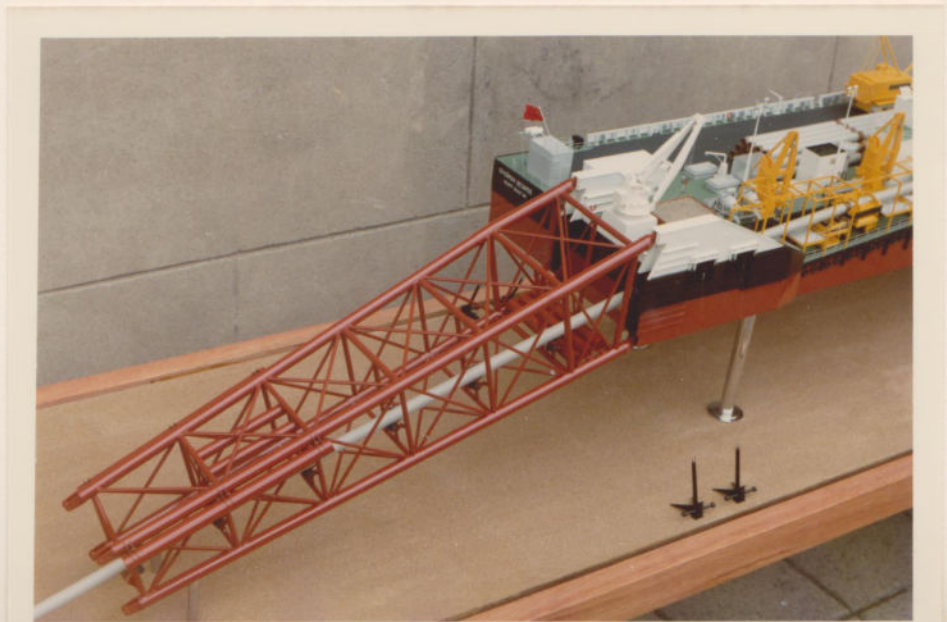
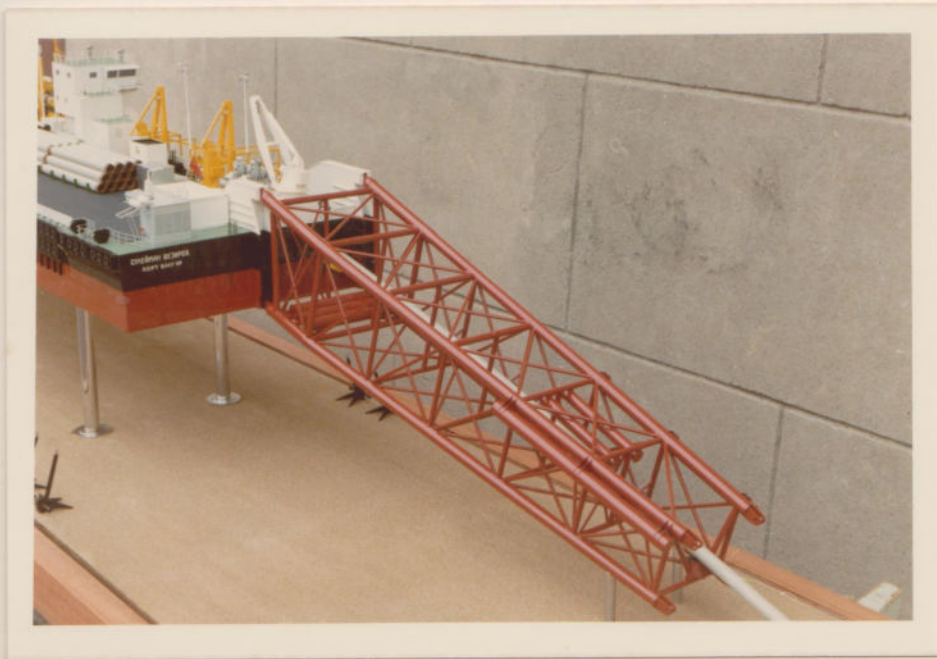


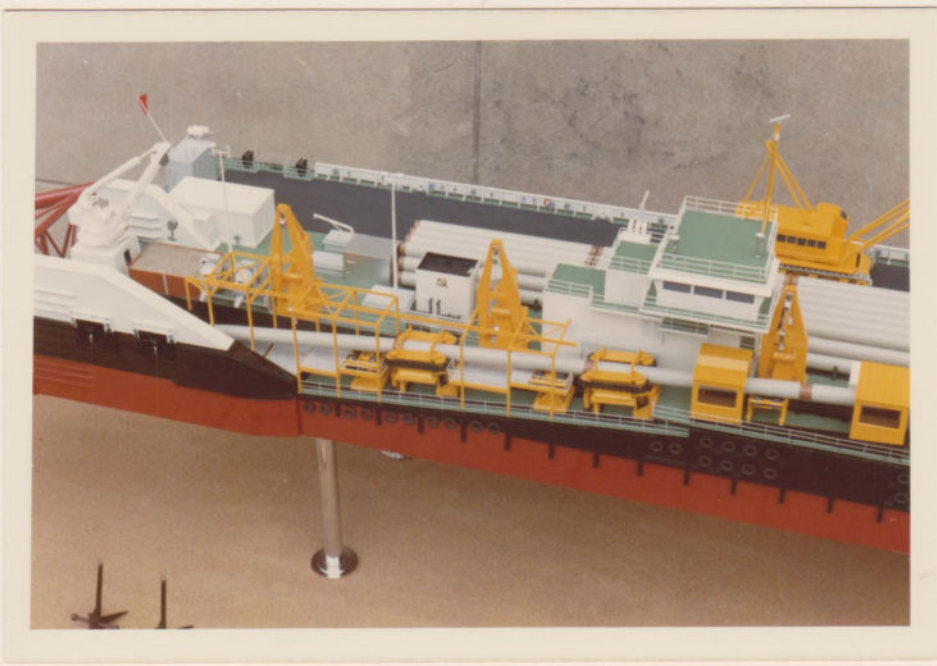
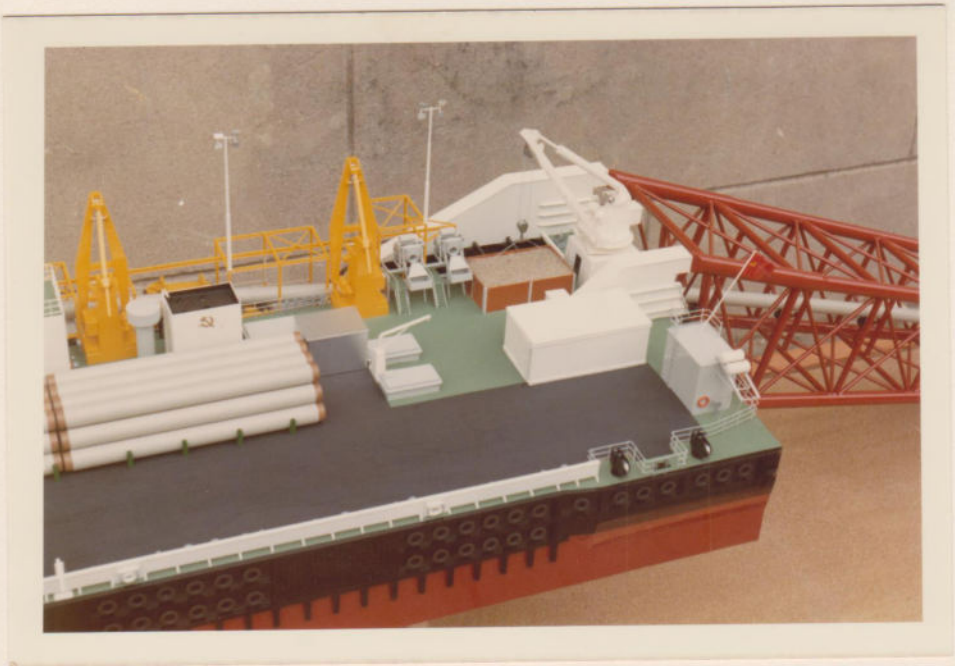
СУВЕНТАН БЕЗИРОБ

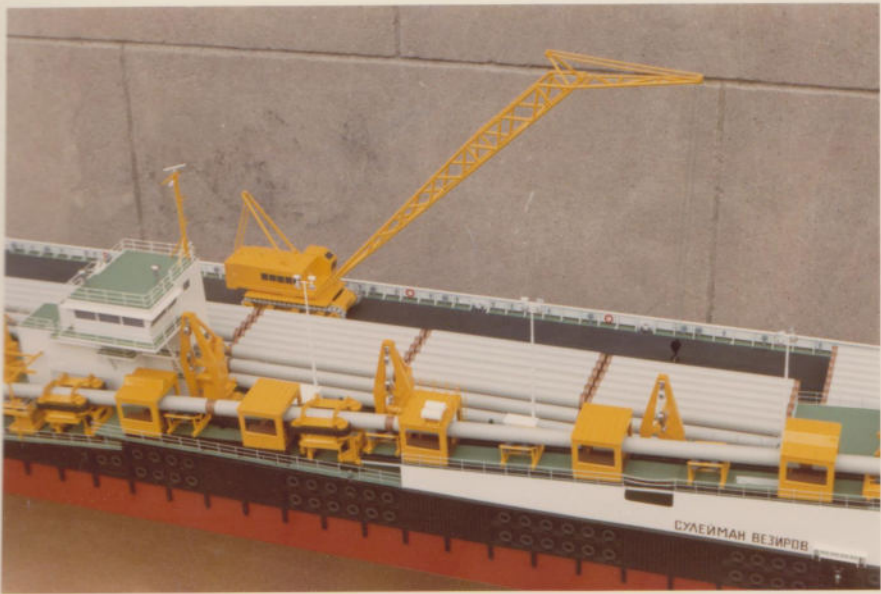
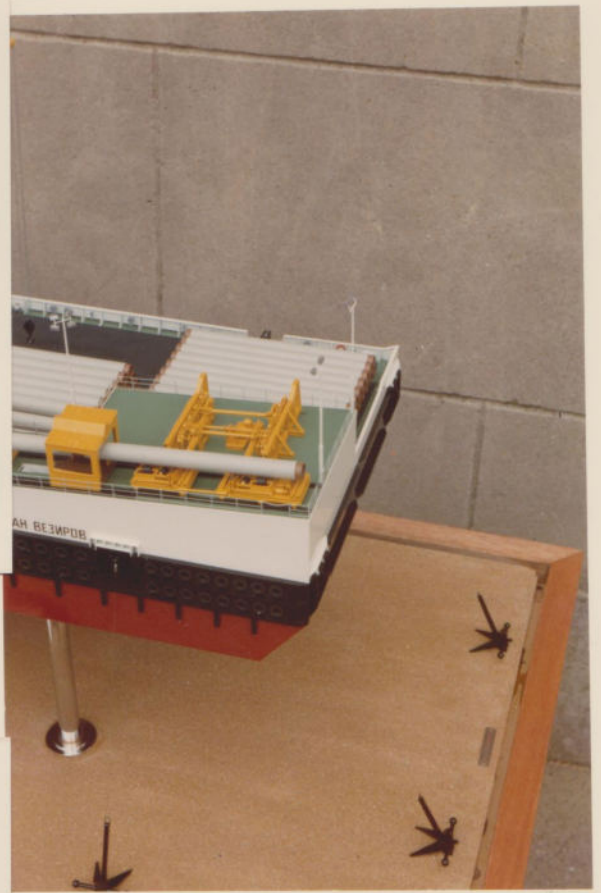
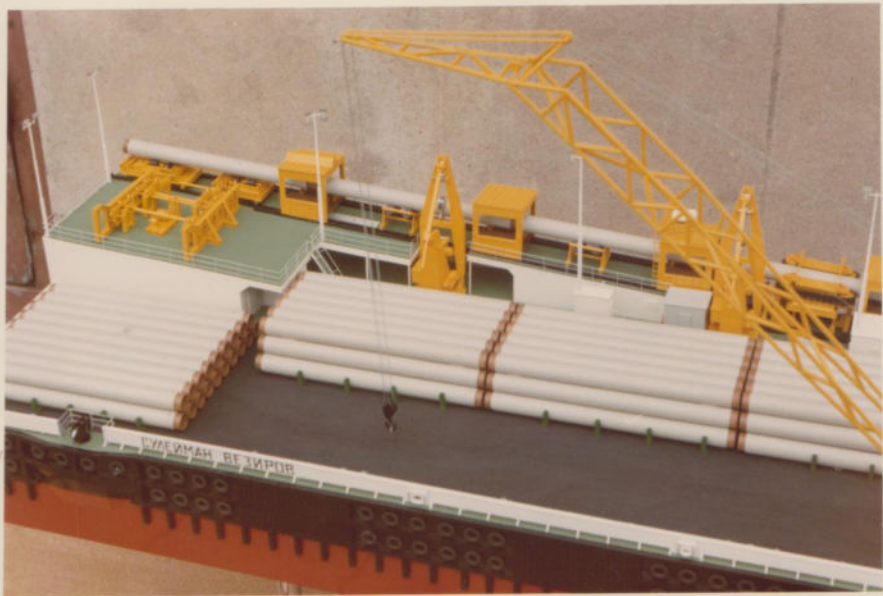
1:75

ГУСТО

887 УУР





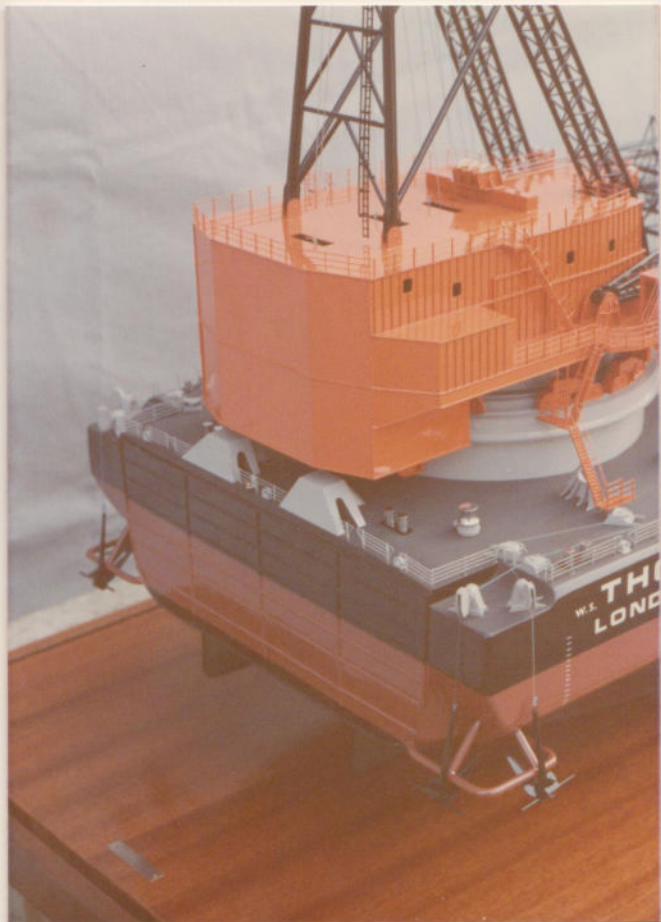


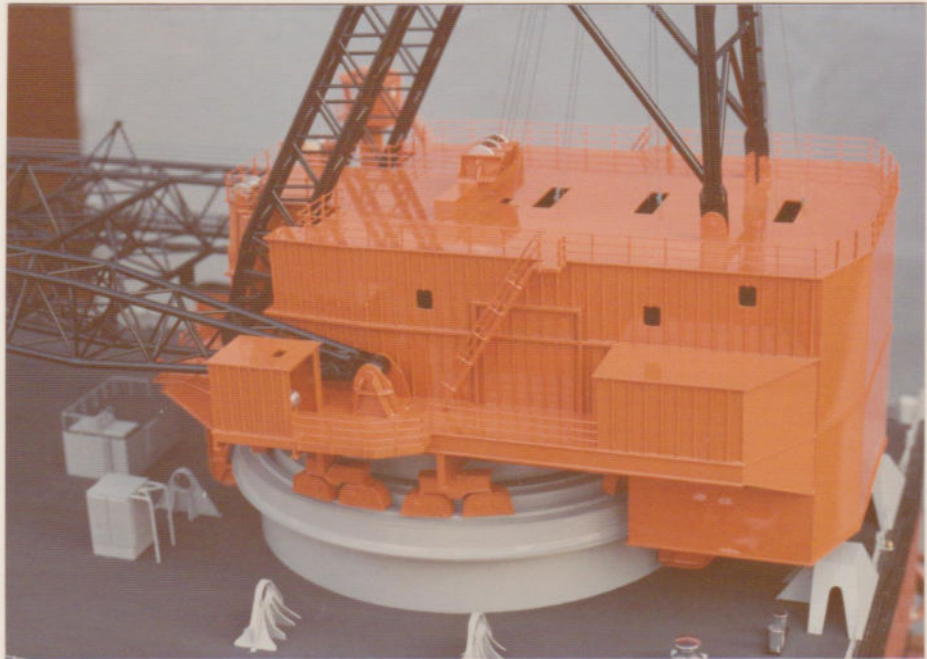


"THOR" GUSTO

1:100

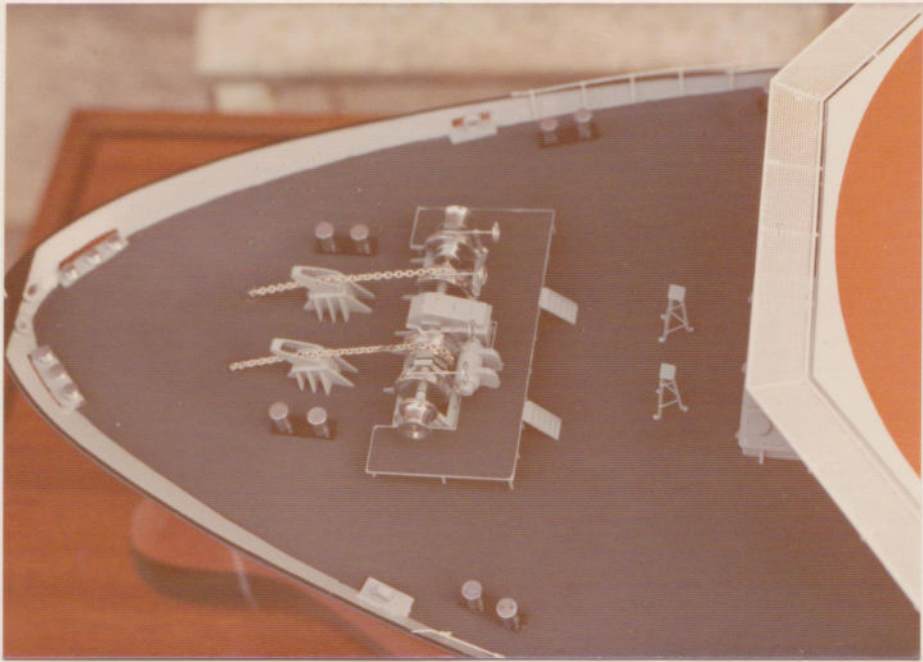
996 OUR













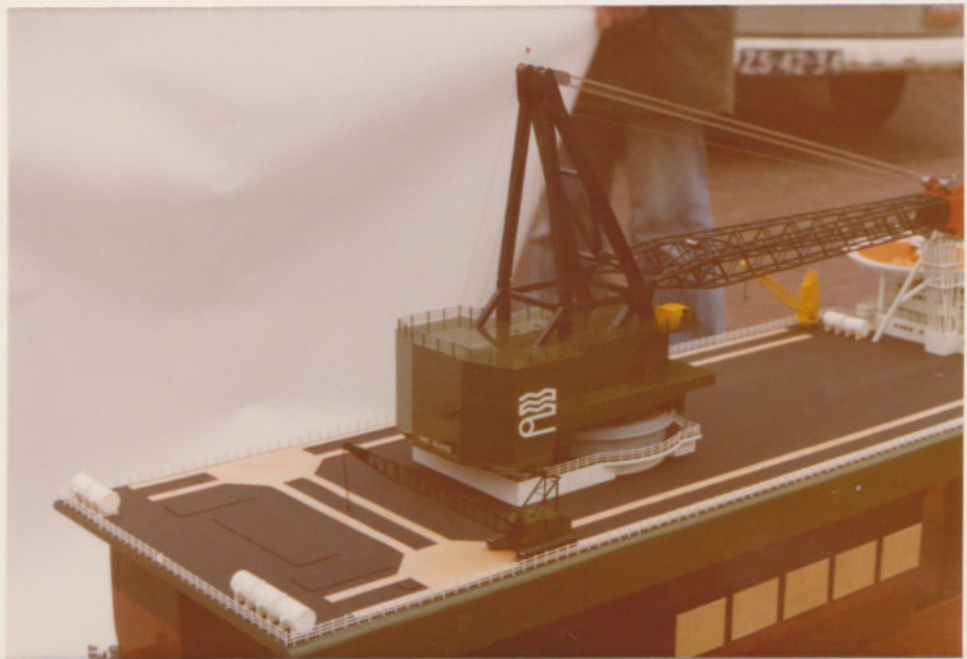
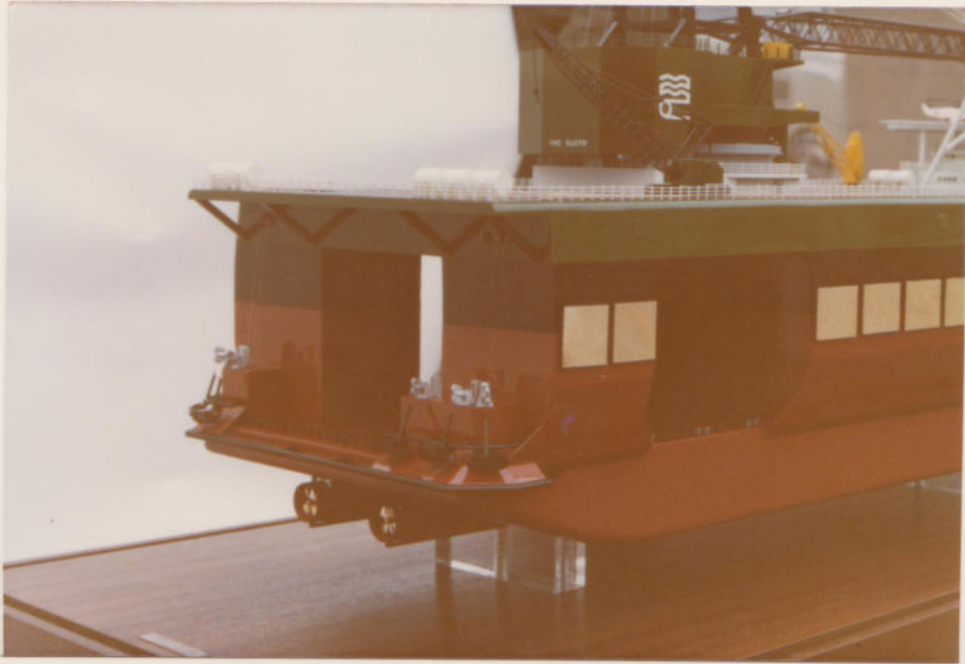
NARWHAL

1:200

noor N.O.C.

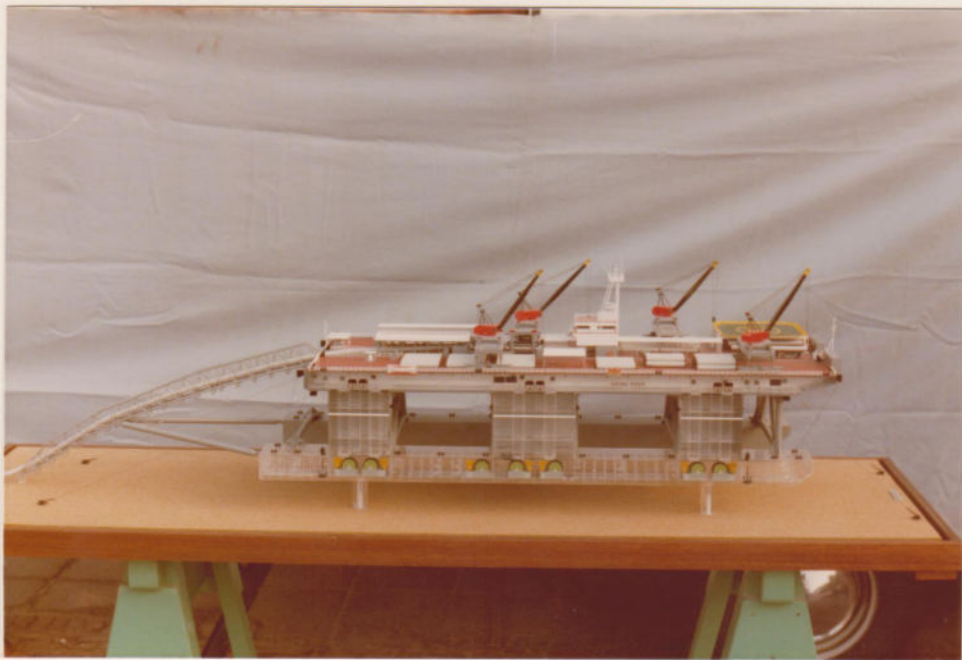
22-4-77.

.485 uur.









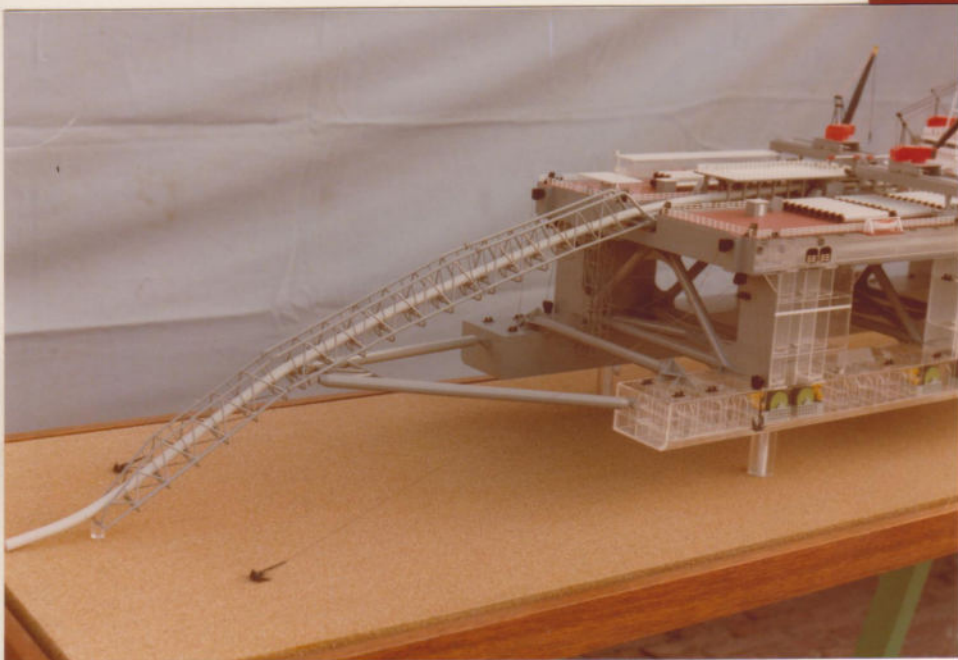
VOOR GUSTO ENGINEERING

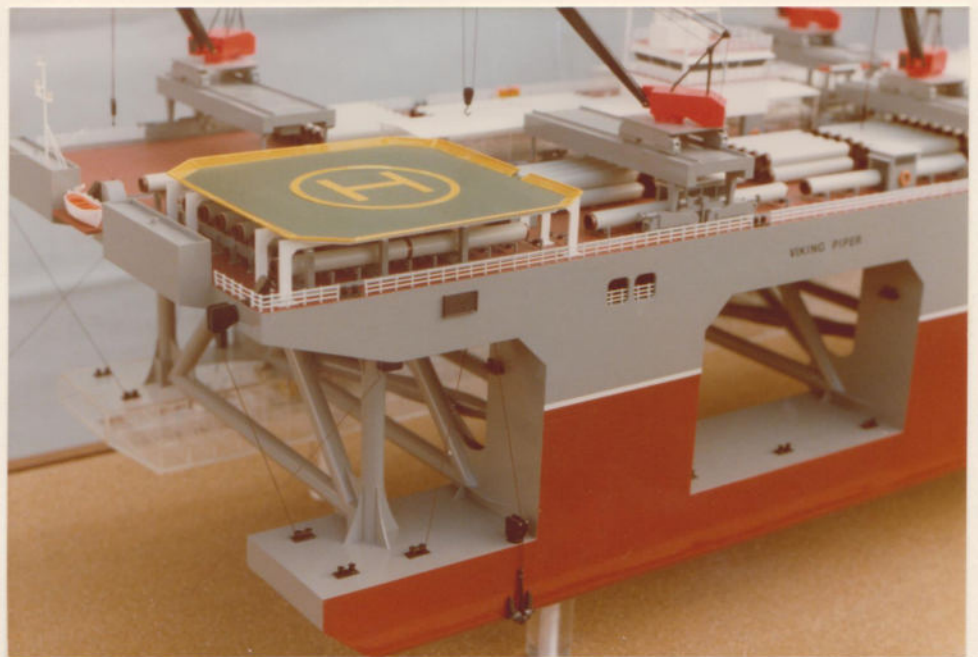
DYPENLESSER
"VIKING PIPER"

1:200

426 uur.

16/11/79





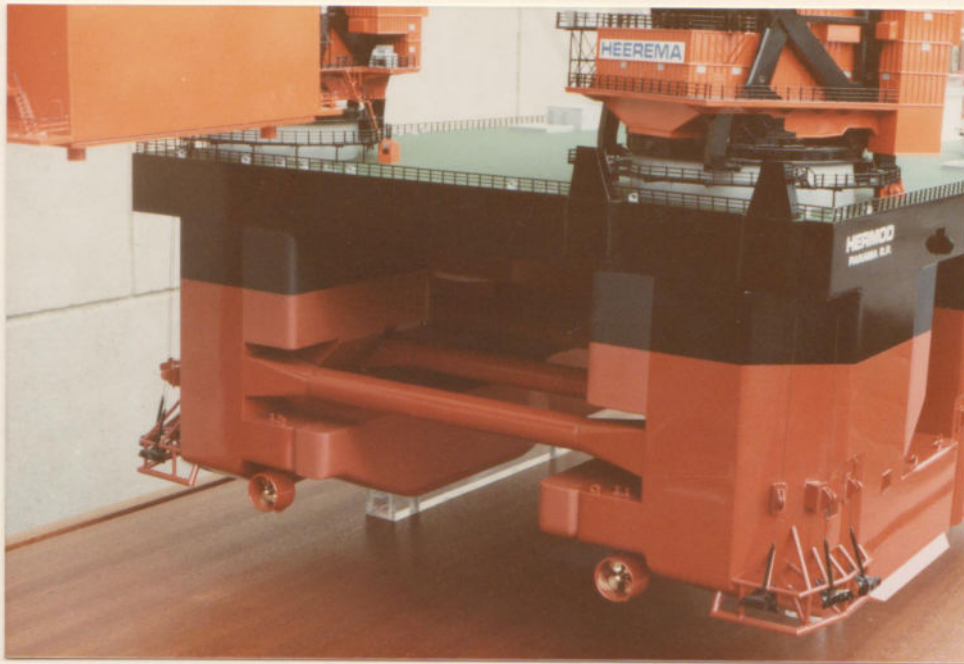
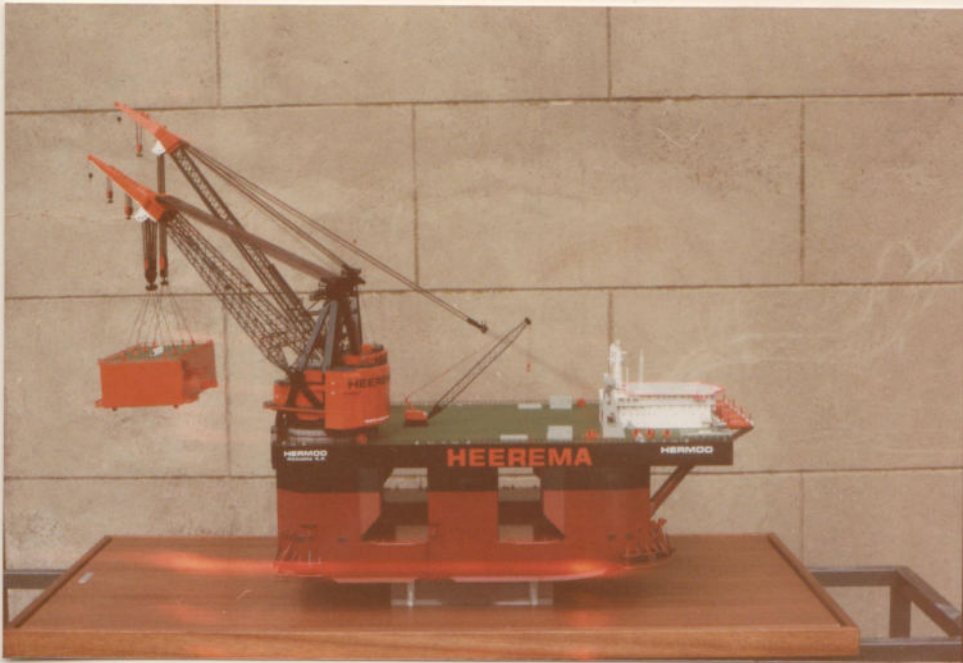


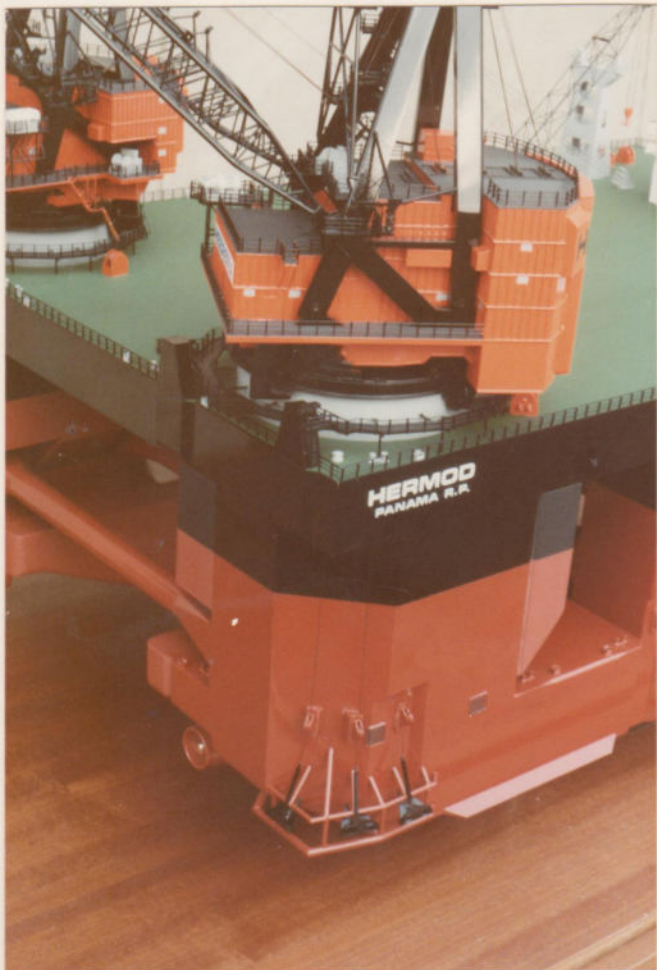
GASTO ENGINEERING
"HERMOS"

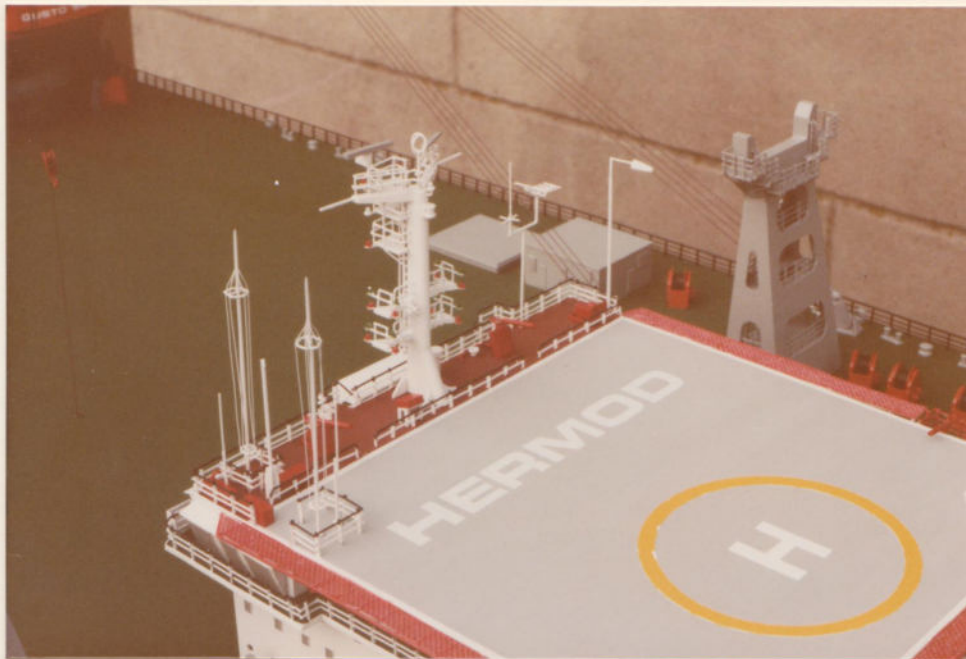
1:200

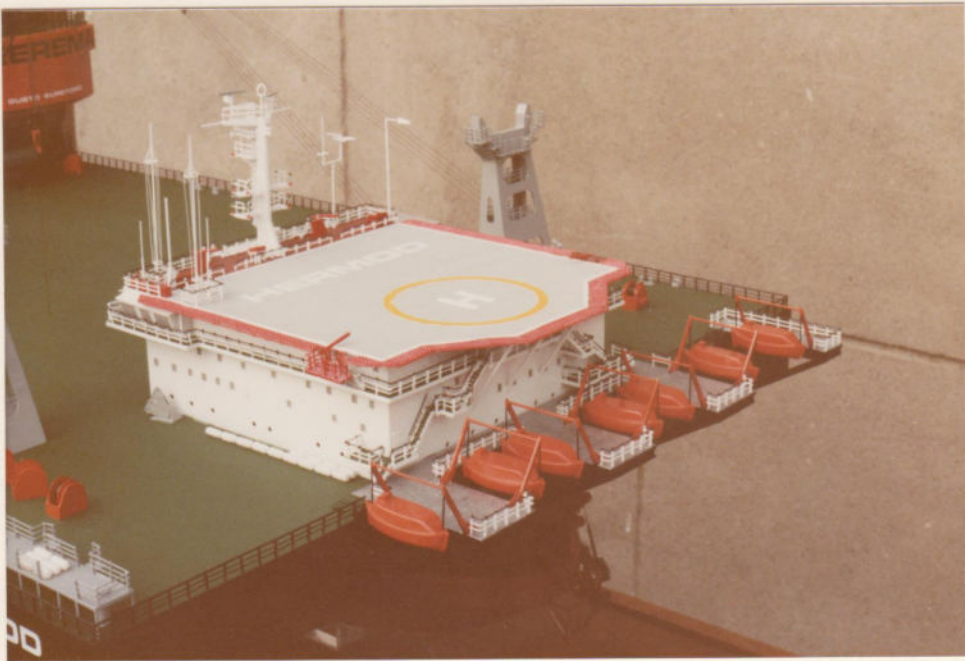
1086 mm

27/6/86









Owner: Hochtief & Co., Rotterdam, Holland
 Contractor: Ingelbrecht Breda, Rotterdam
 Designer: Smeets Engineering & Architecture, Rotterdam
 Main dimensions:
 Length overall: 75 m
 Breadth overall: 21 m
 Height overall: 45 m
 Draught: 10 m

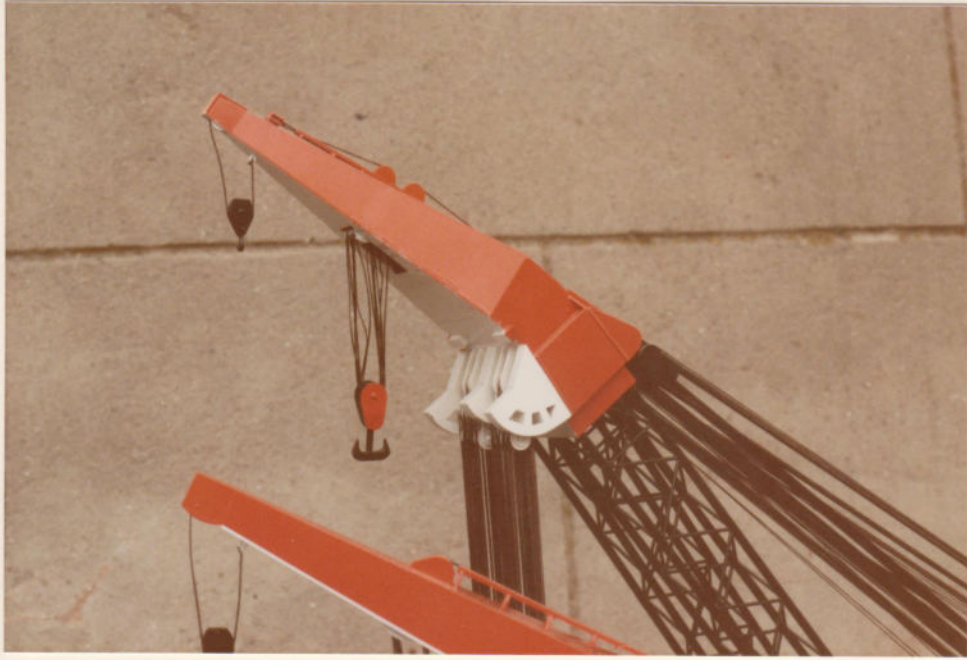
Stucka Engineering's scope of work

The Dutch supply contractor Hochtief purchased in 1995 the Spanish building *ARQUITECTURA*, a subsidiary of the 1980s contractor Stucka Engineering and commissioned Stucka to complete the design and engineering work to complete the rig. Stucka increased the vessel's load from 500 to 2000 tonnes, 20 times the initial design, in order to perform heavy lift work. Stucka obtained the certificate of fitness issued by DNV to ensure the vessel's load-carrying capacity was increased without the need to increase the dimensions of the hull.

Stucka's contribution was limited to the analysis of the reinforcement for the main structure. Different sets of stress-shaped elements were tested on mathematical calculations and confirmed by model tests. Special considerations were given to the analysis of fatigue, DNV's code for the reinforcement and the use of steel.

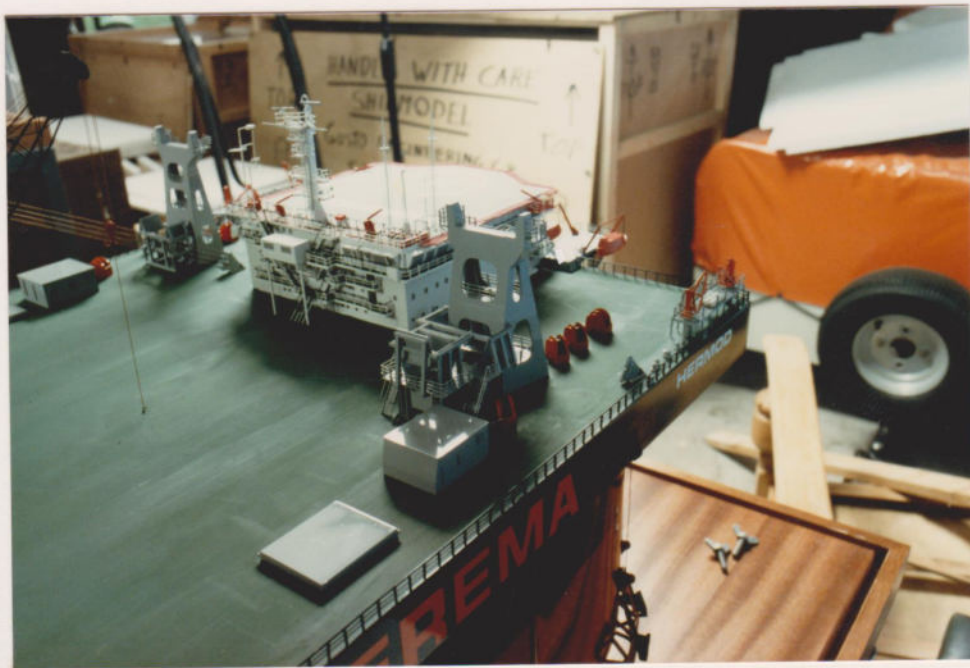
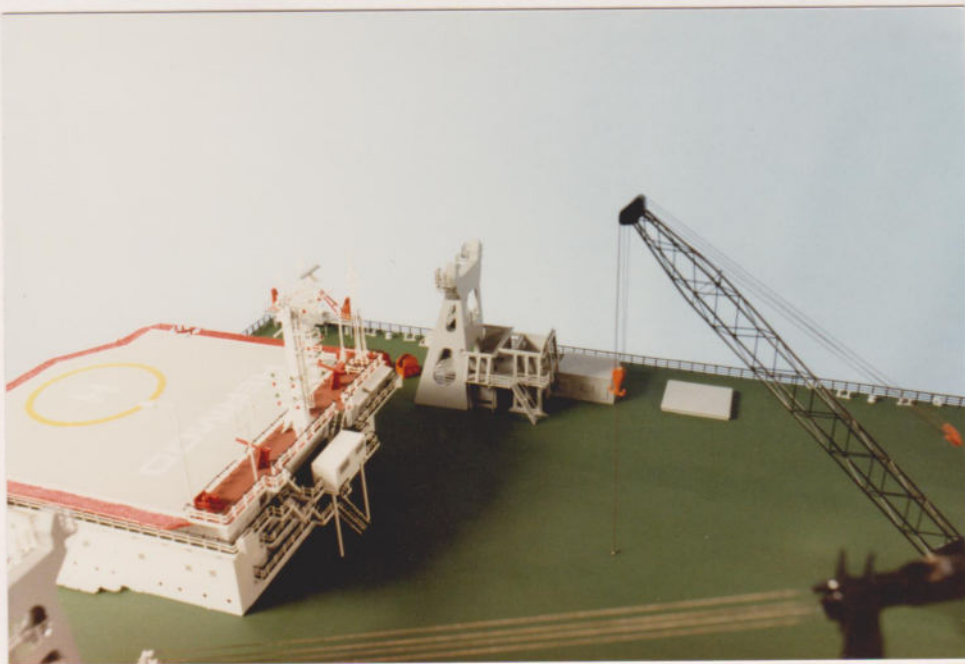
As a consequence of the increased capacity load and the upgraded structure, the vessel's overall structural behaviour of the vessel had to be improved by the additional loading capacity. To verify the modified structure, extensive strength analysis, including fatigue, was performed to improve the structural integrity of the vessel to the same standards as DNV and DNV's. By increasing the strength of the vessel's hull, increasing its capacity, the vessel became a vessel that met DNV's requirements.





+ afwerking.







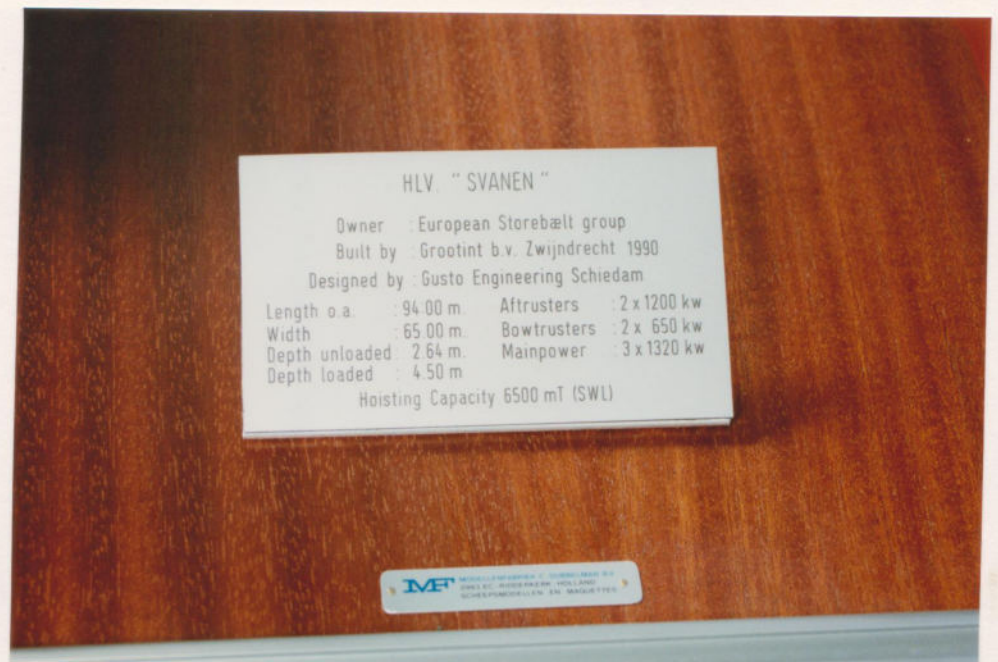
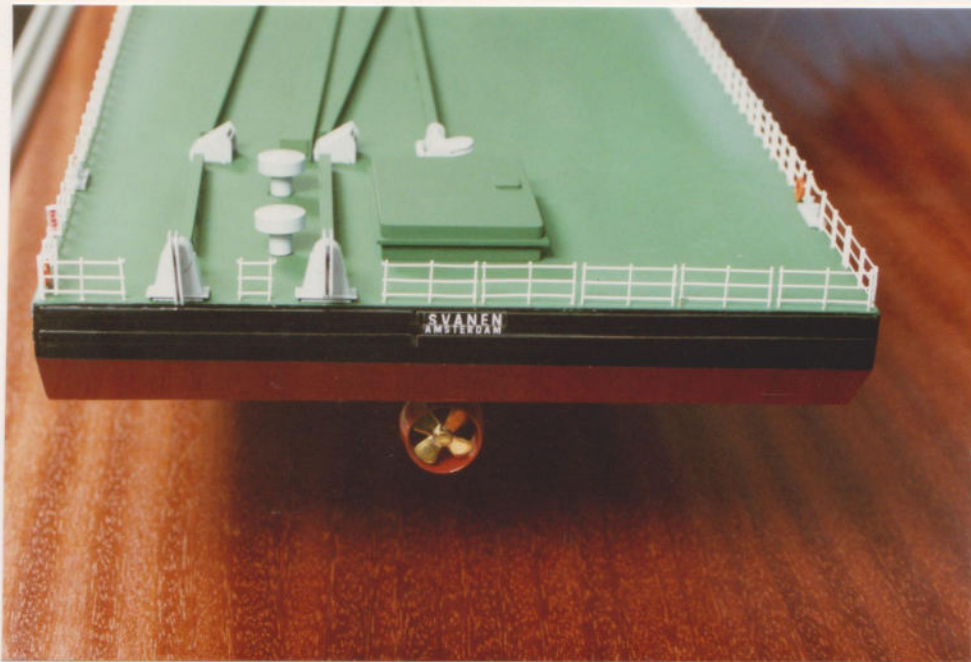
DE GROOT
(GUSTO + BALLAST)

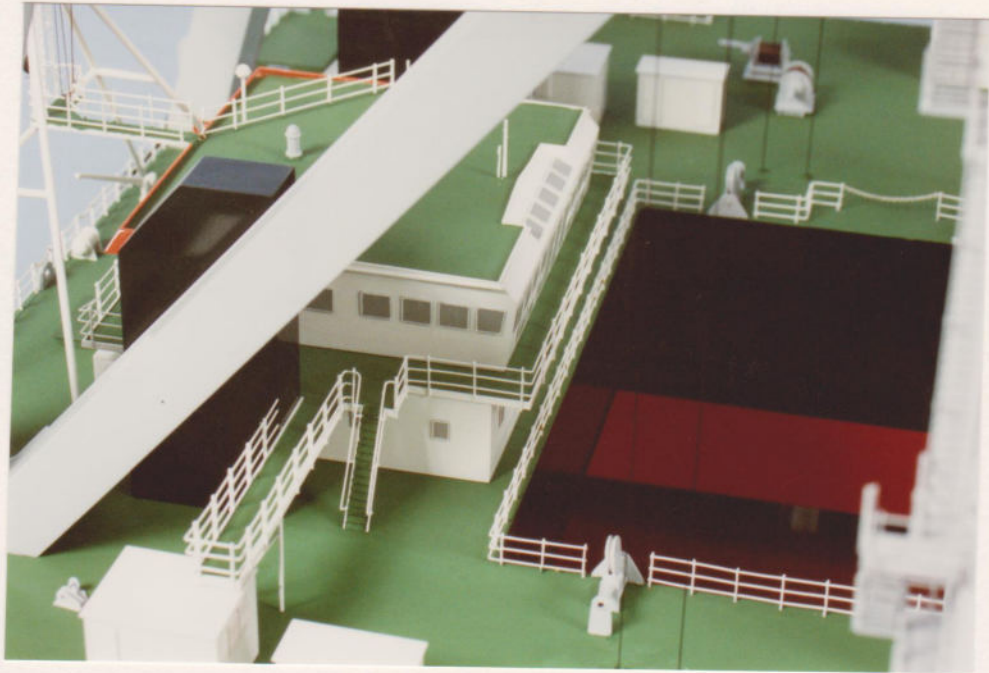
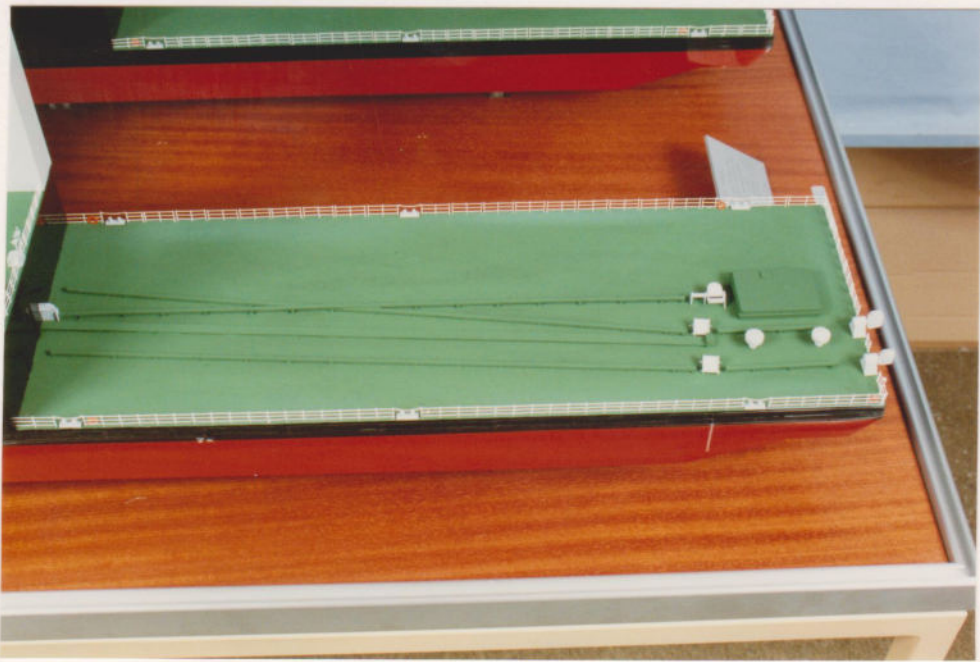
3 x 1:100

incl. 2 stalen tafels
1 All. " (de Groot)
2 listen.

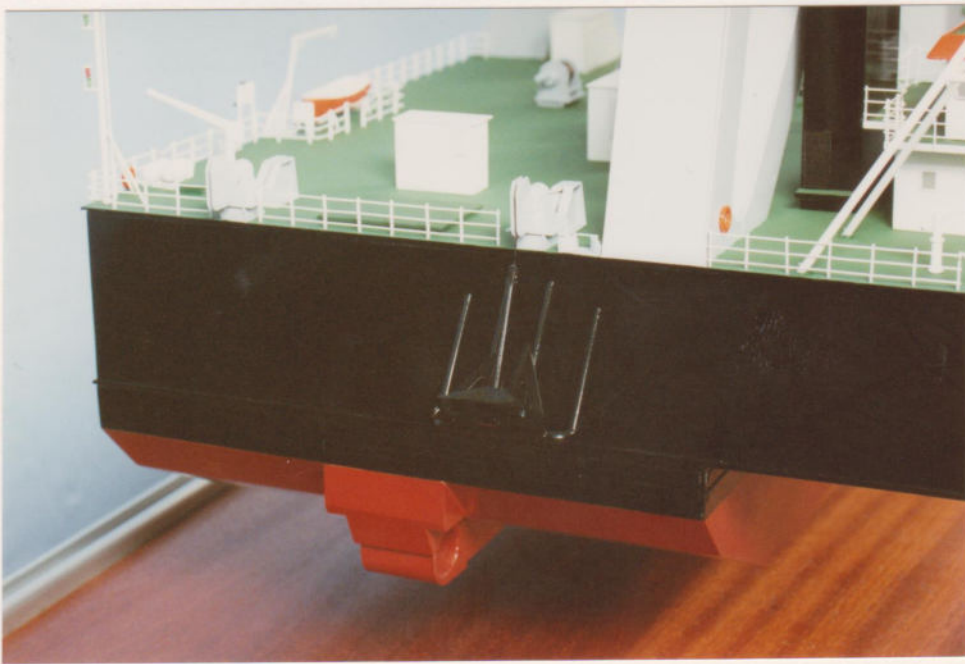
30/11/90

f. Acc. 1069 1/4 uur.

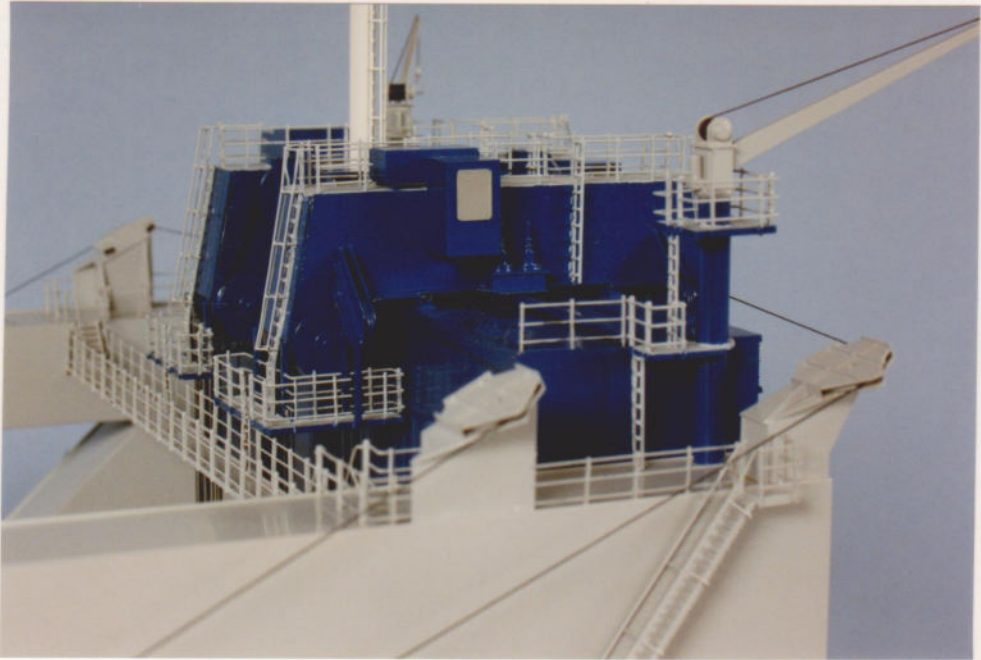


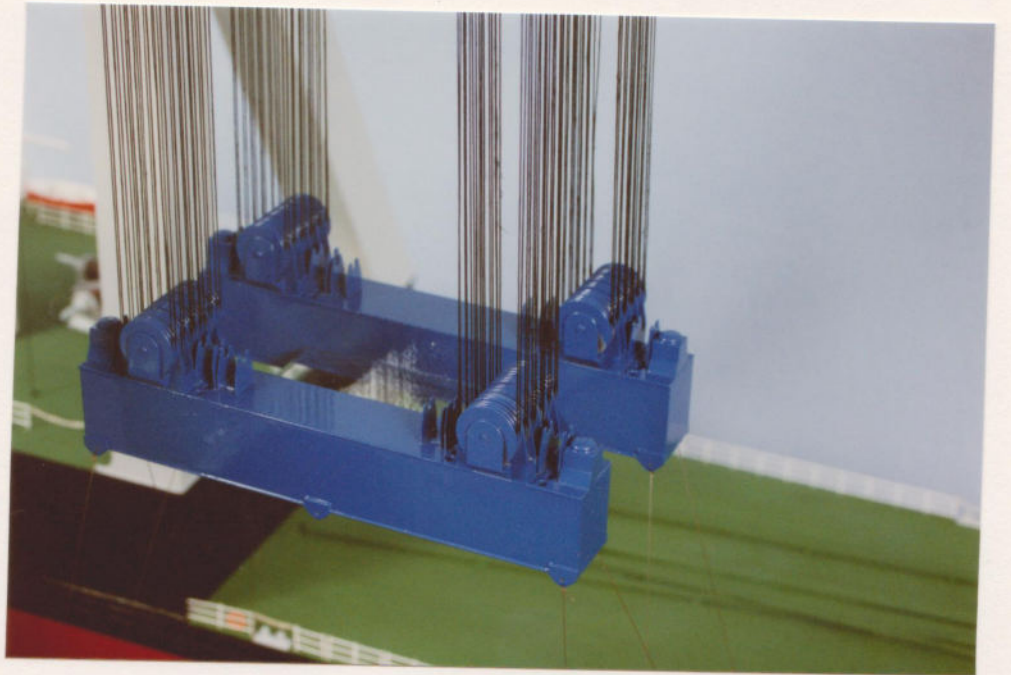
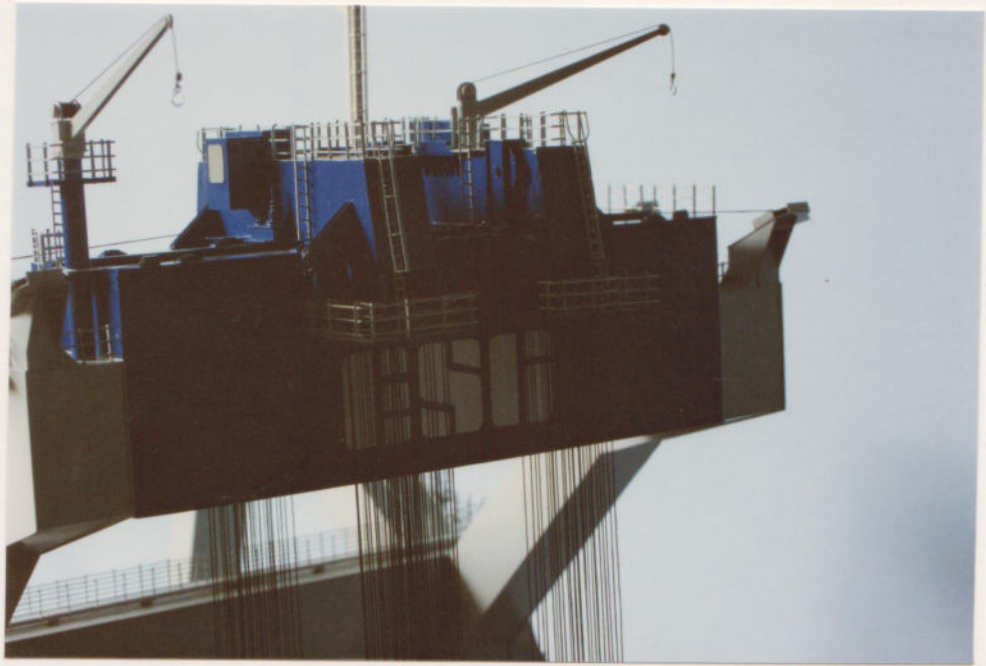








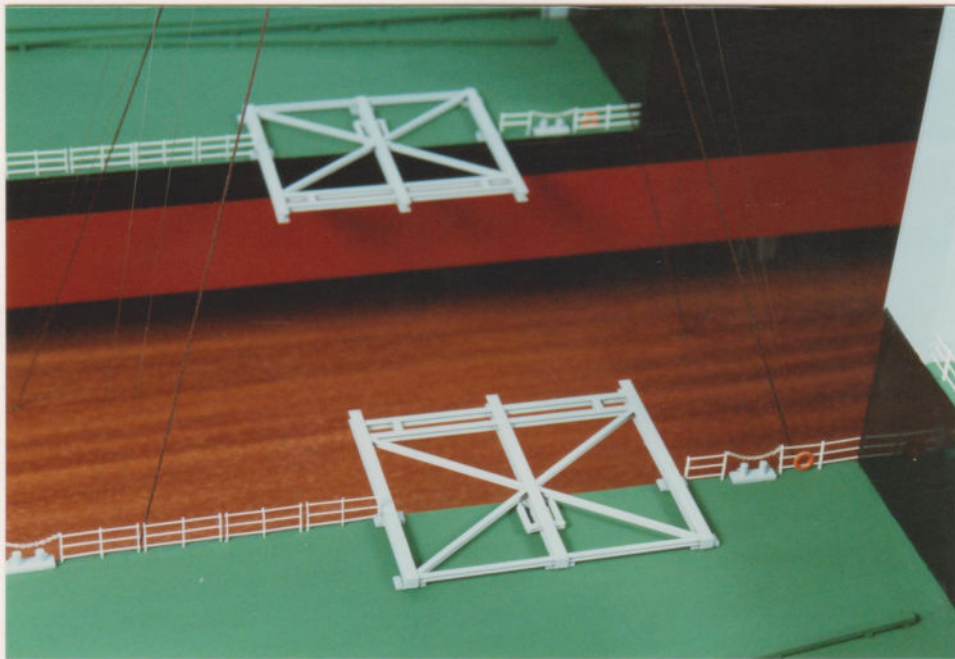




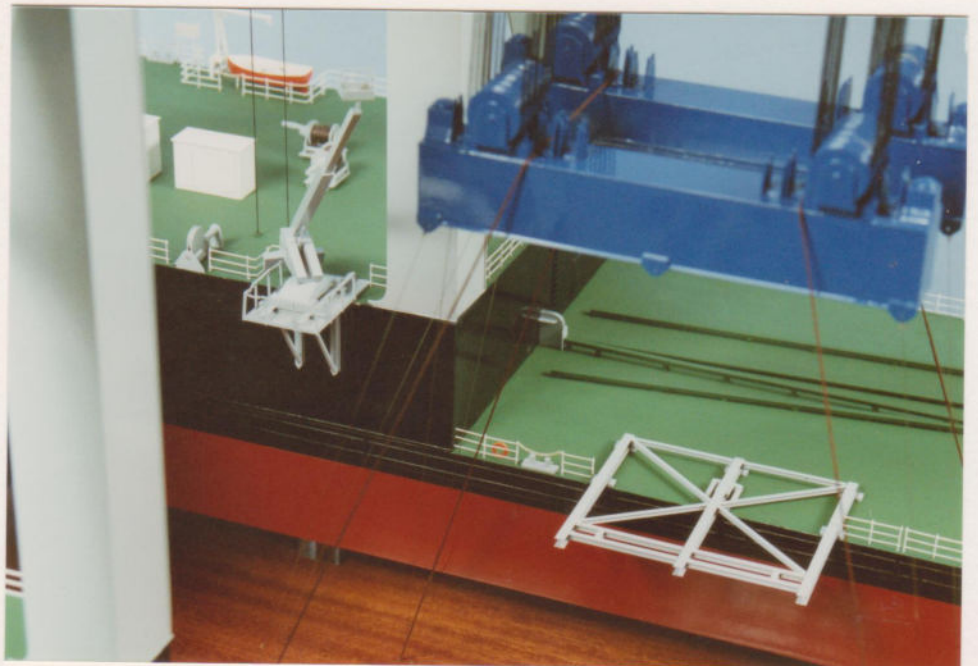


IX
EXTRA
GSA (achterkant).

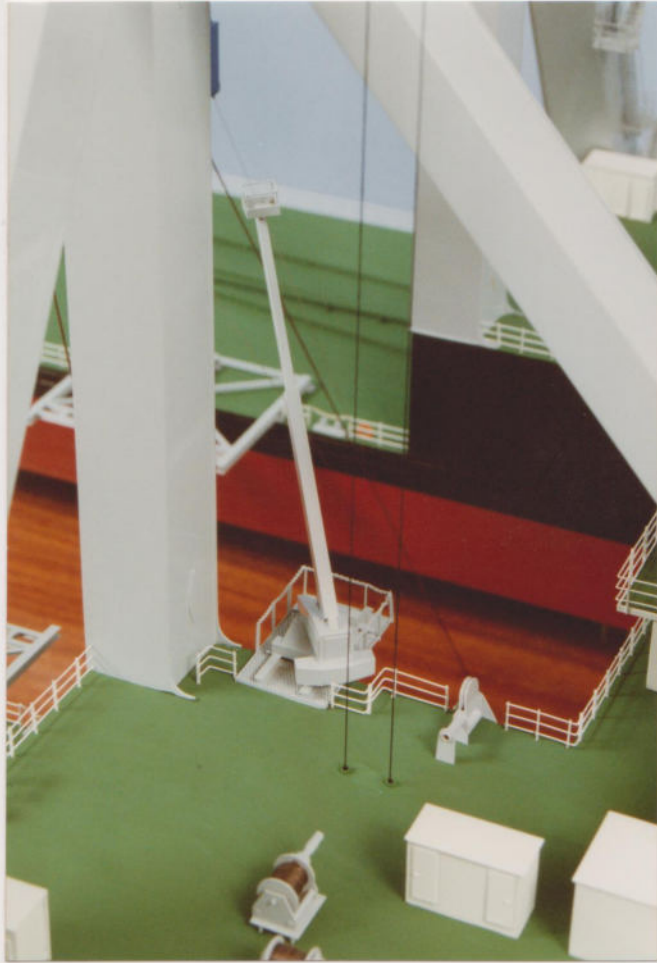
e4



SLIDING
FRAME
↙
↓



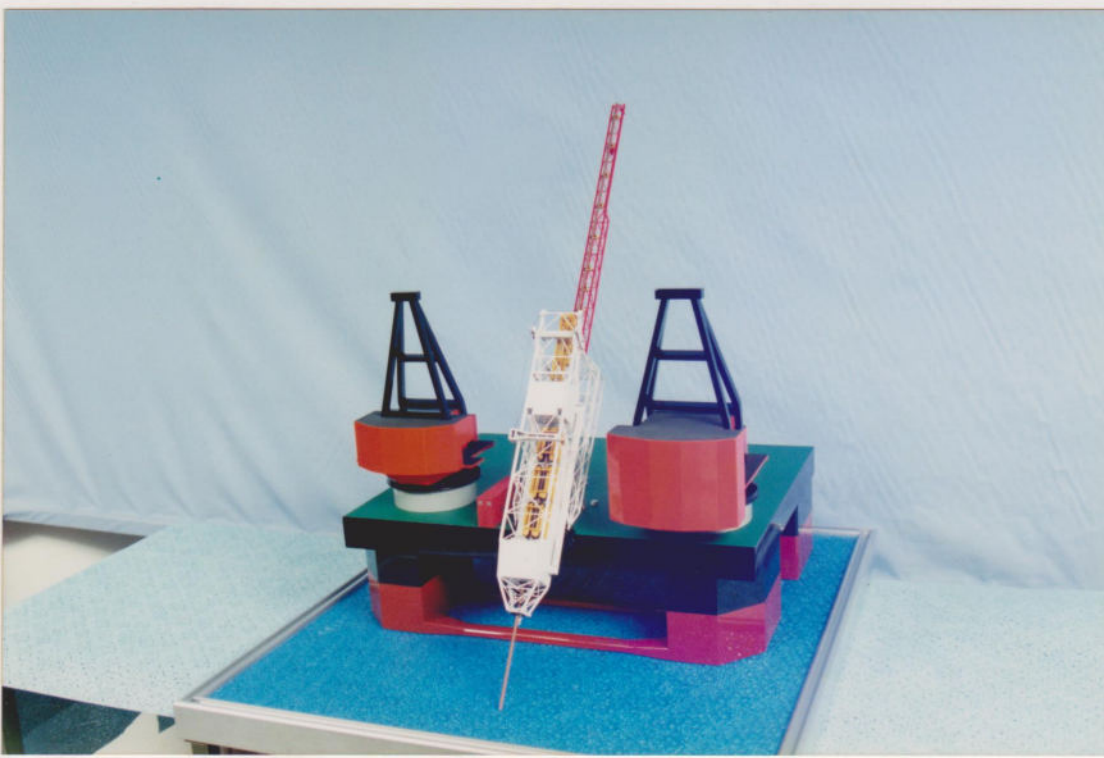
en Terry Pickler.

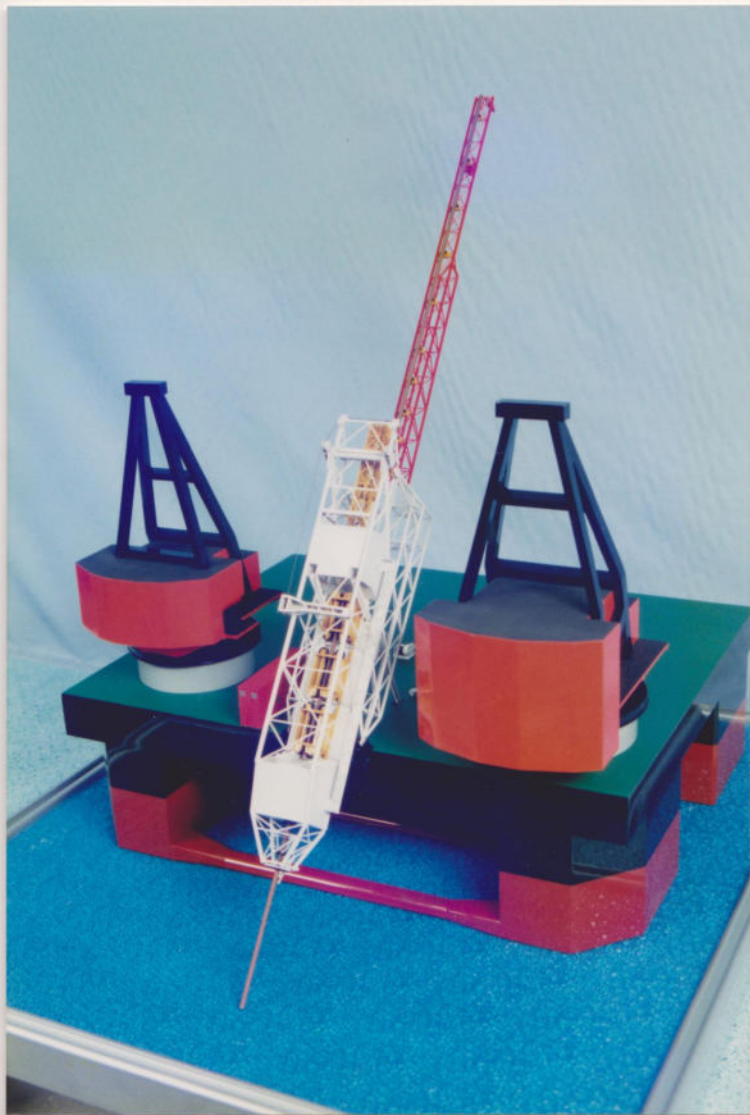


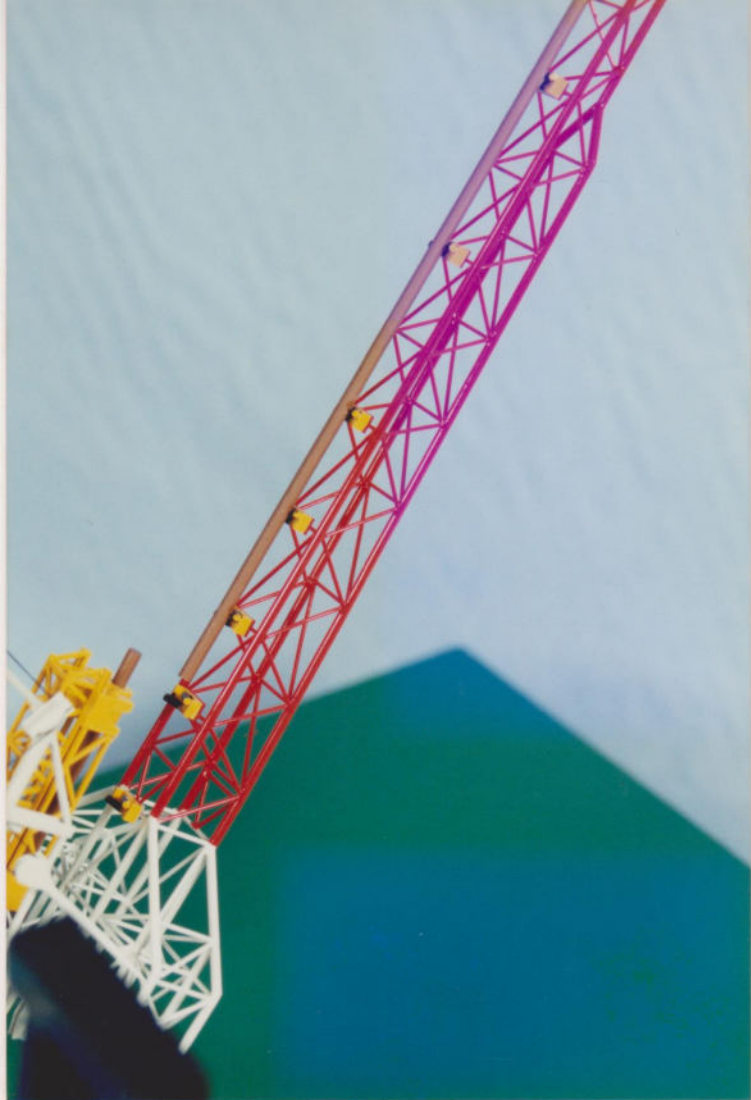
IHC - CUSTO
Stinger 0 p " BALDER
Incl. tafel.

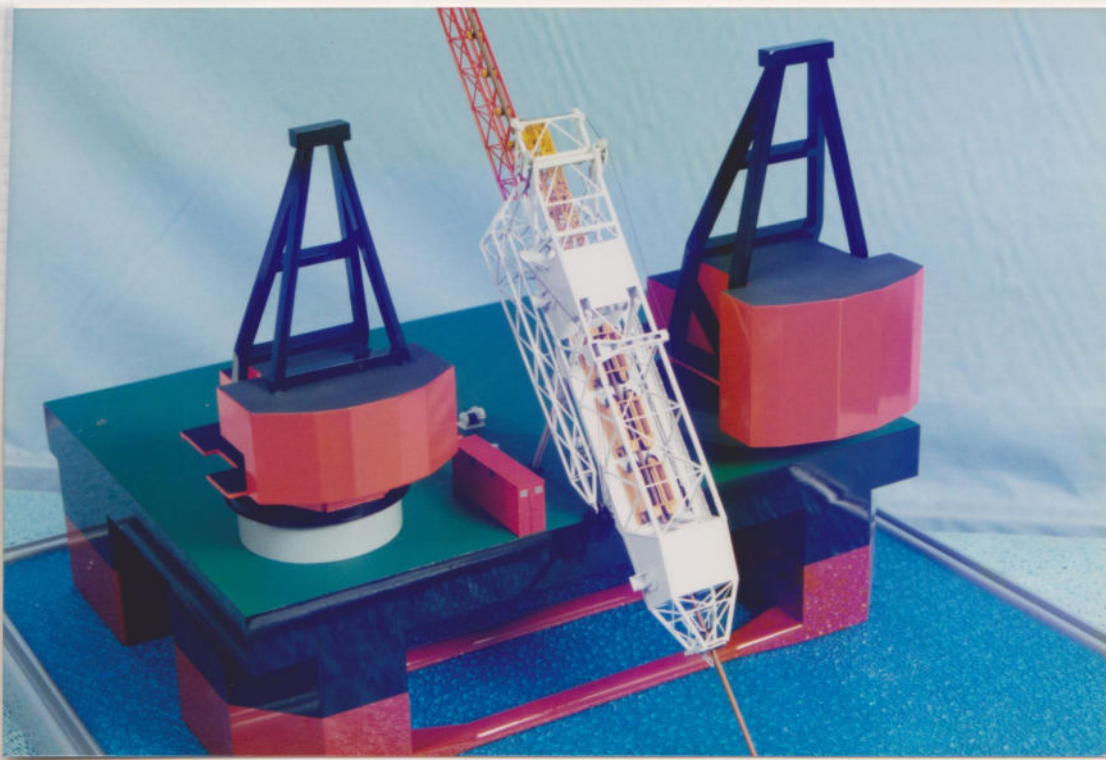
165 uur.
1:200

27/10/95











THOMAS
2x
MADE

26/6/08

1:75

73 cm.

302 uur.







