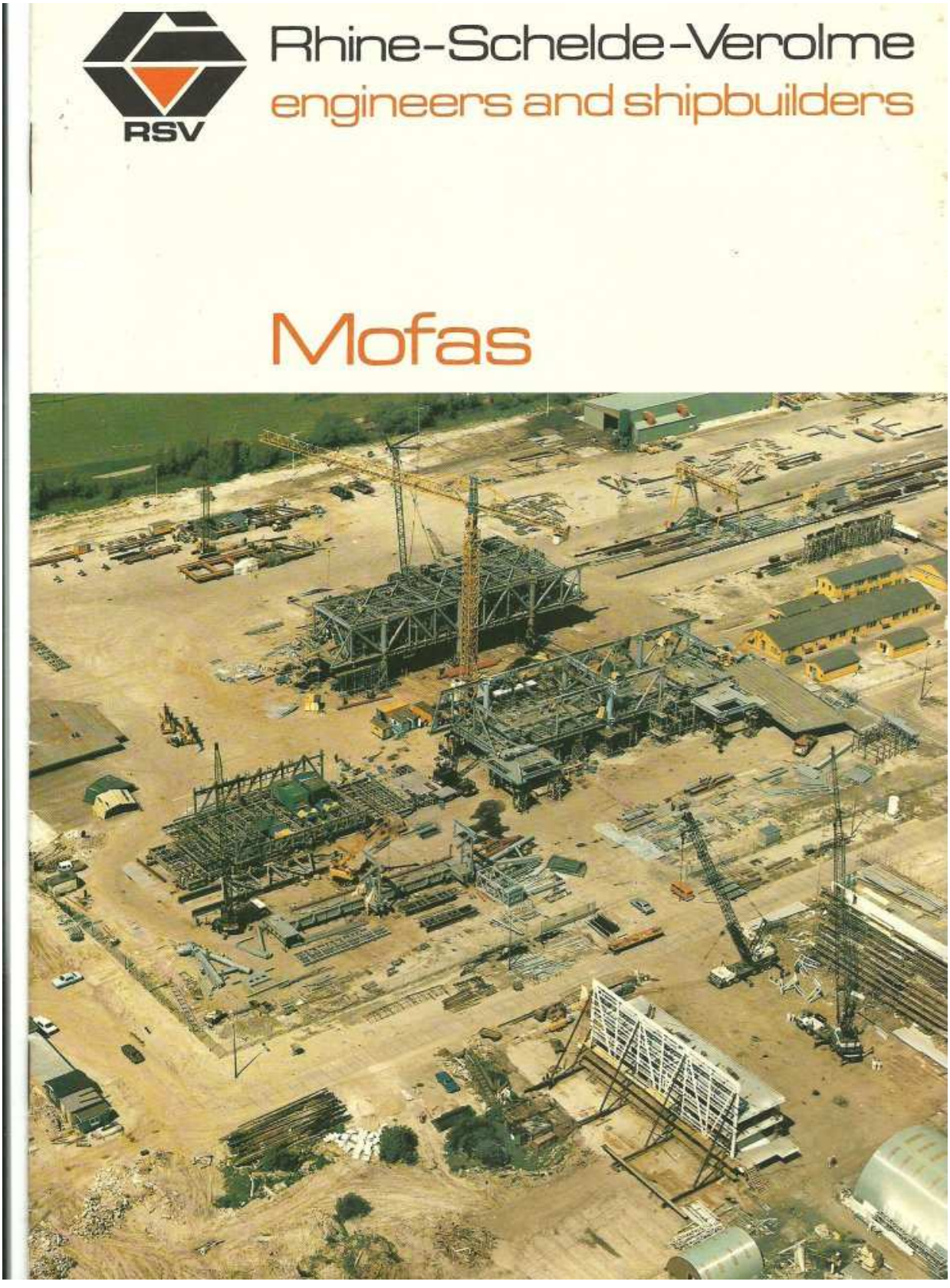
MOdule FAbrication Site "Mofas", een RSV/RDM dochter op het voormalige "Nieuwe Waterweg" terrein.

Ontvangen van Albert Ringeling, Houten.



Offshore
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Rotterdam Dockyard Company
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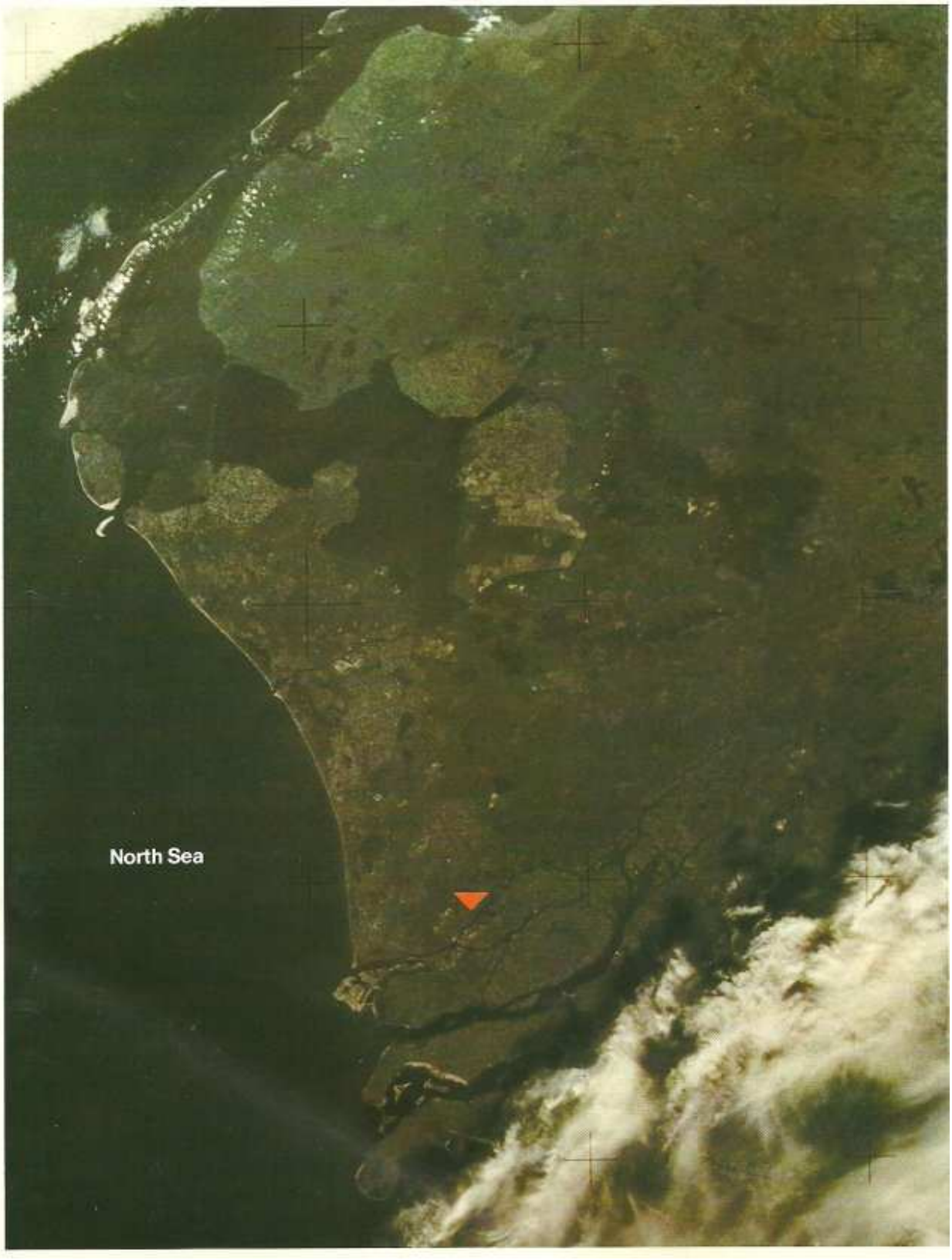
telephone (+31 10) 87 91 11
telex 22181

Division Shipbuilding



The photo facing shows Holland, a river delta on the coast, a country that for the greater part was created out of and by water.
A country that, because of its position, inevitably had to grow into the gateway of Europe.
The Dutch are people who, since time immemorial have been accustomed to living and working with all this water.
Who made history and achieved considerably reputation as navigators and shipbuilders, as traders and engineers.

Rhine-Schelde-Verolme, engineers and shipbuilders,
is representative of the latest know-how in Dutch technology and construction.
RSV employs 30,000 men.
The annual turnover is Dfl. 2,570 million (about 1,100 million US dollars).
Orders on hand currently amount to Dfl. 5,700 million (about 2,400 million US dollars).

Division Shipbuilding
design and construction of all types of ships up to 500,000 dwt., offshore and dredging equipment.

Division Shiprepair
repair, maintenance and conversion of all types of ships up to 500,000 dwt., of engines and offshore equipment.

Division Naval, Marine Engineering and Electrical Engineering
design and construction of naval vessels; marine engineering; electrical engineering.

Division Land Engineering
design and construction of all kinds of machinery, of equipment and systems for conventional and nuclear power stations, the oil and process industries, the building industry.

The Mofas-Module Fabrication Site is a part of the offshore department and is ideally situated in the Rotterdam harbour.
Mofas can handle modules up to a maximum weight of 3,000 tons and there is an open route to the North Sea.

Mofas has skilled labour both at the site and on disposal from all branches of RSV to build most complicated modules. RSV and Mofas are also glad to announce the existence of excellent relations with their work force and the trade unions. Over the past years no days were lost due to labour disputes.

Mofas

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Division Shipbuilding

Skidding of an equipment module weight 1,600 sh.tons,
62 x 19 mtr. (203 x 62 ft.)
height 12,5 mtr. (41 ft.)

administration
RSV erection and
construction company
P.O. Box 37 Flushing
telephone (+31 1184) 14301
telex 55213

Mofas site
P.O. Box 331
Schiedam
telephone (+31 10) 264611
telex 21430

Mofas facts and data

site lay out
total area appr. 80,000 m^2 (816,120 ft^2)
Workshop appr. 440 m^2, 4,736 ft (40 x 11 mtr)
(131 x 36 ft.)
Paintshop appr. 750 m^2 (8,063 ft^2) (50 x 15 mtr)
(164 x 49 ft) Free height 5 mtr (16,4 ft)
warehouse for equipment storage
6720 m^2 (72,334 ft^2)

waterfront
length of skid quay 50 mtr. (164 ft)
minimum water depth at waterfront at lowtide 5 mtr.
(16,4 ft.)
maximum water depth at waterfront at hightide
6,5 mtr. (21,3 ft.)

access to the North Sea
distance to the North Sea 24 km (15 miles). width of access to the North Sea 300 mtr. (984 ft.) no height restrictions, no bridges, high voltage overhead lines or other obstacles.
The New Waterway is well beaconaged and radar controlled. Tug and pilot service is available.

access to Mofas
Rotterdam harbour has excellent opportunities for transport by water from inland Europe and from overseas. RSV has the disposal of an own tugboat fleet and floating cranes with lifting capacity up to 200 tons. Rail en road connections are available, the four lane motorway from inland Europe runs close to the site. Access by air via Zestienhoven, Rotterdam airport, distance appr. 20 km. (12,4 miles) and via Schiphol, Amsterdam airport, distance appr. 70 km. (44,2 miles)

load out of modules
Maximum size: depending on the barge
maximum weight: appr. 3,000 tons
method of load out: up to 700 tons by means of floating cranes, up to 3,000 tons by means of skidding.

client office accommodation
Brick building of appr. 400 m^2 (4,300 ft^2), well furnished, telephone, telex and tele-copier connections are available.

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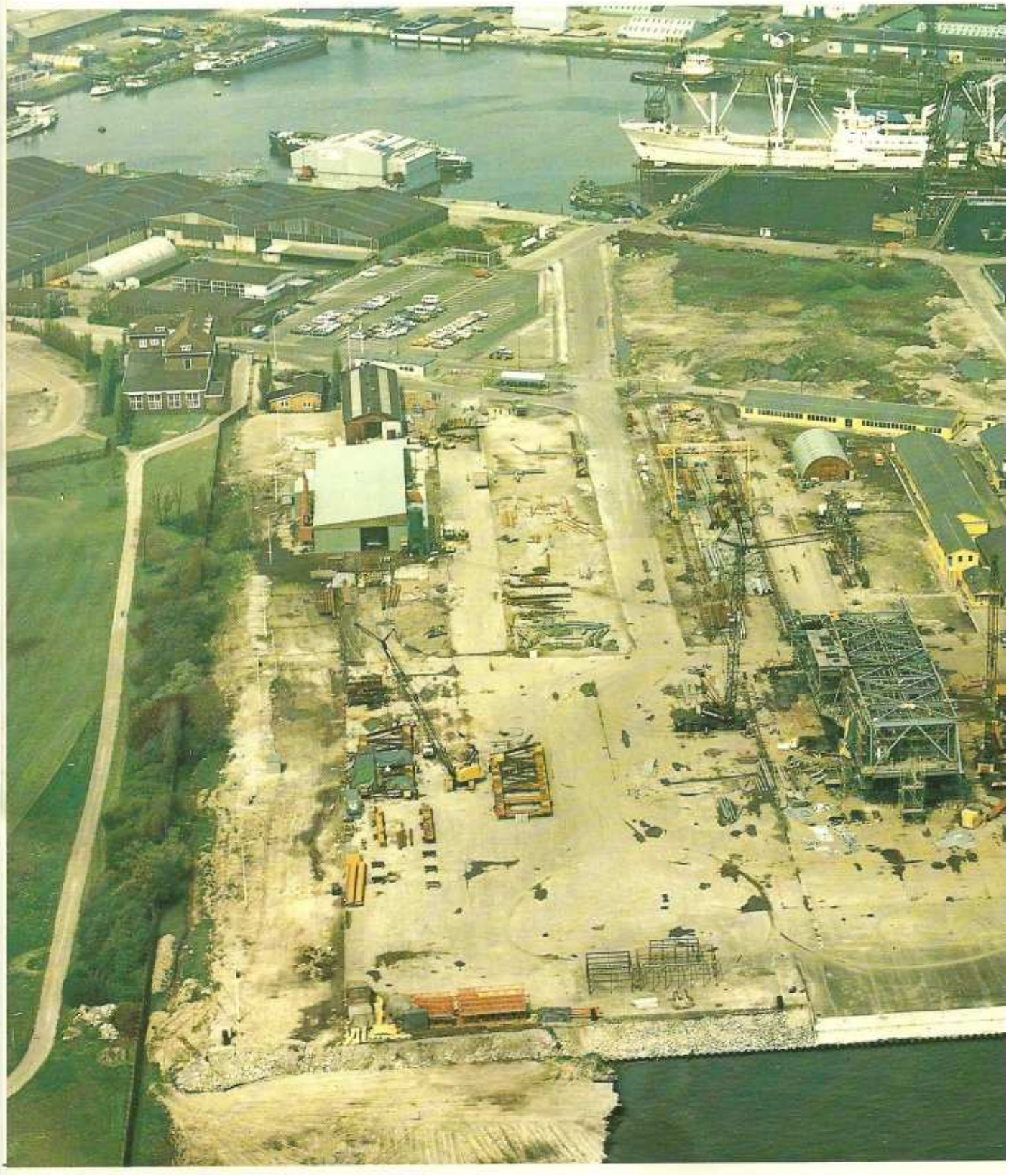
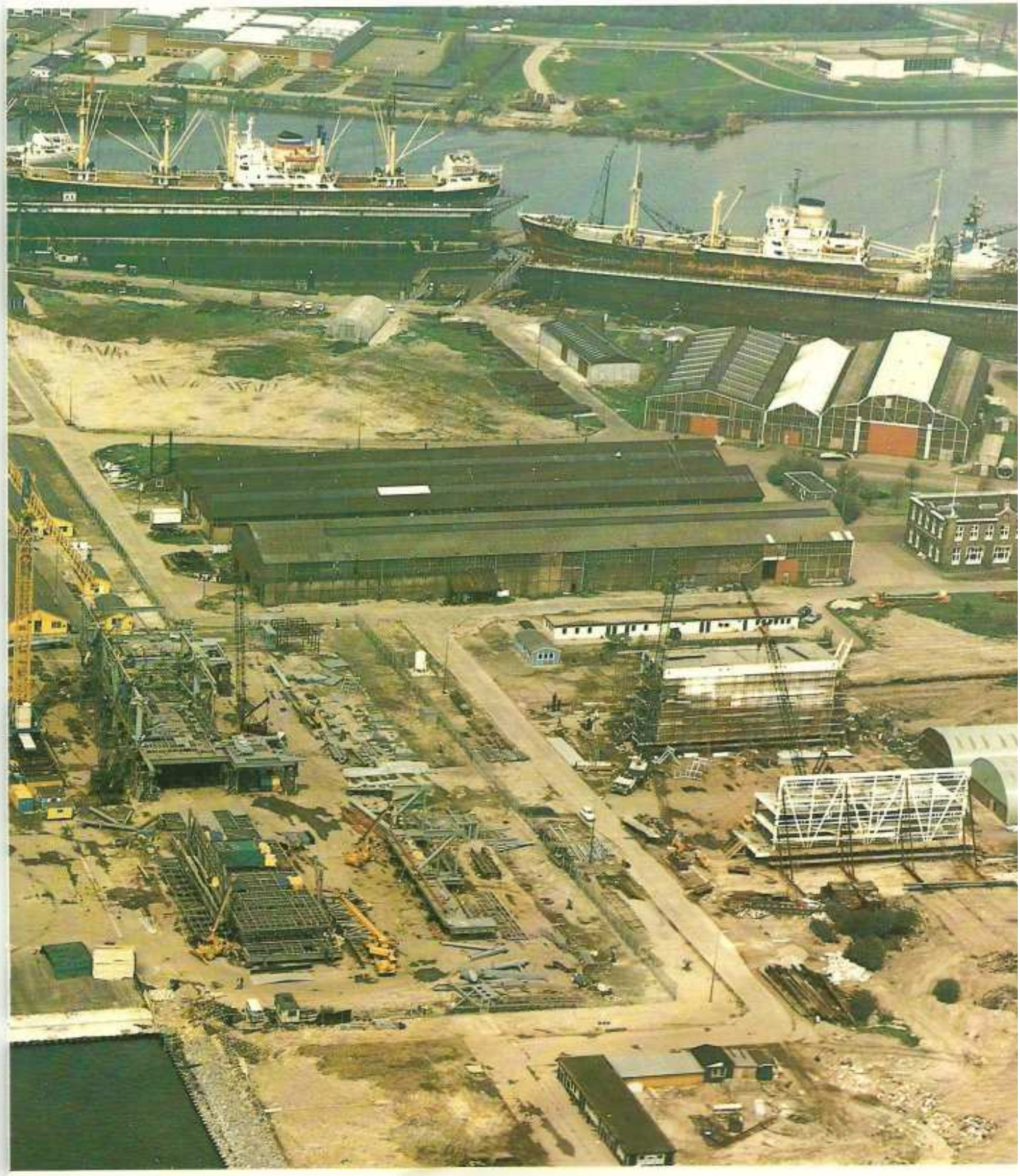
Division Shipbuilding



MOFAS

Mofas Module Fabrication Site

RSV



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Division Shipbuilding

The Offshore Department designs and develops a wide range of offshore installations. In addition to Marcon marine consultants, the Offshore Department has the RSV shipyards and workshops in the harbours of Rotterdam, Amsterdam and Flushing at its disposal.

The offshore department is backed moreover by the entire RSV group in such terms as electrical engineering, instrument engineering, pipeline construction, maintenance and repair.

jack up-semi submersible drilling rigs
drilling vessels
supply vessels
anchor handling vessels
fire fighting vessels
storage vessels
crane barges
pipe lay barges
pipe bury barges

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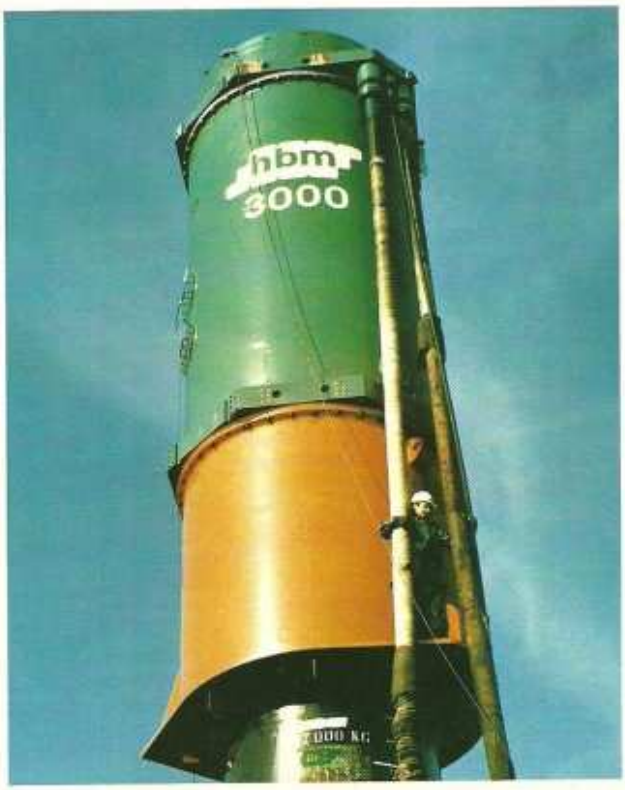
A great advantage to the customer is the RSV domination of the total field from platform to plant.

Marine Engineering

Designing and construction of windlasses, windlass and mooring winch combinations, anchor captans, chain stoppers, heavy cargo winches, anchor handling winches, mooring winches for chain and wire rope. Gantry cranes.
In cooperation with Hollandse Beton Maatschappij - H.B.M. - the production of Hydroblok® for under water piling.

Marine propulsion systems: diesel engines, steam and gas turbines.

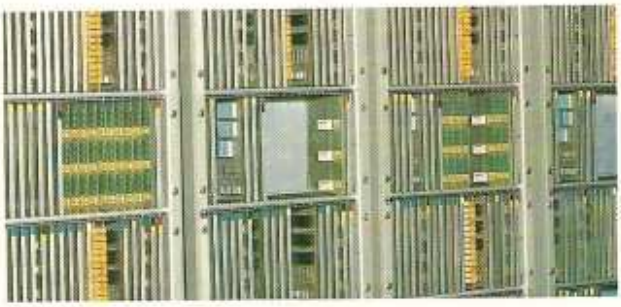
Shafting, nozzles and sternparts.

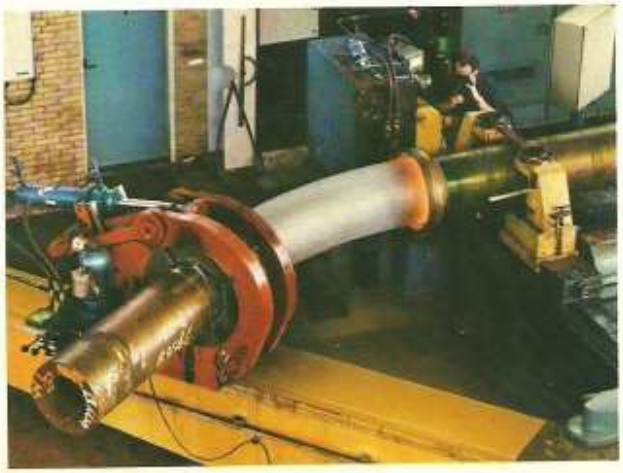


Electrical Engineering

Design, engineering, production and repair of electrical and automation installations for ships, offshore equipment, process plants, power plants.

High voltage isolating switches, desk and switch boards, automation panels, electronic units, electric and pneumatic process control equipment, generator lead-outs, electronic digital control systems, annunciators, transformers, power and lighting installations both on and offshore.





Wester Pipelines

Wester Pipelines is specialized in engineering, pre-fabrication, erection, maintenance and repair of

- pipelines for ships, offshore equipment, process and power plants
- high pressure pipelines and turbine pipelines
- piping of condensors

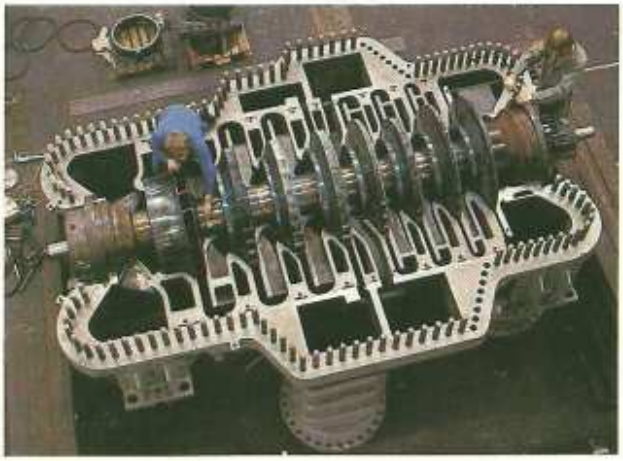
At their disposal is a unique pipe bending machine which can handle pipes ranging from 114 mm up to 712 mm diameter and a wall thickness from 6 mm up to 80 mm.
Radii from 500 mm up to 6,000 mm.

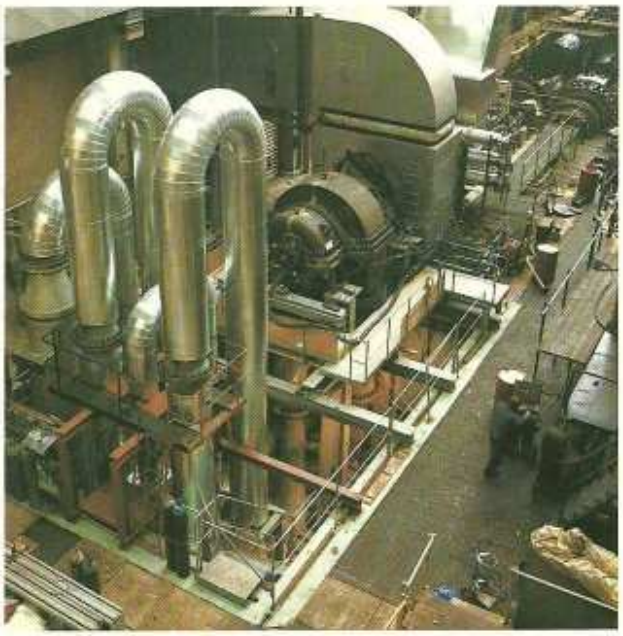
This bending method, without sandfilling, is very precise and executed by inductive heating that hardly changes the structure of the material.

RSV

Product Group
Process and
Environmental Equipment

Division
Land Engineering





Thomassen Holland

Reciprocating compressors

The product range comprises heavy duty reciprocating compressors with capacities from 100 - 8,000 hp, suitable for oil refineries, chemical and petro-chemical plants.
They conform to API 618 requirements and comprise a wide range of frames accomodating up to eight compressor cylinders per frame. Suction temperatures as low as minus 190° C, discharge pressures as high as 360 kg/cm^2 and discharge temperatures up to 200° C.

Turbo compressors

Manufactured under license with the Elliott Company, a division of the Carrier Corporation USA.
Capacities ranging from 2,000 to 150,000 cfm.
Many compressors have been installed in process plants all over the world, in many applications including ethylene, propylene, refinery wet gas, recycle gas, LNG and ammonia, as well as for offshore platform duties.

Aerodynamic performance testing of turbo compressors.

Thomassen Holland is proud to have facilities to test large turbo compressors in the most modern way.
In general all testing is done with inert gas under equivalent aerodynamic conditions, offering the customer the assurance that the turbo compressor will perform as predicted. The aerodynamic testing installation is driven by a Thomassen Holland/G.E. FS3 gas turbine with a capacity of 15,000 hp.

Gas turbines

Manufactured under a manufacturing agreement with General Electric USA.
The turbines can be supplied in the range of 10,000 to

40,000 hp., and in the following configurations:
- simple cycle
- regenerative cycle
- simple cycle with waste heat boiler
- STAG cycle (a combination of gas turbine, steam turbine and waste heat boiler)

Many units are in operation all around the world in pipeline booster stations, power stations, refineries, chemical and process plants, as well as in marine propulsion systems.

Steam turbines

Manufactured under license with the Elliott Company, a division of the Carrier Corporation USA.
The following steam turbines are manufactured:
- single valve/ single stage
- single valve/multi stage
- multi valve/multi stage

The steam turbines are designed for mechanical applications such as pump and compressor drive, calling for extremely rugged design.

Gas engine compressor and generator sets.

Compact integrally built units, meeting the requirements of to-day's petroleum, petro-chemical, chemical and gas industries. Manufactured in capacities up to 3,000 hp. with a maximum of 12 power cylinders and 6 compressor cylinders.

RSV

Product Group
Process and
Environmental Equipment

Division
Land Engineering

Four major enterprises of RSV design and manufacture apparatus as well as heavy construction parts for offshore rigs.

"Breda" Engineers
Breda - the Netherlands

NDSM General Engineering
Amsterdam - the Netherlands

Royal Schelde
Flushing - the Netherlands

Rotterdam Nuclear
Rotterdam - the Netherlands

pressure vessels - fractionating columns and towers - condensors - coolers - evaporators - heat exchangers - waste heat boilers - utility boilers - spherical reactors - gate and ball valves.

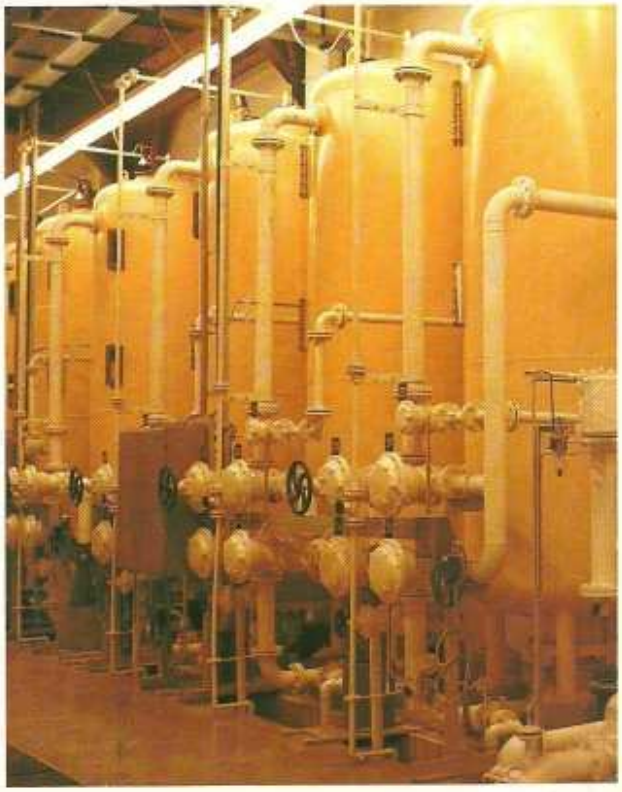
Two other enterprises of RSV also taking part in the building of modules:

Delta Engineering
Rotterdam - the Netherlands

Their fields are industrial watertreatment and incineration of industrial waste.

Landaal - Schelde
De Meern - the Netherlands

Landaal Schelde is specialized in engineering and the supply of equipment for industrial refrigerating and air-conditioning.



RSV

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