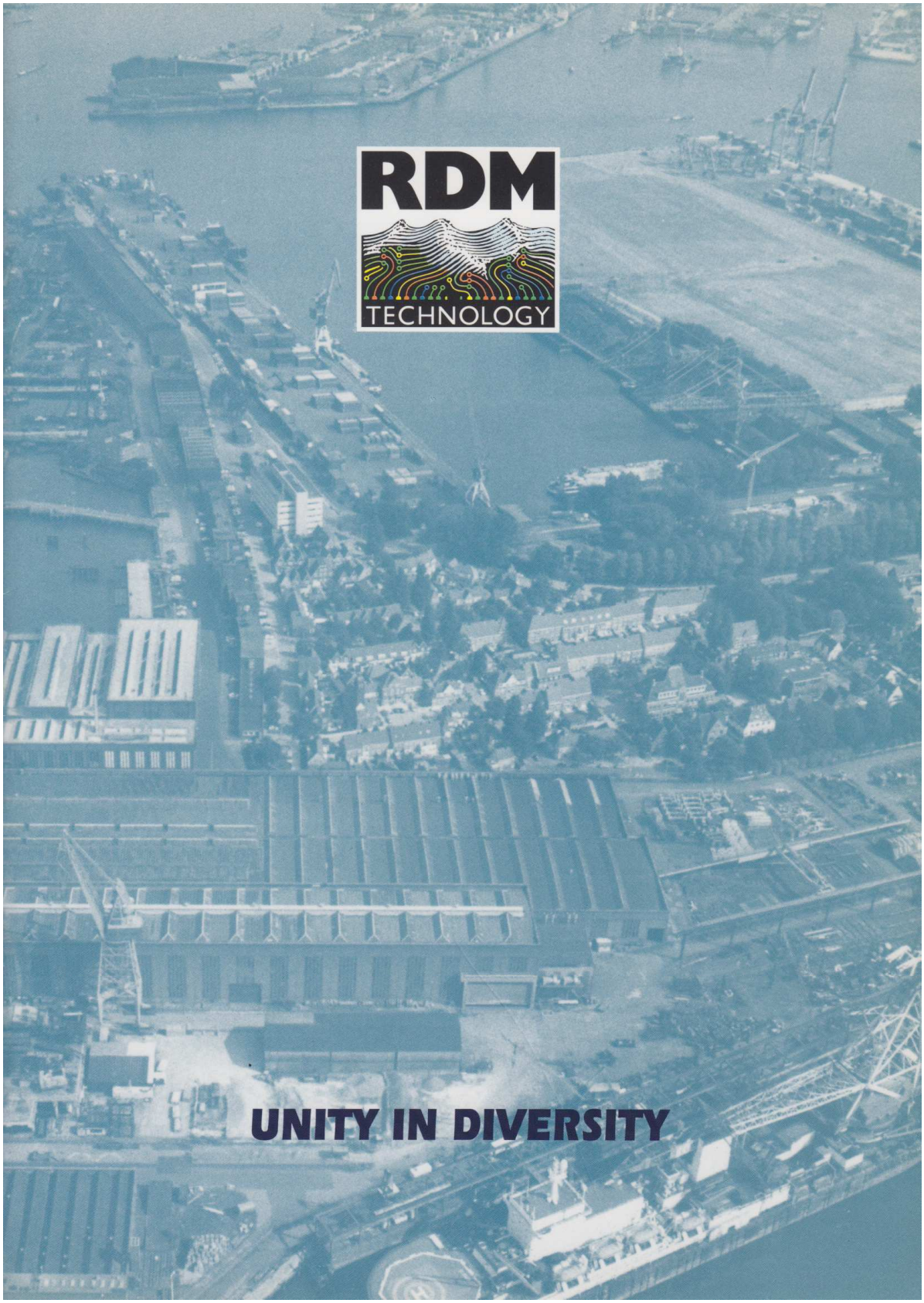
"RDM Technology – Unity in Diversity, ± 1990.

Ontvangen van Rob van den Broek, 's Hertogenbosch.

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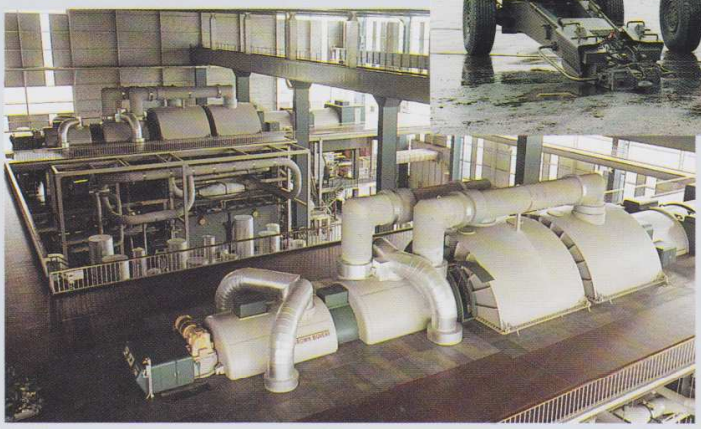


RDM – Proven capabilities in special projects

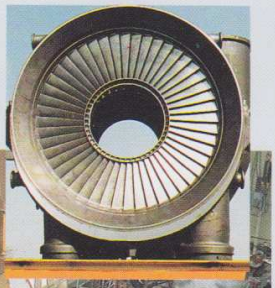
RDM means business – a worldwide business in the civil and defence markets that is based on its resources, development and manufacturing know-how.
Almost a century of successful trading – that began in the maritime field in 1902 – has generated resources from which human skills in engineering and project management have been developed. These, together with the use of state-of-the-art equipment are combined to offer a service in the production of capital goods that ranges from a single item of equipment to the most sophisticated of turnkey projects.

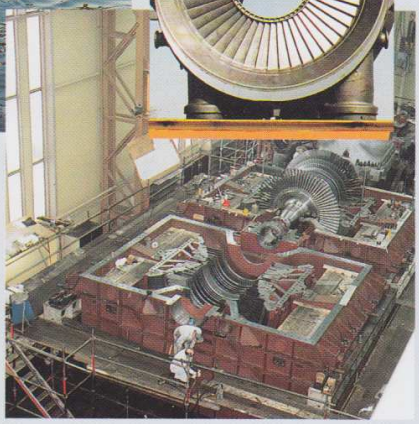
RDM is renowned, worldwide, as a reliable supplier of custom-built projects and services in such fields as:

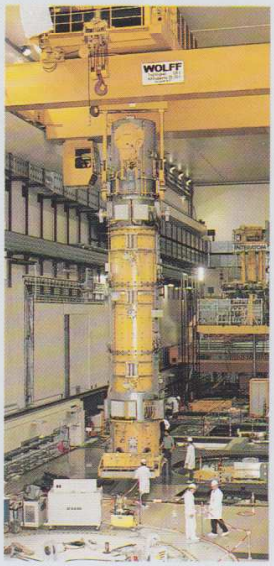
- marine and off-shore
- power generation
- petrochemical, and chemical, processing
- mechanical engineering.

Top left: high-vacuum column for the Shell refinery at Pernis.
Top right: 'SALM' buoy for the North Sea Fulmar Field.
Centre: M114/39 Field Howitzer.
Centre right: 'Walrus' class submarines for the Royal Netherlands Navy.
Bottom left: steam turbine installations for a power plant.
Bottom right: 'Isostripper' column for the South Humberside refinery.
Above: the Ariane rocket, comprising components machined by RDM

And RDM conforms to the international standards ISO 9001 and AQAP-1, which is an independent assurance that RDM is committed to Total Quality Management in all that it does. In its simplest terms, it means a project management and service organisation that can tackle the most complex of jobs and complete the whole operation – delivering the project ready for use – successfully and economically, in time, every time.



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Marine and off-shore

RDM has been a major supplier to maritime and off-shore industries for decades. Contracts for design and construction of various types of jack-up platforms, semi-submersibles, crane barges and loading terminals have been executed successfully. In addition, RDM can manufacture smaller units such as specialised compressor modules, riser columns and the essential components of drilling and oil-production equipment – as well as building simulators such as Damage Repair Instruction Units (DRIU) for maritime instruction purposes.

RDM is the designated builder of submarines for the Royal Netherlands Navy, and has many years' experience in submarine design and construction. The 'Walrus' class of submarines is already in service and a new class – the 'Moray' – currently being developed is now in its definition phase. The modular design of the 'Moray' class makes it specially adaptable to the export market. A speciality of RDM is the repair of and modifications to submarines of various types.

Power generation

RDM has an established position in the energy sector through its involvement in the construction of major components for conventional and nuclear power plants. The rapid growth of the demand for power plants using both steam and gas – and the new technology of coal gasification – create exciting new market opportunities. From the outset RDM has been involved in steam turbine manufacture and installation and the company is well-placed for both their construction and maintenance.

Another growing market is in environmental technology. RDM has the ability and technological means to handle projects such as the development and construction of waste incineration plants.

Top left: 'Zeeleeuw' submarine on sea-trials.
Top centre: submarine control room.
Top right: 'Ostrea' heavy-lift barge.
Centre: Steam turbine housings.
Bottom left: vessel for nuclear power plant.
Bottom centre: rigid arm for 'SALM' system.
Bottom right and above: 'Maersk Endeavour' jack-up drilling platform.


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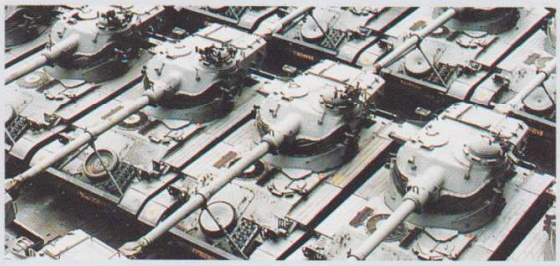
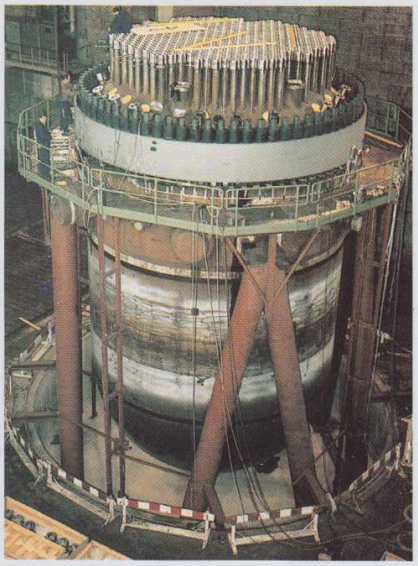




Petrochemical, and chemical, processing

Its in-house innovations and developments of fabrication and welding technology make RDM one of the leading pressure-vessel manufacturers in the world. Specialising in the fabrication of an up-market range of heavy-wall, large diameter vessels in alloyed or cladded steel, RDM has successfully built a wide variety of standard and fully-dressed pressure vessels for the petrochemical, and the chemical, industries for on-shore and off-shore use.

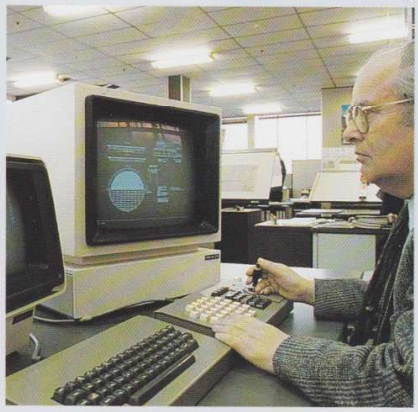
Mechanical engineering

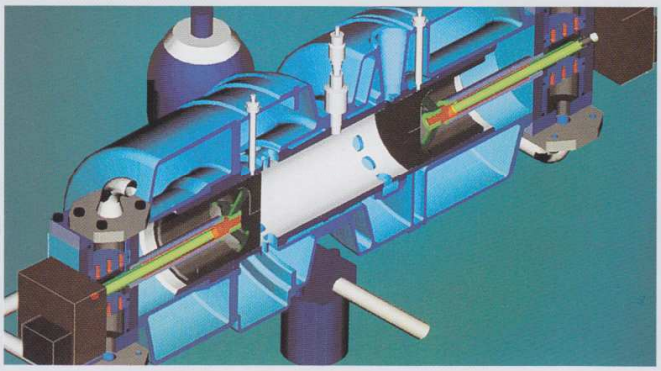
RDM's engineering capability includes the design, development, manufacture and supply of advanced products in the defence and civil sectors.

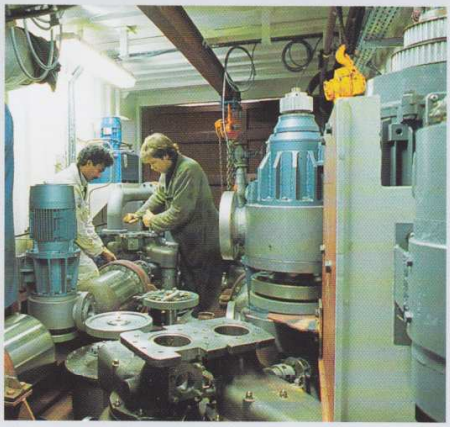
In the defence sector, ordnance has been RDM's speciality for years. Current production programmes include manufacturing, modification and mid-life overhaul programmes for towed and self-propelled howitzers, anti-aircraft guns and main battle tanks among others. A novel helicopter landing system permitting helicopter operations on board ships in adverse sea conditions has found worldwide acceptance.

In the civil sector, RDM is in the forefront of the technological advances in CAD/CAM techniques. Using such techniques – in combination with a unique selection of CNC machines, welding processes and assembly facilities – means that RDM can handle any project efficiently, even those that may be considered non-routine.

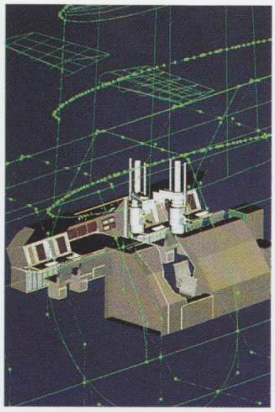
Top left: slugcatchers on transport.
Top right: overhaul of AMX light tanks.
Centre left and bottom left: hydraulic cylinders for the Eastern Scheldt Storm Surge Barrier.
Centre: helicopter landing grid.
Centre right: assembly of the 'ATUCHA 2' vessel.
Bottom right: CNC machining.







UNITY IN DIVERSITY



Diversification is the key to success and RDM is proud of the way in which it has kept in step with changing markets and ever-increasing customer demands. From its historical position as a manufacturer of quality products, RDM has grown into an innovative company with extensive experience in problem solving, design, development, construction and support of complex projects.

Research and development

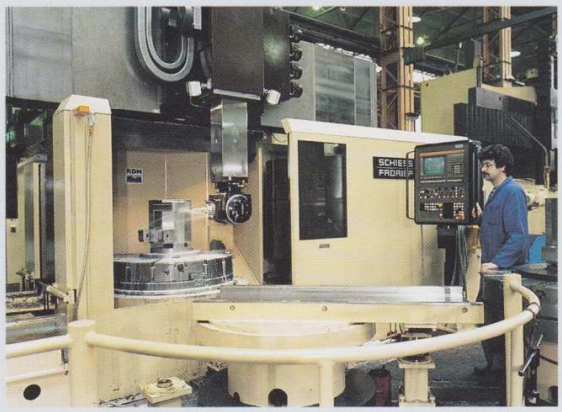
RDM's naval involvement means a long-standing interest in diesel engine powered propulsion. Two sophisticated engine systems – an AIP (Atmosphere Independent Propulsion) diesel engine and a free-piston engine – are exciting examples of RDM's capabilities in research and development. AIP is being further developed to enable the use of an internal combustion engine under water. Applications in civil and defence systems are being considered. A test system has been operating successfully and full-scale implementation is in progress.

As a complete contrast, RDM, in co-operation with agricultural experts, has developed a novel whole crop harvester – the Agri-Jobber – for harvesting forage and industrial crops. This system can easily be converted into, for instance, a slurry spreader with injector or a self-propelled seed-drill combination.

Project management

From the examples of RDM's activities listed in this brochure it may be clear that only a well-organised project management group can handle diverse, multi-million dollar, complex and time-critical projects, with highly motivated people using comprehensive information systems.

Top left and centre: quality control.
Top right: design.
Centre right: project management.
Centre left: free piston engine.
Bottom left: Agri-Jobber field test.
Bottom right: Atmosphere Independent Propulsion (AIP) diesel engine test rig.
Above: design for 'Moray' class submarine control room.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Co-operation and partners

Whether it be a licence agreement with a multi-national company for the production and installation of turbines for large power plants, or a joint venture with other companies, RDM has an excellent record of business co-operation. It has resulted in RDM and its partners gaining many large civil and military contracts. It shows that RDM has the capability to manage non-routine projects with a flexibility that allows co-operation with different organisations and an appreciation of their methods.

Facilities

RDM's location – on Europe's main inland waterway in the port of Rotterdam – offers unparalleled possibilities for transport. With free access to the ocean, principal motorways, European railway network and airports.

The facilities include various machining, welding and construction workshops, capable of accommodating large and heavy equipment. The availability of a ship lift, heavy lift cranes and multi-wheeled heavy-duty low loaders ensures efficient internal transport.

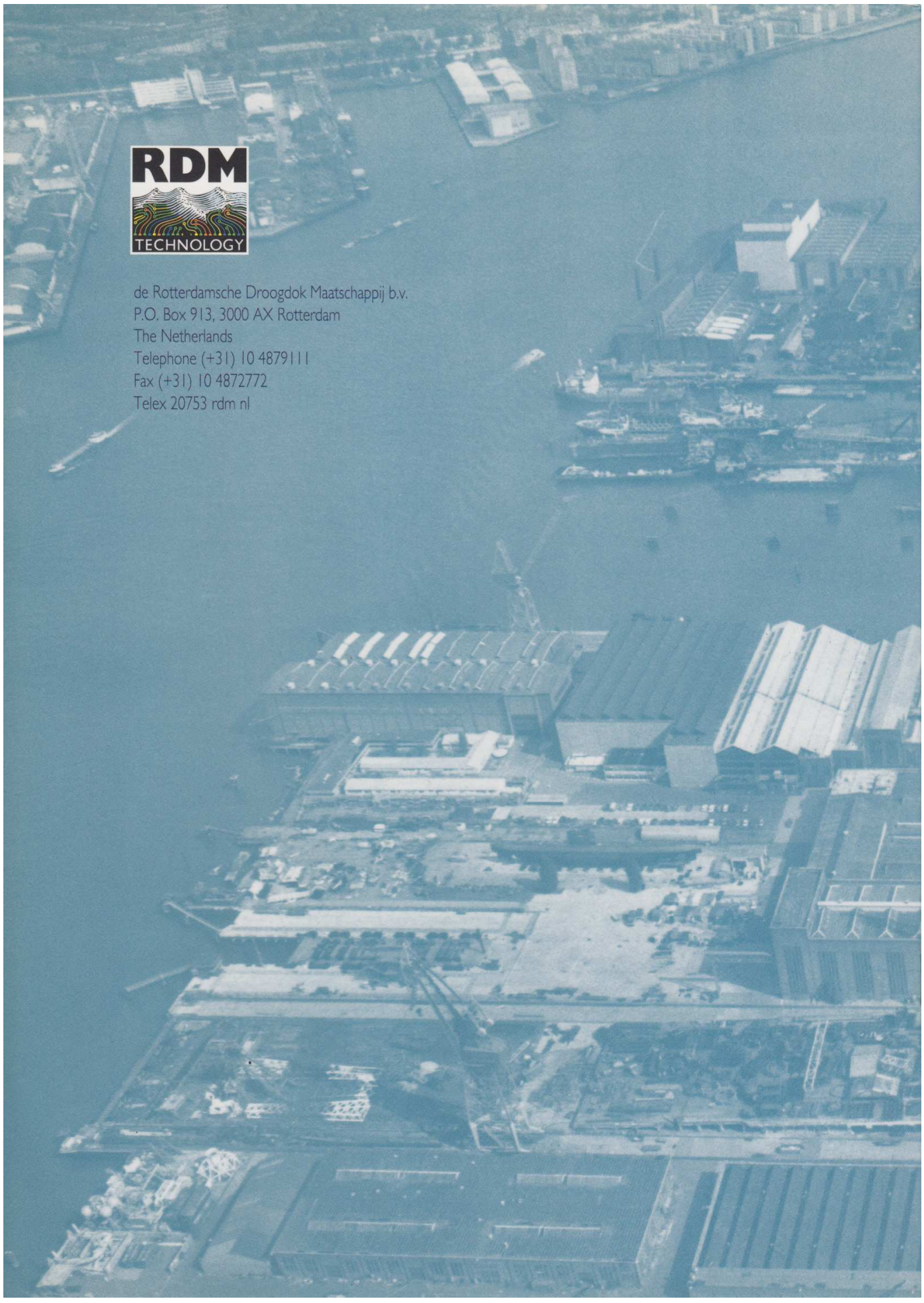
RDM – your specifications, our expertise

RDM means Business – translating your specifications into quality products using our technology, experience, CAD/CAM design systems, manufacturing know-how, project management and production control.

RDM – an ever improving company – is committed to Total Quality Management, and has the ISO 9001 and AQAP-1 standards to prove it. But that's not all; as an inherent part of our policy we offer you technical assistance, maintenance support and a comprehensive after-sales service.

RDM – UNITY IN DIVERSITY

Top left and bottom centre: vertical boring and milling machines.
Top right: welding and construction workshop.
Centre left: measuring bench.
Centre: welding robot.
Centre right: shiplift.
Bottom left: cleanroom.
Bottom right: CNC machining centres.
Above: RDM's facilities.



de Rotterdamsche Droogdok Maatschappij b.v.
P.O. Box 913, 3000 AX Rotterdam
The Netherlands
Telephone (+31) 10 4879111
Fax (+31) 10 4872772
Telex 20753 rdm nl