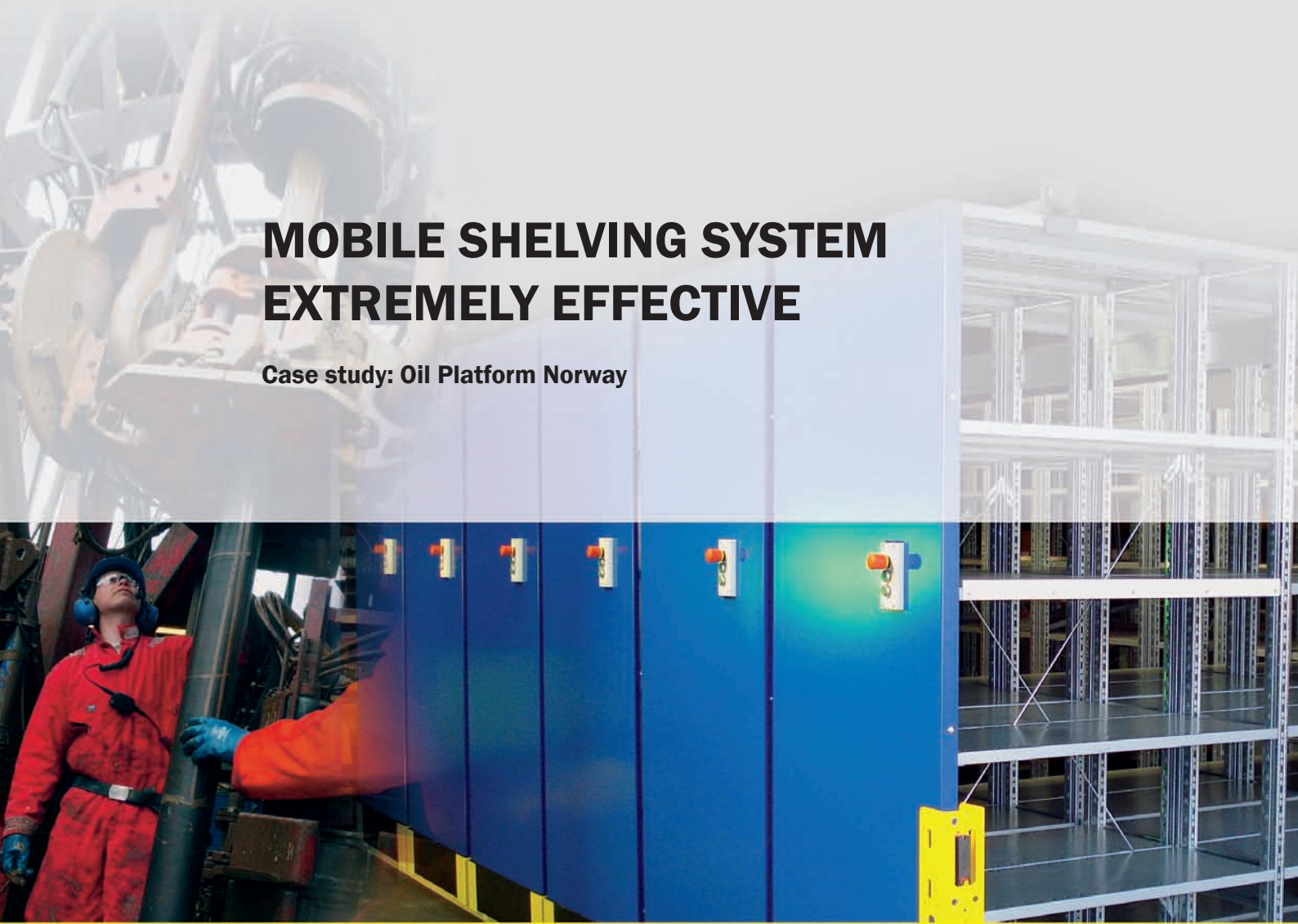


MOBILE SHELVING SYSTEM EXTREMELY EFFECTIVE

Case study: Oil Platform Norway



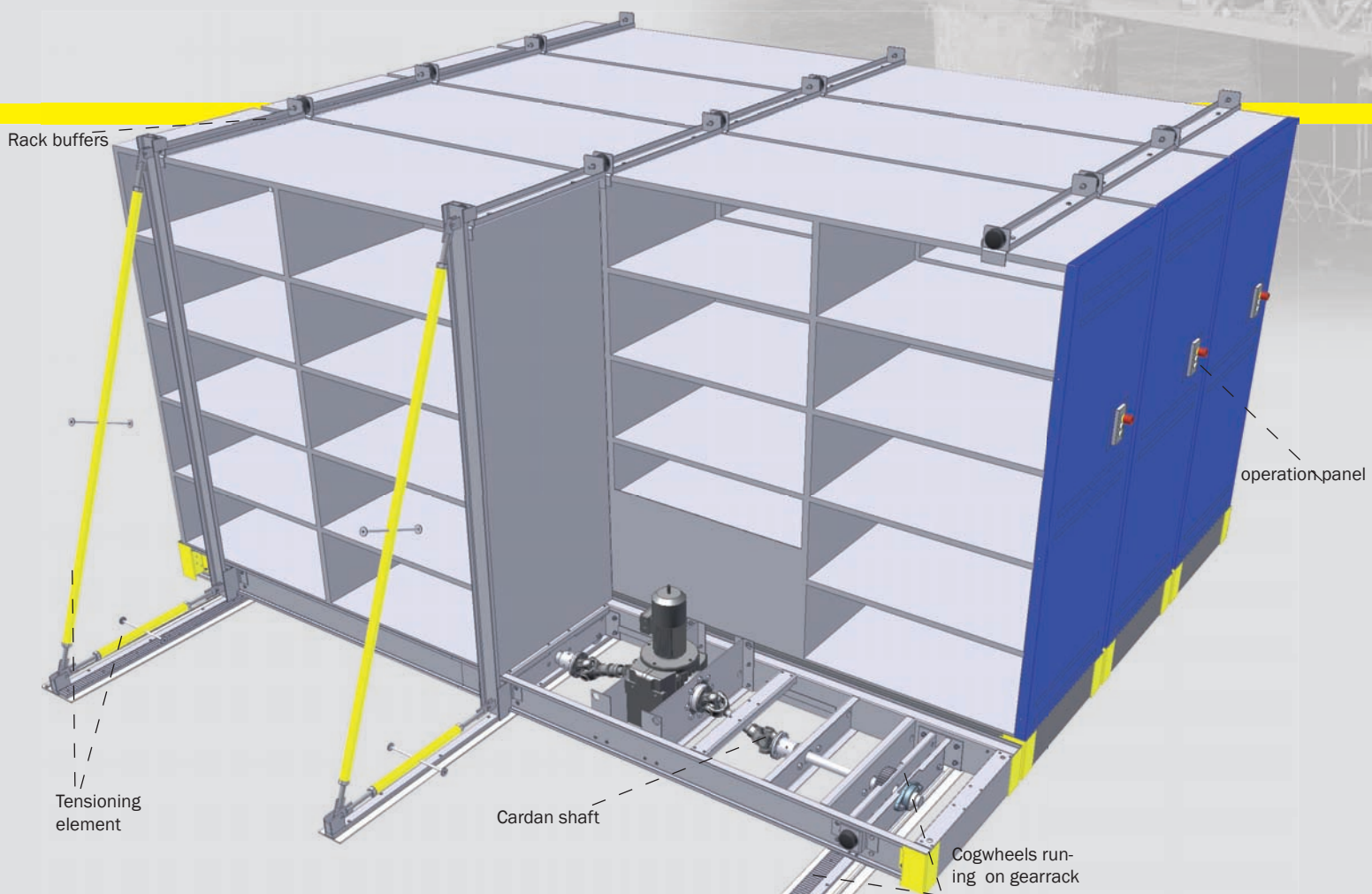
Extremely Effective

Special constructions such as oil rigs are not only very costly, they also offer limited space. Optimum utilization of the available space is therefore a priority. This situation is exacerbated by conditions particularly for an oil rig, for instance extreme weather and atmospheric impact, and a moving base. The solution designed by SSI Schaefer with these specific requirements in mind makes sure the many benefits of a mobile shelving system are available in full even under such adverse conditions.

SSI Schaefer installed the first electrically powered mobile shelving system of its kind on an oil rig off the coast of Norway. The development phase focused on the system's safety and its motorisation concept. Self-braking motors were used to provide as much safety as possible. Shelf movements are controlled by means of two toothed rails in each track. Tensioning elements secure the shelves mechanically when the weather is bad and the sea extremely rough.

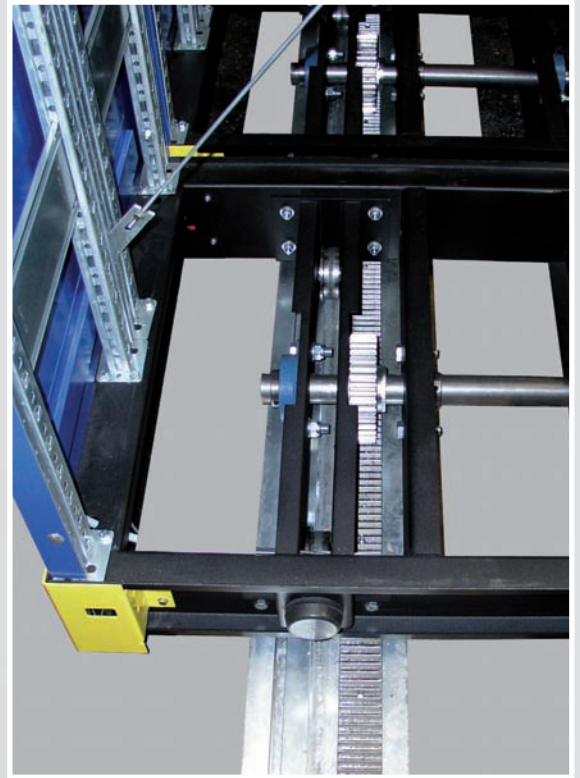
Project objectives:

- ▶ Construct a mobile shelving system to stand on a moving base (oil platform)
- ▶ Strict consideration of stringent safety factors
- ▶ Ensure compatibility of the shelf design with fully automated control system



Technical details:

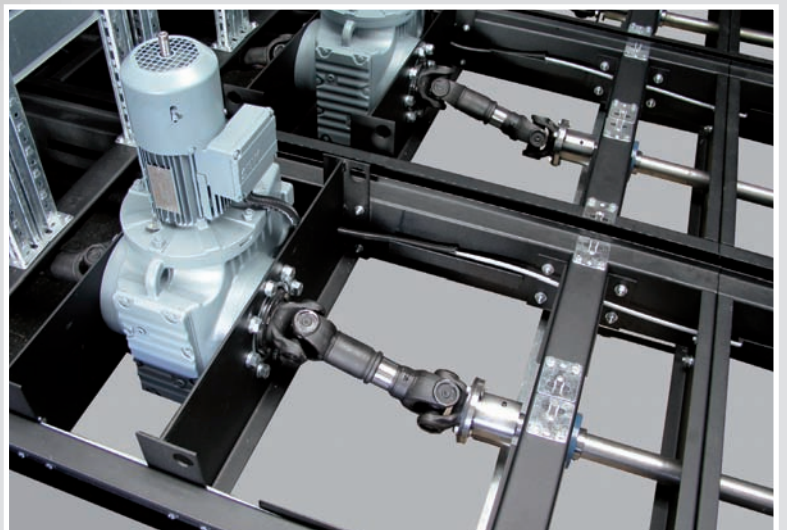
Track length:	7 running metres
Track type:	3-lane with integrated tooth rail
Number of shelves:	7
Shelve type:	Special frame
Shelve dimensions:	4170 x 815 x 185 mm
Motor:	0.55 kW worm gear motor (statically self-braking)
Shelve load capacity:	4,000 kg / shelve
Special features:	<ul style="list-style-type: none"> • Buffers on the carriages that secure both carriage and shelve against lateral sway. • Tensioning element for securing the entire installation during extremely harsh weather conditions. • Tilt protection • Utilization of halogen-free cables • Electrical power supply designed according to customer specifications • Twin drive systems



The shelves are moved via cogwheels running on toothed rails

Scope of delivery and service:

- ▶ Concept design
- ▶ Shelving Systems
- ▶ Carriages
- ▶ Controls
- ▶ Tensioning elements
- ▶ Documentation
- ▶ Spare parts package



Utilization of robust, high-quality drive components



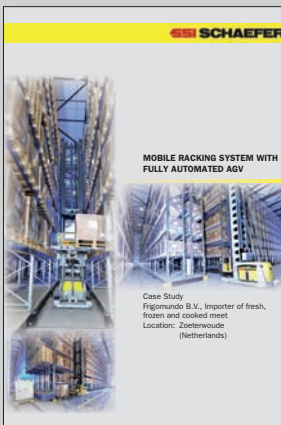
Leaflet:
Mobile Racking Systems



Leaflet:
Automated Mobile Racking Systems



Case Study:
Simon Hegele GmbH



Case Study:
Frigomundo B.V.



Case Study:
Eugster Frismag AG



Case Study:
Titania Fabrik GmbH

- ▶ General contractor for logistics
- ▶ Planning and consulting
- ▶ Warehouse control
- ▶ Control technology
- ▶ Steel construction / racking systems
- ▶ Racking storage and retrieval vehicles
- ▶ Conveying technology
- ▶ After-sales: spare parts, service and maintenance

