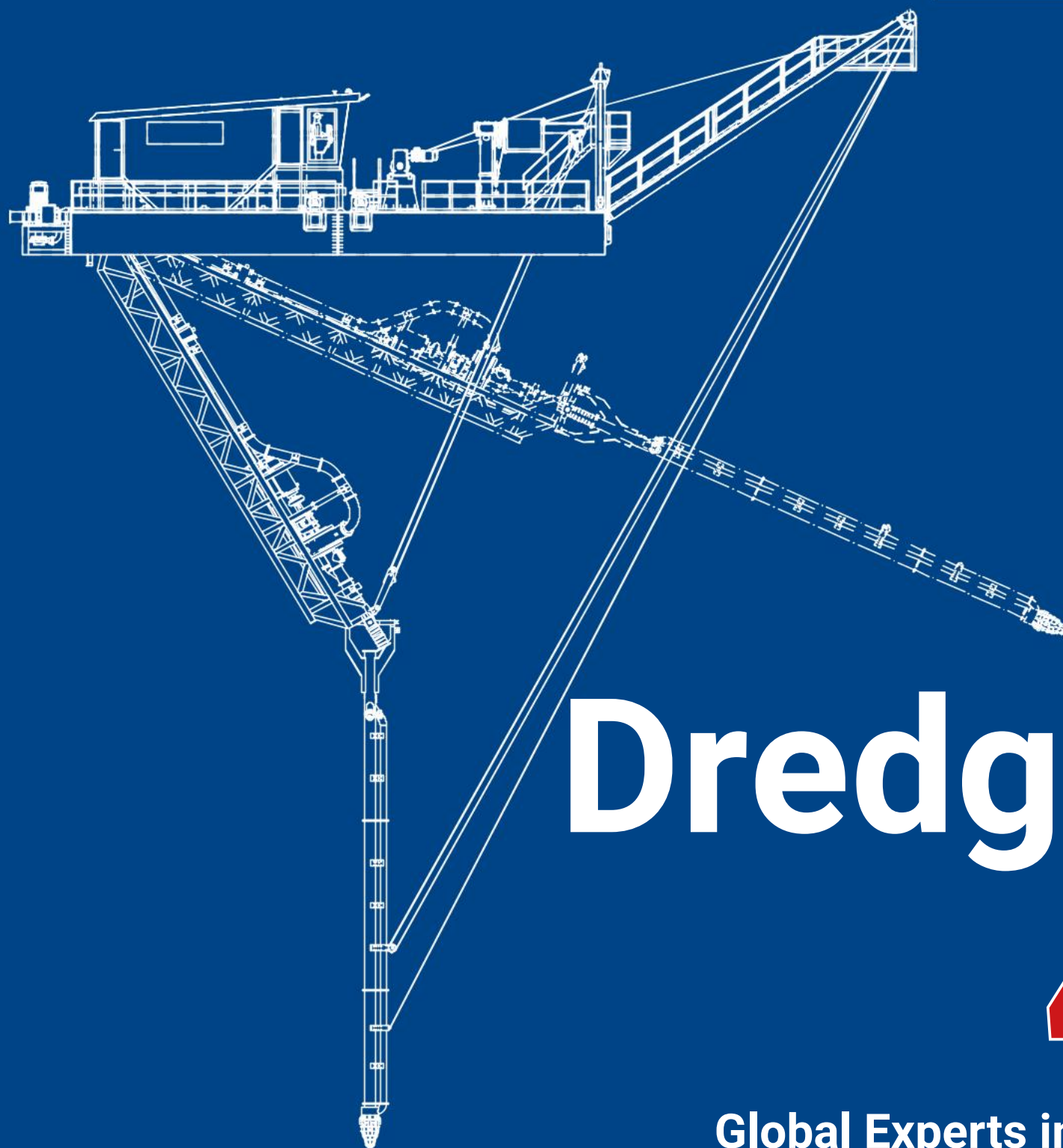




WORLD
DREDGERS



Dredging 4.0

Global Experts in Suction Dredging

**EXPERTISE,
INNOVATION
AND SERVICE
FROM A SINGLE
SOURCE!**

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WORLD DREDGERS

Experts in Suction Dredging

At World Dredgers, we combine over 120 years of field-proven dredging expertise with innovative engineering within the Hülskens Group, driven by one clear mission: to design high-performance and cost-effective suction dredgers for mineral extraction and maintenance dredging.

We design, engineer, modernize and optimize suction dredgers and pumping systems individually according to customer requirements – with a strong focus on optimization, cost-efficiency and operational reliability.

Under the guiding principle of “Dredging 4.0”, we implement innovative systems worldwide for process automation, improved productivity and autonomous GPS-controlled dredgers, both for new installations and for the refurbishment of existing suction dredgers.

BUILT ON MORE THAN 120 YEARS OF EXPERIENCE

Gravel and Sand Extraction as the Foundation

“Hülskens” from Wesel has been a leader for generations for gravel and sand extraction on the Rhine, Elbe and Meuse rivers, as well as for the development of modern wet dredging technology.

Since 1905, the company has evolved into a strong industrial service partner, combining engineering, design, manufacturing expertise and technical development under one roof. A modern electrical engineering department with in-house control cabinet manufacturing and PLC programming, together with steel construction and mechanical engineering divisions, form the technical backbone of the company.

World Dredgers benefits directly from this expertise: the close interaction between engineering and real-world operating experience creates powerful solutions for our customers.





Engineered by operators. Built for operators. As part of the Hülskens Group, we draw on extensive experience in wet dredging and the associated extraction equipment.

OUR SUCTION DREDGER

The Right Dredger for Your Application!



P3E New Design

- Custom-engineered to your specific requirements
- Versatile dredger for a wide range of applications
- Dredging depths of up to 100 m



ECO

- Custom-engineered to your specific requirements
- Compact, efficient and robust design
- Dredging depths of up to 20 m



Sedimover / MUDDY

- Ideal for re-dredging settling ponds, slurry disposal areas and slope trimming
- Compact, transportable and fully customizable to your application
- Dredging depths of up to 12 m

CUSTOM SOLUTIONS



HAP – Hülskens Work Pontoon

- Combines efficient transport and versatile working capabilities
- Equipped with a crane with a lifting capacity of up to 1 ton
- Stable catamaran design for safe and reliable operation



Machine & Pump Platform

- Custom-engineered to meet your application requirements
- Designed and manufactured to comply with all applicable standards and regulations
- Supplied complete with all required certifications and buoyancy/stability calculations

CUSTOM SOLUTIONS



Freshwater Pump Station

- Individually engineered to meet your operational requirements, with optional enclosure
- Designed for one or multiple pumps to ensure a reliable freshwater supply
- Available in customized sizes, including buoyancy and stability calculations



Booster Station

- Booster station with integrated electrical power and control system
- Pumps individually engineered and manufactured to meet your specific requirements
- Available in off-shore or on-shore configurations



Scan here for more
Information on YouTube.



DREDGING 4.0

The Intelligent Suction Dredger: Adaptive, Self-Learning Dredging Technology

Every sand quarry and every dredging site presents unique operating conditions. An AI-powered dredger automatically adapts to the material characteristics of each site, leveraging data collected from thousands of operating hours worldwide. The result is optimized performance for every application, delivering higher production rates while reducing operating costs. Artificial Intelligence is transforming the dredging industry and unlocking entirely new possibilities.

- **Near-unmanned operation**
- **Self-learning dredging system**
- **Lower cost per ton produced**

These technologies significantly reduce energy consumption, lower CO₂ emissions and improve asset reliability through predictive maintenance and downtime reduction. At the same time, wear and maintenance requirements are minimized, resulting in higher availability and lower lifecycle costs. This is where World Dredgers sets new standards. Dredging 4.0 represents intelligent process automation, maximum operational efficiency and autonomous dredging systems. A key innovation is **DAWD – Dredge Assist World Dredgers**, our proprietary autonomous control system. DAWD enables near-unmanned remote operation while allowing a single operator to centrally monitor and control multiple dredgers and extraction systems across different locations — with maximum precision, reliability and efficiency.

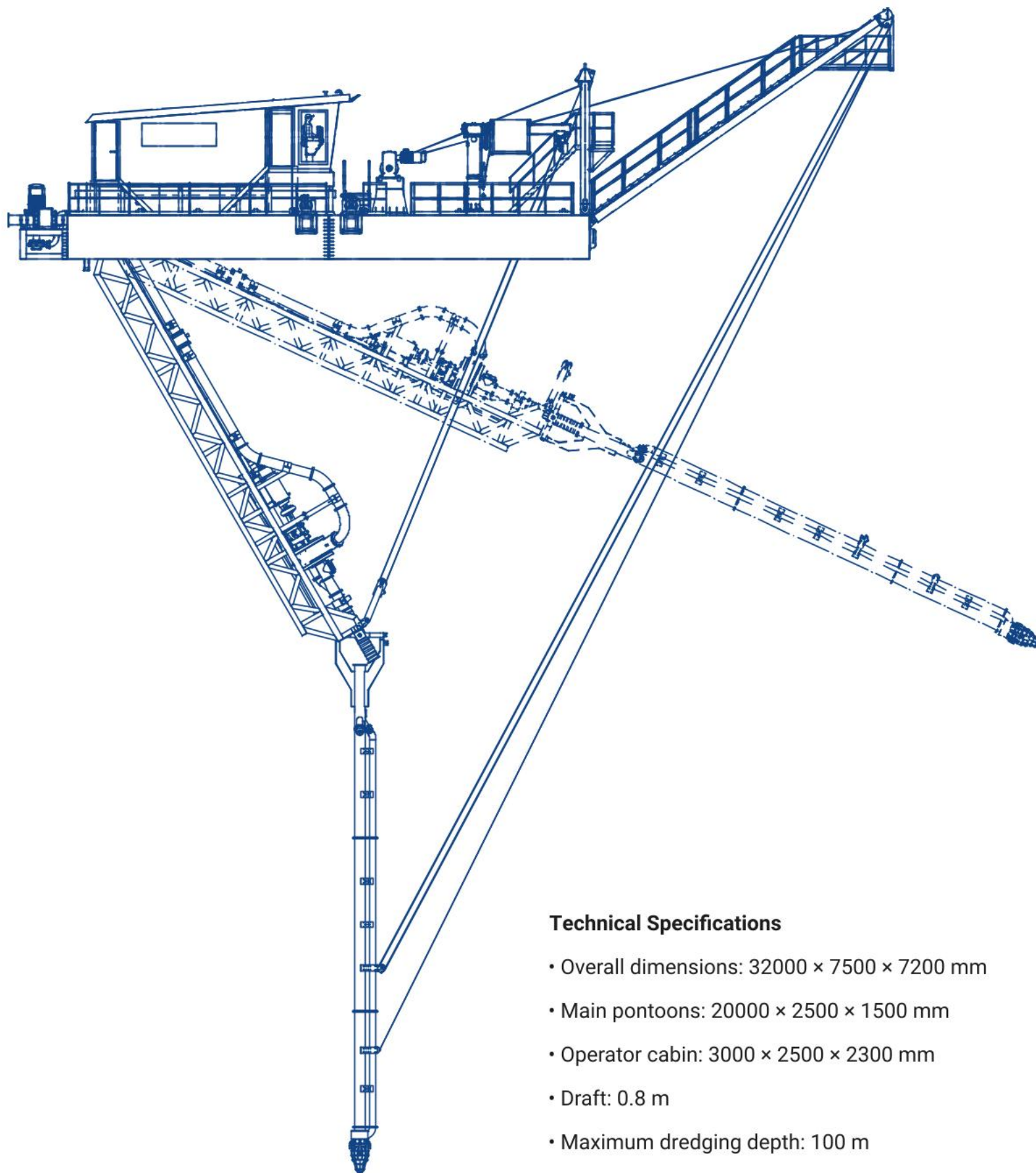
SUCTION DREDGER

P3E NEW

High-Performance Dredger for Mineral Extraction

The P3E NEW is a state-of-the-art suction dredger designed for efficient mineral extraction in sand and gravel operations. Engineered for outstanding performance, durability and operational reliability, it is ideally suited for medium to large-scale dredging projects as well as extensive quarry reclamation.

Equipped with advanced software, perfectly integrated components and the latest automation technology, the P3E NEW delivers maximum production efficiency from day one. Optional autonomous GPS-based navigation and AI-assisted dredging optimization further enhance operational efficiency, reduce costs and optimize production performance.



Technical Specifications

- Overall dimensions: 32000 × 7500 × 7200 mm
- Main pontoons: 20000 × 2500 × 1500 mm
- Operator cabin: 3000 × 2500 × 2300 mm
- Draft: 0.8 m
- Maximum dredging depth: 100 m
- Jet pump: Automated jet pump control



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The P3E Mining Dredger is a true multi-purpose dredger. Powerful, exceptionally robust and equipped with an high-efficiency drive system. Available with optional autonomous control for maximum efficiency and productivity.



SUCTION DREDGER

ECO

Compact Mining Dredger for small Sand & Gravel Operations

The ECO has been specifically developed for small sand and gravel quarries. Its catamaran design features two main pontoons, a comfortable operator cabin, an electrical control container and a centrally positioned pump well with a dry-installed dredge pump located at the waterline.

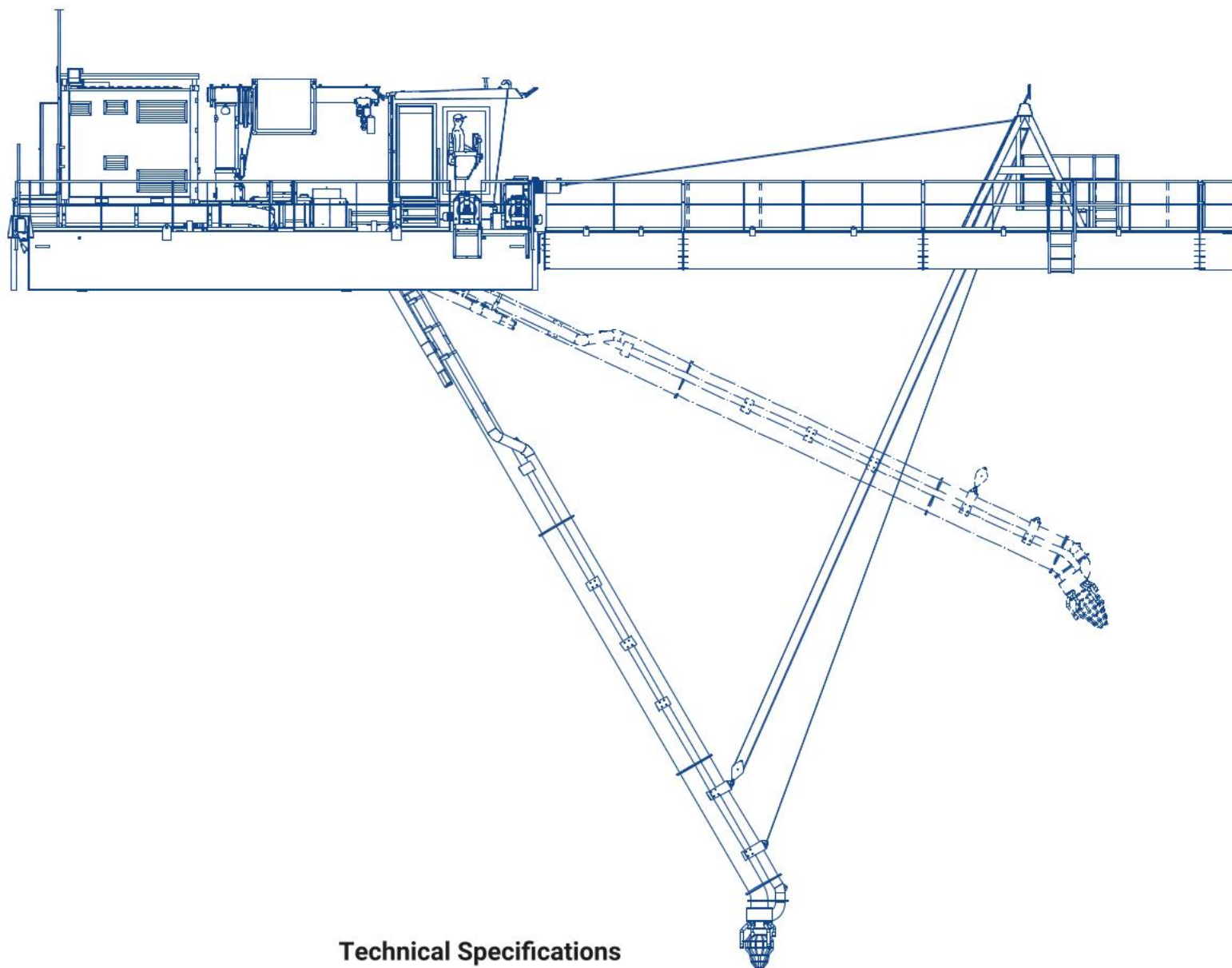
The ECO stands out for its simple, rugged design combined with premium components, ensuring outstanding reliability, low maintenance requirements and a long service life.

All installed motors comply with the IE4 Super Premium Efficiency standard, making a significant contribution to the system's outstanding energy efficiency and cost-effectiveness. Compared with many dredgers currently available on the market, the ECO can reduce annual energy costs by up to €10,000 per year.

The fully automated control system has been designed future-ready and is upgradeable to support autonomous operation. Its clean, robust and durable design ensures reliable performance, even under demanding operating conditions.

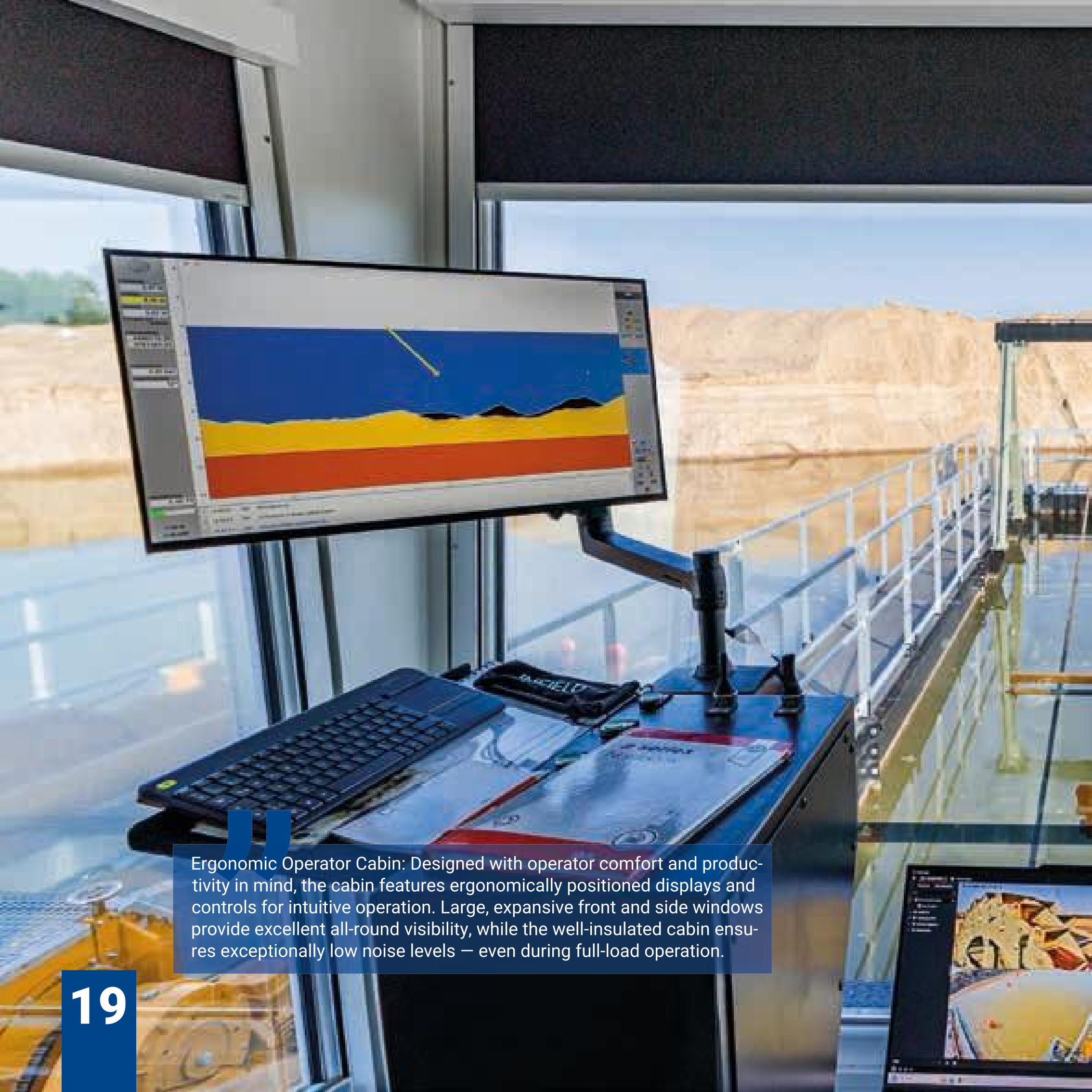
Thanks to standardized production processes and complete in-house manufacturing, assembly and commissioning can be completed within just a few

working days.



Technical Specifications

- Model: ECO 350
- Overall length: approx. 27000 mm
- Overall width: 6600 mm (excluding attachments)
- Production capacity: 60–450 t/h
- Dredge pump power (above water): 350 kW
- Jet pump: Automated jet pump control
- Maximum dredging depth: up to 20 m



Ergonomic Operator Cabin: Designed with operator comfort and productivity in mind, the cabin features ergonomically positioned displays and controls for intuitive operation. Large, expansive front and side windows provide excellent all-round visibility, while the well-insulated cabin ensures exceptionally low noise levels — even during full-load operation.



SUCTION DREDGER

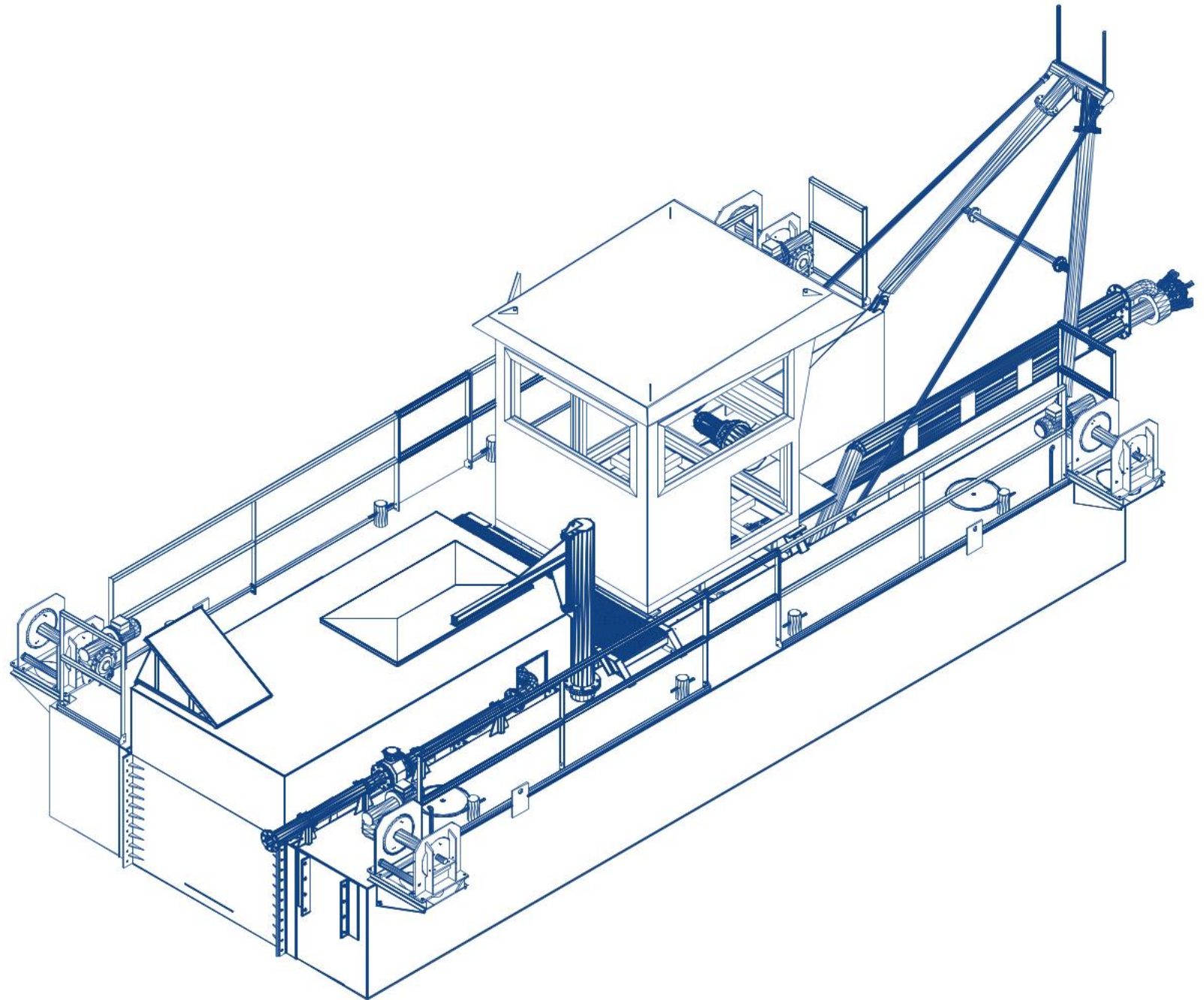
MUDDY

Compact. Agile. Powerful!

Not every dredging operation requires an large-scale dredger. In confined areas, narrow waterways and applications demanding maximum precision, maneuverability is the key to success. With the MUDDY Mining Dredger, World Dredgers offers a compact and highly versatile dredging solution for a wide range of mineral extraction and sediment management applications. Despite its compact dimensions, MUDDY delivers impressive performance with dredging depths of up to 12 meters and production capacities of up to 120 tons of solids per hour.

Its compact catamaran design makes it the ideal choice for operations in restricted or hard-to-access areas where larger dredgers reach their limits. Typical applications include slope re-dredging, fine sand pond management, sediment relocation and precision dredging in confined spaces.

Combining exceptional flexibility with efficient pumping technology, MUDDY provides an economical solution for smaller projects, specialized applications and maintenance dredging. To maximize operational flexibility, MUDDY is also available as a rental dredger, making it the ideal solution for temporary projects and short-term assignments.



Technical Specifications

- Overall length (including suction pipe): 15500 mm
- Pontoon length: 10000 mm
- Overall width: 5450 mm
- Overall height: 4000 mm
- Draft: 0.8 m
- Maximum dredging depth: up to 12 m



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Designed for small-scale operations and demanding working conditions, MUDDY is the ideal solution for confined areas, deployment flexibility and the removal of sediment from lakes, ponds and reservoirs. Its compact design, high manoeuvrability and efficient performance make it the perfect choice wherever larger dredgers are not practical or economical.



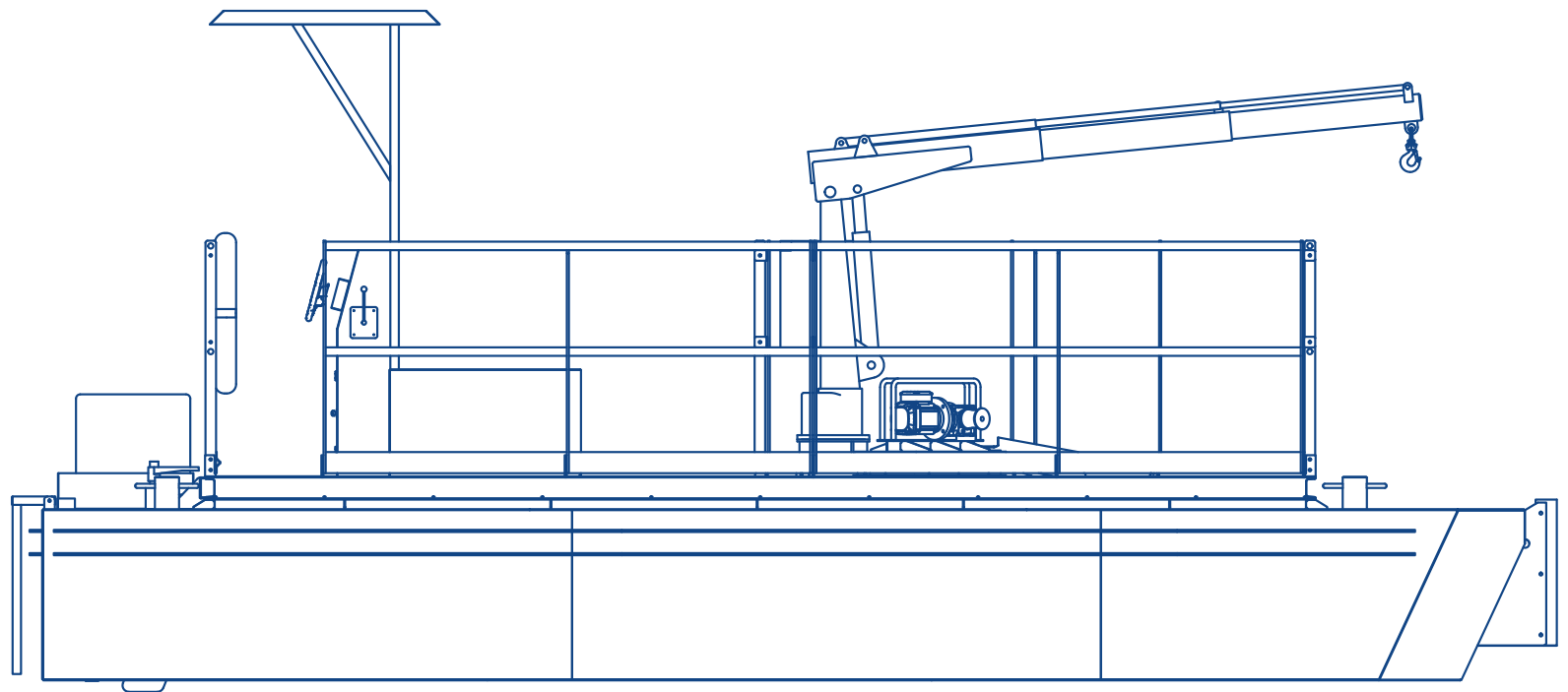
HAP – HÜLSKENS WORK PONTOON

The Cost-Effective Alternative to a Conventional Workboat

The newly engineered HAP – Hülskens Work Pontoon is a versatile and high-performance floating work platform that combines the functionality of a utility workboat with the advantages of a transport and service pontoon. Designed for safe and efficient operations, the HAP enables the transport of personnel, equipment and materials while providing a stable platform for a wide range of tasks on the water.

A key feature is its catamaran design with a centrally mounted crane capable of lifting loads of up to 1 tonne. This configuration allows work to be carried out directly between the pontoons, making it ideal for the installation and maintenance of pipelines, cables and other underwater infrastructure. Unlike conventional workboats, loads do not have to be lifted over the gunwale, resulting in easier load handling, improved efficiency and enhanced operational safety.

Its spacious deck, outstanding stability and exceptional versatility make the HAP a cost-effective solution for professional operations on inland waterways, lakes and mineral extraction sites.



Technical Specifications

- Overall length: 7200 mm
- Overall width: 3600 mm
- Overall height: 3160 mm (including operator console)
- Weight: approx. 6 t (depending on configuration)
- Crane capacity: 1 t
- Propulsion power: 11 kW (15 hp)

MACHINE- AND WORKPLATFORM

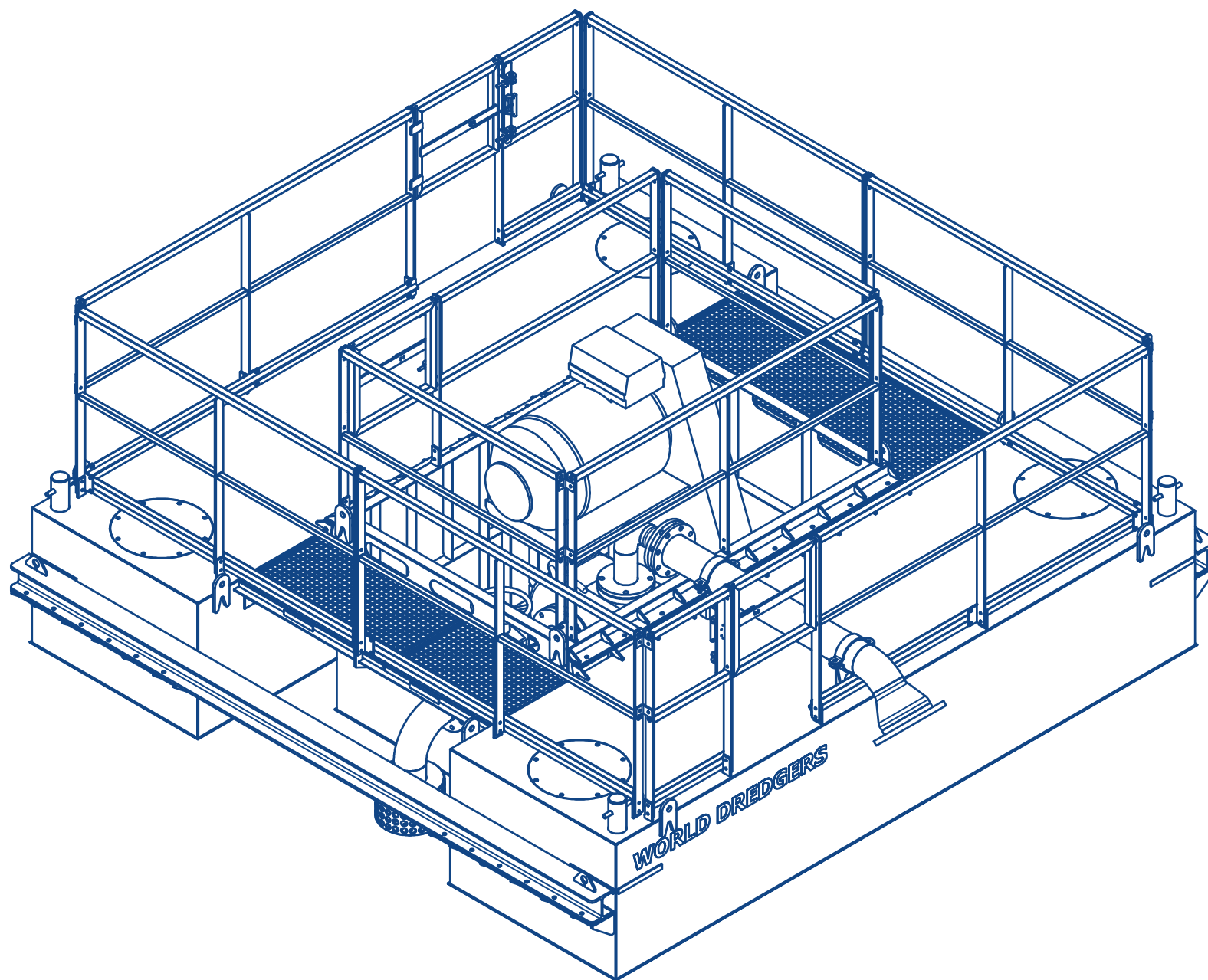
Stable. Flexible. Custom-Engineered.

We design and manufacture custom-engineered floating platforms tailored to your specific application requirements. Whether for freshwater supply, sand processing or as an intermediate booster station, our platforms provide a reliable and efficient solution for a wide range of applications.

To ensure seamless integration of your pumping system, we also supply complete pressure hose systems, fully integrated into the overall process control system.

Engineered for reliability, robust construction and a practical design ensure outstanding buoyancy, stability and safe, reliable operation — even under demanding working conditions.

Platform dimensions, payload capacity and the configuration of pumps, machinery and material handling equipment are customized to your operational requirements.



Technical Specifications

- Overall length: 4328 mm
- Overall width: 4052 mm
- Overall height: 2165 mm (including guardrails)
- Pump size: from 6/4 and larger

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We design and manufacture custom-engineered floating support pontoons for your conveying and pumping systems. Complete with pressure hose systems and fully integrated into your process control architecture. Designed for your application, robust and reliable — engineered to meet your specific operational requirements.





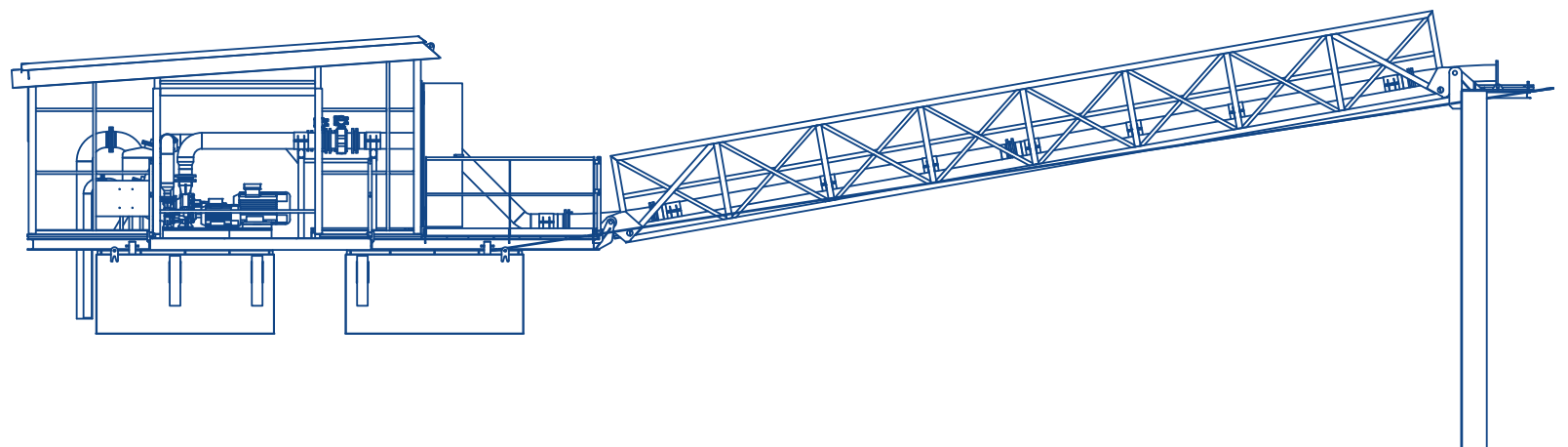
FRESHWATER PUMP STATION

Custom-Engineered to Your Requirements

Our Freshwater Pump Stations are individually designed and manufactured to match your operational requirements—whether for a single pump or multiple pumping units.

We provide complete pump sizing and engineering, including all necessary technical calculations to ensure optimum performance and efficiency. Each station is custom-built to the required dimensions and can be equipped with an optional enclosure for enhanced protection and operational reliability.

For safe and dependable operation, every floating pump station is supplied with comprehensive buoyancy and stability calculations.



Technical Specifications

- Overall length: 8300 mm
- Overall width: 5250 mm
- Overall height: 4300 mm (to top of roof)
- Pump configuration: Designed for up to 3 pumps





Our Freshwater Pump Stations are custom-engineered and manufactured entirely to your specifications. Every pump station is a unique, custom-engineered solution, individually built by our skilled team in our own production facility to meet your exact operational requirements.

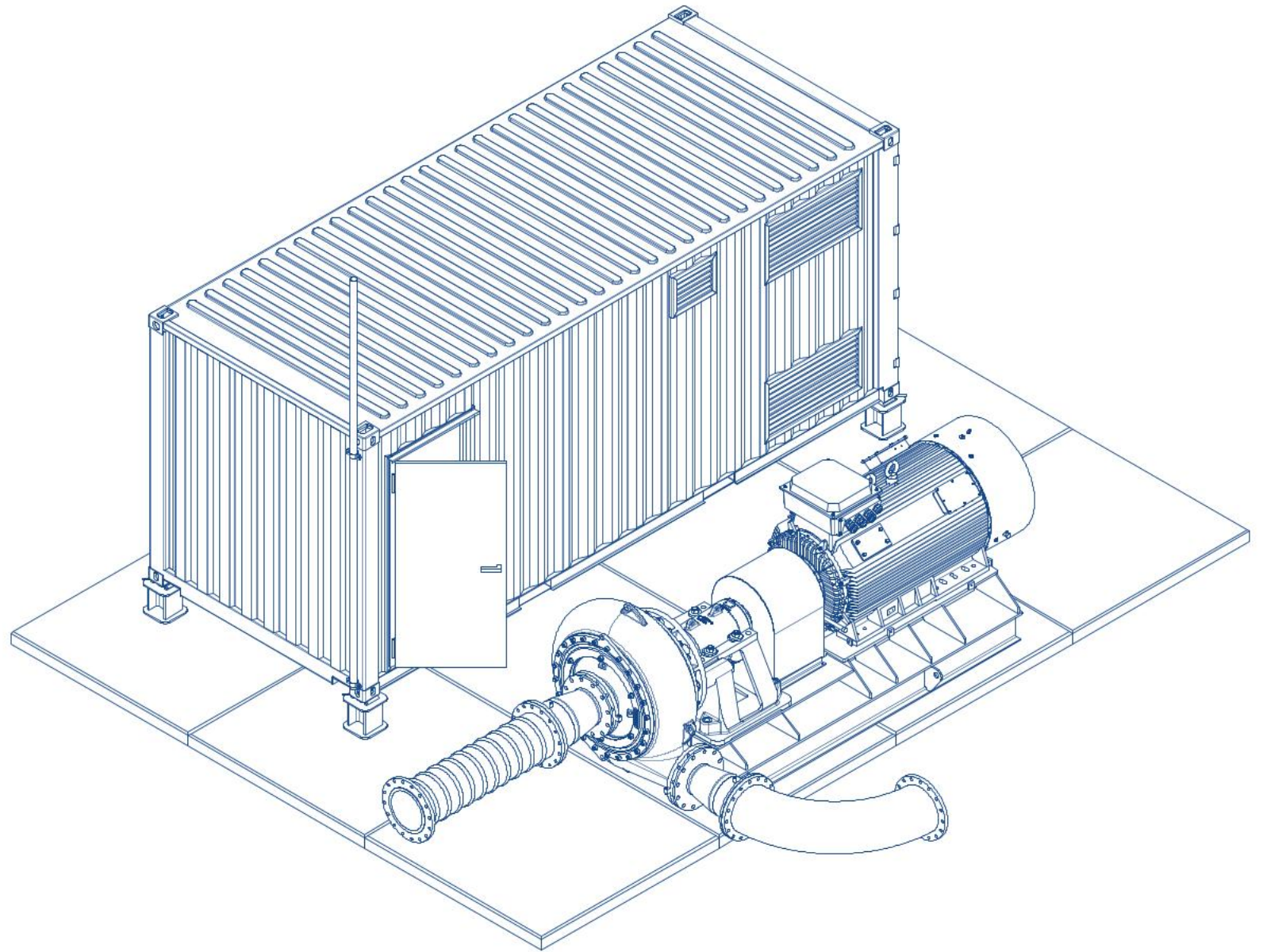
BOOSTER STATION

Floating or Land-Based Solutions

For efficient material transport over longer distances, intermediate pumping stations — known as booster stations — are often essential. At World Dredgers, we provide complete booster solutions as part of an integrated material handling system, always considering the entire process — from extraction in the quarry lake to the final discharge point.

Each Booster Station is individually engineered to your operational requirements and seamlessly integrated into the overall process control system.

Where multiple pumping units are installed, we standardize key components wherever possible. This reduces maintenance costs, simplifies spare parts management and minimizes downtime, ensuring fast service and maximum operational availability.



Technical Specifications

- Overall length: 7970 mm
- Overall width: 5990 mm
- Overall height: 3030 mm
- Weight: 30 t
- Booster pump power: 300–500 kW



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We seamlessly integrate pumps and booster stations into your overall process control system — whether installed on board a dredger, on floating pontoons or as land-based units. This ensures maximum efficiency, reliable operation and perfectly coordinated system performance.



FAST, RELIABLE, WORLDWIDE!

On-Site Service – Wherever You Are

Our experienced service technicians operate 20 fully equipped service vehicles, providing fast and reliable on-site support at quarries, dredging sites and processing plants around the world. Whenever required, our field service is complemented by remote support for diagnostics, troubleshooting and maintenance assistance. Our comprehensive spare parts service, featuring more than 2,500 stock items from leading manufacturers, ensures rapid availability and minimizes downtime—keeping your operation running efficiently.

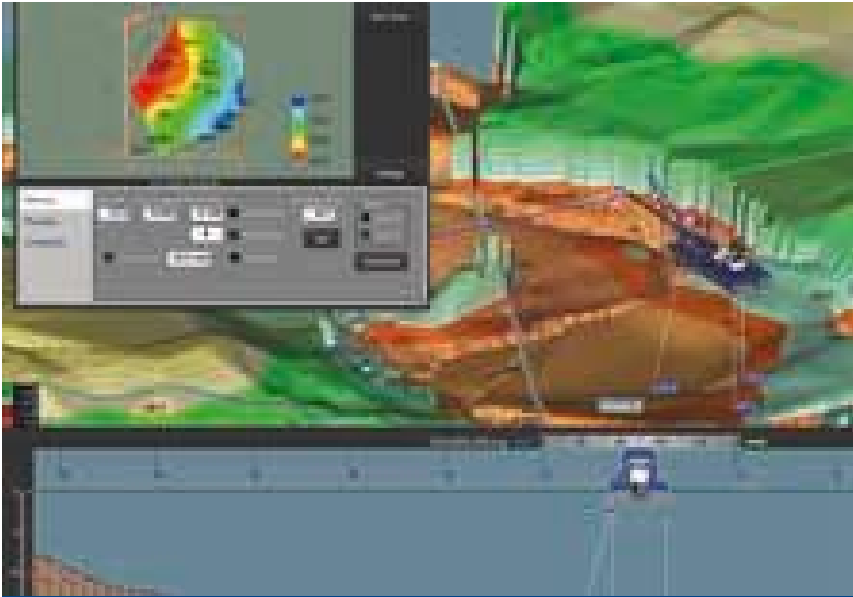




DESIGNED BY EXPERTS.

PROVEN IN THE FIELD!







From Experience. Engineered for Performance.

With HÜLSKENS Industrial Services, we offer a comprehensive range of engineering, manufacturing and maintenance services across a 23,000 m² facility. Our integrated capabilities — including steel fabrication, engine overhaul, mechanical workshops, machining, electrical engineering, CAD design and engineering—work seamlessly together to deliver complete, turnkey solutions.

In addition to extensive production space for custom-built equipment, repairs and refurbishment, our facility features a private harbour with direct access to the River Rhine, enabling the efficient handling, assembly and servicing of boats, vessels and floating equipment.







“For the daily demands of repairs, maintenance and the manufacture of custom spare parts, we maintain a comprehensive inventory of profiles, plates, pipes and high-grade steels in a wide range of material grades. Whether manufacturing pins, shafts, precision-machined components or steel fabrications, our in-house workshops ensure fast turnaround times and consistently high quality. Our adjacent central warehouse stocks more than 2,500 spare parts and components — from standard fasteners to state-of-the-art booster pumps — ensuring rapid availability for both routine maintenance and complex repair projects.

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Our Electrical Engineering Department designs and manufactures custom electrical systems, control panels and electronic components tailored to your specific requirements. We also provide specialized programming for automation systems, PLC controls, sensors and monitoring equipment, ensuring seamless integration, reliable operation and maximum system performance.









MANY SPECIALISTS, ONE TEAM!

More Than 75 Experts. One Shared Commitment.

More than 75 dedicated professionals contribute their expertise, experience and passion to every project. Our greatest strength is our people.

Together, our multidisciplinary team combines expertise in engineering, mechanical engineering, steel fabrication, engine technology, electrical engineering, automation, process control, field service, installation, procurement, spare parts management, project management and buoyancy & stability engineering.

This broad range of specialist knowledge enables us to approach every challenge from multiple perspectives and develop tailored, high-performance solutions.

Benefit from the strength of one integrated team.

Everything from a Single Source.

FACTS AND FIGURES

AT A GLANCE:

EUROPE, ASIA, NORTH AFRICA



**INNOVATIVE
SOLUTIONS FOR
INTERNATIONAL
PROJECTS**

Key Facts:

25

years of practical experience in the design and construction of mining dredgers

75

experts dedicated to engineering, manufacturing, service and maintenance at World Dredgers, part of the Hülskens Group

120

years of manufacturing and industrial service expertise

Our Services:

- Cost-benefit analysis
- Feasibility studies and budgeting
- Project planning
- Engineering
- 3D design
- Assembly and commissioning
- Refits and modernization
- Dismantling and relocation
- Automation, process control and programming
- Maintenance and refurbishment
- On-site service and installation
- Spare parts management and supply

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ANY QUESTIONS?

Project Questionnaire:

To provide you with the most suitable solution for your application, we kindly ask you to complete the following technical questionnaire. Your information will help us evaluate your requirements and develop a custom-engineered solution that perfectly matches your operational needs.



1. Excavation depth (from water surface)		m
2.Required production output:		T/h
3. Delivery head		m
(height from water surface to discharge pipe outlet)		
4. Length of discharge pipeline		m
5. Average grain size d_{50}		mm
6. Gain size distribution:		
Sand (0-2) [%]:	%	Gravel (0-32) [%]: %
Stone (32-x) [%]:	%	

Contact:



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