

BUILD TO ORDER

**Huisman**  
Czech Republic

# YOUR PARTNER IN CONTRACT MANUFACTURING



[www.huisman-cz.com](http://www.huisman-cz.com)

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# HUISMAN

## YOUR PARTNER IN CONTRACT MANUFACTURING

**If you need a reliable and flexible partner to help you to produce complex or heavy equipment, a prototype or small series we can be of service.**

### **WE ARE AT OUR BEST WHEN:**

- The equipment consists of a combination of steelworks with either hydraulic and/or electrical systems;
- Fabricated in high tensile strength steel up to S960-grade;
- The (highest) certification and classification is needed;
- It involves exceptional tooling, for instance 3D cutting, 3D welding, and machining.

We build components, such as tensioners, adjusters, traction and storage winches, manipulators, a variety of lifting tools and other critical components such as large hydraulic cylinders and load cells. We can deliver these products and components

completely assembled, commissioned and tested, but we are also happy to help when you are just looking for a single component fitting your needs.

### **WE HAVE:**

- a cutting shop with robotic plasma cutting technology
- a fabrication shop where manual and (semi)-automatic welding is performed
- a machining shop where parts up to 70 mt, up to 18 m length and up to 5 m height can be processed.
- a state-of-the-art shot blasting hall
- a paint shop
- a load cell shop
- a 15 m high assembly hall
- The excellent testing facilities is the last in this row.

# Capabilities

**We are able to manage the entire supply chain and production process until turnkey delivery, no matter the final destination. We can transform your challenges into solutions, as we can build on highly experienced employees, strong technical capabilities, modern machines and large facilities. From single parts to integrated components to highly complex end-products we take pride in a wide variety of projects.**

Our core business is manufacturing but we do have the necessary engineering capacity at hand when engineering needs to be finished to start the production phase. Our manufacturing engineering translate your designs into fabrication shop drawings so that the production and assembly can be done efficiently and safe. Pro-activity is in our DNA so be assured that we communicate when we see room for improvement.



## PRODUCTION AND SERVICES OFFERINGS / CAPABILITIES

Total area	106,000m <sup>2</sup>
Production area	26,800m <sup>2</sup>
Maximum hoisting capacity	180mt
Inside storage capacity	3,800m <sup>2</sup>
Outside storage capacity	21,500m <sup>2</sup>
Yard cranes	2 x 33mt @ 13m 25mt @ 10m 125mt @ 9m
Office area	5,000m <sup>2</sup>

Our engineering and work preparation are working together to turn the engineering bill of material (eBOM) into effective manufacturing bill of material (mBOM) aiming for efficient fabrication sequences minimizing production lead times.

Do you wish to integrate your PLM into our ERP? We can provide for seamless integration, making our cooperation even more effective!

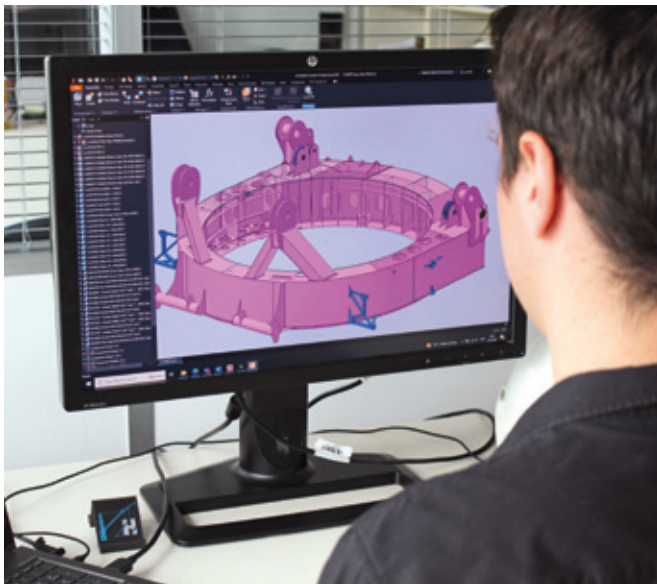
# Engineering

Our highly experienced multi-level engineering team can suggest and elaborate on the design based on the client's technical needs, covering the whole life cycle of the design as well as numerous disciplines. Mechanical, hydraulic, electrical, and control systems collaborate closely to keep a tight grip on all design stages.

Structural analysis, 3D modelling from concept to shop drawings and production support, from steel structure (main - load carrying, secondary - access and outfitting) to

designing power systems including alternatives of purchased sub-components, heavy duty hydraulic cylinder designs and manufacturing, hydraulic power units and complete hydraulic systems, communication networks and automation made to measure, incorporating latest market technologies.

- Fulfilling numerous standards codes based on design applications (Loyds, DNV, ABS, BV, EN, and so on).
- Documentation package delivery.
- Plans for lifting and transportation.
- Flexible in the field (offshore, on land).



Engineering personnel: 80 - 100

3D and 2D drawing execution (AutoDesk), structural calculations (Ansys, Workbench), hydraulic schematics (E-plan fluid 2.9), industrial programming (TIA Portal), HMI/SCADA (Citect, Atvise, WinCC), drive setup (Siemens, ABB) were all employed.

[CHECK OUR WEBSITE FOR ALL THE SPECIFICATIONS OF OUR ENGINEERING SERVICES](#)

# Cutting, Sawing and Drilling

Precision cutting, both in 2D and 3D, sawing and drilling with full material traceability.

We have a variety of cutting techniques both with plasma and oxyfuel technology. Our latest machine incorporates a 3D cutting head able to cut precise welding bevels eliminating the need of extra handling and manual operations.

In addition, we have a 3D cutting robot specifically for complex geometry cutting of profiles and pipes.

- Over 24m long cutting tables
- 3D plasma cutting portals for depths up to 70mm
- Oxyfuel cutting portals for depths up to 200mm
- Fully automated 3D weld bevel robot
- New shot blasting machine for clean parts prior fitting and welding

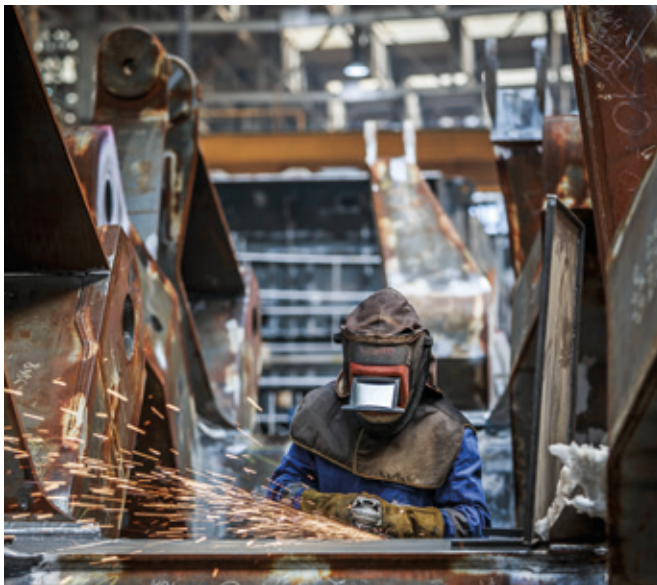


[CHECK OUR WEBSITE FOR ALL THE SPECIFICATIONS OF OUR CUTTING EQUIPMENT](#)

# Fitting and Welding

Meet customer needs and deliver turnkey equipment and components, we offer fitting and welding services for varying complexities.

The qualified plate fitter and welders have practical knowledge and extensive experience in the production of high-strength and wear-resistant steel structures. They work according to drawing documentation and international industry standards.



- Capable of welding WELDOX 700 and HARDOX 400
- Production capacity of 6000m<sup>2</sup>, including cranes with a maximum load capacity of 120 tons to process large structural units
- The processes are compliant with IWE, IWT, IWS
- Registration and traceability of the material is guaranteed for each processed item
- Certified QC and NDT personnel inspects the product quality
- According EN 287-1 / EN-ISO 9606-1 / AWS D1.1
- 3D printing technique (wire & arc additive manufacturing)
- All welding positions qualified



[CHECK OUR WEBSITE FOR ALL THE SPECIFICATIONS OF OUR WELDING EQUIPMENT](#)

# Machining

We have an impressive machining park with qualified engineers and skilled operators. We machine parts to the highest precision to cater for smooth assembly.

Dust free and temperature controlled area.

- CNC Milling - Skoda HCW 1
- CNC Milling - SHW UFZ 6L
- CNC Milling - WHN 13
- CNC Milling - WHN 110Q
- CNC Milling - WRD 150
- CNC Centre - RS 100
- CNC Centre - RS 100M
- CNC Lathe - CTX 520
- CNC Lathe - CTX 410
- CNC Lathe - SUA 125
- CNC Lathe - SUA 80
- Lathe Machine SU 50A



[CHECK OUR WEBSITE FOR ALL THE SPECIFICATIONS OF OUR MACHINING CENTRES](#)



# Surface treatment

From highly corrosive environment to aggressive chemical substances, we know how to protect your equipment.

We care about the long-term preservation of the materials we work on. Having our roots in the offshore industry no corrosive or chemical aggressive environment is too challenging for us.

- Floor area blasting: 150m<sup>2</sup>
- Height blasting chamber: 5,5m
- Floor area painting: 1300m<sup>2</sup>
- Height paint shop: 7m
- Max. lifting capacity: 40t



# Assembly

## MECHANICAL, HYDRAULICAL AND ELECTRICAL

Assembly is at the heart of our operations. To be able to manufacture turnkey heavy equipment and components, we offer assembly services according to the highest quality standards. A team of experienced mechanical fitters has highly reliable equipment at their disposal to make functional units from individual mechanical, hydraulic, and electrical components.

Because of the knowledge and skills of our employees, we exceed industry standards and shorten lead times to make a difference for our customers. Every step of the assembly process goes through a check of completeness and accuracy to ensure it meets the quality required.

- A hydraulic testing area
- Production, assembly, and testing of hydraulic cylinders, hoses, and pipes
- The availability of a full range of hydraulic torque tools and hydraulic tension tools
- Calibrating and certification of all tools
- Large assembly hall (surface area: 3200m<sup>2</sup>, height: 21m, lifting height: 15m) and crane capacity (120mT) to complete very large units
- Full traceability of individual system components
- A mechanical completion process with self-control quality
- High environmental cleanliness suitable for mounting hydraulic equipment and bearings
- A certified, highly skilled and experienced team, multi-disciplinary trained to work according to the highest industry standards



# Testing

## INSTALLATION AND COMMISSIONING

### Factory Acceptance Tests

Upon delivery, we execute Factory Acceptance Tests to ensure we deliver according to your specification and requirements. Our tests will demonstrate that the system design and manufacturing meets all standards and requirements.

Verifying, inspecting, and testing of our equipment is performed prior to transportation to greatly reduce start-up time once the equipment arrives at your required destination.

We invite our clients and independent authorities for final testing at our premises.

- Electrical calibrated test equipment
- Hydraulic calibrated test equipment
- Calibrated loadcells and loadlinks
- Dataloggers HMG 3010, HMG 3000, Comet
- ABB Frequency Drive Inverters, 2x 110kW/690V
- Siemens Inverter 110kW/480V
- Hydraulic power unit up to 350 bar/210 l/min
- Calibrated test weights up to 200t
- Load link up to 100t
- PLC Siemens portable test setup



# Serving many Markets

With our capabilities, we are able to serve many markets. We gained in-depth knowledge of the energy market, mainly the oil & gas, wind, tidal and geothermal sectors. We have performed many infrastructural & civil projects and we

are serving leading companies in the leisure industry. We manufacture equipment as contractor and sub-contractor of both OEMs and EPCs.



## PRODUCTS

- Mission equipment and handling tools
- Drilling equipment
- Cranes
- Offshore equipment
- Leisure and amusement park equipment
- Winches
- Load cells
- Chassis
- Landbased cranes





# Reference Projects

## BUILDING A TRACK RECORD IN CONTRACT MANUFACTURING

We are at our best in contract manufacturing of impressive units, mostly products/projects which consist of a combination of steelworks with either hydraulic and/or electrical systems, fabricated in high tensile strength steel up to S960-grade, to the highest certification standards and which involved exceptional tooling, for example for high tensile steel, 3D cutting and welding tools.





# Our production location

- 1** Main Entrance and Security
- 2** Parking and Safety Meeting point
- 3** Engineering and Management office
- 4** Machining Halls
- 5** Fitting and welding
- 6** Material Preparation
- 7** Assembly and Testing Hall
- 8** Blasting and Painting facility
- 9** Raw Material Storage
- 10** Warehouse
- 11** Demo Area





# Ensuring the safety and quality of processes and products

Security and customer satisfaction are our top priorities! Huisman is pleased with its unwavering commitment to product and process safety.

Our rigorous process safety measures ensure that every phase of our operations is created with your safety in mind. We leave no stone unturned in our efforts to protect our employees, communities, and the environment, from comprehensive hazard identification to rigorous risk assessments.

Quality and service are fundamental business values. Consequently, we are renowned for our technical input and innovative solutions, our timely delivery of equipment that satisfies the most stringent performance criteria, full equipment capacity on day one, and a high degree of operational dependability.

Lloyd's Register, DNV GL, ABS, NMD, and TÜV are among the authorities that certify that all Huisman products are designed and manufactured in accordance with international standards. Since 1995, Huisman, including all of its production locations, has been ISO 9001-certified. As of 2020, Huisman also possesses EN 15085-2 certification for the production of railway vehicles.

## OUR CERTIFICATION

ISO 9001:2015  
ISO 3834-2:2005  
ISO 45001:2018  
EN 1090 certificate  
EN 15085 certificate  
API Monogram Spec 4F  
API Monogram Spec 7K  
API Monogram Spec 8C

### EX Certification

ATEX  
IECEX

### EX Type Approvals

FTZU 14 ATEX 0170  
IECEX FTZU 16.0005  
FTZU 14 ATEX 0141X  
IECEX FTZU 15.0007X

### SIL Type Approvals

LMP SIL EC Type examination







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