



**JEBENS**  
MASSARBEIT IN STAHL

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PICTUREBOOK  
**WELDING**

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## **1** Made to measure

Page 4 – 9

As a seasoned supplier for precision applications like weight holders for mobile cranes with tolerances in the micron range on processed surfaces, accuracy is our middle name. The fact that all our welders are certified, and monitored by our two welding engineers, is our guarantee for high-precision steelwork. At the same time, we support our clients in the optimisation of welding designs.



## **2** Weight / Dimensions

Page 10 – 15

When it comes to complex, large-format welded components, we are a sought-after partner in the machinery and plant construction sectors. Handling unit weights of up to 160 tons is no problem for us. And we can achieve truly great things with component lengths of over 30 m – thanks to our XXL annealing furnace and our paintshop, which are designed to accommodate extremely large-format components.



### **3 One-stop supplier**

Page 16–19

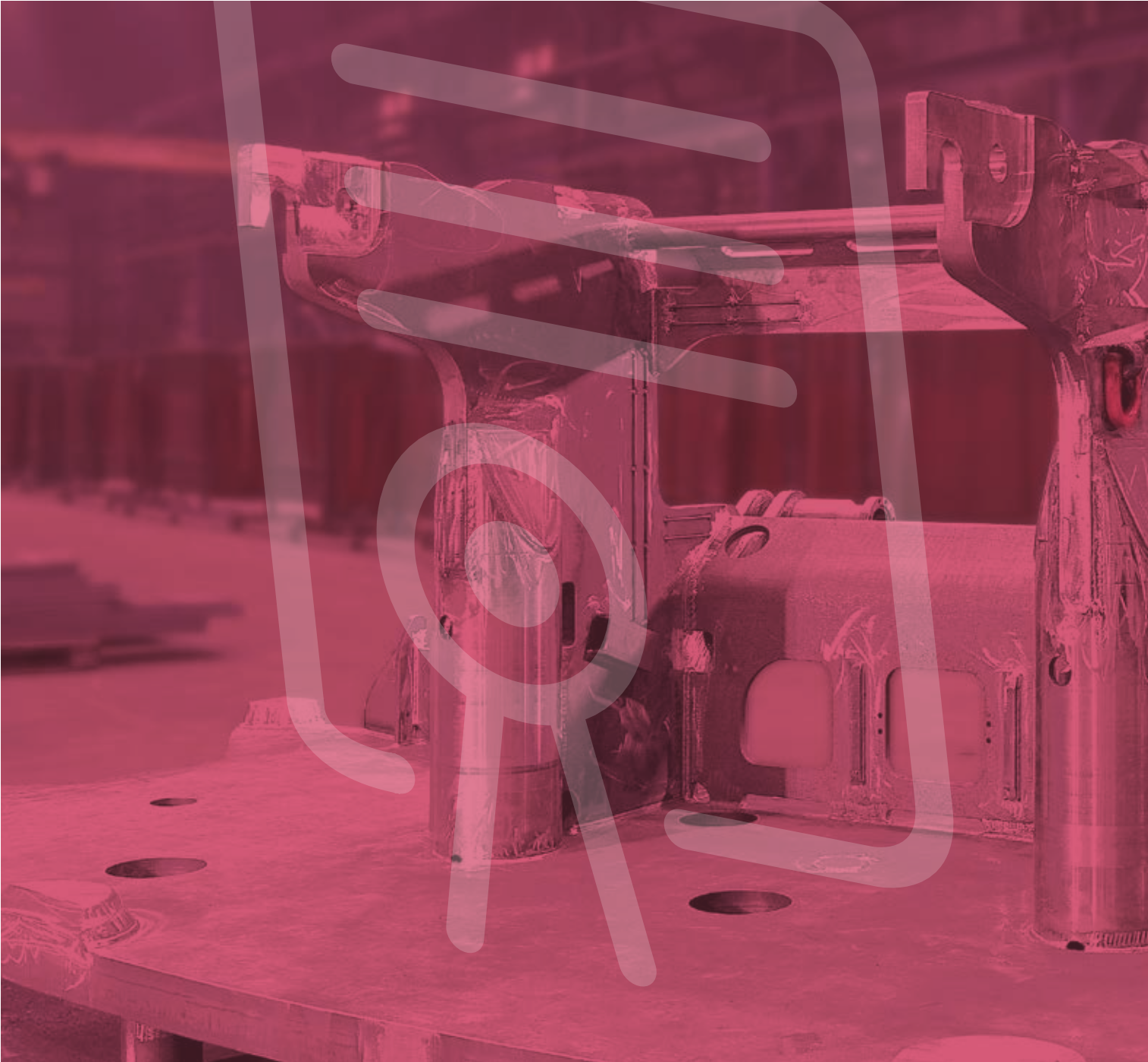
We manage the complete supply chain and provide comprehensive services. In this way, we help you to reduce both complexity and costs. From sourcing, through primary materials, to special transportation of the final product – with us you are in the best of hands. You can rely on our profound manufacturing expertise, and on our external partners for special tasks, to provide you with complete solutions.



### **4 Technology**

Page 20–23

Whatever welding is called for – manual, robotic or submerged arc – we love the challenge. We also weld high-tensile steels types like S690 or S960 as well as alloyed steels. And we do it with perfect supply chain management – regardless of whether the job is a small component with 3 tons finished weight or a complex, 120-ton component requiring 2,000 welding hours. Our technical competence is verified by our in-house inspection personnel for US, MT, PT and VT non-destructive testing.



1

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# MADE TO MEASURE



Ready-to-install welded components which meet the highest requirements for flatness, dimensional accuracy and mechanical processing are our speciality.

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1.1

Made to measure  
WELDING

**Application:** Support for crane ballast with a cable drum device  
**Steelgrade:** S355J2+N with notch impact strength values of min. 27 joules at -40°  
**Weight / Dimensions:** 12,6 and 17,7 to  
**Particularity:** Fitting tolerance of 0,05 mm, form and position tolerances of 0,1 mm



**Application:** Pressure plate for press plant (plastic, powder, elastomer)

**Steelgrade:** S355J2+N

**Weight / Dimensions:** 16,6 to / 2,590 x 2,580 x 2,190 mm

**Particularity:** Tolerances of the column guides and mechanical end processing

1.2

Made to measure  
WELDING



1.3

Made to measure  
WELDING

**Application:** Pylon for welding positioning and cutting machine for offshore wind turbines

**Steelgrade:** S235JR / S235JR G2

**Weight / Dimensions:** 15,6 to / 1,550 x 2,150 x 12,286 mm

**Particularity:** Flatness and dimensional accuracy of the overall construction, welds inside the component (confined space) and mechanical processing





**Application:** Tie rod for tube testing presses

**Steelgrade:** S355J2+N

**Weight / Dimensions:** 37,9 to / 200 x 955 x 27,130 mm

**Particularity:** Total length of 4 parts UP-welded, flatness on total length of 7 mm, form and position tolerances in the mechanical end processing, incl. laser measurement protocol

1.4

**Made to measure**  
WELDING



2

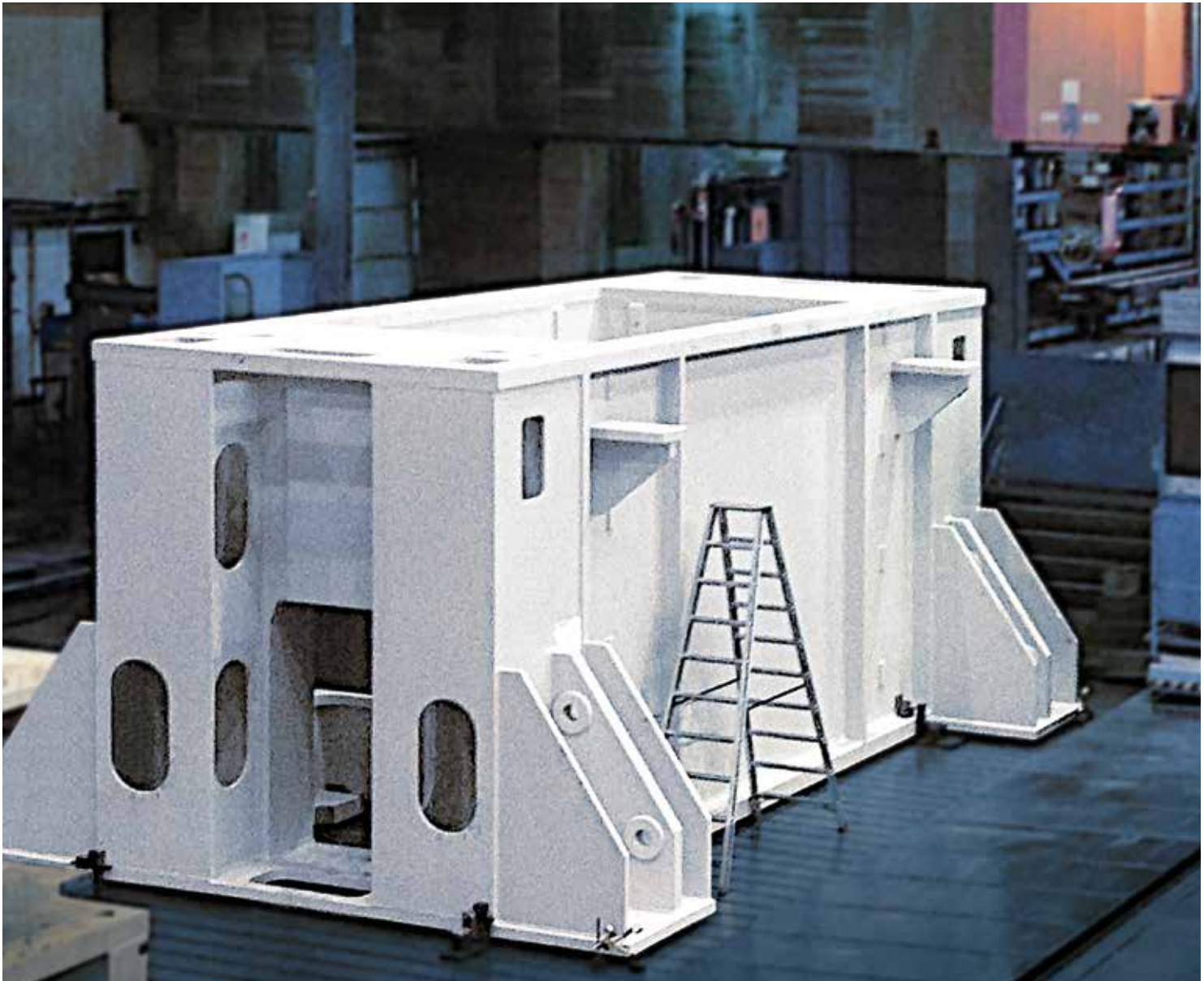
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# WEIGHT / DIMENSIONS



The real measure of greatness lies in attention to detail. In the production of ready-to-install welded components, there is only one measurement that limits us: a unit weight of 160 tons.

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2.1

Weight /  
Dimensions  
WELDING

**Application:** Lower crosshead part for press plant

**Steelgrade:** S235JR+N

**Weight / Dimensions:** 100,3 to / 3,345 x 4,500 x 7,750 mm

**Particularity:** Piece weight and dimensions, welding in confined spaces with large dimensions, handling of the component for welding, heat treatment, transport, mechanical end processing [supporting surface had to be ground completely flat]



**Application:** Welded press frame

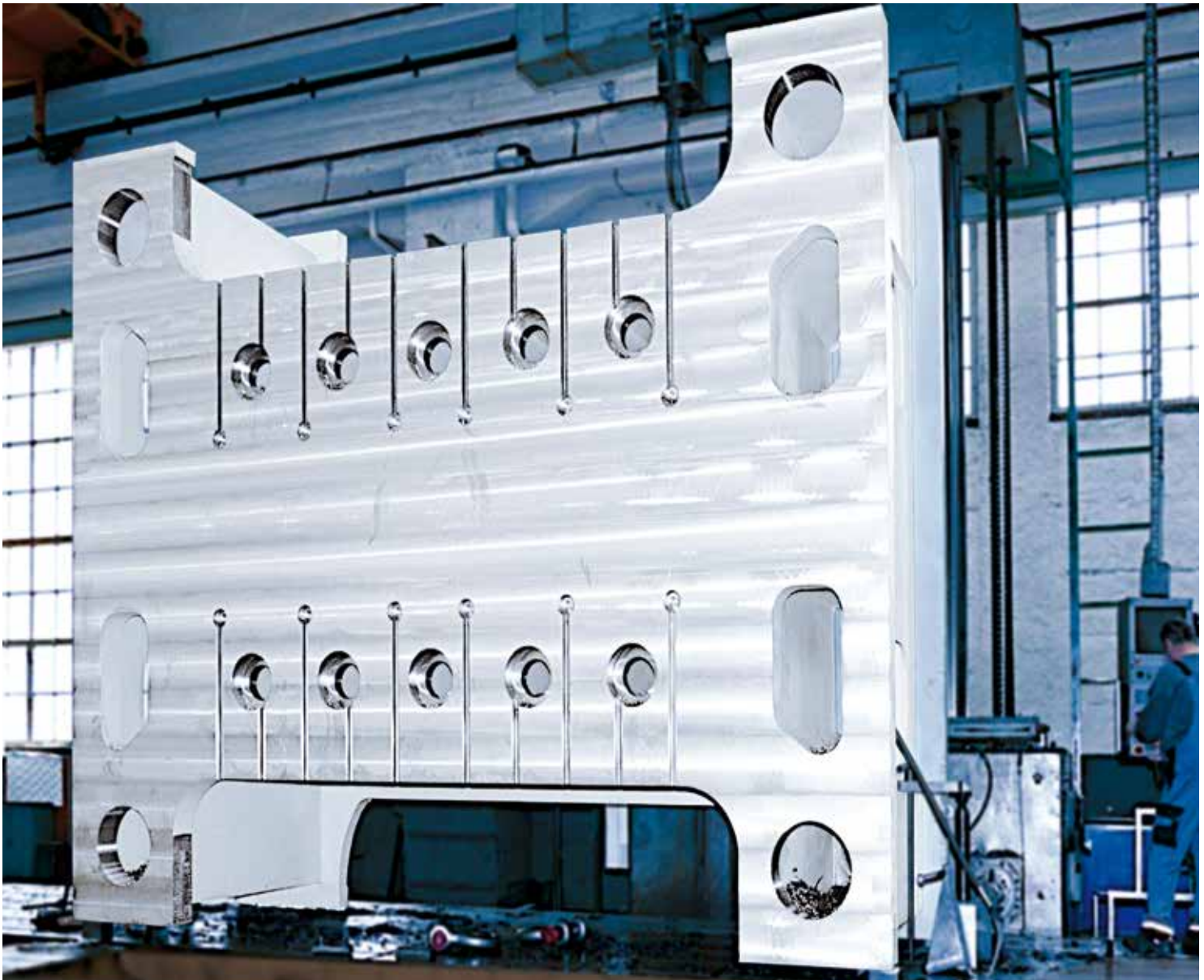
**Steelgrade:** S355J2+N

**Weight / Dimensions:** 48 to per piece / 150 x 4,780 x 14,450 mm  
23 to per piece / 120 x 3,600 x 11,060 mm

**Particularity:** Width / length, flatness 6 mm on total surface, stress-relieved annealing at a total length of 15,000 mm, welds had to be 100% tested

**2.2**

**Weight /  
Dimensions  
WELDING**



2.3

Weight /  
Dimensions  
WELDING

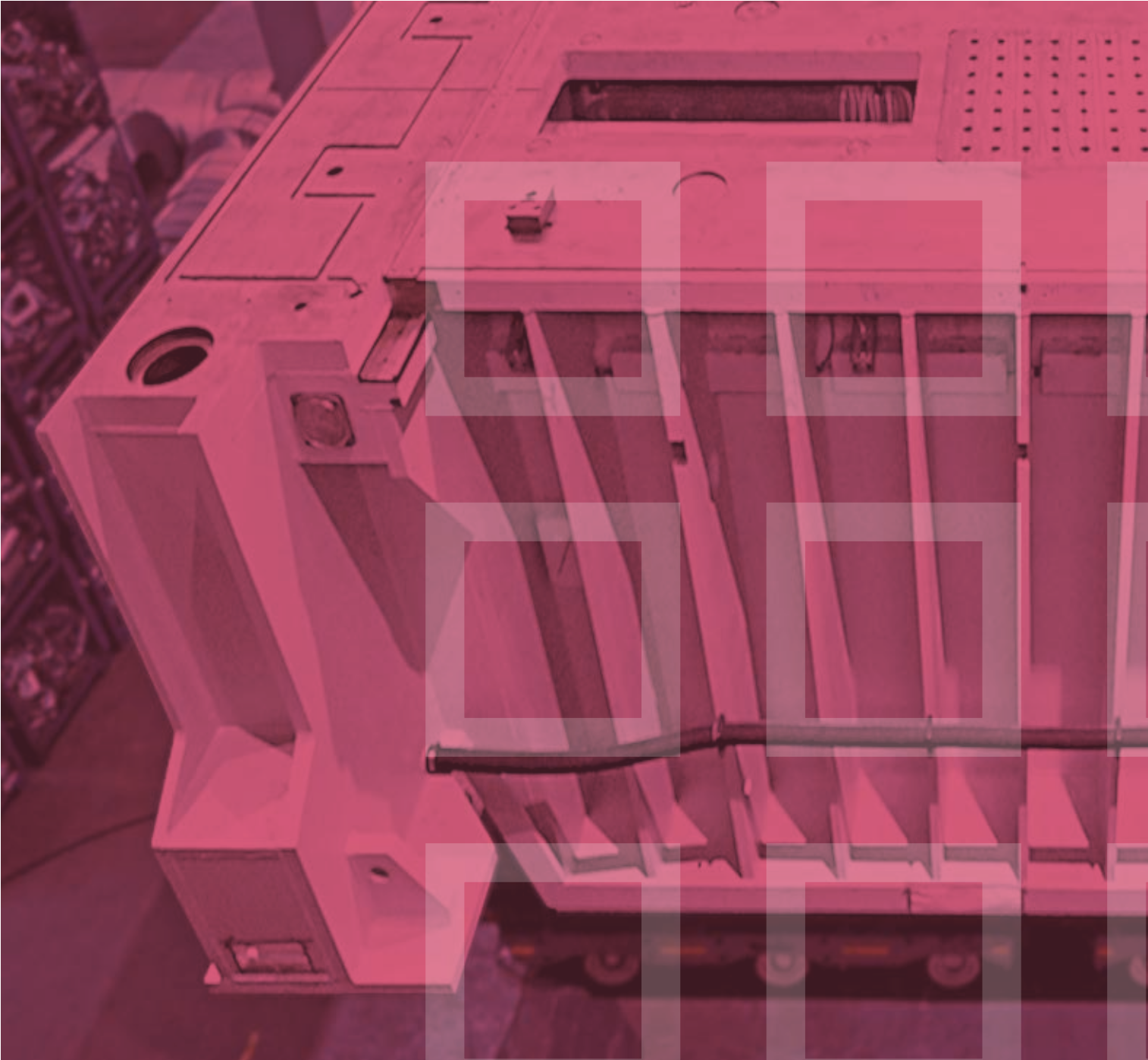
**Application:** Plunger for press plant in the automotive sector  
**Steelgrade:** S235JR+N  
**Weight / Dimensions:** 75,6 to / 1,860 x 4,130 x 5,100 mm  
**Particularity:** Mechanical end processing and transport



**Application:** Press frame  
**Steelgrade:** S235JR+N  
**Weight / Dimensions:** 44,2 to / 2,600 x 3,910 x 7,858 mm  
**Particularity:** Frame sheet UP-welded, flatness frame sheet and mechanical finishing

2.4

Weight /  
Dimensions  
WELDING

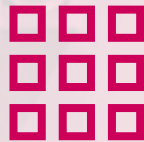




**3**

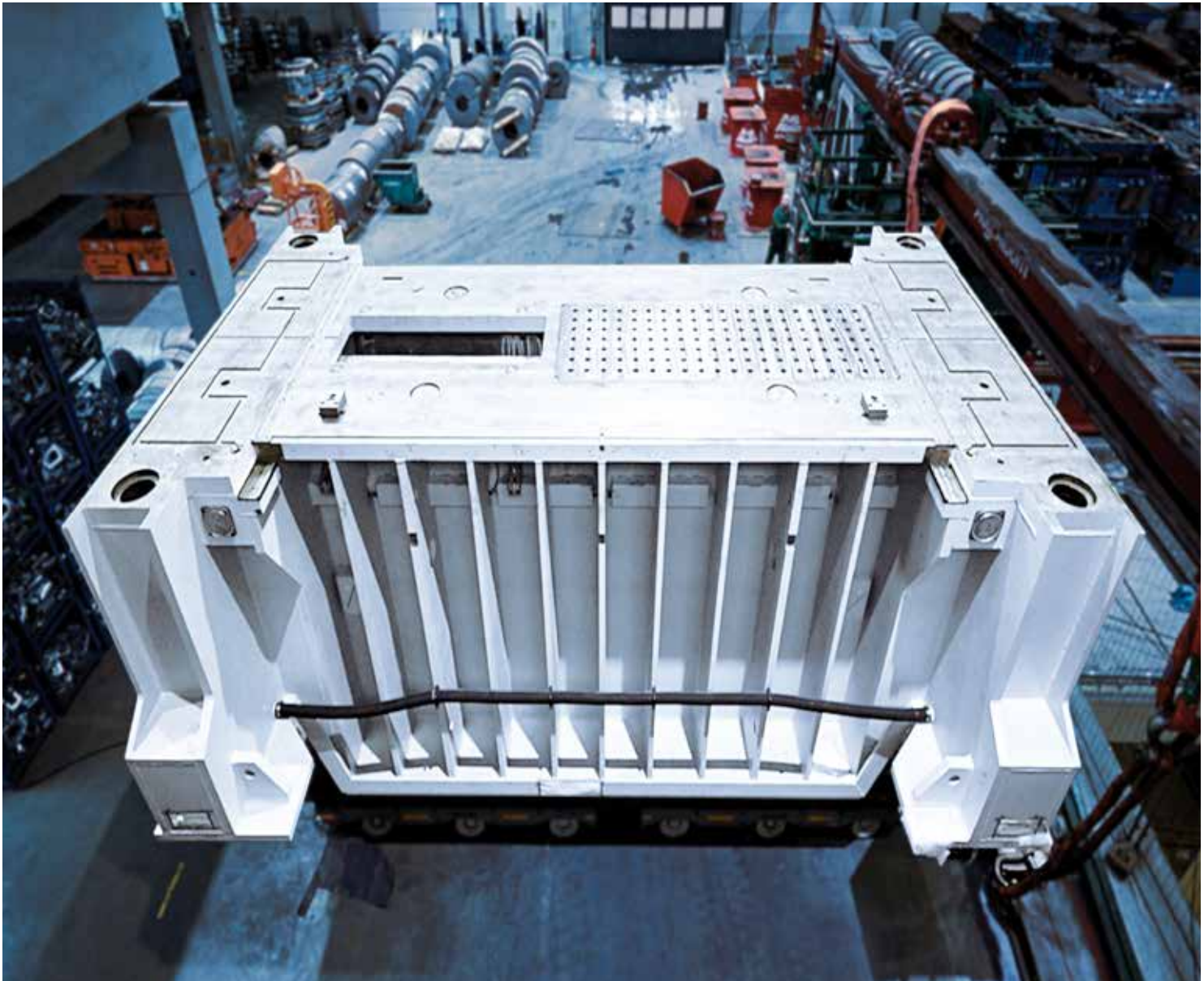
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# ONE-STOP SUPPLIER



Our sophisticated production management – with sourcing and processing of special parts as well as pre-installation of hydraulic, mechanical and electrical components prior to delivery directly to the construction site – make us a high-performance system supplier.

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3.1

One-stop supplier  
WELDING

**Application:** Press table

**Steelgrade:** S355J2+N

**Weight / Dimensions:** 156 to / 3,620 x 4,950 x 7,950 mm

**Particularity:** Delivery including mechanical processing as well as hydraulic, mechanical and electrical pre-installation directly on the construction site



**Application:** Aircraft tug frame

**Steelgrade:** S235 / S355

**Weight / Dimensions:** 33,5 to / 1,615 x 2,960 x 9,320 mm

**Particularity:** Mechanically processed, blasted, mounted, primed, special requirements regarding the flatness

3.2

**One-stop supplier**  
WELDING



4

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# TECHNOLOGY



Whether we are dealing with high-strength materials, or temperature-controlled welding in extreme dimensions, or plating with corrosion-resistant nickel welding wire – consistent high quality is our trademark.

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4.1

Technology  
WELDING

**Application:** Slip-on arm

**Steelgrade:** S355J2+N / 42CrMo4-5

**Weight / Dimensions:** 20 to / 1,080 x 1,344 x 3,650 mm

**Particularity:** Burning in several planes, temperature-controlled welding with very large dimensions and long welding times



**Application:** Plated font

**Steelgrade:** S355J0

**Weight / Dimensions:** 21,5 to / 565 x 2,080 x 2,295mm

**Particularity:** Machining and cladding by welding with special high corrosion resistant welding wire (60% nickel content), flatness of 2mm on total surface

4.2

**Technology**  
WELDING

# JEBENS

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