

Precision steelwork

Jebens GmbH: flame-cut plates and welded components on a grand scale

The real measure of greatness lies in attention to detail. This is just as true for large, heavy flame-cut parts and blanks or ready-to-install welded components as it is anywhere else in life. Sophisticated demands in the heavy-duty machinery and plant construction sector call for first-class workmanship, utmost precision and – with an eye to the added value required in highly competitive markets – a maximum range of production competence all from a single source. The preconditions for optimal solutions are, therefore, profound cross-sector and cross-process know-how, customer-specific construction and state-of-the-art technical equipment. As a leading specialist for complicated, fully processed flame-cut plates and complex welded components, Jebens GmbH regularly sets new standards. Through high investment into latest technologies, this dynamic medium-sized enterprise is transforming itself into a fully-fledged systems provider. Consequently, the well-established company, headquartered in Korntal-Münchingen near Stuttgart and with a second plant in Nördlingen, is focused on tuning its service portfolio to meet increasing customer demands and to anticipate the requirements of the market in years to come.

With its competence in different areas of expertise for products with thicknesses ranging from 8 to 1,100 mm, widths up to 8,000 mm and lengths up to 20,000 mm, the name Jebens stands for precision steelwork. The company's ability to handle unit weights of up to 160 tons makes it the definitive specialist for genuine heavyweights. This sought-after solutions provider for the heavy-duty mechanical

engineering, mobile crane and mining machinery sectors offers all stages of production from a single source: distribution, flame cutting, welding, milling, thermal treatment, and painting. Over 70 years of experience in heavy steel plate processing and an end-to-end supply chain right through to finished welded components are the company's guarantee for consistently high, reproducible quality. Well-established international partners and its membership in the Group Dillinger Hütte / GTS make Jebens the partner of choice for demanding customers who appreciate the value of long-term collaboration and reliable, reproducible quality. Being a subsidiary of Europe's leading heavy plate producer gives Jebens permanent access to ground-breaking technological know-how in steel production. At the same time, the parent company is a stable supply base for heavy steel plates in widths up to 5,000 mm and very large unit weights. Jebens combines these strengths with great innovative drive and market-oriented flexibility. 65,000 tons of steel processed per year indicate the trust that customers from a wide range of sectors place in the solutions provided by this specialist company.

Added value through complexity

Whether in project orders or short runs, vertical integration, quality and economic added value for customers are all clear evidence of the company's integrated competence. Day in, day out, Jebens keeps things moving on a grand scale. This starts with the optimised storage of 25,000 tons of hot-rolled heavy plates and slabs up to 4,000 mm wide and 15,000 mm long – in standard and special materials. State-of-the-art systems like welding and chamfering robots, deburring machines and equipment for mechanical processing make it possible to prepare the edges of made-to-measure flame-cut plates for subsequent welding, no matter how intricate their geometries are. The large format of these plates makes for particularly efficient assembly of components consisting of very few individual parts and therefore requiring less

welding. A wide range of further processing options for these large, heavy components qualifies Jebens as a one-stop provider. The service portfolio ranges from support in questions of construction, through cutting, chamfering of highly complex geometries, drilling, milling, annealing and normalising of complete components to sandblasting and varnishing. As a specialist for demanding tasks, Jebens manufactures complete, ready-to-install welded components using its own or purchased parts. The company is driven by its passion for new solutions to regular innovative achievements. These include the hardfacing of steel plates to increase corrosion resistance, or the production and day-definite delivery of complete, pre-commissioned components with integrated cast parts. With highly complex welded components like these, Jebens makes a significant contribution to added value for its customers. Through successive outsourcing of whole processes they can reduce their procurement costs while enjoying the benefits of improved reliability of supply, adherence to delivery dates, and cost effectiveness. This also makes Jebens exactly the right address for special solutions where complexity, precision and cost-efficiency through speed of processing are crucial to maintaining a competitive edge. One example of this is the provision of contract annealing in one of Southern Germany's largest annealing furnaces. 13.5 metres long, 5.8 metres wide and 3.8 metres high, it gives exactly the required properties to cast iron and steel components with unit weights of up to 160 tons.

Premium standard as the driver for innovation

But Jebens goes one step further in pursuit of higher standards by providing its customers with future-oriented options. It is one of very few companies to offer production options that meet increasing requirements for responsible sustainability of machines and equipment. For example, customers can choose between solvent-based and water-based paints in the company's new, state-of-the-art paint shop. This is

an option which, in view of the increasingly strict targets set for environmental compatibility and environmental commitment, is more and more in demand on the international market. Jebens also has an answer to the urgent issue in the construction and mining machinery sector of greater fuel economy and lower carbon footprints through weight reduction of vehicles. Multiple welding of high strength steels can reduce wall thicknesses, and thus help achieve lower fuel consumption and exhaust emissions.

This consistent market orientation of its production processes reflects the quality- and innovation-driven corporate vision at Jebens: precision steelwork. The aspiration to be one of the best is the driving force behind constant investment in key technologies and an excellently trained staff. For Jebens, achieving a perfect fit means seeing changes in demands for flame-cut plates and welded components as a challenge, developing forward-looking solutions, and tailoring parts precisely to individual customer requirements. The user comfort and increased operational reliability that result from this approach are the mainspring for the sustainable success of customers' products, and thus a guarantee for maximum customer satisfaction.

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