

# lebens

Steel plate stockholders  
Thermal cutting  
Components

**Know-how  
in steel**



# Steel stockholding & trading

35,000 tonnes of hot-rolled flat product in the standard commercial grades, dimensions and thicknesses – our permanently available stocks meet your needs.

In addition, our membership of the Dillinger Hütte group enables us to round off our potentials with special formats and grades in conformity with this well-known steel producer's demanding quality and dependability standards. Our suppliers also include other renowned and highly qualified producers from around the globe. Whether for immediate supply or for semi-finishing in our workshops, our optimised stockholding warehouse, operated on a flexible, multi-shift basis, combined with our high-precision logistics, permits rapid processing of our customers' orders and short delivery times.

## Our stockholding range

### Structural steels to EN 10025, Part 2

S235JR and S235JR+N

8 – 300

S355J2 and S355J2+N

8 – 650

### Non-alloyed creep-resistant steels to EN 10028, Part 2

P265GH / SA516

8 – 200

### Pressure-vessel steels to ASME standards

A516 Grade 60

55 – 200

### Alloyed quenched and tempered steels to EN 10083, Part 1

42CrMo4

20 – 210

### Non-alloyed quenched and tempered steels to EN 10083, Parts 1+2

C45 (+N)

10 – 200

### Alloyed case-hardening steels to EN 10084

16MnCr5

12 – 150

### Rolled unworked / semi-finished plate, Delivery State "U"

S235

50 – 320

S355

50 – 750

### High-tensile fine-grained structural steels to EN 10025, Part 6

S690

8 – 200

S965

15 – 100

In formats of up to 5,000 mm width and 15,000 mm length



## Quality strategy

Internal communications and coordination between departments, in-house training, continuous further qualification and know-how transfers with test and inspection institutes assure quality from goods reception through to delivery.

### Incoming-goods inspection

- Identity check (origin and material type)
- Geometrical, functional and materials-data inspections
- Ultrasonic inspection to SEL 072/77, EN 10160
- Crack and fracture tests
- Hardness and strength tests
- Dimensional checks
- Computer-based certificate documentation
- Electronic document archiving



# Thermal cutting & semi-finishing

Tell us your special requirements; at your request, we will semi-finish and/or treat all components in conformity with industry specifications. Various semi-finishing operations, and combinations of them, are possible, from thermal cutting of components up to and including supply of the finished product for high-accuracy applications.

The benefit for you: Everything you need is delivered directly to your production shops from a single source, saving you time and money. Simply ask us, we'll be pleased to provide detailed advice.

## Thermal cutting

- Cutting of rectangles, rounds, rings and free contours
- Cutting in multiple planes up to a thickness of 1,000 mm
- Drawing-based thermally cut components to diagram, 3D and assembly drawings
- Weld preparation: Straight bevels, contour-following bevels

## Semi-finishing

- Normalising or stress-relieving annealing in a shaft furnace up to 1,000° C
- Sand-blasting: Continuous system, manual blasting facilities, mobile blasting of any format
- Priming and painting to customer's specifications
- Machining: Planing, milling, turning, drilling
- Straightening to DIN specifications: Straightening press, flame straightening



## Quality Management

Our certification and Quality Management system in conformity with EN ISO 9001:2000 document our claim to top quality. Carefully defined operations in all sectors and departments assure outstanding results at all stages. Extra specialised inspection and tests can also be performed in addition to the standard range of mandatory checks performed before and after every operation.

### In-production tests and final acceptance inspections

- Works and acceptance inspection certificates
- TÜV-approved transfer of original batch identification to all components
- Acceptance inspections by all classification companies (GLP, TÜV, ABS, etc.)

# Components & services

Every item made to measure! At your request we can also produce system components and welded constructions and deliver them directly to your production shops – either semi-finished or completely ready for installation.

We are always pleased to provide detailed advice on our all-in services and show you how we supply high-quality components, saving you production time, processing operations and materials, thus cutting your costs significantly.

## Welded constructions

- Manufacturing qualification in conformity with DIN 18800, Part 7, Class E, extended to include S960
- Fabrication work in conformity with DIN 15018 and DIN 4132
- Certification of welding to DIN EN 729, Part 2: 1994 and ISO 3834, Part 2: 2005
- Welders qualified to DIN EN 287, Part 1, regular quality tests in accordance with DIN EN ISO 15614, Part 1

## Ready-to-fit system components

- Cost-efficient assembly of any number of components, such as base plates, counterweights, mechanical components, etc., in accordance with your assembly drawings
- Efficient use of materials, optimum functioning
- Other components can be bought in if required
- Assembly welding, multi-pass welding
- Priming and painting
- One-off and series production runs



## Quality testing procedures

Precision and commitment at every stage. Our range of machines, which is continuously expanded and updated, provides our highly-qualified team with the best possible technical and inspection facilities for fulfilment of all requirements in the top-quality machining of steel plate.

### Intermediate and final inspections

- Magnetic particle or dye-penetrant inspection for detection of cracks and discontinuities
- Hardness and strength tests
- Dimensional checks
- Ultrasonic inspection
- Weld inspections to the customer's specifications





# If it's steel ? ask us!

High-level capabilities and experience enable us to isolate solutions for your problem jointly with you - as we have for more than 50 years. Our product customers include mechanical and plant-equipment engineers, boiler and vessel constructors, building machinery suppliers, and crane makers.

We always take account not only of all technical requirements but also the economic aspects, to enable our customers to exploit all potentials on their markets. Intensive dialogue with our customers, combined with long time experience, gives us comprehensive knowledge of specific conditions and potentials, enabling us to cover your needs on a problem-orientated basis with our broad range of products and all-in service.

Personal consultation and painstaking, skilled work - highly qualified and committed staff are the vital basis for our products and services. Ultra-modern technologies, a certificated Quality Management system and carefully harmonised logistics assure ideal completion, ensuring that the right individual solution, at the right time and at the right place, is supplied for every customer, whether as a standard product or a specially tailored one-off - in Germany, in Europe, anywhere in the world.

## Our range of machines

- 12 DNC thermal-cutting machines for formats of up to 8,000 mm width, 20,000 mm length and 1,000 mm thickness
- Continuous blasting system for widths up to 2,700 mm
- Manual blasting facilities
- Mobile blasting system
- Propane-heated shaft furnace for heat treating of steel up to a maximum of 1,000° C and 30 t charge weight, widths of up to 3,000 mm and lengths of up to 8,000 mm
- Machining centre, x axis 8,000 mm length, y axis 3,000 mm height and z axis 1,500 mm depth
- Radial drilling
- MIG/MAG welding facilities
- Hydraulic straightening press, 3,500 kN
- Electromagnetic cranes up to 56 t load-bearing capacity
- Test equipment for ultrasonic, strength and crack inspections



# Always one step ahead.

Our high quality standards guide us in all areas and at every stage – starting with purchasing from top quality sources, via high-precision inspection when the goods are received, in production and through to delivery. Highly qualified staff, our certificated Quality Management and modern technology are further guarantees of our outstanding quality, down to the smallest detail.

Our high-availability stockholding warehouse, broad product range and up-to-the-minute equipment, combined with our comprehensive service, enable us to meet our customers' wishes cost-effectively, rapidly and reliably – and at top quality. Thinking ahead at all times, investing rationally in new technologies, has been our first priority for more than fifty years.

For the benefit of our customers – today and tomorrow.

## Jebens

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