



Lech-Stahlwerke GmbH

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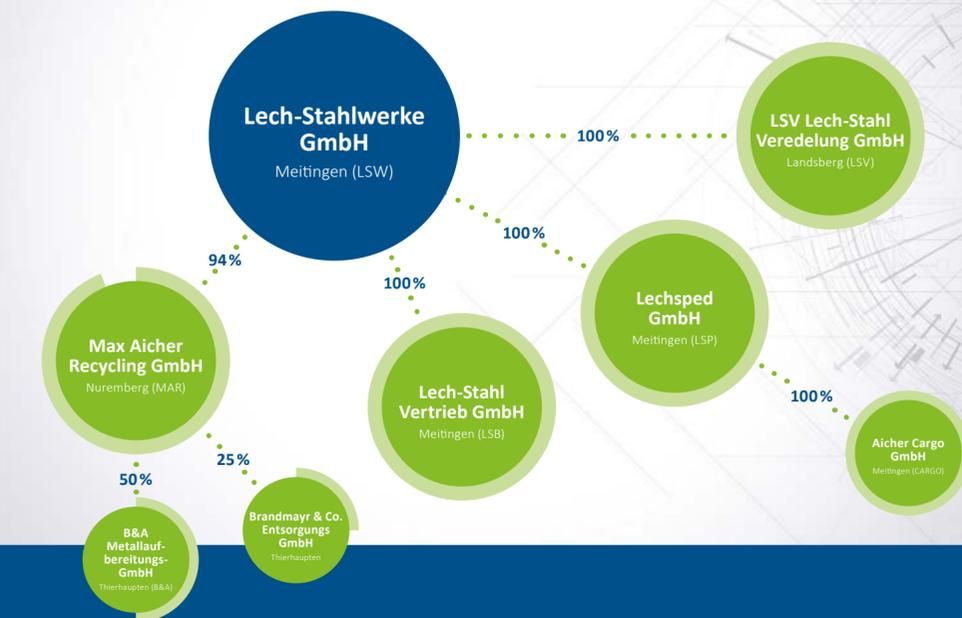


LSW
Lech-Stahlwerke

Enhancing Life Quality

Lech-Stahlwerke GmbH

The LSW Group
almost 100% owned by the Max Aicher Foundation



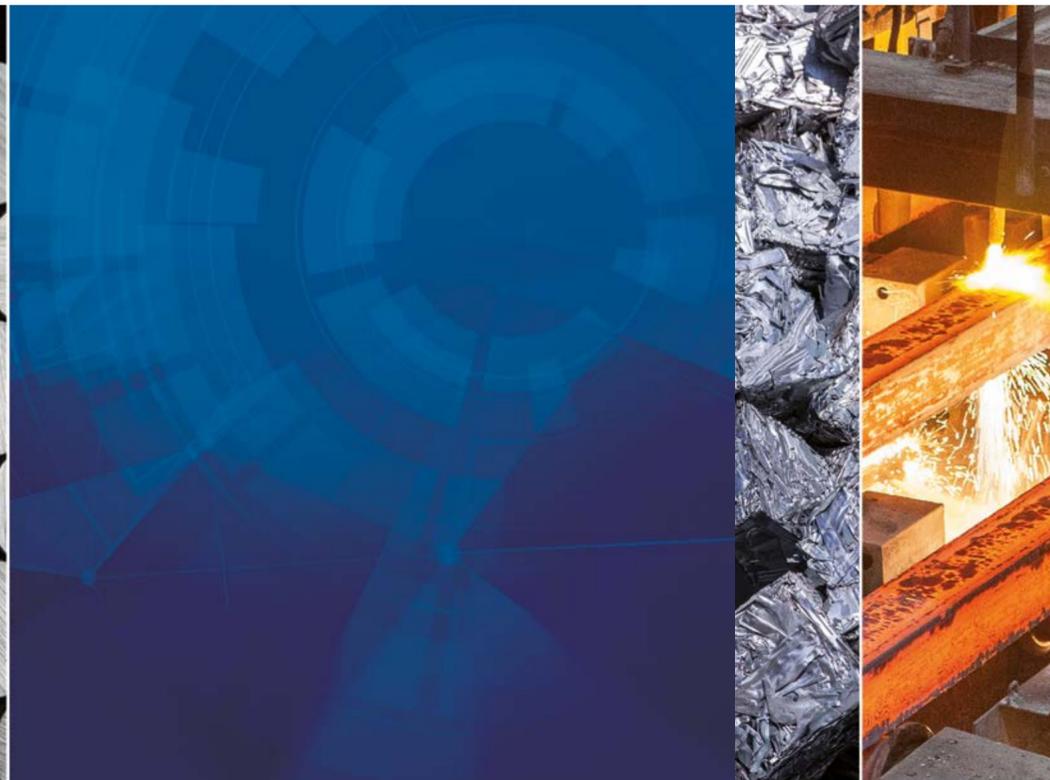
Steel, the innovative material for the future!

Lech-Stahlwerke (LSW) are development partners of renowned OEM customers and their suppliers and create products for pioneering applications e.g. in vehicle powertrains or for innovative lightweight solutions. Likewise we offer the sector of machine and special engineering different solutions and concepts for their special tasks and purposes.

Together with the customers, the development department of LSW conceives customized solutions for an optimal use of our products and at the same time provides the expertise for the appropriate material processing. With its current delivery pro-

gramme (see table) LSW fulfils all relevant requirements of the automotive, engineering, construction and mining industry as well as machinery and plant engineering.

Moreover, the focus is on process development and optimisation with the aim to improve cleanliness as well as inner and surface quality. In order to ensure a consistent development, we draw upon our many years of experience and the technical know-how of our highly qualified employees in all departments as well as upon the extensive possibilities of material inspection in our own laboratory.



Product	Dimensions	Length
Continuous cast billets	sq. 130 / 160 / 178 / 240 mm	max. 6.00 m
Round bars	31 – 65 mm / 66 – 130 mm	4.00 – 12.00 m / 4.00 – 10.50 m
Billets	50 x 50 mm – 120 x 120 mm	4.00 – 10.50 m
Re-bars	8 – 32 mm	max. 24.00 m

Lech-Stahlwerke GmbH

Lech-Stahlwerke was established in 1970 as Bayerische Elektrostahlwerke GmbH in Meitingen to recycle steel scrap for the production of high-quality long products. LSW belongs to the "Steel & Production Division" of the Max Aicher Group. Thanks to our hybrid orientation in steel production of high-quality /engineering and reinforcing steel and a vertically integrated company structure along the whole value chain, we are in a position to react not only at short term but also with lasting effects both to market changes and to customer's needs. This way we can ensure security and reliability for our customers and ourselves now and in the future.





Value Chain of the LSW Group



Recycling (MAR)
Collecting, processing and trading of steel scrap as a way of securing LSW's raw material supply



Steel Production (LSW)
Production of raw steel as a basis for the production of steel bars



Steel Processing (LSW/LSV)
Manufacturing of high-quality and engineering steel as well as reinforcing steel. Processing into bright steel bars, also including heat-treatment.

Customer
Our products are used in the automotive, engineering, construction and mining industry as well as machinery and plant engineering.



Who we are and what we do

At the production site of Meitingen near Augsburg, Lech-Stahlwerke with around 800 employees, produces approx. 1.1 million tons of high-quality/engineering as well as reinforcing steel. This is made exclusively from steel scrap. Since the first melting on 19.03.1972, more than 34 million tons of scrap have been recycled. This is equivalent to more than 4,000 tons of recycled scrap per day or more than 42 million scrapped cars in total, thus representing the achievement of recycling management. As Bavaria's biggest recycling company, we render a substantial contribution to the sustainable saving of resources and to the protection of the climate, because the CO² emission per ton of steel is almost 75% lower in the electric steel melting process than in conventional production in a blast furnace!

Sites of the companies of the LSW Group

- | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <p>1 Lech-Stahlwerke GmbH
Lech-Stahl-Vertrieb GmbH
LSV Lech-Stahl Veredelung GmbH
Lechsped & Aicher Cargo GmbH
Meitingen</p> | <p>5 Max Aicher Recycling GmbH
Amberg</p> |
| <p>2 LSV Lech-Stahl Veredelung GmbH
Landsberg am Lech</p> | <p>6 Max Aicher Recycling GmbH
Lauingen an der Donau</p> |
| <p>3 LSV Lech-Stahl Veredelung GmbH
Oberndorf am Lech</p> | <p>7 Max Aicher Recycling GmbH
Nördlingen an der Donau</p> |
| <p>4 Max Aicher Recycling GmbH
B&A Metallaufbereitungs-GmbH
Nuremberg</p> | <p>8 Brandmayr & Co. Entsorgung GmbH
Thierhaupten</p> |
| <p>LSW Sales Offices
Paris/France
Shanghai/China</p> | |



LSW is one of the most important suppliers of the German and European automotive industry and its subcontractors. In addition to this, LSW supplies the Steelworks Annahütte and the Maxhütte Pipe Mill with continuous cast billets for further diversification of the product portfolio. We supply rebar bending shops, the construction industry and the demanding technical civil engineering sector with our threaded steel bar solutions.

As an employer and business partner, Lech-Stahlwerke is an indispensable motor of the economic region of Augsburg and Bavaria. Our main sales market is Germany but we are represented with our high-quality products all over the world.

To cover the economic region of China we established a representative office in Shanghai, which opened further development opportunities for us in Asia – not only for LSW but also for the entire Max Aicher Group.

The LSW Group's formula for success is the vertically integrated corporate structure. With its participation in related companies, LSW covers the entire spectrum of steel-related value creation. This includes both a significant share of self-provision, due to the raw material scrap, and a deepened element of finishing stages. This strategy is implemented, among other things, by the continual development of such share-holdings as the Max Aicher Recycling and Lech-Stahl Veredelung.

Production process: From scrap to steel

The material steel is an example of genuine circular economy and sustainability. Steel can be recycled as often as wanted and without losses in quality..

9 Logistics

As soon as the finished products have passed through the quality checks, they are promptly delivered by train, truck or ship, just in time to the customers.

8 Refining

Further processing and finishing of our quality and engineering steel forms the final stage of our value chain. With the use of the latest finishing production facilities, such as e.g. peeling or single-bar inductive quench and tempering lines, we set new standards and round off our profile including the delivery of short pieces.

7 Finishing

In the final check we subject our products to a series of pre-defined testing processes. This way, we guarantee to our customers a high degree of quality and safety in the use of our products.

6 Quality Management

In our laboratories diverse check-procedures are available for the technical material testing. Thanks to our quality assurance system and process optimising, all customer requirements with the narrowest tolerances can always be fulfilled, enabling us to continually develop our products further.

1 Scrap Preparation

At LSW, steel is exclusively melted from sorted scrap, which is delivered either by train or truck (with a proportion of approx. 60% to 40%). The sorting and preparation for this takes place in our own shearing, shredding and flame cutting facilities.

2 Electric Arc Furnace

Around 100 tons of liquid steel per hour can be produced in each of the two electric arc furnaces.

3 Secondary Metallurgical Treatment

The "fine tuning" of the liquid steel takes place in the two ladle furnaces (metallurgical treatment, chemical analysis adjustments and setting of the casting temperature) and in two vacuum degassing units (cleanliness improvement).

4 Continuous Casting

Before the steel can be processed further in the rolling mills, it is cast into billets in two continuous casting lines. Our ring ladle carriage system guarantees a smooth continuous casting process.

5 Rolling Mills

The continuous-cast billets are processed further in two separate rolling mills into high-quality/engineering steel bars as well as in reinforcing steel bars. To this purpose the billets are heated up to rolling temperature in modern reheating furnaces and then rolled into the required dimensions.

