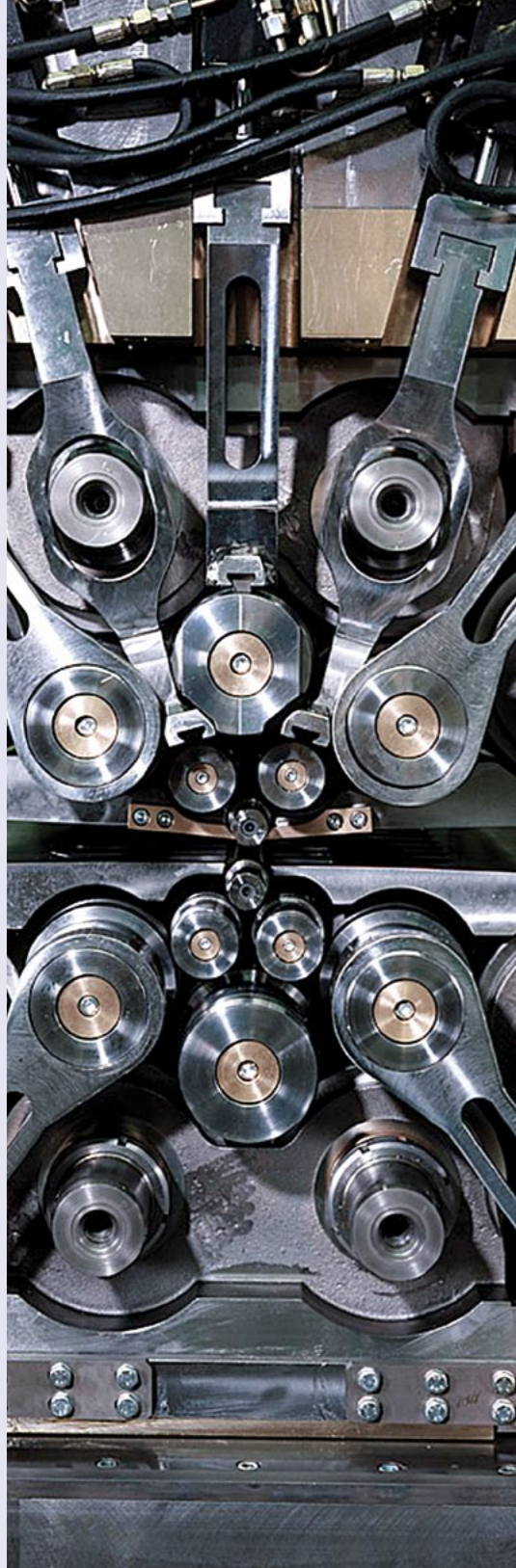


The background of the lower half of the page is a composite image. On the left, there is a solid dark blue vertical bar. To its right, a close-up photograph shows the surface of a rolling mill, characterized by numerous parallel, slightly curved metal rollers with a textured, metallic finish. The lighting creates highlights and shadows across the rollers, emphasizing their three-dimensional structure.

Rolling mill technology

hpl-Neugnadenfelder Maschinenfabrik



Rolling mill technology

In the rolling mill technology product range, hpl-Neugnadenfelder Maschinenfabrik GmbH designs and manufactures both new rolling mill and retrofitting technology for all ferrous and non-ferrous metals.

INNOVATIVE TECHNOLOGY FOR NEW LINES

We deliver turn-key solutions reaching from a 2-high up to a 20 roller cold rolling mill as well as hot rolling mills for magnesium. All our products are both highly efficient and high in quality.

- High level of automation
- Actuators, such as bending and selective cooling mechanisms
- Rolling mill stands with hydraulic roll gap adjustment system
- Roll bending
- Pass line adjustment
- Optimised changing devices for work rolls
- Uncomplicated operation and easy handling
- Fast and reliable coil transportation

Our lines feature a flexible design allowing them to be adapted to any site conditions. The rolling mills are installed on site and commissioned by us.

We have developed two new technology concepts offering significant advantages for our customers.

The roll housing technology is a completely new approach to the design of rolling mills. This new construction based on a platform concept allows the use of different roller configurations. This enables us to carry out retrofitting work, as for example from a 4-high to a 6-high or 12 roller configuration. The resulting advantages are significantly reduced delivery times and the diversification of the service offered by hpl-Neugnadenfelder to its customers.

The second substantial new development consists of an innovative strip position control system. This newly developed control system offers automatic levelling of the rolls due to exact strip centre sensing.

EFFICIENT RETROFITTING

hpl-Neugnadenfelder extends the lifetime and increases the productivity of existing lines – independent of the line manufacturer. Based on the existing rolling mill technology and site conditions, we deliver optimal solutions to our customers. Our scope of supply includes the potential analysis, planning, design, manufacture and assembly of the components and systems to be modernised.

Our scope of supply for increasing line productivity includes:

- Retrofitting, from mechanical to hydraulic roll gap adjustment
- Retrofitting of actuators, such as bending and selective cooling mechanisms
- Installation of bending mechanisms for work rolls
- Automation of control systems
- Use of highly efficient changing devices for work rolls
- Increase of drive power

For the retrofitting of existing lines, we guarantee our customers minimal machine downtime due to optimal use of the existing infrastructure.

QUALITY YOU CAN RELY ON

All lines are manufactured fully in accordance with the well-established principles of hpl-Neugnadenfelder Maschinenfabrik:

- Uncomplicated operation and easy handling
- Highest possible automation
- Ease of repair and maintenance
- Short assembly and commissioning times
- Minimal set-up times
- Solid construction
- Long lifetime

Our rolling mill technology also of course complies with the strict provisions of the EC Machinery Directive.

For all our products we offer a proactive after-sales service throughout the entire lifetime which also includes the supply of required spare parts. Due to its high degree of vertical integration of manufacturing, hpl-Neugnadenfelder is able to guarantee a fast and uncomplicated spare parts supply of key parts and components even decades after a line has been commissioned.



Finishing stand



Hot rolling mill for magnesium

Photo: Karsten Enderlein / ThyssenKrupp



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