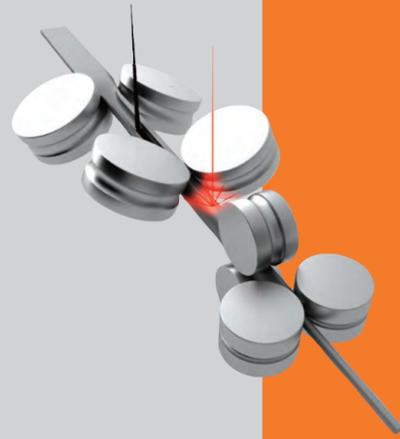


BÜHLER REDEX Laser closed FCW-Lines mills



Based on the most up-to-date technology, the Laser Closed FCW-Lines mills from BÜHLER REDEX provide huge improvements in quality and productivity compared to the previous generation of equipment.

- ▶ continuous welding guarantees full sealing (stops any penetration of humidity).
- ▶ brand new process offers optimal dispersion and compactness of the powder particles in the finished wire.
- ▶ using strip as rough material (either low carbon or stainless steel), lowers a lot the costs of production.
- ▶ State-of-the-art control and monitoring technology ensures the continuous and consistent high quality of the production.

The complete Laser Closed FCW-Lines includes:

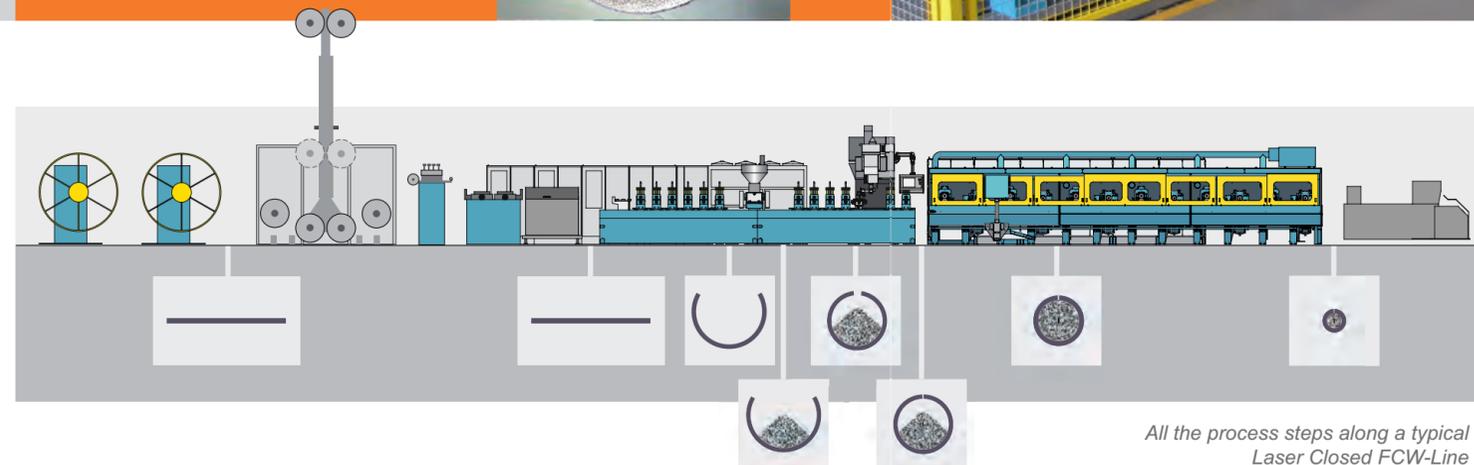
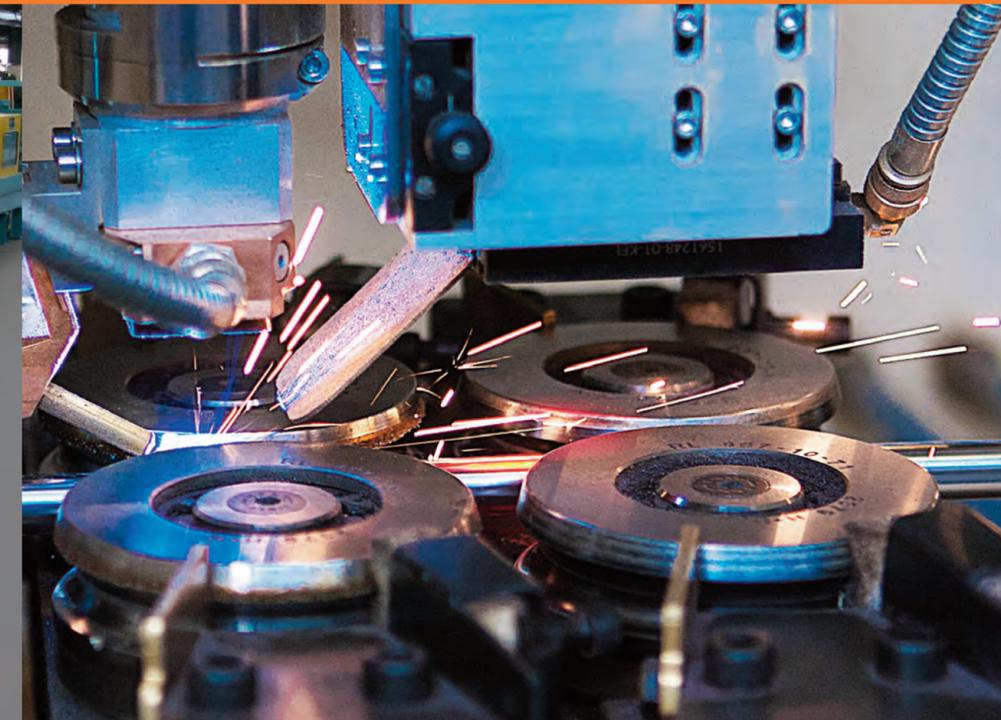
- ▶ Pay-off
- ▶ Strip cleaning
- ▶ Tube forming
- ▶ Powder filling station
- ▶ Laser-welding
- ▶ Rolling mill
- ▶ Ultrasonic cleaning
- ▶ Take-up spooler

It can include an accumulator for non-stop processing, as an option when using two pay-off systems.

Wire cut micrograph after laser welding and reduction



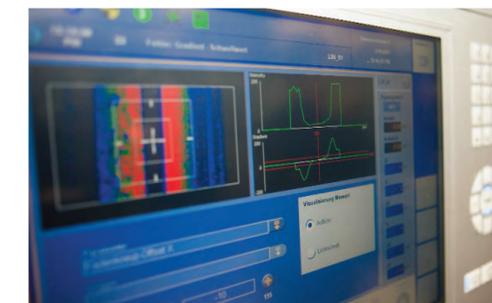
Continuous laser welding unit in operation



All the process steps along a typical Laser Closed FCW-Line



Tube forming units followed by the powder filling unit.



Complete control and monitoring, including temperature sensitive sensor for real time inspection of the Laser working quality.



Reduction rolling mill, composed of several rolling stands



BÜHLER REDEX

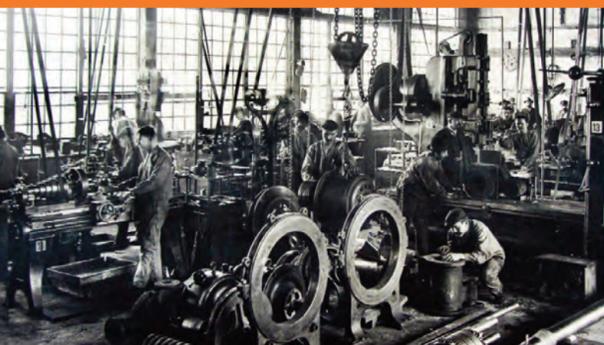
At the core of successful industrial process

Proved performance and economic efficiency are more than ever at the core of successful industrial process.

At BÜHLER REDEX, our aim is to develop and to offer equipment which makes true that «anything that strengthens your competitive position also strengthens our position with you».

A full win-win partnership !

That's the core of our team's goal. That's why the wire and strips produced on BÜHLER REDEX rolling mills always allow their producers to be a giant step forward to their competition.



125 years of experience does matter !

When wire processors make their choice for strategic manufacturing equipment, experience means confidence.

Relying on its huge field experience, BÜHLER REDEX is able to offer Cold Rolling Mills for rolling, drawing, annealing, and winding almost any existing alloys, including usual and unusual ferrous, non-ferrous, and all precious metal alloys.

Over the decades, the company's engineering continuously developed its know-how for reducing, compressing, profiling flat and round materials, or to produce the thinnest strips with tolerances measured in microns.

At BÜHLER REDEX, your special is our standard !

Over 1000 equipments delivered worldwide, while fulfilling each of the particular requests from any of its customers and partners with the exact level of customization required by their applications.

A special taste for innovation also leads to continuous improvement of the technical solutions provided along the customization.

Up-to-date is not enough, at BÜHLER REDEX the aim is to deliver today tomorrow's solutions, while keeping the top quality which ever made the company's reputation.

Great achievements start this us



Laser closed FCW-Lines

BÜHLER REDEX manufactures complete cold rolling mills based on the world's most comprehensive equipment portfolio.

According to your specific process requests, Bühler Würz is the best partner to offer custom designed system configuration, including all the needed ancillaries equipment, fitted at the best to your global organisation.

BÜHLER REDEX makes you benefit from the enhanced combination of its broad level of experience in high technology, in its deep know-how of processes, and in an unbeatable wide portfolio of specialties

- Wire reduction rolling mills
- Strip rolling mills
- Flat and profile wire rolling mills
- Flux Core Welding-Lines
- Inline annealing ovens
- Complete production lines
- PV-Ribbon machines

BÜHLER REDEX GmbH

75181 Pforzeim - Germany

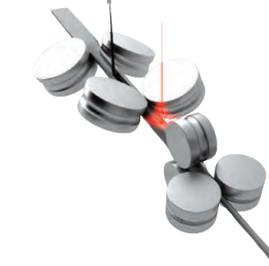
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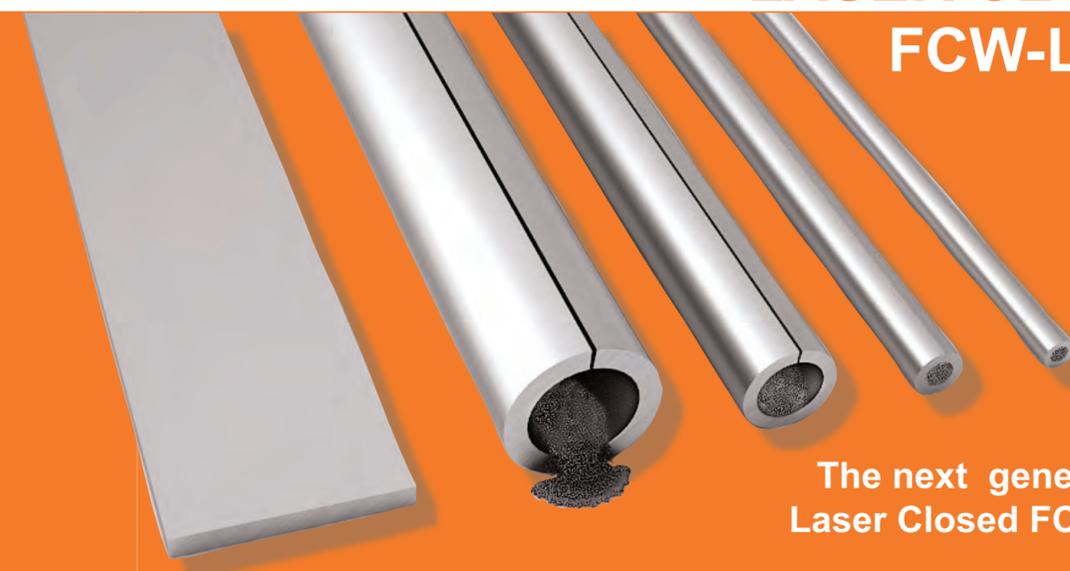
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BÜHLER REDEX

Metal precision Machines



LASER CLOSED FCW-LINES



The next generation of Laser Closed FCW-Lines

for the production of

Join welding wire
Hard facing wire
Injection wire

- Better quality
- Highest powder-metal ratio
- Faster processing time
- Cost-efficient base material
- Suitable also for stainless steel

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