



FLEXIBLE
EFFICIENT
PRECISE

AUTOMATION **DOUBLES CAPACITY** **FROM 6'000 TO 12'000 TONNES**

How our NOBAG slitting line for aluminium strips is making Debrunner Metallservice a European market leader

Imagine this: A leading multi-metal service centre wants to double its production capacity.

No standard solution will do. That's exactly where we come in.

Debrunner Metallservice AG relies on our highly automated slitting line to expand into a European centre of excellence.

Our mission:

Not just to replace a 33-year-old system, but to achieve a technological quantum leap.

The results?

Doubled capacity and new market opportunities.

Debrunner Metallservice

kloECKNER metals

Your partner for a sustainable tomorrow



"The collaboration was excellent at every stage. NOBAG consistently developed targeted solutions and always went the extra mile. For future projects, NOBAG is definitely our partner."

Reto Caprez
Head of Metal Service,
Member of the Group
Management at Debrunner
Koenig

THIS IS HOW WE MEET PREMIUM REQUIREMENTS

CHALLENGE 1: A UNIQUE SPECTRUM REQUIRED

Debrunner Metallservice requires an exceptional thickness range from 0.20 mm to 3.00 mm – a specification that is unique for machines in this category. In addition, aluminium coils of up to 5.5 tonnes and a maximum outer diameter of 1,500 mm must be processed.

Our response: We are developing a customised slitting line that meets these exact specifications.

CHALLENGE 2: DOUBLE THE CAPACITY AT THE SAME COST

Debrunner Metallservice aims to increase output from 6,000 to 12,000 tonnes per year without doubling personnel costs.

Our response: We are integrating a high level of automation, resulting in significantly shorter set-up and throughput times. The result: Double the production capacity with optimised operating costs.

What this means for your projects:

- We analyse your specific requirements,
- develop tailored automation solutions,
- and deliver measurable efficiency gains.

CHALLENGE 3: ELECTRONICS INDUSTRY WITH THE HIGHEST STANDARDS

Debrunner Metallservice aims to tap into demanding markets: transformer and magnetic coil strips for the electronics industry. These applications require burr-free slitting and top edge quality.

Our response: We integrate the optimal solution for burr-free slitting. The strips are then rolled on both sides to eliminate sharp edges. This level of precision meets the highest quality standards of the electronics industry.

Coil width
20 mm – 1'300 mm



max. Coil weight
5.5 tonnes

Thickness
0.20 mm bis 3.00 mm



Automatic tool change station



Strips are slit with minimal burr formation

TECHNICAL HIGHLIGHTS OF THE NOBAG SLITTING LINE

CHALLENGE 4: ENABLING COST-EFFECTIVE SMALL BATCH PRODUCTION

Debrunner Metal Service requires flexibility for different order sizes. From small orders to large-scale series.

Our response: We are developing a solution that enables economical production starting from 200 kg with material thicknesses of up to 1.10 mm. The slit strips can optionally be wound on cardboard or aluminum cores and equipped with paper interleaving for surface protection.

RE-STORAGE OF COILS

The system is equipped with a four-arm rotary cross for loading, which enables high flexibility in processing and reduces setup times. Coils that are not fully processed are removed via a separate removal axis. The reel rotates 90°, transferring the coils to an intermediate storage area, from where they are returned to the main warehouse. This intelligent solution minimizes material losses for small quantities.



Maximum adaptability for small lots

AUTOMATATIC STRIP SEPARATION

The separating discs position themselves automatically according to the data provided by the control system. The result: high accuracy with short setup times and significant savings in personnel effort. Improved ergonomics relieve the operating staff, as the discs no longer need to be positioned manually. Less manual work, more precision.



Maximum automation, minimal personnel effort

FINE STRIP WINDING SYSTEM

The specialized winding system for thin strips guarantees an edge-straight winding result with constant winding angles. This allows for high coil weights per millimeter of strip width. This precision is crucial for high-quality further processing.



Perfect winding results for thin strips

LOOP DOUBLER

The loop doubler enables the processing of coils with large strand lengths while optimizing the loop pit depth. This solution reduces investment costs, as a shallower pit is required.



Optimized handling of long strand lengths

PAPER UNWINDER WITH CUTTING DEVICE AND SCRAP WINDER

The paper feeding device protects surface-sensitive materials during processing. The paper widths are cut directly on the machine to the required strip widths, and the remaining paper strips are rewound. The paper no longer needs to be pre-cut before purchase. The result: lower costs with greater flexibility.



Cost-efficient surface protection

YOUR NOBAG ADVANTAGES AT A GLANCE

- High flexibility in strip thicknesses and widths
- Aluminum coils up to 5.5 tons can be processed
- Shorter throughput times and higher production capacity thanks to high automation
- Low-burr slitting & double-sided rolling for optimal edge quality

READY FOR YOUR QUANTUM LEAP?

This investment makes Debrunner Metallservice a Europe-wide centre of expertise and service for aluminium slit strips. It demonstrates how technical innovation and proven Swiss engineering create competitive advantages.

Your next steps: Let's analyse your challenge together. We will develop the right solution for your slitting requirements.



Challenge us.



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