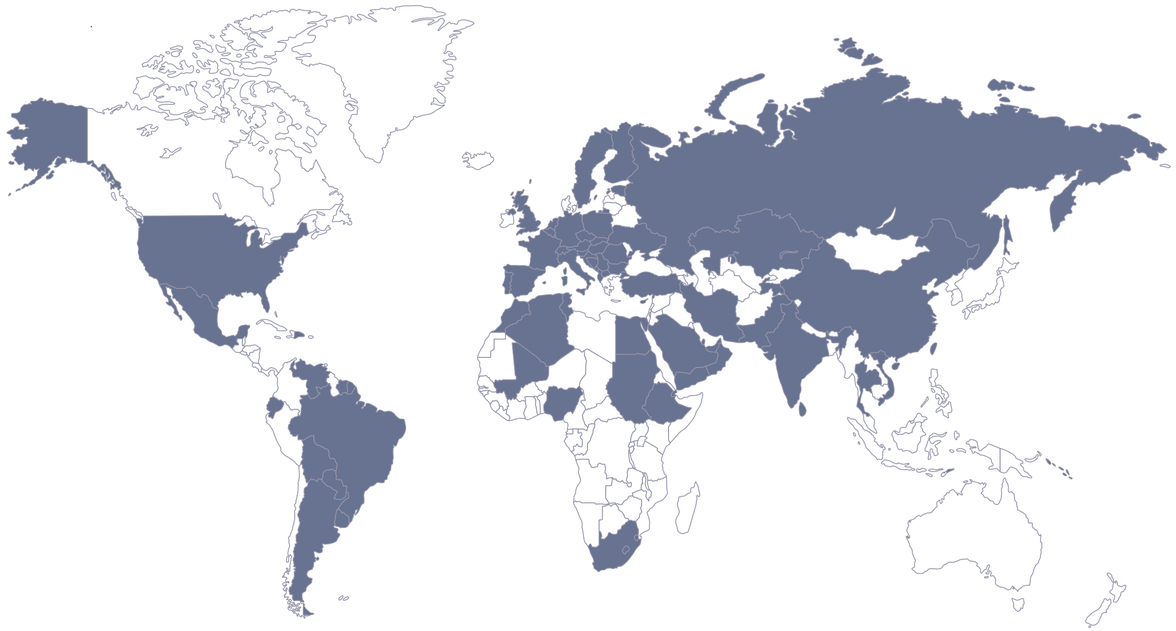
FIMIGROUP

more than **1.500 plants installed** all over the world

In almost sixty years in business **FIMI has built relationships all over the world** and today the Company boasts **more than 300 customers** that can be defined as close **Partners**.

Today FIMI is present in all the **main geo-economics areas** with a more significant presence in **EU, USA and BRICS Countries**, supplying leading companies of the sector with quality products, including, just to mention a few, **Arcelor Mittal, Marcegaglia, SSAB, Tata Steel, Prolamsa**.

In this guide, we wanted to collect some feedback from some of our customers, making us proud to have been able to satisfy.



SSAB · Severstal · thyssenkrupp · Tenaris · voestalpine · ArcelorMittal · TATA STEEL

MARCEGAGLIA · PROLAMSA · cpc INOX · aperam · NLMK · PADANA TUBI · OMK · EVRAZ · JINDAL STEEL & POWER · Kibar · Arvedi · RUSAL

OSSAN · ALCOMET · ILVA · BÖHLER · Mubea · ALUMIL · ALU FLEX PACK · LAURA METAAL · autokumpu · BECKER · BSH

NOVA METALE · CLN · WAELZHOLZ · Fecana · JR ANDERSEN INDUSTRI · SARITAS · Metalsider · Wuppermann · RZK FLEX · AvestaPolarit · BAOSTEEL

BHUSHAN · HOVELMANN & LUEG · TPCO · TISCO · ALCAN · Tüpar · SLC · TOYOTA · FIAT · Teknik · STAHLO

Nova Metale Sp. Z.O.O.

NOVA Metale Sp. z o.o. was founded in November 2017 as a sister company of Nova Trading S.A. It is located in Łysomice - Poland - and the main objective of the company was to create **a production plant** dealing with the production of **stainless steel and aluminium products** intended **for special applications** in various branches of the industry.

The Customer's need was to be **more competitive**, serve customer orders **more efficiently** by reducing waiting times, and **enhance overall performances**.

Nova Metale Sp. Z.O.O.

MATERIAL SPECIFICATION

Inlet material		
Material	Stainless Steel, Aluminium	
Tensile Strength	Max 800	N/mm^2
Yield Strength	Max 600	N/mm^2
Strip Thickness	Min. 0,6 Max 3,0	mm mm
Strip Width	Min. 200 Max 1.600	mm mm
Surface	Dry	
Elongation	Max 50	%
Coil data		
Weight	Max 25	Ton.
Inside Diameter	508-610	mm
Outside Diameter	Max 2.000	mm
Outlet material		
Sheet Data		
Length	Min. 300 Max 3.000+3.00	mm mm
Width	Min. 200 Max 1.600	mm mm
Package Data		
Height	Max 400	mm (pallet included)
Weight	Max 3.000	Kg.
Weight Linear Meter	Max 1,5	T/m
Stacking Method	always on wooden pallet	

Nova Metale Sp. Z.O.O.

Some feedback on the project gathered in an interview with:
Mr. Marcin Lach, Nova Metale Sp. Z.o.o.

Mr. Lach, what prompted you to commission an Italian company like Fimi to build this plant?

The decision to cooperate was influenced by FIMI's longstanding and well-established position in the European steel processing machinery market.
FIMI machines are known for their durability, reliability, and low electricity consumption (Energy Saving), combined with high efficiency and flexibility.
This opinion, which I had heard before, I can now confirm with full responsibility, based on my experiences since the beginning of our partnership.

Is it the first one or do you have also other FIMI lines?

We have been cooperating with FIMI since 2005 when we realized our first joint investment - the installation of a CTL line at Nova Trading. This was a significant moment in our history, as we transformed from a trading company into a stainless steel and aluminum service center. Over the subsequent years, as we continued to grow, we gradually expanded our machinery fleet. FIMI has been with us throughout this process. In our business group, there are now five production lines supplied by FIMI - three CTL lines and two slitters.

So this is not the first, and I believe it won't be the last FIMI production machine in our machinery park.

▪ 2005 -> CTL 0,4-2,5/1600 mm	NOVA TRADING SA	FIMI Job. 744
▪ 2008 -> SLITTER 0,4-4,0/1600 mm	NOVA TRADING SA	FIMI Job. 799
▪ 2020 -> SLITTER 0,4-4,0/1600 mm	NOVA METALE SP Z O.O.	FIMI Job. 987
▪ 2020 -> CTL 0,4-4,0/1600 mm	NOVA METALE SP Z O.O.	FIMI Job. 986
▪ 2023 -> CTL 0,6-3,0/1600 mm	NOVA METALE SP Z O.O.	FIMI Job. 1007

What are the most important features of the line?

For a Cut to Length line, the two most important modules are the leveling module responsible for the flatness of the produced sheets and the cross-cutting knife rotation module, which determines the accuracy/repeatability of the cut sheet lengths. I can say that FIMI has been successfully using the same technical solutions for these modules for years. These solutions are, of course, still being developed (we have a comparison with 2005). The improvement of these solutions aims to increase efficiency and effectiveness.

In what way is it particularly innovative?

For me, the innovation lies in connecting another CTL machine (following CTL 986) to the automatic high-storage rack system. This is a unique technical solution, undoubtedly in the European if not global scale.

Do you feel that your needs are satisfied?

As of today, yes. Our processing capacity for cutting materials into sheets has significantly increased.

Nova Metale and Fimi are synonymous with excellence, what was the result of this combination?

FIMI's technological solutions, combined with the professional operation of the lines by Nova Trading and Nova Metale's trained and experienced operators, ensure the reliable operation of our machines. To complete this perfect combination, it's worth mentioning the continuous supervision of the Maintenance Department over the machinery park - regular inspections and quick responses to any faults, and so on. Our cooperation with FIMI Service in this regard has also been outstanding.

Voestalpine Steel & Service Center

In the overview of the Slitters made by **FIMI** able to process high-strength steels, we would like to present the Case History of the one made for **Voestalpine Steel & Service Center** and commissioned to **FIMI** for its own establishment of Linz in Austria.

Voestalpine is a world-leading steel and technological industry, composed of about **500 companies** which constitute the Group operating at a global level **in more than 50 countries**.

The Customer need was to **extend** the already **wide production range**, adding **a new plant for cutting high-strength steel coils into strips**, characterized by an **elevated technological level** and an automation capable to control **efficiency and performance**.

Voestalpine Steel & Service Center

voestalpine

MATERIAL SPECIFICATION

Inlet material			
Material	Hot-rolled Steel, Pickled and Not Pickled, according to EN10025/ EN10149/EN10083/EN10084/EN10051 norms Dry and oiled (max. 3 gr/m²), Prelubs e Hotmelt		
Yield Strength	Min. 400 Max 1.500 1.300	N/mm² N/mm² up to 10 mm N/mm² up to 12 mm	
Elongation	Max 20%		
Strip Thickness	Min. 1,5 Max 12	mm mm	
Strip Width	Min. 300 Max 1.800	mm mm	
Coil data			
Weight	Max 40	Ton.	
Inside Diameter	508-610-760	mm	
Outside Diameter	Min. 900 Max 2.200	mm mm	
Outlet material			
Width	Min. 50 80 100 Max 1.800	mm mm mm mm	up to 6 mm thickness up to 10 mm thickness up to 12 mm thickness
Nr. of Strips	Min. 1 Max 25		
Inside Diameter	508 610 760	mm mm mm	(flanged mandrel) (flanged mandrel) (flanged mandrel)
Outside Diameter	Min. 900 Max 2.200	mm mm	

Voestalpine Steel & Service Center

Some feedback on the project gathered in an interview with:
Mr. Karl-Heinz Krenn, Voestalpine
Eng. Sergio Sacchi, FIMIGroup.

Mr. Krenn, what prompted Voestalpine to commission an Italian company like Fimi to build this plant?

Voestalpine has already successfully completed several projects with Fimi in the past, e.g. the flying shear in 2009, a final straightening machine for the hot strip cut-to-length shear in 2016 and a ring packaging system in the slitting centre. And now the construction of the new slitting line for hot strip steel grades.

Furthermore, FIMI is a very innovative company that offers and develops new solutions that deviate from the standard.

Eng. Sacchi, what are the most important features of the line?

The material to be processed is hot-rolled steel, pickled and not pickled, dry and oiled with tensile strength from 400 N/mm^2 to 1.500 N/mm^2 (up to 10 mm thickness), 1.300 N/mm^2 (up to 12 mm thickness), according to the EN10025/ EN10149/EN10083/EN10084/EN10051 norms.
Width from 300 to 1800 mm, thickness from 1,5 to 12 mm, coil weight max. 40 Ton.

The layout of the line is similar to the one of the other Slitting Lines of thick gauge realized by FIMI but with some peculiarities:

- Notcher, a machine able to make two cuts on tape sides about 1 m from its head.
- Automatic separators on thick gauge.
- Slitting shear equipped with automatic centering device and steering pinch roll.
- Recoiling mandrel guided by tape guide system.
- Head and tail folding system.
- Electrostatic inline oiler.
- Control systems such as thickness and width measuring device.
- Flanged mandrels with automatic gearbox.

The line achieves excellent performances, always guaranteeing quality and reliability. Indeed, it is able to make 20 cuts at a speed of 200 m/min on 8 mm thickness and a tensile strength of 600 N/mm^2 or 10 cuts on 8 mm thickness of 800 N/mm^2 tensile strength.
Another important result concerns the scraps: the feeding of the scrap is fully automatic and it is possible to trim and cut the material up to 100 mm of width.

And in what way is it particularly innovative?

FIMI was the only company in our group of suppliers that could offer a quick reel change device and automatic separating shafts up to a thickness range of 12 mm.
Furthermore, a progressive gating method on the circular knife shear was developed together with us.

Mr. Krenn do you feel that your needs are satisfied?

The new slitting line is a very good line. However, the project phase was very challenging. Covid-19 caused project delays. After an extended ramp-up phase, the commissioning has now been successfully completed.

Mr. Krenn, Voestalpine and Fimi are synonymous with excellence, what was the result of this combination?

FIMI and Voestalpine are two highly innovative companies that stand for excellent products in terms of technology. Together it is possible to work on new solutions for the future in order to meet the ever-increasing customer needs in the best possible way.

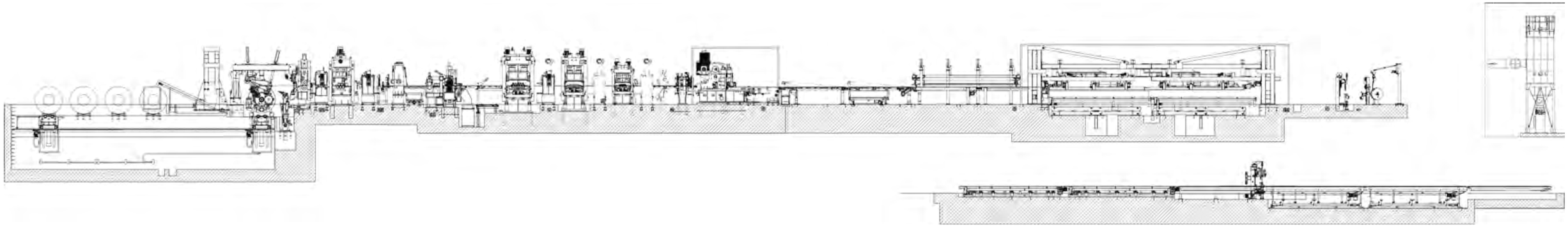
Tata Steel Service Centre Maastricht

Tata Steel has commissioned FIMI to supply **a high-performance levelling and cut to length line** with an **automated packaging system** designed for **high-strength strip steels.**

At the Maastricht Service Centre in Feijen, Netherlands, a subsidiary of Tata Steel Nederland, work has begun on the installation of **a new state-of-the-art, high-performance levelling and cut to length line with automated packaging.**

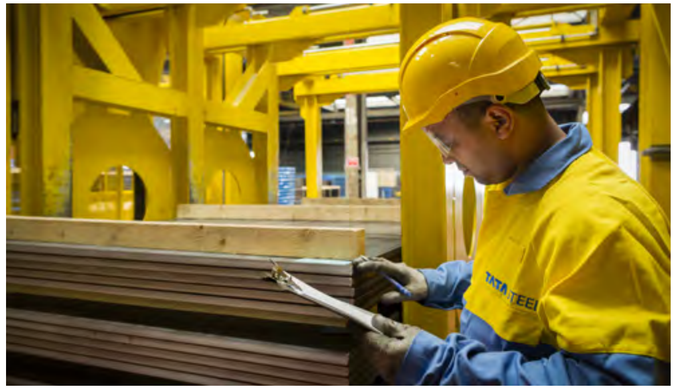
This is part of Tata Steel's plans to prepare for **increasing future demand for abrasion-resistant and high-strength premium steels**, particularly in the markets for equipment in construction, mining and agriculture. Thanks to this new decoiling line, these steels can be processed **quicker, more accurately, to a wider window and in a more sustainable way**.

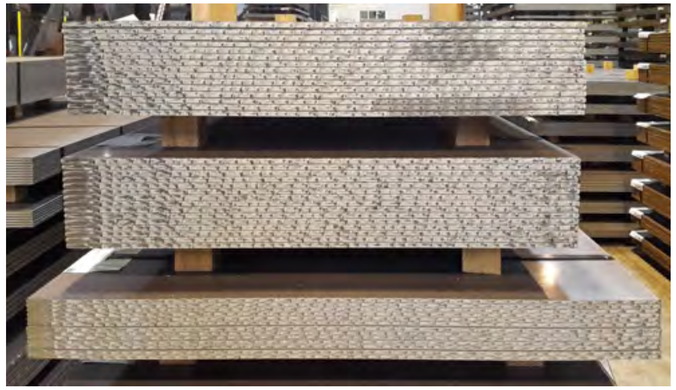
The commissioning of the new decoiler is scheduled for mid-2024.



Tata Steel Service Centre Maastricht

MATERIAL SPECIFICATION





Inlet material		
Material	Hot and cold rolled steel dry, pickled and oiled, HRD, HRP and galvanized coils	
Tensile Strength	Max 1.870	N/mm² - Total Range Thickness
Yield Strength	Max 1.600	N/mm² - Total Range Thickness
Strip Thickness	Min. 1,5 Max 13	mm mm
Strip Width	Min. 600 Max 2.150	mm mm
Coil data		
Weight	Max 40	Ton.
Inside Diameter	508-610-762-900	mm
Outside Diameter	Min. 1.000 Max 2.200	mm mm
Outlet material		
Sheet Data		
Length	Min. 1.000 Max 16.000	mm mm
Width	Min. 600 Max 2.150	mm mm
Package Data		
Height	Max 500	mm
Weight	Max 10.000	Kg.
Weight Linear Meter	Max 2	T/m
Stacking Method	without pallet	
Stacking Places	2 (8.000+8.000)	mm

Tata Steel Service Centre Maastricht

This Cut to Length line will be capable to process coils up to **40 tonnes weight, up to 1600 N/mm² yield strength**, with the highest hardness levels available, with **widths up to 2150 mm and thicknesses from 1.5 mm up to 13 mm, running up to 40 m/min**.

This will make it the most powerful line designed and produced by FIMI for processing ultra-high tensile and yield strength material at high thicknesses.

The result will be a very high plate quality and the ability **to meet the increasing technical requirements of future steel grades.** The end-products will have **high flatness levels of less than 3 mm/m**, to very **tight dimensional tolerances** (less than ± 2.5 mm up to 12,000 mm sheet length).
This will be possible thanks to the power of the new line, but also by a number of automated features, which make the process **more sustainable**. The automated functions and applications include: loading and threading, robot destrapping unit and thickness and dimensional measurement.

The key factor for levelling ultra-high yield strength materials is **FIMI's patented TDDS® (Torque Dynamic Distribution System)**, which is based on the application of special slip couplings on each exit shaft of the drive unit distributor as connecting elements to the shafts which transmit the movement to the levelling rolls.

Some feedback on this new project:
Mr. Stig Eriksen, General Manager of the Tata Steel Service Centre Maastricht
Eng. Mario Colombo, Sales director of FIMIGroup.

Mr. Stig Eriksen said

"this new decoiling line is of crucial importance: our demanding customers in agriculture, construction and mining equipment have been working with us for years because we always deliver the consistently high quality they expect.

With this real powerhouse we are ideally positioned for the increasing demands on high-strength premium steels of the future and can grow in our target markets.

We aim to continue to meet these market expectations in the future as technical requirements for steel processing continue to rise".

Mr. Mario Colombo said

"thanks to its many years of experience in levelling and processing high-strength material, Tata Steel chose FIMI after assessing various potential equipment suppliers.
We are able to meet the technical requirements as well as the performance and quality levels demanded by Tata Steel in the best possible way.
Trustworthiness, competence, references and know-how play a decisive role in this.

The new levelling and cut to length line is an ultra-modern line, designed not only for the present but also for the future. It is capable of processing ultra-high strength material not yet available on the market".

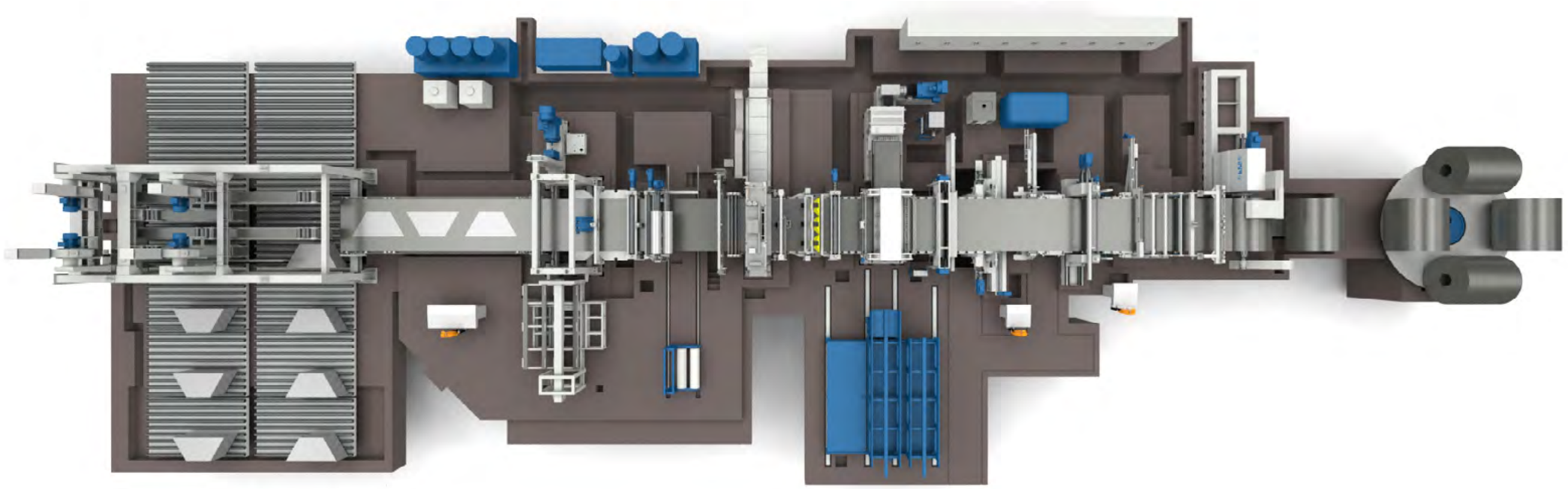
Becker Stahl Service GmbH

Becker Stahl Service GmbH commissioned to FIMIGroup a **Cut To Length with Packaging line** to process **aluminum for automotive**. The cutting line, installed in the industrial building of Becker Stahl-Service GmbH in Bönen, have an **annual output of 30.000 tons**.

Purpose of the installation of this line was to **increase performances and sheets cutting quality** for automotive manufacturers and their subcontractors through applications such as Hotmelt, process traceability, high precision and special cutting geometries.

This line represents the **state of the art** and the most advanced cut to length fully optioned configuration for processing aluminum cold rolled strip for automotive application.

Thanks to a very special and unique **FIMI "Vectroni Multiform" rotary shear**, the line **can cut every kind of sheet shape with the strip in tension** (no loop requested) assuring so the possibility to **achieve excellent cutting speed performances** without any risk to damage the surface of the strip because of high acceleration and deceleration values requested by typical loop/feeder configuration..



Becker Stahl Service GmbH

MATERIAL SPECIFICATION

Inlet material		
Material	Aluminium DIN EN 485-1 - Series: 1000, 5000, 6000 and subgroups	
Tensile Strength	Max 95 Max 400	N/mm² - Special 1.000 Aluminium N/mm² - Normal Aluminium
Yield Strength	Max 300	N/mm²
Strip Thickness	Min. 0,5 Max 5,0	mm mm
Strip Width	Min. 300 Max 2.150	mm mm
Coil data		
Weight	Max 15.000	Kg.
Inside Diameter	508-610	mm
Outside Diameter	Min. 700 Max 2.000	mm mm
Outlet material		
Sheet Data		
Length Rectangular Sheet	Min. 180 Max 1.000	mm mm
Length of trapezoidal, rhomboidal, triangular and shaped sheets	Max 8.000	mm
Package Data		
Package weight of max. 1 position	Max 4.000	Kg.
Package weight of max. 2 stacking positions	Max 8.000	Kg.
Packing	Wooden pallets - Supports of packages for automotive industry (steel pallets) - Pallets height 150 - 250 mm approx	

Becker Stahl Service GmbH

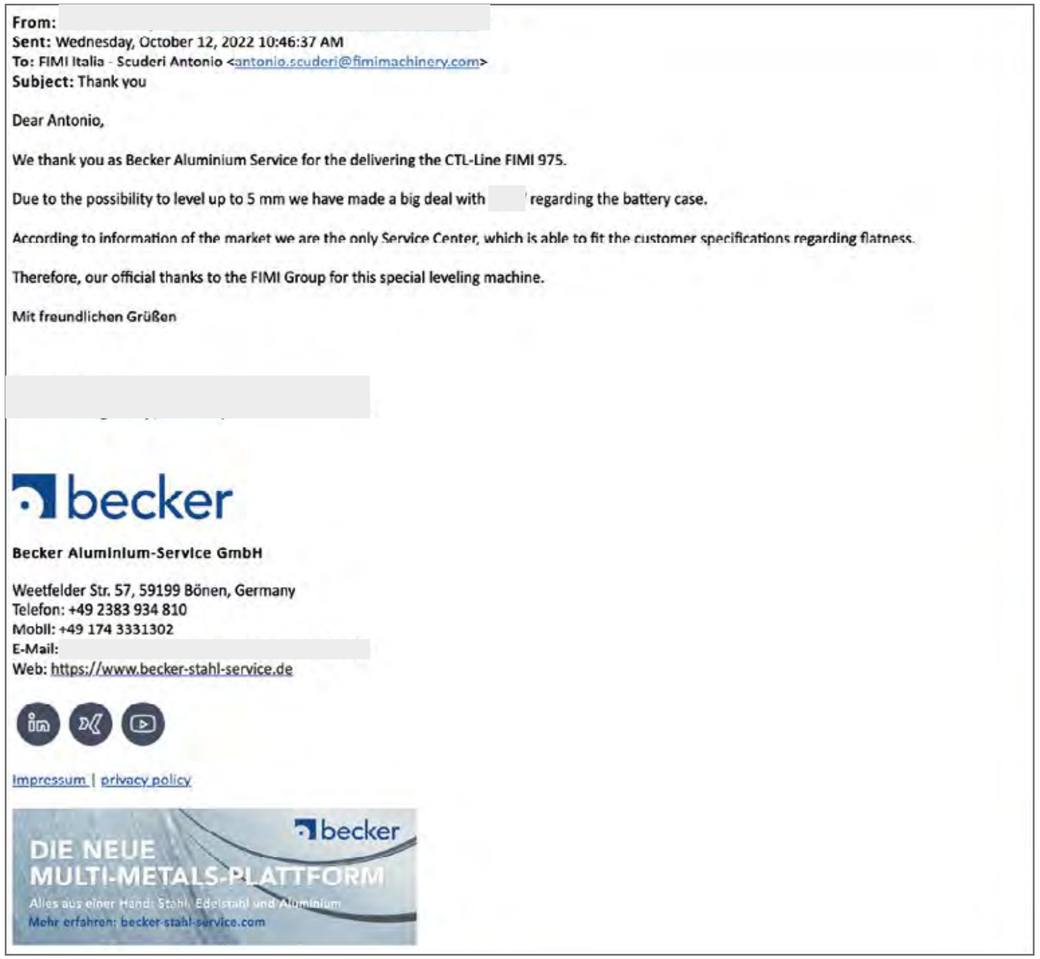
A new certificate that makes FIMI proud

It is a great pleasure to share the happiness of another of our partners for choosing FIMI for its business that makes us very proud!

Becker Stahl Service GmbH, one of the main German service centre, active in processing and supplying of aluminium flat products which equipped itself with a multi-format flattening and cutting line for its headquarter in Böhnen in 2018.
The scope of installation was to increase the performances and the sheet metal cutting quality for automotive manufacturers and their subcontractors by means of applications like hotmelt, process tracking, high precision and special cutting patterns.

Characteristics implemented in the plant that allows Becker to become the only service centre that can satisfy the demanding specifications on the flatness of one of the world's largest German automotive manufacturers, as recently communicated in this e-mail.

This is one of the reasons to affirm the quality of our plants, if there is still need, which are able to achieve performances difficult to match as a result of cutting-edge technology and in-depth process knowledge, not only in steels but also in aluminium and other alloys.



From:
Sent: Wednesday, October 12, 2022 10:46:37 AM
To: FIMI Italia - Scuderi Antonio <antonio.scuderi@fimimachinery.com>
Subject: Thank you

Dear Antonio,

We thank you as Becker Aluminium Service for the delivering the CTL-Line FIMI 975.

Due to the possibility to level up to 5 mm we have made a big deal with regarding the battery case.

According to information of the market we are the only Service Center, which is able to fit the customer specifications regarding flatness.

Therefore, our official thanks to the FIMI Group for this special leveling machine.

Mit freundlichen Grüßen

becker

Becker Aluminium-Service GmbH

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Web: https://www.becker-stahl-service.de

Impressum | privacy policy

SLC Stahl Logistik Center GmbH

SLC Stahl Logistick Center GmbH commissioned to FIMIGroup a **Cut To Length Line** able to process **hot rolled steel**. The plant is installed in the industrial building of SLC in Vienna, Austria.

SLC Stahl Logistik Center GmbH

CUT TO LENGTH LINE CASE HISTORY

MATERIAL SPECIFICATION

Inlet material		
Material	Hot Rolled Steel	
Tensile Strength	Max 1.000	N/mm^2
Yield Strength	Max 1.000	N/mm^2
Strip Thickness	Min. 3,0 Max 20,0	mm mm
Strip Width	Min. 500 Max 2.100	mm mm
Coil data		
Weight	Max 35	Ton.
Inside Diameter	610-850	mm
Outside Diameter	Min. 1.000 Max 2.200	mm mm
Outlet material		
Sheet Data		
Length	Min. 500 Max 18.000	mm mm
Width	Min. 600 Max 2.150	mm mm
Package Data		
Height	Max 400	mm
Weight	Max 10.000	Kg.
Weight Linear Meter	Max 2	T/m

SLC Stahl Logistik Center GmbH

Some feedback on this new project:
Mr. Rupert Hartl, Manging Director of SLC and Otto Weyland Jun, Managing Director of Weyland

SLC Stahl Logistik Center GmbH - Vienna, has **invested in a FIMI Cut to Length line for hot rolled steel**. SLC is part of a group of companies consisting of Weyland GmbH and the company Jepsen Stahl GmbH.
SLC core business is to supply and processing of steel. Thanks to SLC their partner companies are able to satisfy all customer demands with maximum flexibility and short delivery time and to supply special length materials. At SLC all structural steel grades are processed up to the high strength steel materials. "**We are able to perfectly cut hot rolled steels up to 18 m length**" says Rupert Hartl, CEO of SLC.

The key factor for levelling ultra-high yield strength materials is **FIMI's patented TDDS® (Torque Dynamic Distribution System)**, which is based on the application of special slip couplings on each exit shaft of the drive unit distributor as connecting elements to the shafts which transmit the movement to the levelling rolls.

These results have been reached as they have invested in a levelling system for hot rolled sheets **design and manufacture by Fimi**.

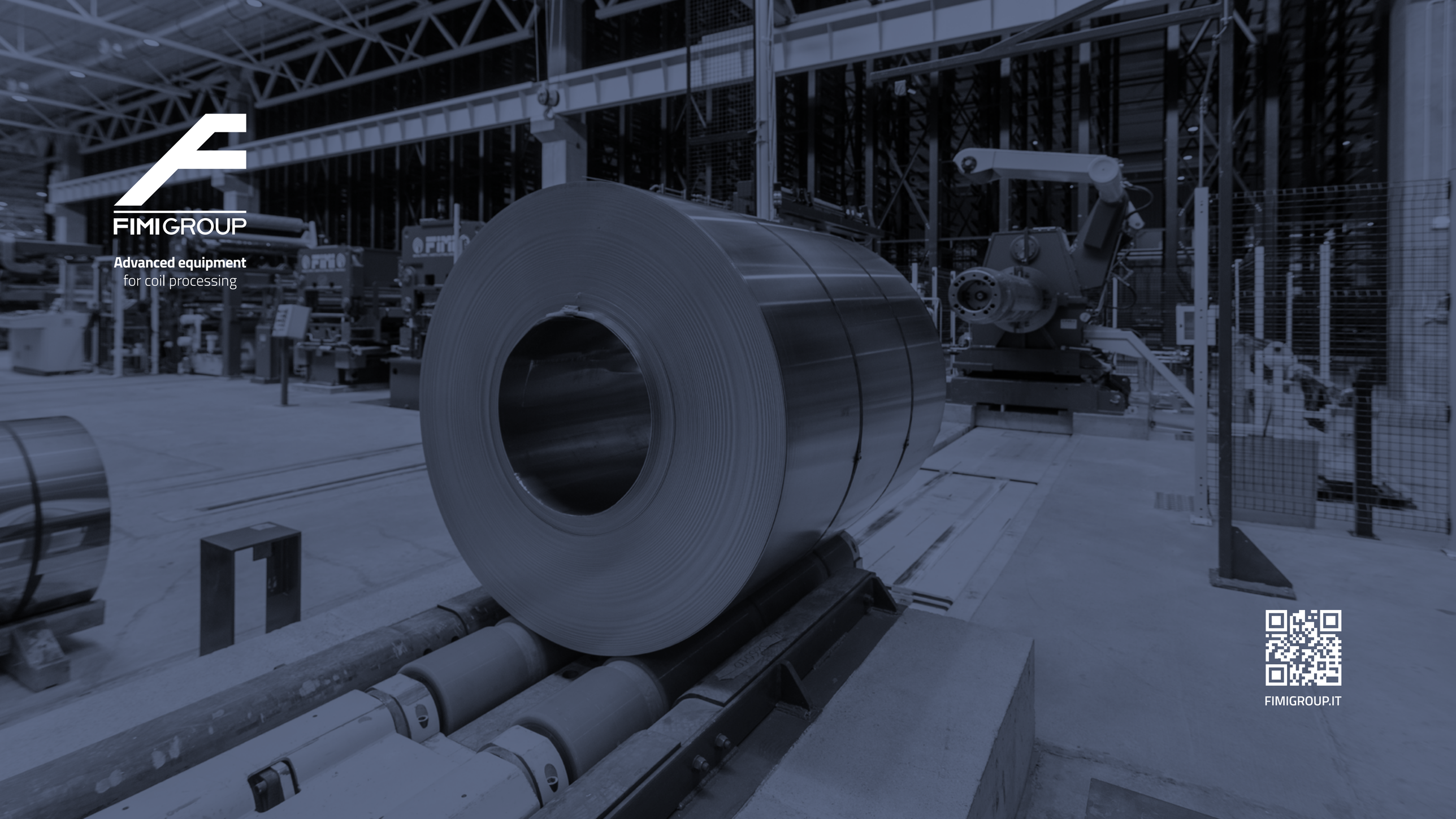
Otto Weyland Jun, Managing Director of Weyland GmbH, explains: "The special feature of **the system** is that the **given value of EN 10051 is reduced by 80%**".
Closest tolerances in the flatness and the length are guaranteed. "In addition, **the leveling quality** (material stress relieve) of the profile (cross cut) **of the metal sheet** up to 5 mm sheet thickness and > 1.200 mm width, **results significantly improved**.

Hartl adds: "Depending on the material requirements, we can combine one pre-leveler machine and two fine tuning levelers in cascade."

The fine-tuning leveling machines in use in Vienna, which have now been upgraded with an improved straighten rolls and load distribution system, are the **result of a continuous improvement process** and a **long-term cooperation between Fimi and SLC**, which has **existed between the two companies for a decade**.

In several steps, **Fimi plant was "upgraded"**, which was possible **through the closed circuit in the technological cooperation**. Development, test runs and monitoring were implemented in close cooperation.

From the customer's point of view, **great results in low tolerances, stress relieve, planarity and perfect surface quality have been reached**. The sheets meet the requirements of laser cutting machines.



FIMI GROUP

Advanced equipment
for coil processing

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