

SCHNUTZ

Company

Products

Automation

Service

References



YOUR EXPERT FOR:

LEVELLERS AND COIL FEEDING LINES

Company

- › History
- › Adding Value
- › Certification

Products

Automation

Service

References



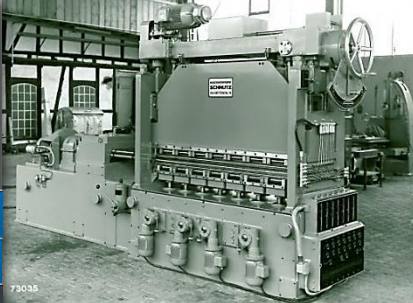
(Plant 1 Siegen)

Company

We support our customers around the world as specialists of leveling machines and coil feeding lines.

We are not only seeing ourselves as a supplier of plant and machinery, but also as Your System Partner in the field of sheet metal forming and processing. Based on our long experience of work in the field of sheet metal processing, we work with you to provide individual solutions for your problem.

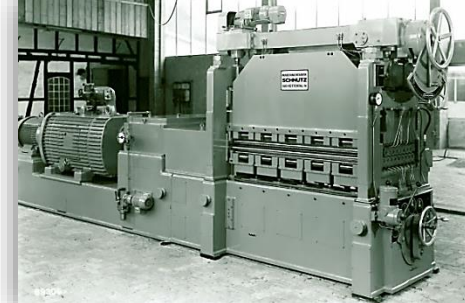
Our customers from all over the world appreciate the high technical standard and precision achieved with SCHNUTZ Levelers and installations.



(Richtmaschine)



(Querteilanlage)



(Richtmaschine)

History

- Company SCHNUTZ is a private owned medium sized company with some 60 employees.
- The roots of the company reach back to the year 1846 when a smith shop was founded by Martin Schnutz.
- With the beginning of sheet metal processing in the Siegerland region company SCHNUTZ started to design sheet metal processing machines.
- First levelers were built and delivered at the beginning of the 20th century.
- Today SCHNUTZ designs and builds levelers for international customers.
- Since 1970 SCHNUTZ has specialized in the development, design and manufacturing of Levellers for sheet, parts and strip.
- The last 60 years we have built over 450 levelling machines.
- 2014 Incorporated into the Burghardt + Schmidt Group

More than 160 years of SCHNUTZ - a story that grows.

Company

- › History
- › Added Value
- › Zertifizierung

Products

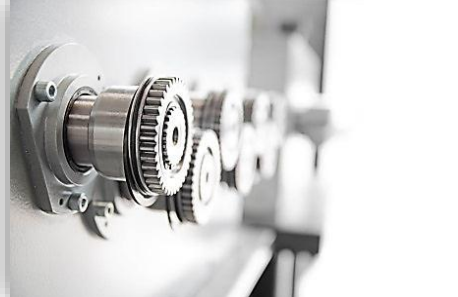
Automation

Service

References



(Leveller)



(Distribution gear box)



(3D- Leveller)

Added value

Due to our high added value we are able to consider individual customer requirements.

- Mechanical, hydraulic and electric design,
- FEM calculation,
- Automation,
- Mechanical processing and welding,
- Quality assurance,
- Commissioning
- Maintenance & Repairs
- Modifications & Retro-Fit
- Instruction

- › Levellers
- › Coil Feeding Lines
- › Special Machinery



(Leveller)



(Coil Feeding Line)



(Calibrating Machine)

Products

SCHNUTZ is a specialist of high capacity levellers. SCHNUTZ has designed and built levellers since more than 100 years. In recent decades, both the requirements for sheet metal products as well as the material properties are constantly evolving.

- › Levellers
- › Coil Feeding Lines
- › Special Machinery



(Levellers for High-Tensile Steels)



(Levellers for Stainless Steels)



(Levellers for Perforated Sheets)

Levellers

Whether it's a strip, sheets or parts levelling machine, the flatness and the residual stress state of the plate is always a crucial quality criterion! The levelling machine therefore always represents the heart of the production process.

Through the ongoing development, we have adjusted our levellers not just only to meet these requirements, but also to set new standards in the levelling technique. Our levellers are used in many different areas.



(Levellers for Perforated Sheets)

Levellers for Perforated Sheets



Technical Data:

Sheet Thickness	0,4	-	2	mm
Sheet Width	400	-	1600	mm
Elastic Limit		-	320	N/mm ²
Levelling Speed		-	25	m/min



Technical Data:

Sheet Thickness	0,5	-	3	mm
Sheet Width	400	-	1600	mm
Elastic Limit		-	300	N/mm ²
Levelling Speed		-	20	m/min

- › Levellers
- › Coil Feeding Lines
- › Special Machinery



(Levellers for Cut to Length Lines)

Levellers for Hot Rolled Steel



Technical Data:

Strip Thickness	5	-	18	mm
Strip Width	400	-	1800	mm
Elastic Limit		-	650	N/mm ²
Strip Speed		-	2	m/min



Technical Data:

Strip Thickness	4	-	20	mm
Strip Width	500	-	1700	mm
Elastic Limit		-	600	N/mm ²
Strip Speed		-	35	m/min

- > Levellers
- > Coil Feeding Lines
- > Special Machinery



(Pull – Through Levellers)

Pull – Through Levellers



Technical Data:

Strip Thickness	0,1	-	0,5	mm
Strip Width	400	-	1250	mm
Elastic Limit		-	300	N/mm ²
Strip Speed		-	140	m/min



Technical Data:

Strip Thickness	0,1	-	0,5	mm
Strip Width	400	-	1500	mm
Elastic Limit		-	300	N/mm ²
Strip Speed		-	90	m/min

- › Levellers
- › Coil Feeding Lines
- › Special Machinery



(Levellers for High-Tensile Steels)

Levellers for High-Tensile Steels



Technical Data:

Strip Thickness	0,5	-	4	mm
Strip Width	400	-	2000	mm
Elastic Limit		-	900	N/mm ²
Strip Speed		-	100	m/min



Technical Data:

Strip Thickness	0,5	-	3,5	mm
Strip Width	400	-	2000	mm
Elastic Limit		-	900	N/mm ²
Strip Speed		-	70	m/min



(Levellers for High-Tensile Steels)

Levellers for Coil Feeding Lines



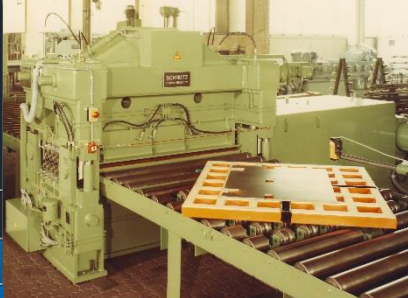
Technical Data:

Strip Thickness	0,6	-	3,7	mm
Strip Width	400	-	2000	mm
Elastic Limit		-	300	N/mm ²
Strip Speed		-	40	m/min



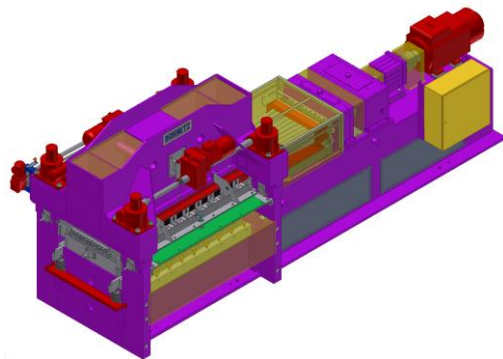
Technical Data:

Strip Thickness	1,8	-	12	mm
Strip Width	500	-	1600	mm
Elastic Limit		-	750	N/mm ²
Strip Speed		-	50	m/min



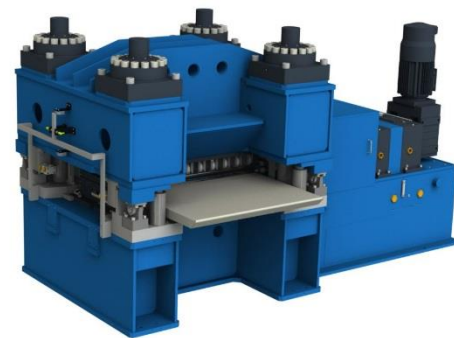
(SCHNUTZ Teilerichtmaschinen)

SCHNUTZ Part Leveller



Technical Data:

Part Thickness	1,5	-	3	mm
Part Width		-	1600	mm
Elastic Limit	600	-	1100	N/mm ²
Part Speed		-	20	m/min



Technical Data:

Part Thickness	0,8	-	8	mm
Part Width		-	1250	mm
Elastic Limit		-	900	N/mm ²
Part Speed		-	10	m/min



(Levellers with SCHNUTZ Multi-Drive-System)

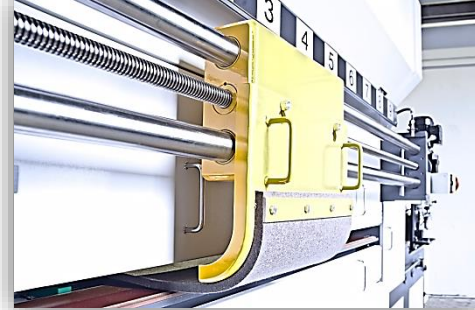
SCHNUTZ Multi-Drive-System

Levelling high tensile material in high speed coil lines needs special solutions.

With the SCHNUTZ Multi-Drive-System the rotary speed of the levelling rolls can be individually adapted to the strip speed.

The main benefits are:

- Less power and torque needed
- Monitoring of actual torque
- Smooth handling of strips
- Extended life-time of levelling rolls
- Redundancy



(Accessories)

Accessories

As a specialist for leveling machines and strip feeding lines, we offer accessories, which make the usage of your plant and machinery more efficient.



(Levelling roll cleaning device)

Levelling roll cleaning device

Only clean levelling rolls can guarantee the gentle treatment of sensitive strip and sheet metal surfaces. That is why we developed an automatic cleaning device some decades ago.

This levelling roll cleaning device carries out a fully automatic cleaning of the levelling rolls. Since the set of rolls do not have to be removed from the machine, downtime is reduced to a minimum.



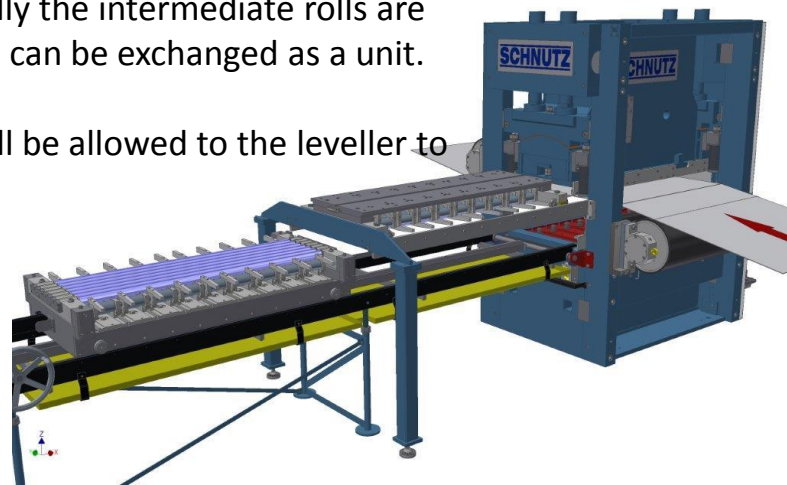
(Cassette Change Systems)

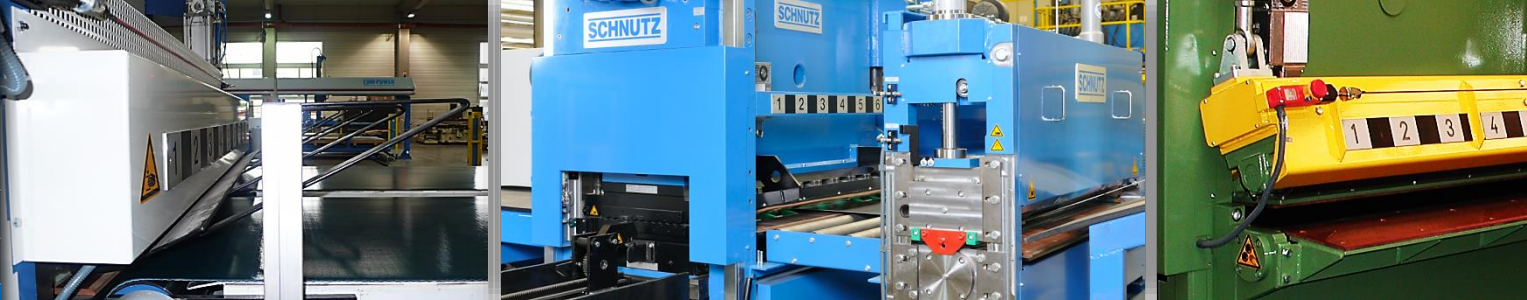
Levelling Roll Cassette Change Systems

Levelling rolls, back-up rolls and optionally the intermediate rolls are incorporated in a cassette. The cassettes can be exchanged as a unit.

With the help of different cassettes it will be allowed to the leveller to be adapted to different materials.

These systems reduce the change and shutdown times to a minimum. We offer customized solutions for your specific requirements and space conditions.

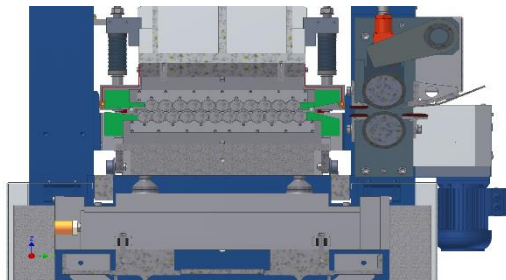




(Pinch Rolls)

Pinch Rolls

The pinch rolls unit is used to improve the insertion process of strips or sheets. The pinch rolls facilitates a slip-free conveyance of the material. This is a great advantage especially with oiled material.





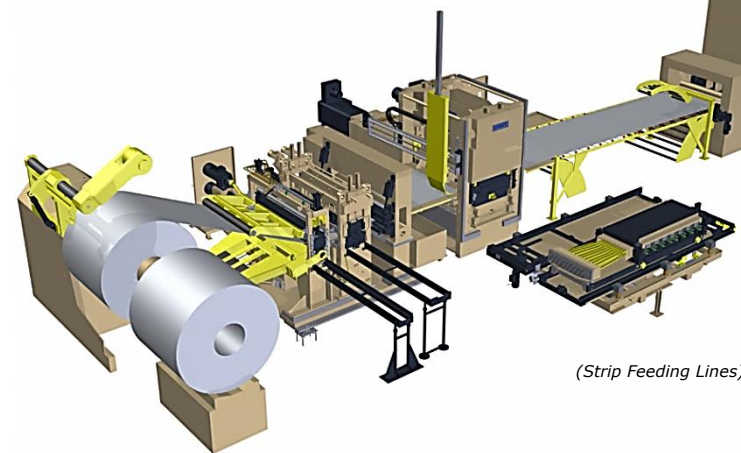
(Coil Feeding Lines)

Coil Feeding Lines

Most levelers are integrated into strip feeding lines systems. The performance of the leveler contributes greatly to the quality of the final product. Of course, all other system components must be coordinated.

Already in the planning phase, we provide our decades of expertise in the field of forming technology available to our customers, so that the overall system is optimally adapted to the respective needs.

We offer customized solutions for your problems.



(Strip Feeding Lines)

Strip Feeding Lines

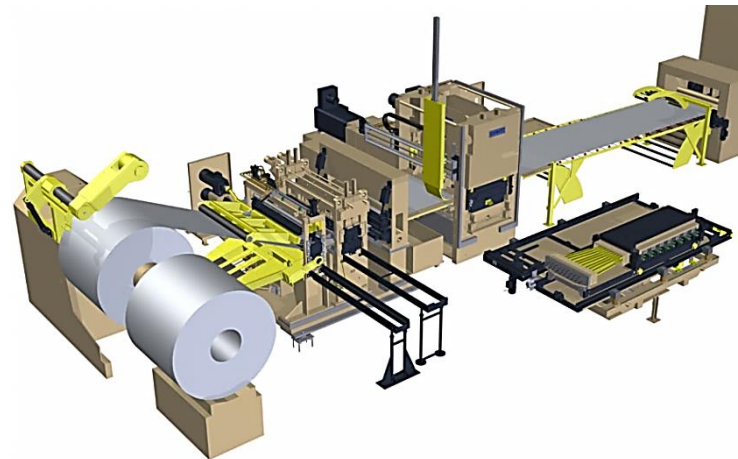
Whether it is about presses, parts, welding or reshaping we deliver tailored strip feeding lines.

Beginning with the acquisition of the coil to roll feed, we offer complete solutions from a single source. One of our specialities is highly resistant materials, for example, for the automotive industry.



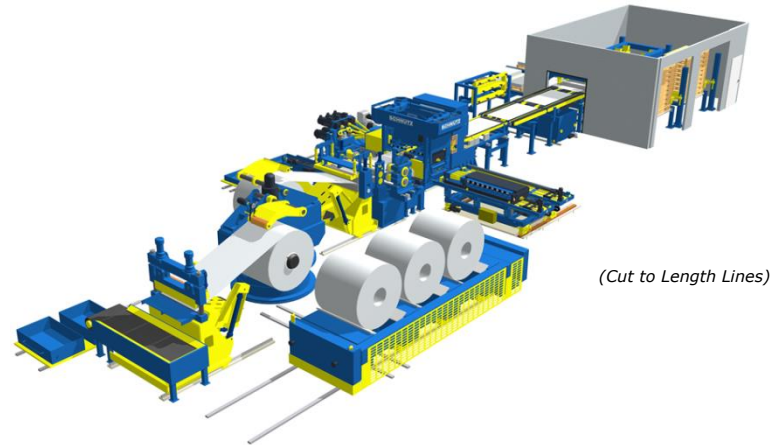
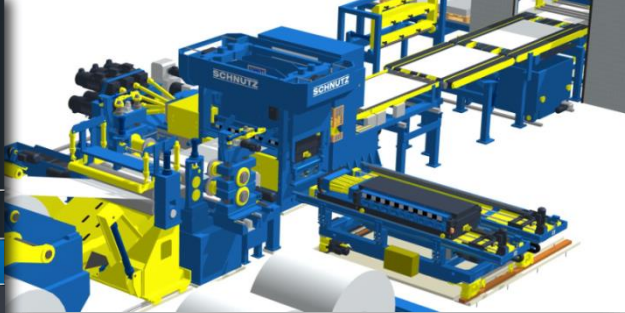
(Strip Feeding Lines)

Strip Feeding Line



Technical Data:

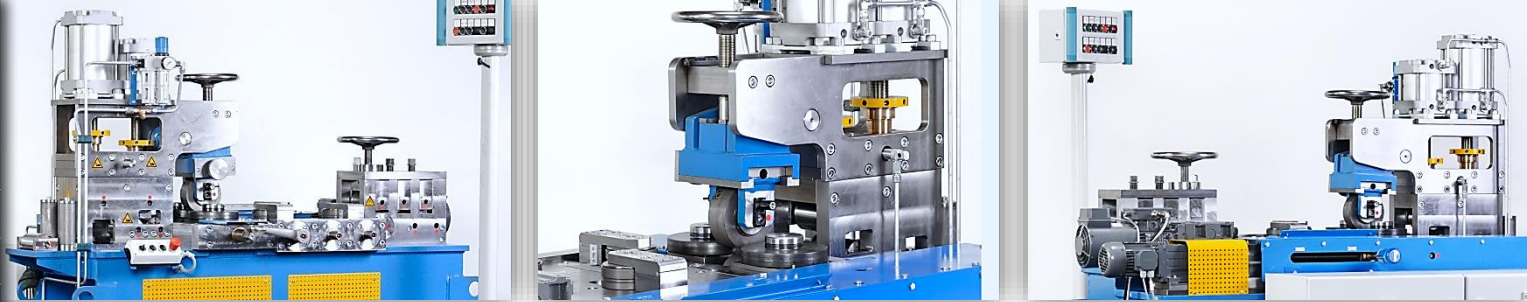
Strip Thickness	0,5	-	3	mm
Strip Width	500	-	1600	mm
Elastic Limit		-	1000	N/mm ²
Strip Speed		-	90	m/min



Cut to Length Lines

In contrast to a strip feeding line, a cut to length line includes a cross-cutting shears and the stacking device for the metal sheets.

With regard to the long term viability the customization to the needs of the customer is very important.

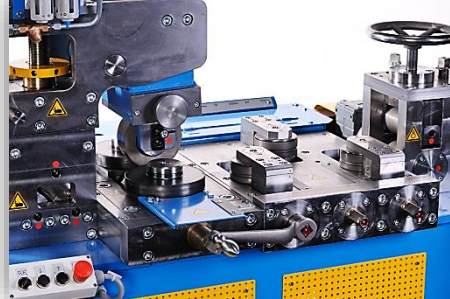


(Calibrating Machine)

Special Machines

With years of experience in engineering we design and produce special machines for our customers.

Of course, the individual wishes of the customer are taken into account. .



(Calibrating Machine)

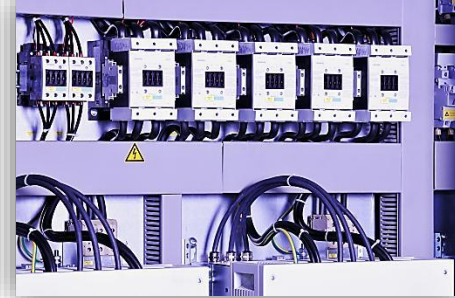
Product Example: Calibrating Machine

The calibration leveler machine is used to calibrate and straighten normal annealed flat iron.



Technical Data:

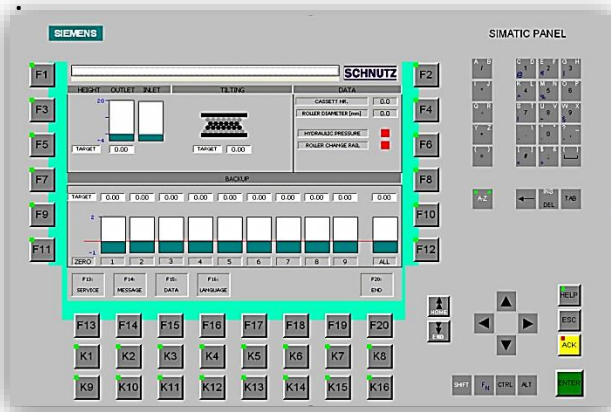
Thickness	5	-	12	mm
Width	10	-	115	mm
Elastic Limit		-	400	N/mm ²
Speed		-	7	m/min

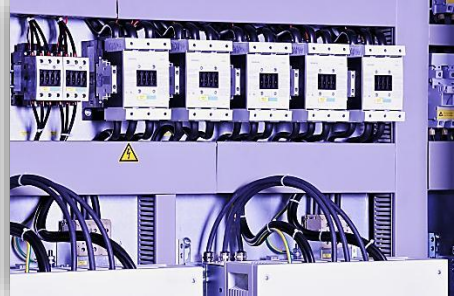


(Automation)

Automation

The concept of the SCHNUTZ automation combines a comfortable user interface with a modular and maintenance-friendly design.

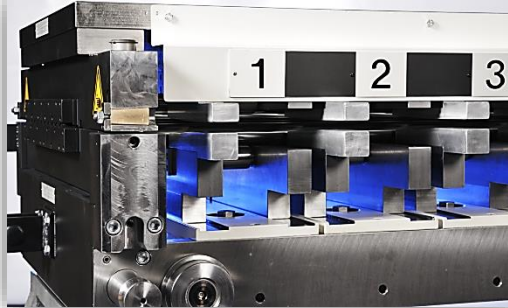
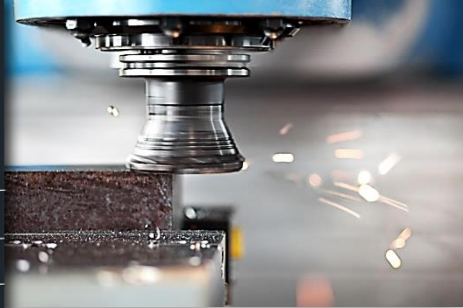




(Automation)

Automation

- The optimal settings of the leveler can be stored, e.g. under a batch number and displayed again when required.
- The visualization is carried out by Siemens touch panels with corresponding menus.
- Synoptik for the cassette change.
- The automation is based on a modern PLC (preferable Siemens S7, other suppliers are optional)
- Different screen menus provide the operator with all necessary information for normal operation and service or maintenance.
- The operator can use the Teach-In Mode with the parameter input.
- The HMI is a modern control desk. The main adjustments (height, tilting and adjustment of lower back-ups) can be carried out via joysticks or alternatively via a touch-screen



(Service)

Service

DerService is a matter of course for us.
We always offer our customers our full support.

[Do you need spare parts?](#)

We deliver quickly and reliably.

[Does your machine need a service or does it have to be repaired?](#)

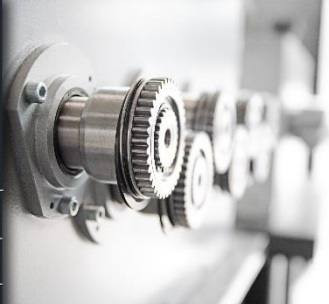
The competence of SCHNUTZ service technicians is at your disposal.

[Do you want to rebuild or modernise your old machine?](#)

The lifelong care and modernisation of our machinery is no problem for us.

[Do your employees need training?](#)

Whether at your plant or our technical centre - we can share our know-how with your employees.

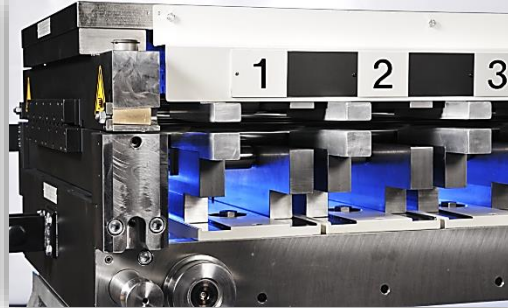
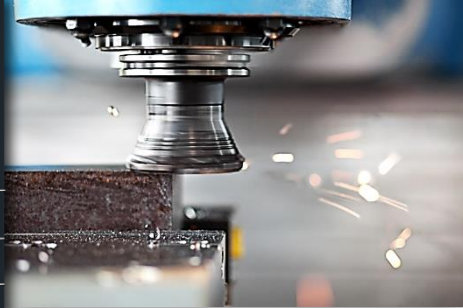


(Service)

Spare Parts

We manufacture replacement parts such as back-up and levelling rolls on our own machines to ensure high product quality and a flexible response to spontaneous requests for replacement parts.





(Service)

Spare Parts

We offer professional turned, milled and ground spare parts.



Lathing / Grinding

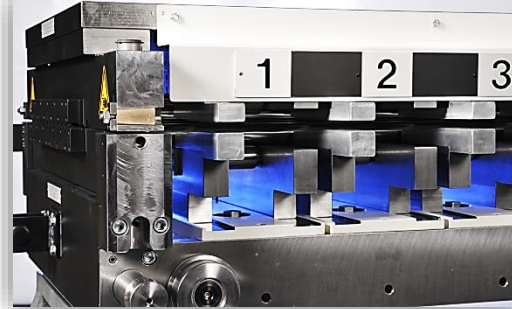
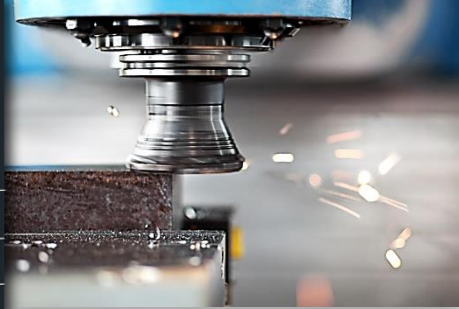
- Diameter up to 400 mm
- Length up to 4000 mm
- True running accuracy 0,01 mm
- Surface roughness $R_z = 1 \mu\text{m}$



Hardened and ground surfaces
(coated on request)

Milling

- X up to 3500 mm
- Y up to 2000 mm
- Z up to 1500 mm
- Repeat accuracy 0,01 mm



(Service)

Maintenance & Repairs

A team of highly trained service technicians is available for maintenance and repair work on our machines and lines in your factory.

In addition, we offer you our maintenance and repair services in our specially equipped service workshop for your roll cassettes or roll sets.

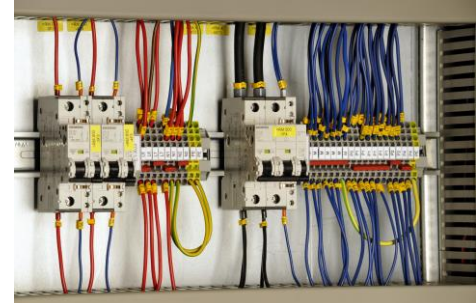


(Service)

Maintenance & Repairs

- Cassette and roll set dismounting
- Professional cleaning
- Detailed Inspection
- Professional installation and adjustment
- Roll renewal or roll grinding
- Bearing renewal
- Repair at site
- Individual quotation





(Service)

Modification & Retro-Fit

You quite rightly expect our machines and plants to work reliably for a long period of time. However, ever-changing requirements in the market and technological developments necessitate some adjustments.

Our professionals will make your existing plants fit for the future, no matter whether it is reconstructing the mechanics or upgrading the automation.



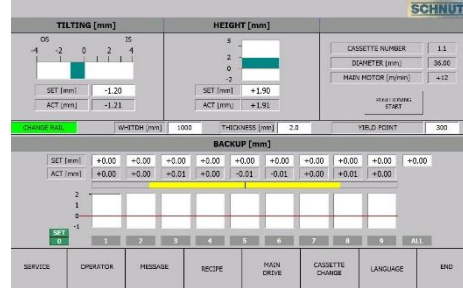
(Training)

Schooling

Only qualified personnel can attain the optimum productivity and efficiency of a leveller or strip line.

As a specialist in levelling technology, we share our expertise with our customers in training seminars.

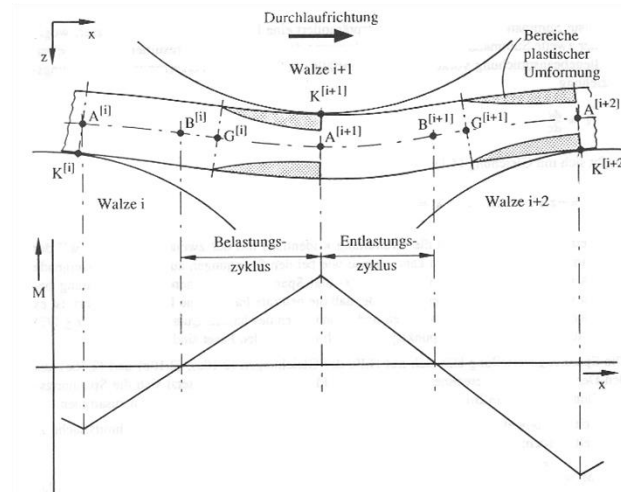
- Theoretical and practical training in "levelling technology" at the customer's factory
- Theoretical and practical training in "levelling technology" in our technical centre
- Individual consultation



(Training)

Schooling Levelling Technology - Theoretical

- Basics of Materials and Forming
- Basics of Levelling Technology
- Modules and Functions of Levellers
- Active Principles of Levellers





Referenzen

SCHNUTZ levelers are used in many different areas:

- Steel and aluminium - Service Centre
- Steel and aluminium – Mills
- Non-ferrous metal industry
- Perforated metal industry
- Automotive industry and suppliers
- Pipe mills
- White goods

Additional references and information you will find on our website:
www.schnutz.com





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SCHNUTZ



MANY THANKS FOR
YOUR KIND ATTENTION!

