



*cutting edge technology
for challenges in sawing*



PRINZ chainsaw technology: meeting the challenges in sawing

As a leading Austrian company in chainsaw technology, PRINZ has been developing and producing crosscut saws, accessories and wearing parts for professional use since 1947.

All from the one source.

As the sole complete supplier in the chainsaw business, PRINZ recognises the needs of its customers and guarantees individual solutions for all areas of chainsaw technology. PRINZ does not just supply the machines and the relevant accessories, but also cutting equipments for all chainsaw manufacturers – all from the one source in the familiar high PRINZ quality, because customer satisfaction is paramount.

Not just wood.

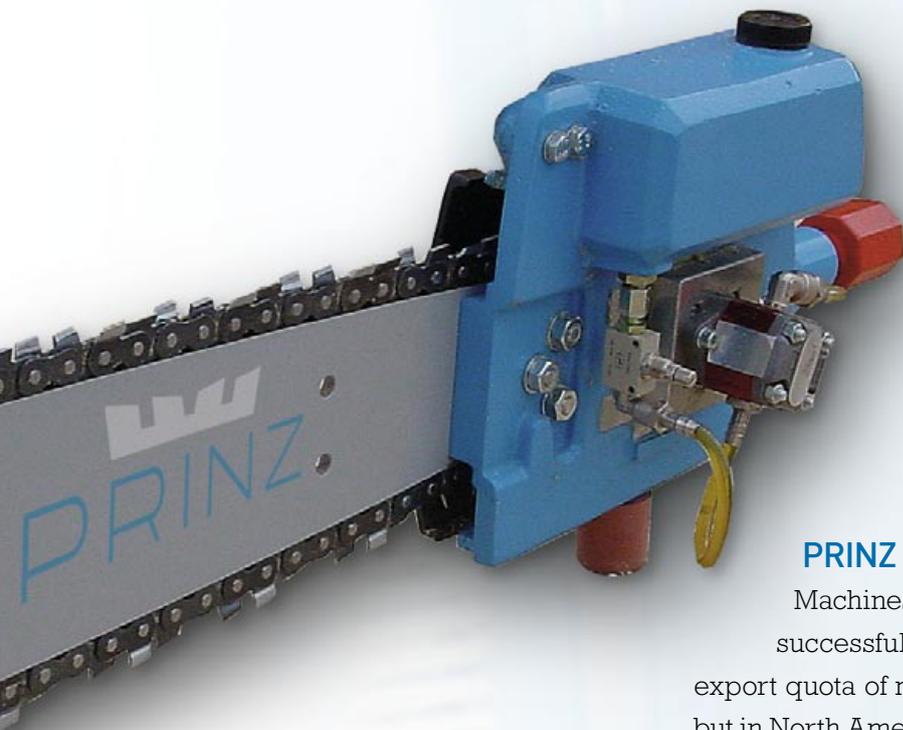
Machine saws from PRINZ cut far more than just wood. Paper, soft stone, gypsum plates or brickwork – the robust and durable PRINZ chainsaw technology is a real must for materials that demand much of the machines and their wearing parts.

PRINZ international.

Machines and accessories made by PRINZ are sold successfully throughout the world. PRINZ endorses an export quota of more than 90%. Not just throughout Europe, but in North America, Africa and Asia as well, there are satisfied customers happy to use the products of PRINZ chainsaw technology.

The future comes from experience.

The remarkable features of PRINZ chainsaw technology products come from more than 60 years of knowledge and experience. PRINZ has its customer-oriented corporate strategy and the high quality of its products and staff to thank for this success. Because the philosophy of "cooperation" not only encourages the personal motivation of each individual, it also creates team spirit, which is most important for customer satisfaction and for the innovative strength of the company.



Research & Development creating a technological advantage

A key area of the corporate strategy at PRINZ is the continuing development of all products, as well as basic research in sawing technology. Investment in new developments and also in the context of national and international research cooperations, is to the benefit of every customer.

Innovation through cooperation.

The “increasing productivity for machine cutting” project was initiated in collaboration with the Vienna University of Technology. Various chain types and materials were tested under different operating conditions. The aim was to improve the quality of the cut and to increase endurance. The knowledge gained was immediately included in production.

Optimisation as an aim.

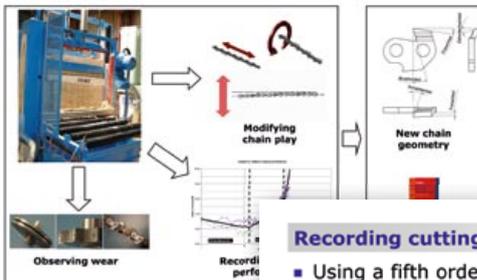
In cooperation with the AC²T research institute, PRINZ was able to vastly improve saw-chain endurance.

The focus is on the customer.

Through intensive customer contact, we work together to devise individual solutions to meet our customers' requirements.

Vienna University of Technology
Institute for Production Engineering
Production technology lab
**Increasing productivity for
machine cutting**
Project: “Chainsaws”

Trial cuts

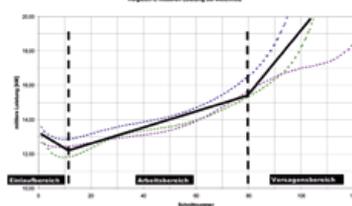


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Recording cutting performance

- Using a fifth order polynomial function for the analytical acquisition of curve characteristics

$$y = k_5 * x^5 + k_4 * x^4 + k_3 * x^3 + k_2 * x^2 + k_1 * x + k_0$$

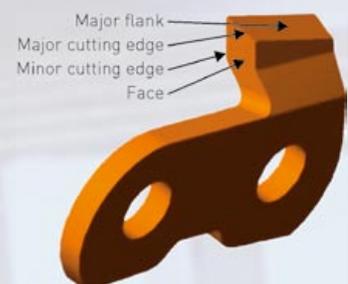


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Individual tooth geometry and relevant material for each material to be sawed.

In the “increasing productivity for machine cutting” project, the optimum geometry of the saw tooth was determined, in relation to the material to be sawed. As a result of this innovation, chainsaws can run more quietly, the quality of the cut is improved and there is a considerable increase in endurance throughout the machine.



State-of-the-art production & logistics for customer satisfaction worldwide

Right from the start, all our products are developed and produced at Loosdorf in Austria. The high level of in-house production enables PRINZ to react quickly to new market trends and be flexible in considering the wants of individual customers.

High-quality production for quality assurance.

PRINZ regularly invests in new production facilities.

- ▶ an automatic welding plant
- ▶ flexible production of all chain lengths, sizes and types
- ▶ heavy-duty abrasives for sharpening the saw chains

To further improve the robustness and durability of the PRINZ products, we place great importance on quality control. After every stage in the process, examination is prescribed to check for conformance with the tolerance values.



Fully-automatic grinders maintain a consistent quality of cut.

The new automatic saw chain grinder developed in collaboration with the Vienna University of Technology keeps production at a consistently high level. The previous manufacturing tolerances have again been bettered and capacities increased, so that we can react more quickly and above all automatically to customer queries. This grinder is used for the production of all chain lengths, sizes and types.



The supplier as a factor for success.

The high quality of the services and products supplied is the first stage in customer satisfaction. So quality assurance also includes applying strict, set criteria to the selection of our suppliers.

Contacts throughout the world.

To meet customer demand for quality and personal service even outside Austria, PRINZ dealers worldwide are given regular training and are supported by their own field service team.



Saws and more: chains, machines & accessories

PRINZ chainsaw technology regularly extends the product range and now provides its customers with "anything to do with chainsaws".

The comprehensive delivery programme can be customised to meet individual customer requirements and is readily available.



PC-120: the optimum solution for sawmills and pallet works.

- ▶ stationary packsaws with individual conveyor lengths for cross-cutting packs of sawn timber
- ▶ precision guidance on both sides for ± 1 mm cutting accuracy
- ▶ pneumatic pressure pads for holding down the packs
- ▶ attachments that can be integrated at any time

Accurate and efficient sawing with PRINZ MOBILCUT.

- ▶ precise cross-cutting of packs of sawn timber up to 6m in length
- ▶ solid construction for a long service life
- ▶ manual or hydraulic advance options
- ▶ length measurement, saw kerf opening and residual wood conveyor options



Economical cutting of packs and round timber with PRINZ TKSFL.

- ▶ highly accurate cutting with two stabilisers
- ▶ wide front end stop for accurate saw alignment
- ▶ easy chain replacement with quick tensioning device
- ▶ guide bar lengths up to 200cm

Highly accurate cutting with PRINZ technology.

- ▶ cutting equipments for all brands of cross-cut saw
- ▶ scraper and chipper saw chains, also carbide tipped
- ▶ guide bars up to 250cm length of cut and stellite plating
- ▶ sprockets and pulleys for all chain types
- ▶ relevant accessories: guide bar rectifiers, sharpening machines and much more



These companies already work with PRINZ quality.

 STORA ENSO, Lithuania: PC120

 PÖLKKY OY, Finland: PC120

 GERHARD SA, France: Cutstar

 KONRAD BRUNNER, Austria: PC120

 KOHLBACHER, Austria: PC120



Where to find PRINZ chainsaw technology



PRINZ chainsaw technology is also to be found in North America, Africa and Asia.

