



BNP 100

Machine for automatic profile sharpening of band saw blades controlled with 2 CNC axes in wet grinding with new operating concept and servo drives to achieve excellence in the sharpening room

ISELI – Worldwide expertise in sharpening machines

ISELI, in the Swiss town of Schötz, has combined tradition and creativity for over 70 years in the field of sharpening technology for band, gang and circular saw blades for wood, aluminum, plastic and metal. In constant dialog with the customers and thanks to the team of competent and committed employees, its sharpening machines and complex systems have set worldwide standards. Innovative mechanical engineering and effective system technology ensure the highest customer satisfaction.

Swiss quality by tradition

Customer orientation and expertise from the very beginning! ISELI is today one of the leading suppliers of sharpening machines and systems for sawmills, saw producers and saw service companies that place the highest demands on efficiency and cost-effectiveness.

ISELI system technology is convincing thanks to its maximum operating convenience, flexibility in the applications as well as to adaptation to customer requirements. Its outstanding quality makes ISELI sharpening machines a future-proof investment.

Together ahead of the competition

As a customer, you benefit on one hand from our fair, partnership-based cooperation and on the other from our continuous development of the machining and sharpening processes. An additional advantage is the intelligent optimization in process and product handling.

We are system solvers

As a specialist in sharpening technology, we develop modern, future-oriented system solutions and machine concatenations.

We bring the automation of the sharpening processes and the optimization of the handling to „INDUSTRY 4.0“ cost-efficient harmonization.

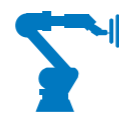
Our core competences



Machining and sharpening solutions for band and gang saws

We offer our customers the world's largest selection of specialized and combined processing and sharpening machines:

- Profile grinding • Side grinding
- Straightening / tensioning
- Measuring / marking
- Tipping / Swaging • Welding

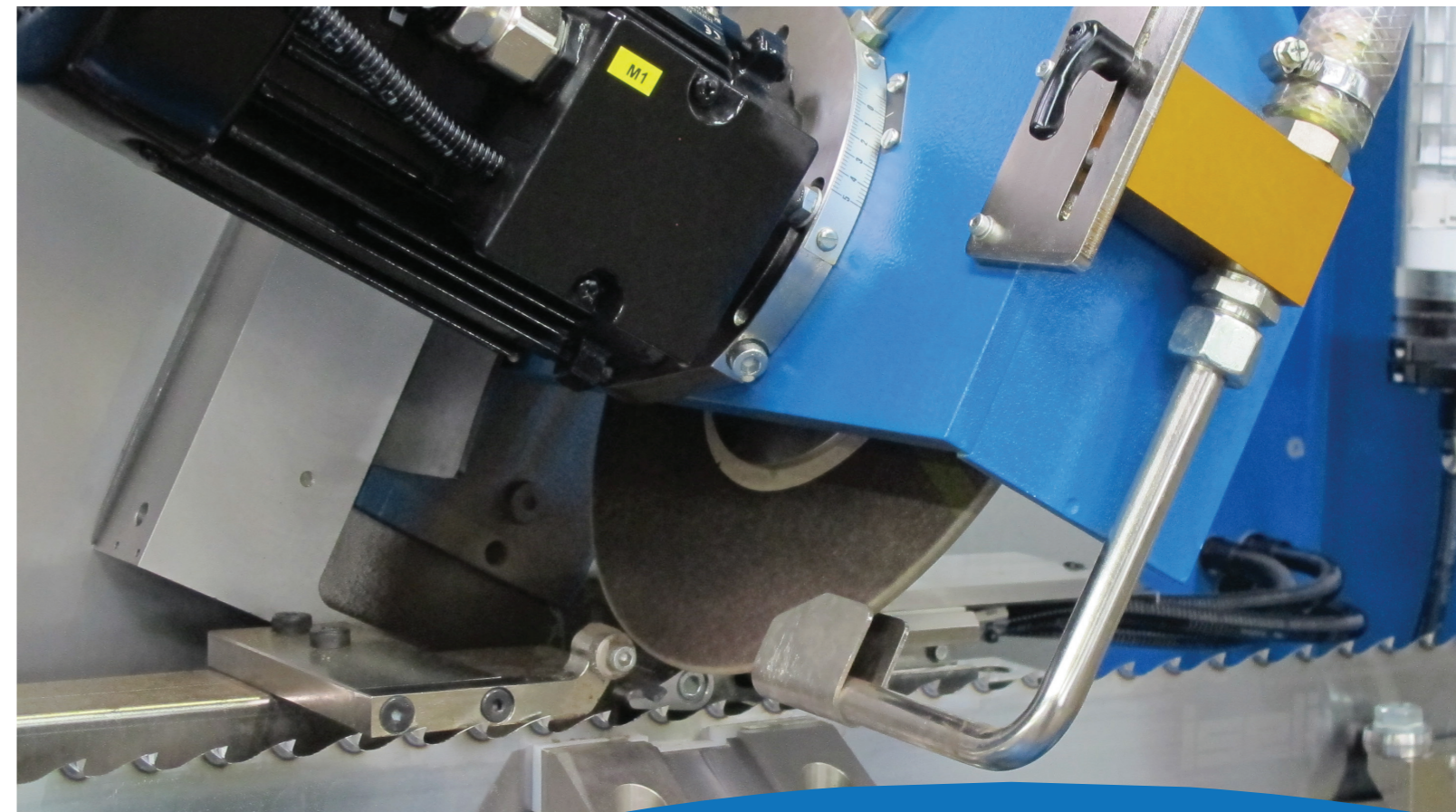


Sharpening and handling solutions for Carbide / HSS circular saw blades

Space-saving compact machine design, clear and simple operation, economical energy consumption as well as flexibility in machining are the essential features of our machine series for the treatment of:

- Hook and side angles (HM)
- Side angles (HM)
- Geometry and profile (HSS)
- Automation / Handling
- Repair / Brazing

Technische Änderungen vorbehalten.



Specifications

Basic information:

Tooth pitch	10 – 100 mm
Tooth height	max. 30 mm
Front rake angle	0° - 35°
Tooth shapes	programmable

Grinding wheel:

Bore diameter	32 mm
Outer diameter bakelite	350 mm
Peripheral speed	programmable

Band saw blades:

Blade width (Standard)	75 - 360 mm
Blade width (Optional)	30 - 360 mm
Blade length (Standard)	from 5'600 mm
Blade length (Standard)	from 4'000 mm

Power requirements:

Standard Voltage	400 V 3 Ph. N
Connected load	4.2 kVA

Air supply:

Compressed air supply	6 bar
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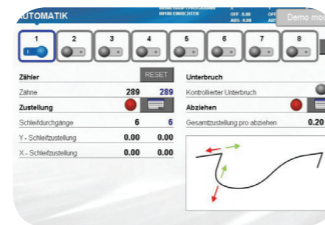
Shipping information:

Dimension of packing	230 x 170 x 200
Net weight	approx. 1250 kg
Gross weight	approx. 1550 kg

Subject to alteration in design for technical advancement.

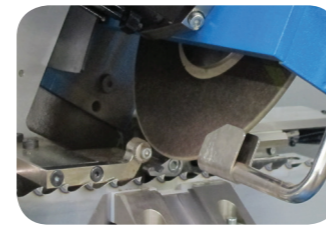
Special executions on request.

Certificate ISO 9001



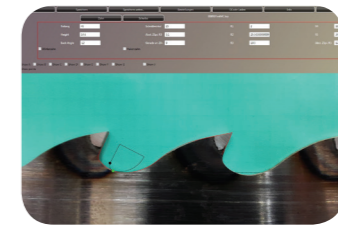
New HMI by touch screen

ISELI relies on the latest technology. The 12.1-inch touch-screen provides maximum operator comfort. The integrated remote maintenance access, as well as the active user management round off the features.



CNC dressing device

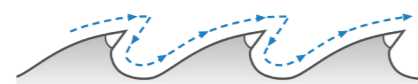
With the optional dressing device, the entire grinding wheel profile can be programmed. This ensures higher profile stability for the tooth shape and reduces grinding times considerably.



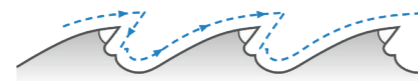
Tooth Shape Studio 3.0

With the newly developed software for the design of different tooth shapes, these can be easily, quickly and intuitively designed.

Grinding programmes



Grinding programme for standard tootinging



Grinding programme for winter tootinging



Grinding programme for vario tootinging

ISELI designed grinding machines and solutions fulfil the requirements for the highest precision.

The profil grinding machine of type BNP 100 impresses in daily use. The machine is very easy to operate and has an excellent accessibility. Thanks to continuous development, the machine impresses with their durability and extreme precision.

The synergy of advanced electronics coupled with proven, durable components and the usual quality of ISELI guarantees high functionality and excellent cost-performance ratio.

The most important features

- **High-quality, robust and state-of-the-art designed sharpening machine in wet grinding versions.**
- **BNP 100 standard equipment includes a powerful industrial computer, a touch system and servo drives.**
- **Remote maintenance and remote diagnosis are possible without any problems via LAN / WLAN connection.**
- A controlled dressing device is optionally available for programming the grinding-wheel profile.
- With the tooth shape program (Tooth Shape Studio 3.0) individual tooth shapes can be programmed, stored, and transferred to the machine..
- 99,999 different tooth shapes can be stored and recalled.
- Through the use of linear roller guides a stronger machine construction is achieved with increased service life and accuracy of the machine.
- The machining area is separated from the working space. Few moving parts also increase the ease of maintenance and the durability of the machine.
- Large state-of-the-art color touchscreen. User-friendly and easy machine operation is therefore absolutely guaranteed.
- The grinding wheel peripheral speed can be adjusted. To this purpose a high-quality frequency converter is installed.
- In designing the machine great value was placed on simple and easy operation. This means short programming times and flexible deployment of operating personnel at short notice.
- The full cladding ensures the best possible protection for the operators. Noise is greatly reduced and safety increased.
- The grinding wheel diameter of 350 mm provides a great durability and shape retention.