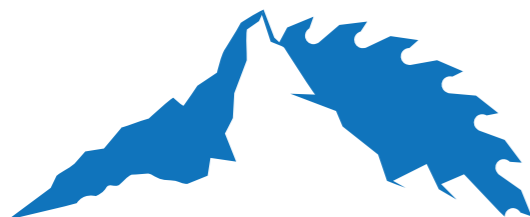


BNP 100

With common goals together on top

Tool grinding lies at the heart of the economic viability of modern grinding shops and Today's saw-mills. Grinding shops and saw blade manufacturers expect reliability and the highest quality when undertaking saw blade maintenance.

Due to the high flexibility, our expert team is always in a position to meet with the current requirements. Customer focus is not only written, it is lived daily. With the philosophy „together on top“ ISEL I wants to realize common goals with the customers.



The system engineering of our products results in the highest functionality and ease of maintenance. Custom-tailored requirements are mostly realized. ISEL I consistently relies on the latest technologies and long-life components – of course, the maintenance and repair costs are kept as low as possible. Quality that pays off!

To support a smooth work at our customers, we at ISEL I offer an excellent after-sale service and can supply 95% of original spare-parts from stock.

Precision, economic viability and innovation

ISEL I is one of the leading providers in the processing of band, gang and circular saws. The ISEL I team in Schötz produces all machines in Switzerland and guarantees a high technical know-how with experience for more than 70 years.



Technologies for band saws

The worldwide largest selection for the processing of band saws. From automatic machines up to 6-axes-driven machines, ISEL I leaves nothing to be desired.



Technologies for circular saws

ISEL I offers innovative, highly accurate and customer-oriented solutions in the diverse fields of wood, aluminum, plastic and metal applications. With the world's first fully automatic circular saw sharpening machine, which performs all grinding processes in a single operation and includes an automatic loading system with industrial robot, ISEL I shows its innovation power.

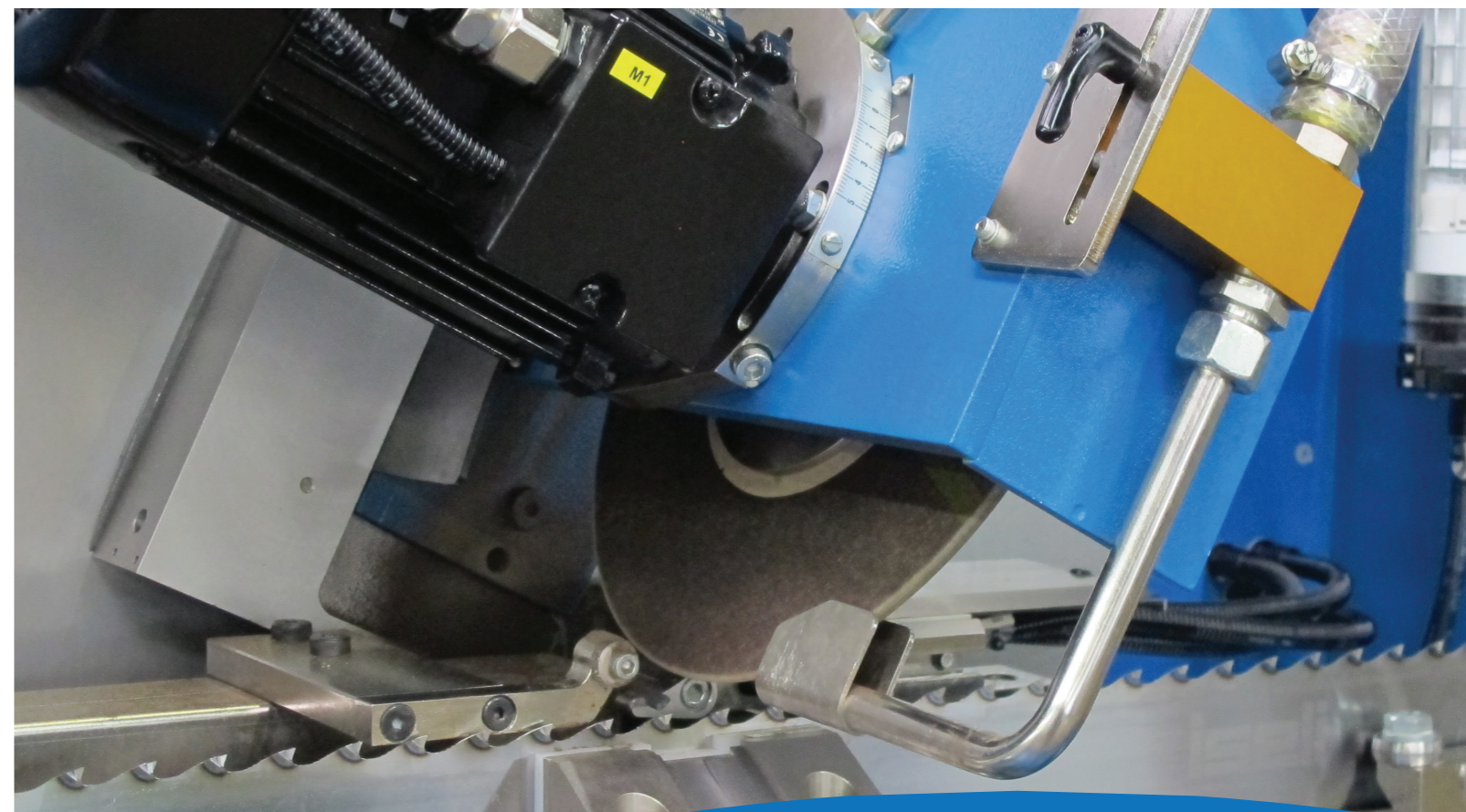


Technologies for gang saws

ISEL I started a new trend with the gang saw machine type of GS4. Optimize your business processes with new services!

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



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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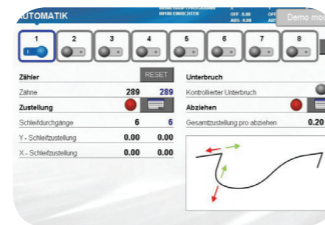
Shipping information:

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.

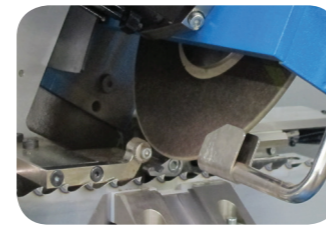
Special executions on request.

Certificate ISO 9001



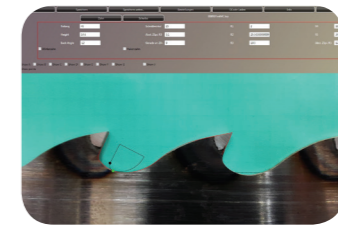
New HMI by touch screen

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

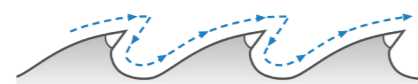
With the optional dressing device, the entire grinding wheel profile can be programmed. This ensures higher profile stability for the tooth shape and reduces grinding times considerably.



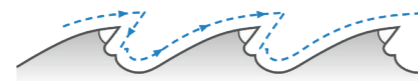
Tooth Shape Studio 3.0

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 toothing



Grinding programme for winter toothing



Grinding programme for vario toothing

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.