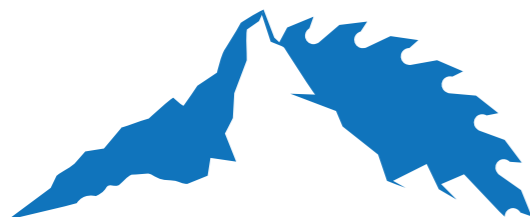


RZ1

With common goals together on top

Tool grinding lies at the heart of the economic viability of modern grinding shops and Today's sawmills. 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“ ISELI 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. ISELI 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 ISELI offer an excellent after-sale service and can supply 95% of original spare-parts from stock.

Precision, economic viability and innovation

ISELI is one of the leading providers in the processing of band, gang and circular saws. The ISELI 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, ISELI leaves nothing to be desired.



Technologies for circular saws

ISELI sets new standards for carbide-tipped circular saws with the world's first fully automatic circular saw sharpening machine, which does all grinding processes (face, back, chip breaker and flanks) in one only operation.



Technologies for gang saws

In 2012, ISELI started a new trend with the gang saw machine type of GS4. Optimize your business processes with new services!

With annual innovations and developments ISELI pursues ambitious targets.

RZ1

Fully automatic CNC controlled levelling and tensioning center for band saws for the most consistent and accurate maintenance of benching saw blades.



Specifications

Basic information:

Working speed ** 15 m / min.

Band saws:

Blade width (Standard) 70 - 210 mm
 Blade width (Optional) up to 360 mm
 Blade width (Optional) from 50 mm
 Blade thickness 0.8 - 2.0 mm
 Blade length from 5'300 mm

Power requirements:

Standard Voltage 400 V 3 Ph. N
 Connected load 5.0 kVA

Air supply:

Compressed air supply 6 bar

Shipping informations:

Dimension of packing 240 x 210 x 230
 Net weight approx. 2'450 kg
 Gross weight approx. 2'850 kg

Training / References:

Reference visits (worldwide) by appointment
 Employee training by appointment

Subject to alteration in design for technical advancement.

Special executions on request.

Certificate ISO 9001

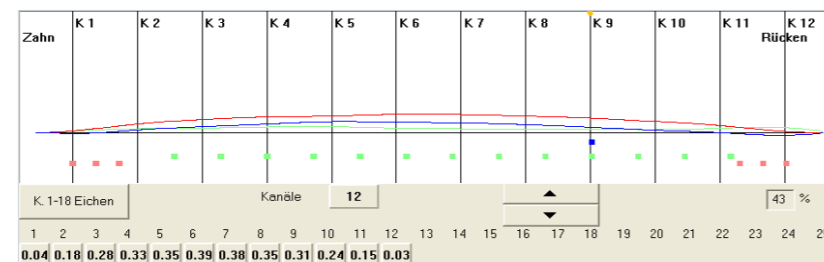
Patented ISELI process for maximum precision

Levelling, tensioning and straightening of band saw blades has traditionally been a highly labour-intensive job which could only be performed in individual steps by highly skilled and qualified operating personnel.

The ISELI benching centre lets you level, tension and straighten your band saw blades in a single operation. The measurement is performed over the entire blade using high-resolution sensors. This method is patented and ensures best results!

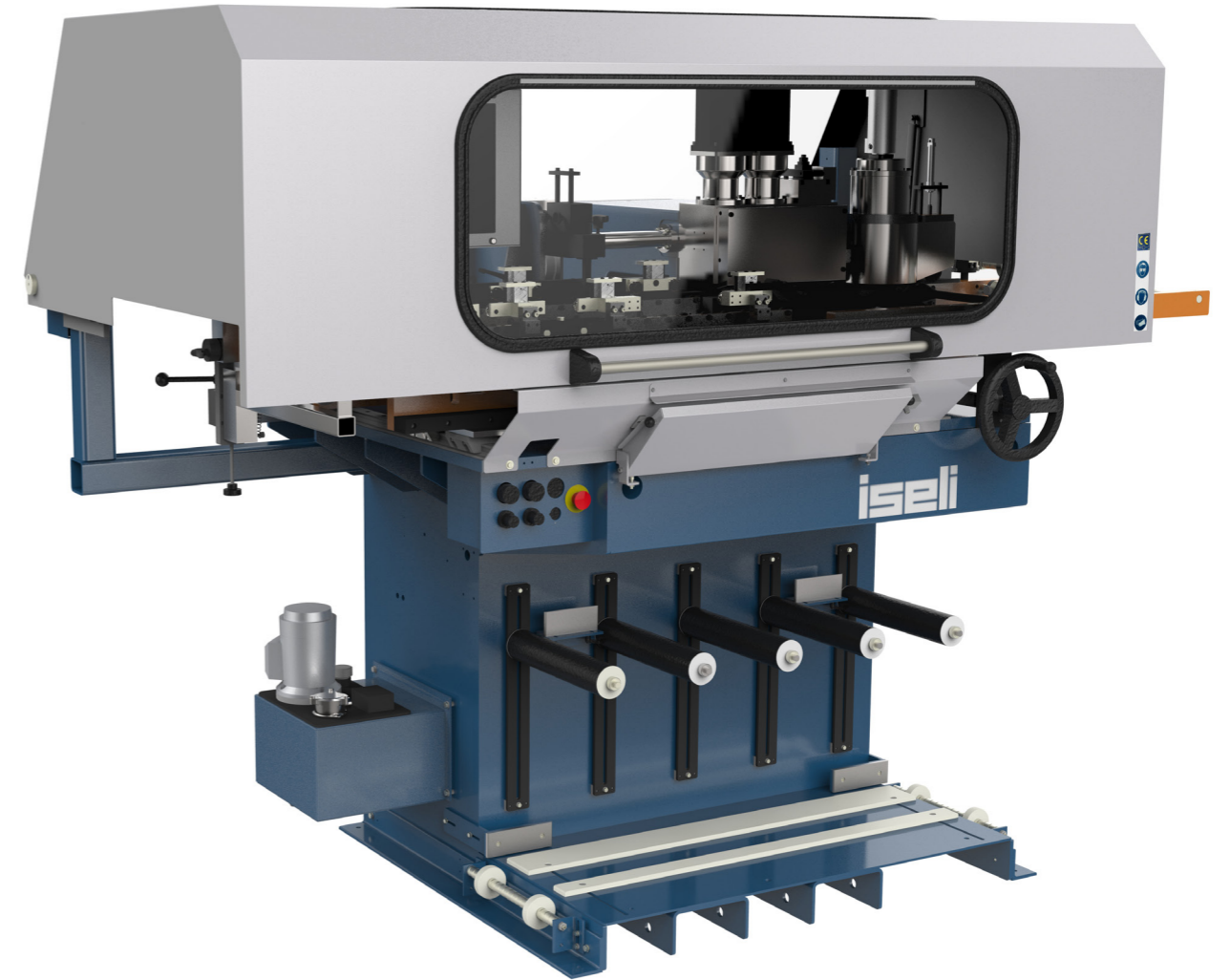
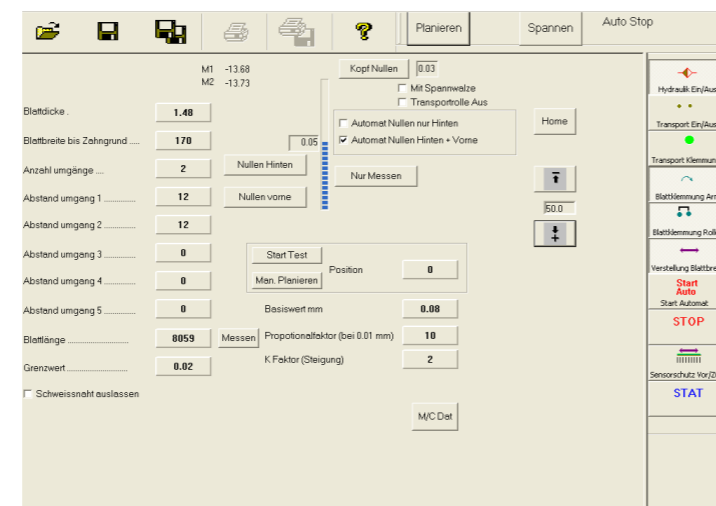
Tensioning and back measuring-adjustment

The two working cycles are executed utilizing two separate pairs of rolls. The hydraulic tensioning pressure is proportionally controlled by an electronic valve. The tension of the saw blade is measured at the same time on the complete width of the blade by means of individual electronic sensors. The saw blade is tensioned and the back measured adjusted in several passages as required. The tension curve of the saw blade and the measured curve of the blade back can be selectively programmed and saved. The red line on the photo indicates the saved tension curve and back measure desired, the green line is the actual condition of the saw blade as measured. The sequence of tensioning and back measuring-adjusting can be selectively programmed, saved and recalled in case of repetition of the same type of saw blade.



Levelling

The specifications of the band saw blade as well as the method of treatment can be programmed at the display by means of the touch-screen. An electronic sensor measures the deformity, two CNC-controlled rollers, concave and convex, level the deformities with proportional pressure, depending on the unevenness measured. This type of working system, the ISELI RZ-1 operates very quiet, with extremely accurate and consistent working results on the levelling of the blade to meet optimal cutting requirements in the mill.



The most important features

- Fully automatic measuring, levelling, tensioning and straightening in a single clamping operation.
- Considerable simplification of work processes for operating human resources.
- Our CNC-controlled levelling, tensioning and back measuring-adjusting center completely addressed these higher standards and requirements to meet today's needs.
- Full enclosure of the entire working area. Complete personnel protection. Operation of the machine by use of a touch screen monitor or with a normal keyboard.
- Conception and design of the machine are very operator friendly. That means short programming times, rapid familiarisation and flexible deployment of operating personnel at short notice.
- The use of proven components and aggregates as well as in-process quality control are the basis for operational safety, optimum work results and durability.
- Only one machine for levelling, tensioning and straightening, thus requiring less space.
- The optimal accessibility of the maintenance elements and the separation between the machine area and working area make service and maintenance quicker and easier.
- The order of levelling, tensioning and back measuring-adjusting can be selectively called and programmed. The values can be downloaded, and the programme recalled with the same values for duplication of saw blades of the same specification at a later time. This allows for accurate and consistent results time after time.
- Best results by using the latest software architecture (version 2013). There are unlimited possibilities for saving the software.
- Optional possibility of printing and logging of the blade datas at certain points (before-after comparison of blades).
- After a great deal of research, development and testing, the ISELI RZ1 meets the highest requirements of precision and operational conveniences.
- The latest CE-regulations are completely observed. The electrical equipment corresponds with IEC-60204-1 standards.