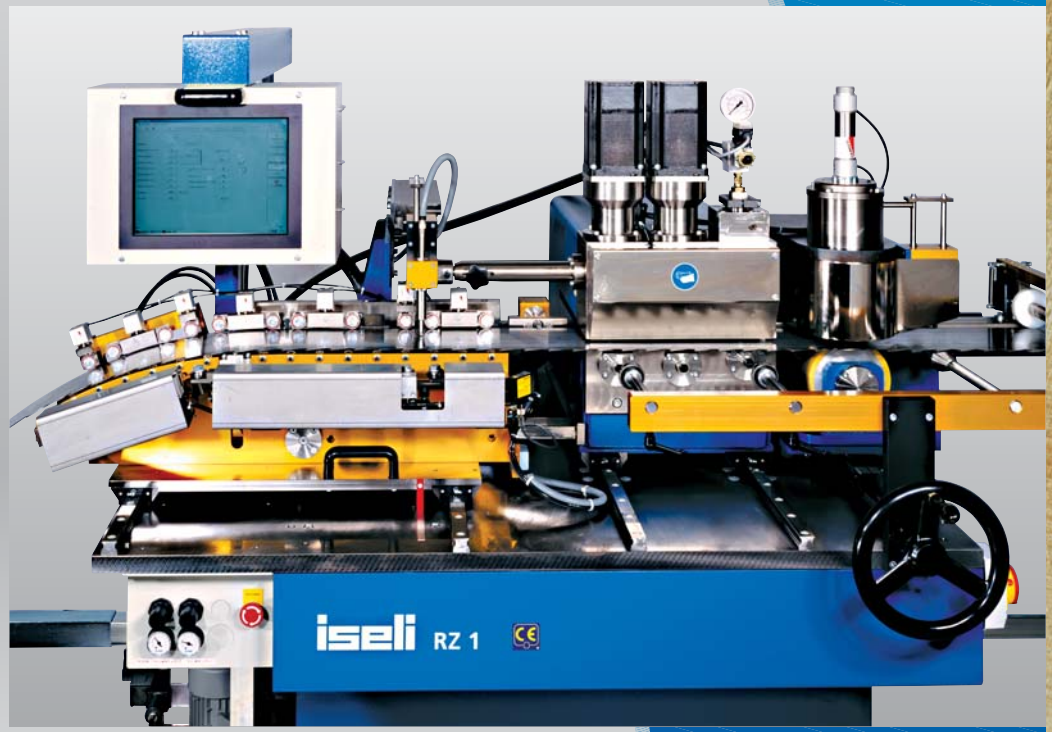
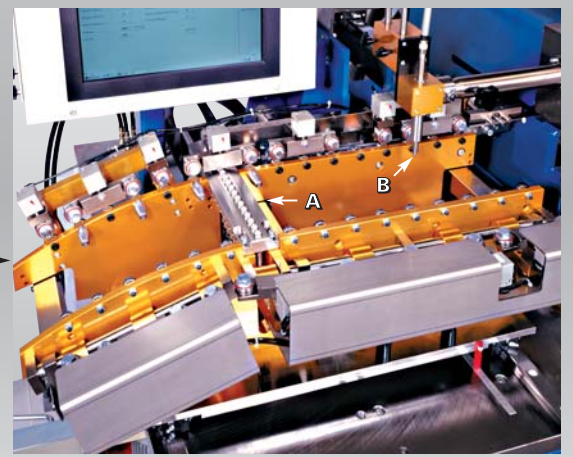
iseli RZ1

Fully automatic CNC controlled levelling- and tensioning center



for the most consistent and accurate maintenance of benching band saw blades.

The deviation roller path shown in the photo is for long band saw blades. Depending on the blade length and customer's request, the elements of 1000 mm of length are placed side by side on the right of the machine.



This photo shows the special run-in curve with guiding rollers for the saw blade.
By means of the sensor girder „A" the tension is measured and by means of the sensor key „B" the evenness.

Specifications ISELI RZ1

• Blade width:	70 to 360 mm more than 360 mm on request
• Blade thickness:	0,8 to 2,0 mm
• Blade lengths:	Deviation roller path for short saw blades 5000 to 8000 mm Deviation roller path for saw blades 7000 to 14000 mm on choice
• Working speed:	15 m/min.
• Connected load:	4,2 kW, 6 amp
• Compressed air supply:	6 bar
• Dimension of sea-case:	240 x 210 x 230 cm Net-weight 2450 kg Gross-weight 2850 kg

Subject to alteration in design for technical advancement.

SQS Zertifikat ISO 9001

iseli

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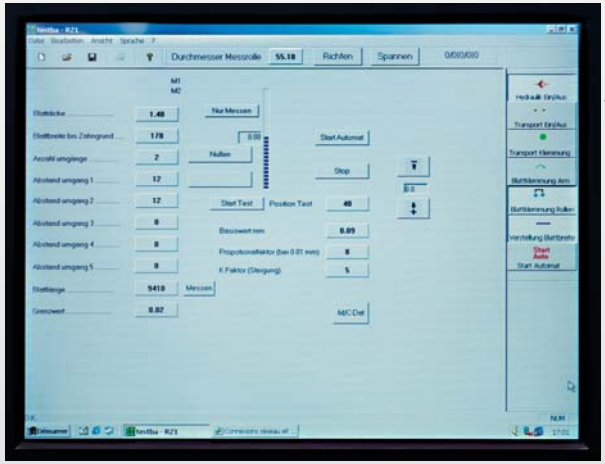
„Indispensable” the levelling- and tensioning center Iseli RZ1 for band saw blades

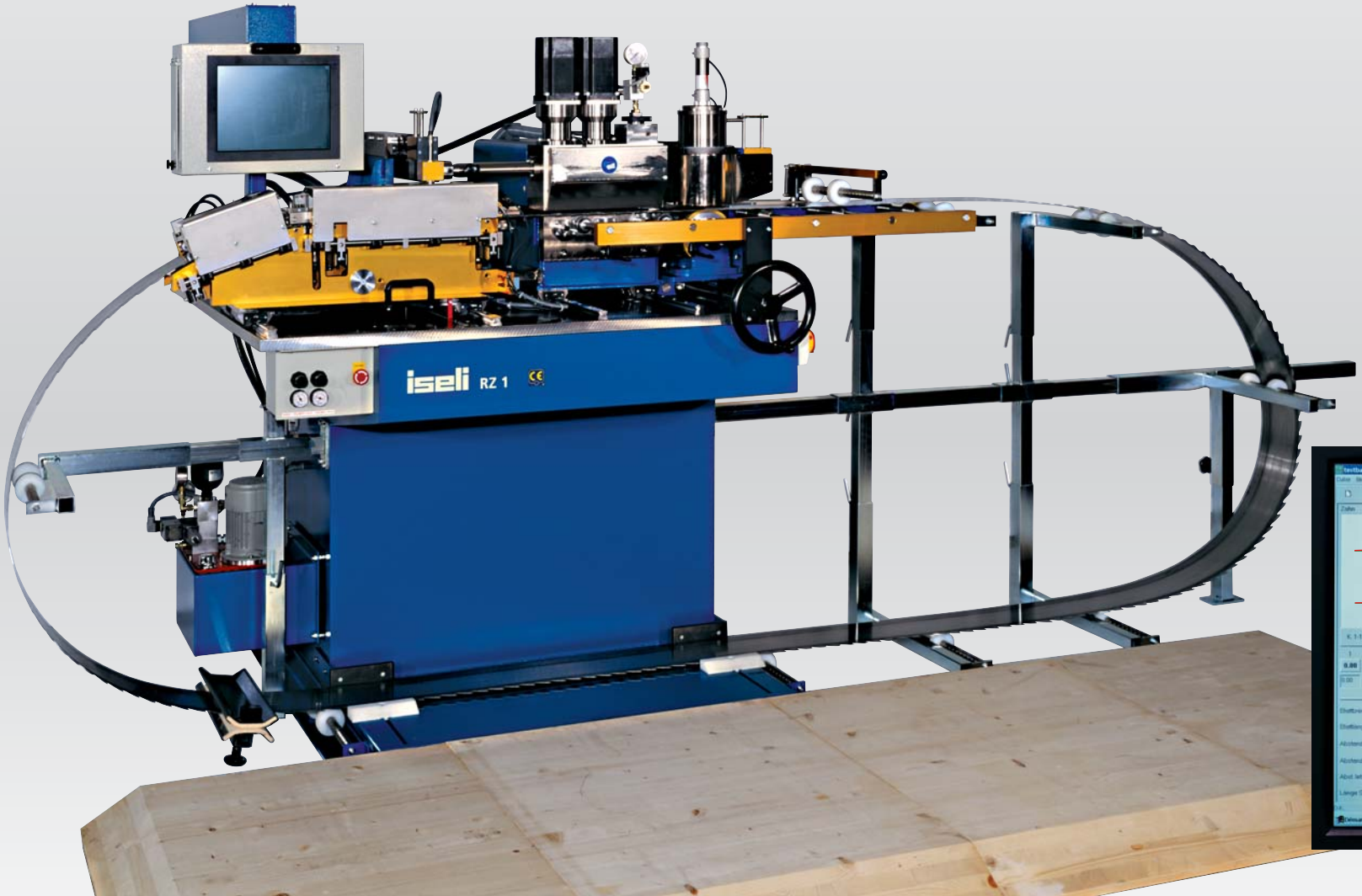
- Today’s sawmills, saw shops and band saw manufacturers are making greater demands on the quality of maintenance of band saw blades .
- Our CNC-controlled levelling, tensioning and back measuring-adjusting center completely addressed these higher standards and requirements to meet today’s needs.
- Fully automatic levelling, tensioning and back measuring-adjusting of the saw blade in one operational setup.
- The ISELI RZ-1 is equipped with a modern, selectively programmable user friendly control unit.
- The user friendly **touch screen** provides a clear display of all programme elements.
- The order of levelling, tensioning and back measuring-adjusting can be selectively called and programmed. The programmed 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.
- There are unlimited possibilities for saving the programmes.
- After a great deal of research, development and testing, the ISELI RZ-1 meets the highest requirements of precision and operational conveniences.

iseli RZ1



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. Due to 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.



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.