MA1

With common goals together on top

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

Our highly flexible expert team is always available to meet your 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 ensures 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 operation at our customers, we at ISELI offer an excellent after-sale service and can supply 95% of the 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 operation.

Technologies for gang saws
In 2012, ISELI started a new trend with the gang saw machine of type GS 4. Optimize your business processes with new services!

With annual innovations and developments ISELI pursues ambitious targets.

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SWISS PRECISION

MA1

Fully automatic marking and measuring equipment for testing and protocol-setting on curved saw teeth

for better quality management in the sharpening room

together on top
swiss grinding solutions since 1945

Specifications

Band saw blades:	
Blade width	50 - 220 mm
Blade length (standard)	4,000 - 9,500 mm
Blade length (optional)	on demand
Blade thickness	0.5 - 3.0 mm
Measuring accuracy	
Kerf measuring range	0.8 - 2.3 mm
Kerf accuracy	+/- 0.005 mm
Projection measuring range	0.15 - 0.8 mm
Projection tolerance	+/- 0.02 mm
Working speeds	
Pressing time per tooth	max 1.5 s
Processing time for feed	max 0.5 s
Power requirements:	
Standard Voltage	400V, 3 phase, 50 Hz
Mains fuse	10 A
Air supply:	
Compressed air supply	6 bar
Training / References:	
References / demonstrations on request	
Employee training by appointment	
Net weight	800 kg

Subject to alteration in design for technical advancement.

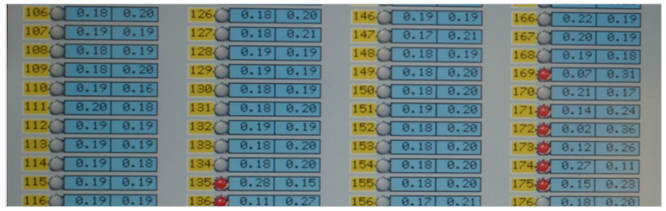
Special executions on request.

Certificate ISO 9001

Operation of the measurement and marking system

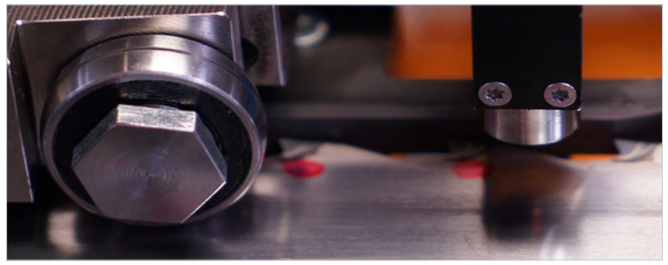
The machine and the programming are structured to reduce as much as possible the data to be entered. Only the tolerance values and the number of teeth must be entered. The sawtooth is detected at the light barrier and transported by the entered value.

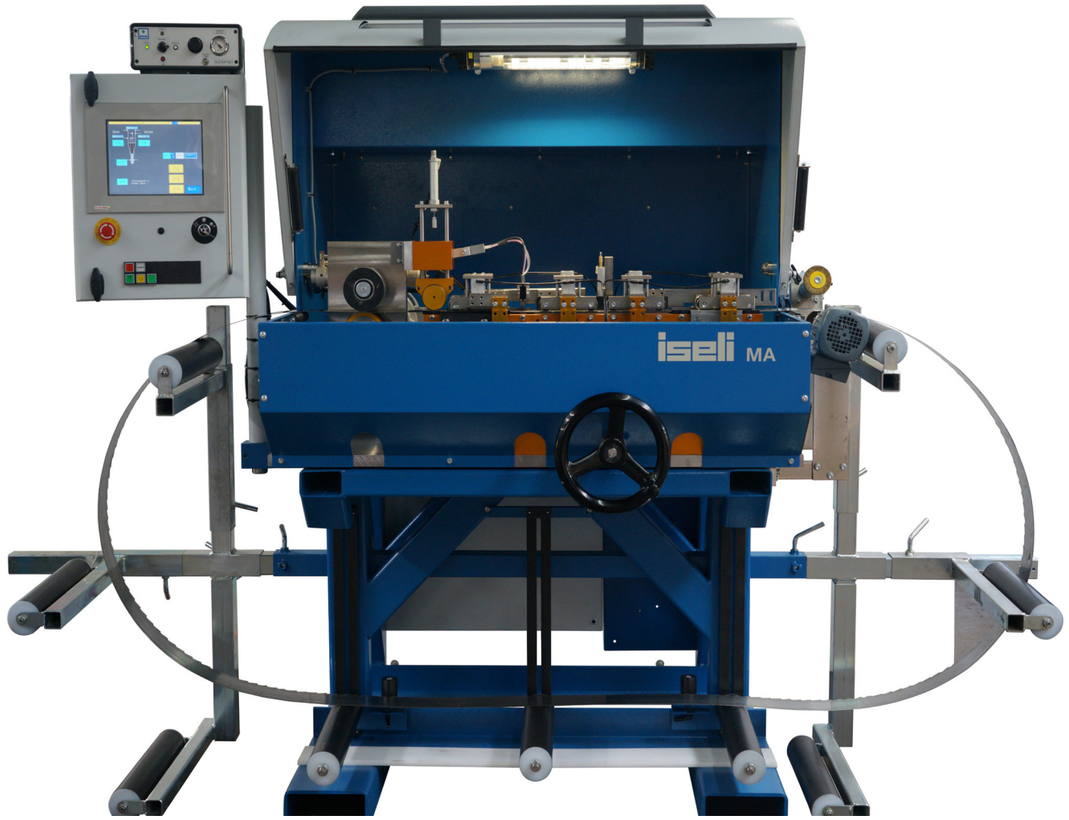
The teeth are measured in an automatic cycle and the values are recorded in the protocol. The image below illustrates the marked sawteeth (in red color).



The sawteeth are marked when they are outside of the tolerance entered by the user.

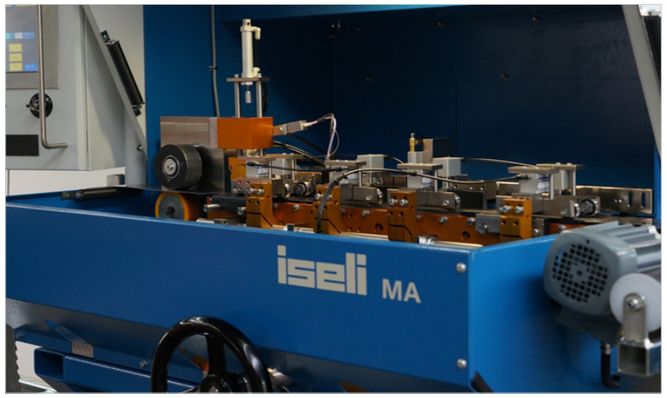
The marking is done with easily soluble marking fluid. No traces are thus left on the blade.





Swiss precision work

The design is based on ISELI proven principle. Few moving parts reduce service and maintenance costs. Our workpieces are hardened and subsequently treated and thus largely protected against corrosion.



MA1 advantages at a glance

- Each saw tooth is measured individually by means of a hi-tech sensor.
- Each single sawtooth is recorded in the protocol. A printout can be made any time.
- By measuring and recording each sawtooth, the condition of the saw blade when leaving the sharpening room may be traced at any time.
- The saw teeth that are outside the required tolerance are marked with easily-removable special fluid. The tolerance values are, of course, freely programmable.
- The powerful touch screen guarantees a user-friendly and convenient machine operation.
- In designing the machine great value was placed on simple and easy operation. That means short programming times and flexible deployment of operating personnel at short notice. The adjusting operations are extremely fast.

The machine is equipped with a freely programmable and powerful control.

- The full cladding ensures the best possible protection for the operator. Noise is greatly reduced and safety increased.
- The compact design results in few moving components. This also reduces maintenance, service and repair costs.
- An optional brushing device is available. This device cleans the measured area of any burrs.
- The latest CE-regulations are completely observed. The electrical equipment complies with the IEC-60204-1 standard.