EBW-V

AUTOMATIC SIDE GRINDING MACHINE FOR BAND,
CIRCULAR AND GANG SAW BLADES IN WET
GRINDING

ISELI develops and manufactures grinding machines, complex processing machines and automation for a perfect saw shop at manufacturers of tools, service providers as well as for sawmills in the field of sharpening technology for band, gang and circular saw blades in the area of wood, aluminium, plastic and metal. Convince yourself of our expertise and experience for a perfect cut!

Swiss quality by tradition
As a traditional family business, today already managed by the third generation, ISELI is developing sharpening machines with the latest technologies and excellent engineering – made in Switzerland.

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.

ISELI + Co. AG
Maschinenfabrik
Luzernerstrasse 31
CH-6247 Schötz

Phone: + 41 (0) 41 984 00 60
Fax: + 41 (0) 41 984 00 66
Mail: sales@iseli-swiss.com
Web: www.iseli-swiss.com
RELIABLE TECHNOLOGY COMBINED WITH LATEST COMPONENTS

The automatic controlled EBW grinds the tooth sides of your saw blades. It can be configured for wet or dry grinding (Type EBN) and is distinguished for its high functionality and excellent cost-performance ratio.

The robust design guarantees an extremely long lifetime coupled with high precision and low maintenance. The separation of working area and machine area protects the electrical and mechanical systems, cuts down on maintenance and allows easy access to important components for servicing.

ISELI is providing an outstanding range of solutions and accessories designed using our unique experience and know-how of mechanical engineering and software development.

Our innovative grinding solutions prolongs the tool life of your saw blades and boosts the productivity of your grinding room.

HIGHLIGHTS

- Our side grinding machine EBW-V has a robust steel design with a fully enclosed protection hood. The robust design guarantees an long lifetime coupled with high precision and low maintenance.
- 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.
- Very short adjusting operations because the tooth position remains the same for all types of saw blades.
- Powerful water cooling within fully closed protection hood; Elimination of linear guide slides.
- Feed speed by 2-step motor. The grinding-wheel peripheral speed can be adjusted by frequency converter (10 to 30 teeth per minute).
- Minimum wear of grinding wheels and much reduced grinding times.
- The use of CBN grinding-wheels increases accuracy and secures a constant tooth shape.

DIN EN ISO 12100:2010; Safety of machinery, general principles for design
DIN EN 60204-1:2014-10; Safety of machinery, electrical equipment of machines
DIN EN 13857:2008-06; Safety of machinery, safety distances

OPTIONS

- Equipment for band- circular- and gang saw blades
- Equipment for double toothed band saw blades
- Grinding mist exhaust
- Motorized height adjustment
- Frequency converter for regulation of feed speed
- Loading system

BASIC INFORMATION:

- **Tooth pitch**: 15 - 100 mm
- **Front rake angle**: 0 – 35°
- **Clearance angle Tooth face**: 0° - 7°
- **Clearance angle Tooth back**: 0° - 7°
- **Working speed**: 10 - 30 t / min **

BAND SAW:
- **Blade length**: from 6'000 mm
- **Blade width**: 60 - 360 mm
- **Blade thickness**: from 0.7 mm

CIRCULAR SAWS:
- **Circular saw diameter**: 250 - 800 mm
- **Circular saw diameter (Option)**: up to 1'300 mm
- **Blade thickness**: up to 6 mm

GANG SAWS:
- **Toothed length**: up to 1'300 mm
- **Blade length**: 70 - 180 mm
- **Blade thickness**: from 0.8 mm

POWER REQUIREMENTS:
- **Standard Voltage**: 400 V 3 Ph. N
- **Connected load**: 5.5 kVA
- **Grinding motors (2)**: 400 V / 0.75 kW

SPACE REQUIREMENTS

- Integrated grinding spindle height adjustment from the front of the machine.
- The latest CE-regulations are completely observed. The electrical equipment corresponds with IEC-60204-1 standards.

Subject to alteration in design for technical advancement.