

Other products by ALESA Maschinen AG



DENTACOMBI 160

The autonomous grinding machine for teeth cutting and chamfering of new circular saws made of HSS and solid carbide



FLEXCOMBI 200

The flexible and compact machine concept for high-precision volume production with double grinding capacity

Tools by ALESA AG



Precision tools

Tools with indexable inserts, NUTEX tools, circular saw blades and side milling cutters



REDENT 400

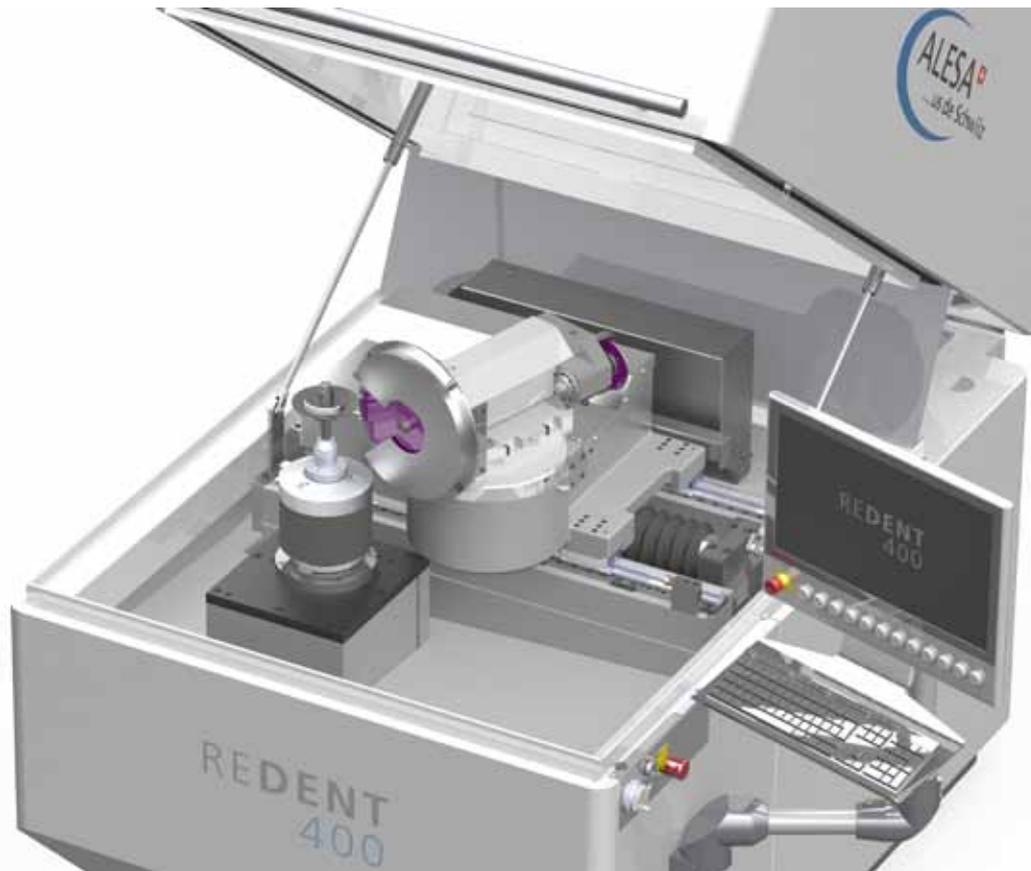
The versatile automatic machine for sharpening, teeth cutting and chamfering of HSS and solid carbide circular saw blades



UNIQUE

- ✓ Chamfering in the same clamping from saw blade \varnothing 30 mm
- ✓ Three fully fledged CNC axes for more flexibility and application possibilities





Technical Data

Working range

Sharpening and teeth cutting	Ø 20 - 400 mm
Chamfering	Ø 30 - 400 mm
Grinding of chip splitting grooves	Ø 20 - 400 mm
Tooth shapes	A, B, Bw, C (options: Vario, special shapes)
Number of teeth	2 to 1000
Saw blade thickness	up to 20 mm

Process data

Spindle power	5 kW
Cooling lubricant	Emulsion or grinding oil
Grinding wheel sharpening	CBN, Ø 250 mm
Grinding wheel chamfering	CBN, Ø 100 mm or smaller
Grinding wheel chip splitting grooves	CBN, Ø 30 to 50 mm

Measurements

Length x width x height	1778 x 1211 x 1489 mm
Weight	approx. 2500 kg
Mains connection	400V/50 Hz
Power consumption	approx. 8 kVA
Compressed air	6 bar

All grinding operations in one clamping

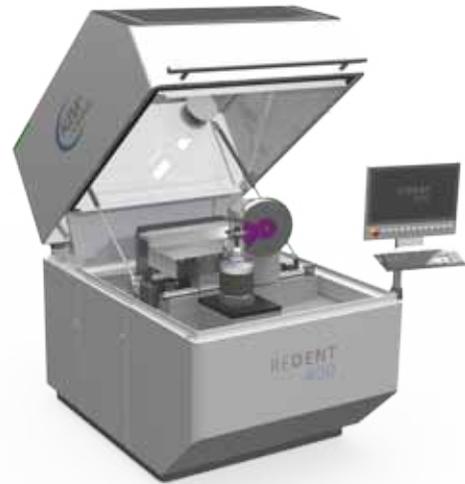
REDENT 400 - The versatile machine for perfect sharpness

From the user, for the user

Your benefit based on our experience!

ALESA AG has been known since 1934 as a specialist in circular saws for processing metals and steel materials.

Based on this priceless experience, ALESA has developed extremely efficient sharpening machines, making them an indispensable pillar in the reconditioning of HSS and solid carbide circular saws.



Advantages of the REDENT 400

Complete machining

- ☑ Automatic sharpening and teeth cutting on one machine
- ☑ Chamfering in the same clamping from saw blade Ø 30 mm
- ☑ All common tooth shapes and geometries are feasible, including vario and special toothing
- ☑ All angles are freely adjustable - rake angle, clearance angle and chamfer angle
- ☑ Ideal for machining of HSS and solid carbide circular saws

Additional benefits (optional)

- ☑ Additional spindle to grind chip splitting grooves in the same clamping

User-friendliness

- ☑ Programming is child's play with our intuitive user guidance
- ☑ Quick access to your most important saw blade data
- ☑ Automatic sharpening: define saw blade data - insert saw blade - START
- ☑ Pre-program the next job while the previous job is running

Quality and safety

- ☑ Automatic checking of critical saw blade data
- ☑ Automatic threading of the grinding wheel
- ☑ Highest grinding quality and repeat accuracy thanks to thermal stability and vibration damping
- ☑ Optimum cooling with grinding oil or emulsion

Your ADDEDVALUE

- ☑ You save valuable working time and can use it in other ways to increase profit and sales.
- ☑ Without extra effort, you can achieve even better quality and delight your customers.
- ☑ CNC flexibility opens up new markets and customer groups circles to your business.

