



NC 1020

A state-of-the-art CNC-controlled saw blade grinding machine for resharpening, chamfering and the grinding of new teeth, by use of vitrified and CBN abrasive grinding. Suitable for metal cutting circular saw blades up to 1020 mm in diameter.

A new, totally modern machine concept for the resharpening, chamfering and retoothing.

In addition the machine can be used for cutting off defective teeth, grinding of chip breaker grooves and grinding of saw blades with vari pitch toothing.

Besides HSS- and segmental saw blades

the machine will grind solid carbide blades or friction saw blades (Trennjäger).

The saw blade data will be entered into the control panel. The computer calculates the tooth pitch and tooth height and suggests the DIN tooth height difference for tooth shape "C".

The computer also automatically calculates the required grinding wheel thickness and informs the operator in case a grinding wheel change will be necessary.

The hook and clearance angle, the amount of stock removal and the grinding speed are preselected on the screen. That's all, the machine is ready to start grinding.

Advantages at a glance:

- ✓ Universal, versatile automatic grinding machine for metal circular saw blades with diameters up to 1020 mm
- ✓ Absolut indexing precision and a perfect tooth shape through modern CNC control system
- ✓ TWIN-TEC: 2 different grinding methods – one machine! The NC 1020 can be used with vitrified as well as with CBN grinding wheels
- ✓ Effective cooling with 6 bar coolant pressure ensures short grinding times
- ✓ Choice of water or oil for cooling
- ✓ Automatic path offset. Different pitches can be machined using the same grinding wheel thickness, which means a very small number

of grinding wheels needs to be stocked

- ✓ dressing unit for automatic grinding wheel dressing by use of vitrified wheels



- ✓ Blade clamp at the point of the grinding enables the grinding of saw blades with 150-1020 mm diameter by use of the same clamping flange
- ✓ The Sym-menu prompt system ensures optimum clarity of the control panel screen
- ✓ Any changes can be carried out quickly and easily through touch commands on the screen using the Loroch Easy-Touch system
- ✓ Semiautomatic chamfering
- ✓ minimum floor space, because of compact machine design with large, coolant tank integrated

The technical data at a glance:

Circular saws:

Outside dia.:	(40) 80 – 1020 mm
Tooth pitch:	1 – 55 mm
No. of teeth:	2 – 998
Saw blade thickness:	up to 10 mm

Grinding wheel:

CBN-wheel:	Ø 200 mm
Diamond-wheel:	Ø 200 mm
Vitrified-wheel:	Ø 250 mm
Bore:	Ø 32 mm

Cooling:

Coolant pressure:	approx. 6 bar
Coolant type:	Emulsion or oil

Electrical installation:

Grinding motor:	2,2 kW
Connected load:	approx. 6 kW

Dimensions:

H x L x W:	1860(2120) x 1870 x 1212 mm
Weight:	approx. 1000 kg

