

Advanced grinding, all-in one setup...

PNK-AC-CNC

4 AXES CNC - HSS SAW GRINDING MACHINE Automatic Chamfering Optional Chipbreaker

The flexible, hi-tech solution

High technology to lead the ever-changing world of tool processing.



PNK-AC-CNC provides full automatic process for the HSS circular saw blades of complete tooth removing, re-toothing, re-grinding and chamfering in only 1-single pass.

PNK-AC-CNC is an ideal machine for the complete machining of metal circular saws. It guarantees optimum grinding quality with its state-of-the-art technology.

All the data related to the circular saw is entered from the control panel. Fast and precise adjustment by it's manual pulse handler.



HSS Circular Saw Grinding by Ø200mm CBN Wheel



Tooth removing Operation



Re-toothing in 1-Single Pass by robust construction

A versatile response to meet all demands...

Automatic Left Chamfering



Automatic Right Chamfering

General Features

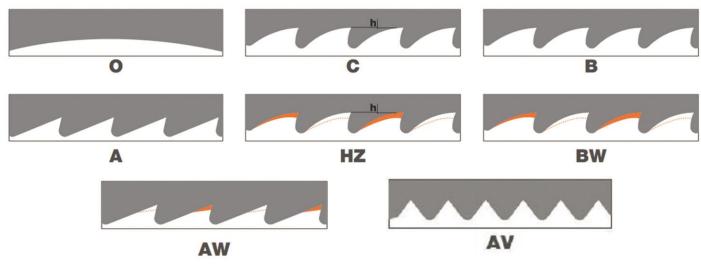
- 4-Axes Servo motor controlled.
- Laser probing system for automatic saw diameter measuring and teeth number calculation
- Language selection on the control panel.
- PC controlled.
- Windows® operating system.
- Maximum Ø650mm circular saw outside diameter. (optional Ø850 or bigger)
- Tooth form selection from the control panel.
- Grinding all common tooth types in one cycle.
- · Automatic chamfering.
- Blade thickness input from the control panel.
- Automatic calculation of the tooth pitch.
- · Absolute tooth pitch accuracy.
- Downloading a program through internet connection if demanded.
- · Central lubrication.
- 17" LCD screen control panel.
- Variable grinding and grinding wheel rotation speed.
- · Grinding wheel head riding on linear rails.
- Grinding and production by CBN, tooth removing by vitrified wheel.
- Smooth chamfer grinding even in saw blades with worn right-left chamfers.
- Integrated air suction system.
- · Pure Oil Coolant System.
- Totally enclosed cabin for operator safety.
- Simple controls for ease of use.
- Rigid machine base.
- Ergonomic cabin for ease of loading / unloading.
- · Production conformed with CE standards.

PNK-AC-CNC



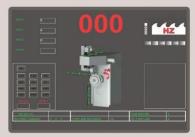
At ABM, we develop our machines, our own electronic systems and application software and manufacture all main mechanical components. Finally, we assemble and test the final product to global machine standarts. Whichever ABM machine you choose for your grinding, you will know that it is built to meet all market demands.

Tooth Forms

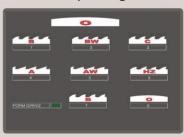


* Br/Bs forms are optional.

The true innovation is the product of experience and dynamics...



General Operating Screen



Form Selection Screen



Technical Specifications

- HSS Circular saw outside diameter
- Automatic Chamfering
- Blade Thickness
- CBN Grinding Wheel
- Bakelite Grinding Wheel
- Grinding Wheel Motor Power
- Coolant Type
- Coolant Pressure
- Motor Quantity
- Tooth Forms
- Operating Voltage
- Total Power
- Saw holders provided with the machine
- Net/Gross Weight
- Dimensions

Ø80-650mm(Optional Ø850 or bigger)

Ø200-650mm

Maximum 8mm

Ø200mm x 32mm

(Ø150/Ø200mm) x 20mm

3 kW

Ready for Pure Oil Coolant

10 Bars

7 pieces

A, AV, AW, B, BW, C, Hz, O

380V, 3Ph, 50-60Hz

~8,50kW

Ø20-30-32-40-50mm

1100/1125kg

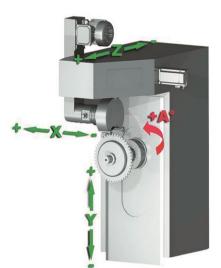
2100*2000*2100mm

- 2- Programming by DIN Norms
- *Unique Toolpath animation software

¹⁻ Free Programming (Various Parameters)

PNK-AC-CNC

Axes of Machine



Design of 4-Axes Optional 5th Axes for Chipbreaker



17" LCD Control Panel



Integrated mechanical air filtration unit



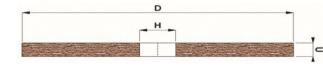
Capacity 100lt coolant containerwith level indicator



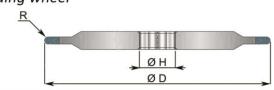
4-axes manual control by manual pulse handler

Grinding Wheels

Vitrified grinding wheel



CBN grinding wheel



FEPA Type 1A1 **D** Ø150/Ø200mm **H** Ø20mm U 3 to 10mm

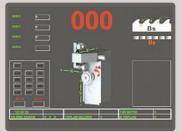
FEPA Type 14F1 **D** Ø200mm **H** Ø32mm R 0.8mm

High Accuracy / High Productivity

OPTIONALS

* Operating screens [Br/Bs forms with Right-Left Slots at one cycle] for machine attachment





General operating screen



Chip-breaker software production



Chip-breaker parameter input screen

ACM

- * Chip breaker grinding option
- · Grinding the chip breaker slots of HSS circular saws.
- Grinding right-lefts slots in one cycle.
- As stand alone or attachment on machine



* Br/ Bs Forms



* Optional software for variable pitch (VP) blades



* Optional Magnetic Separator System



* Optional Laser Measuring System (Automatic diameter and number of teeth calculation)



* Optional plunge grinding software for notches



* Optional grinding software for Cermet saws **FREE PROFILE** PROGRAMMING



* Optional software for circular knives grinding

