

PRESTIGE



**abm**  
Grinding Technologies



Advanced grinding, all-in one solution..

# PRESTIGE

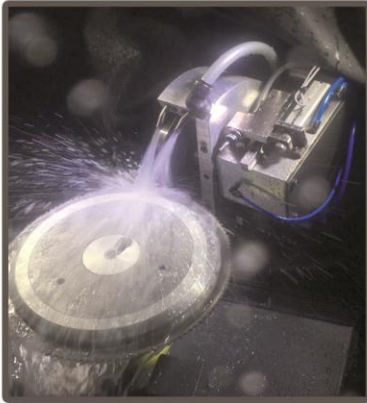
6 AXES CNC - GRINDING MACHINE FOR METALWORKING  
CIRCULAR SAW BLADES

With Free Programming Function for any combination of Tooth Forms for CERMET

The flexible, hi-tech solution

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

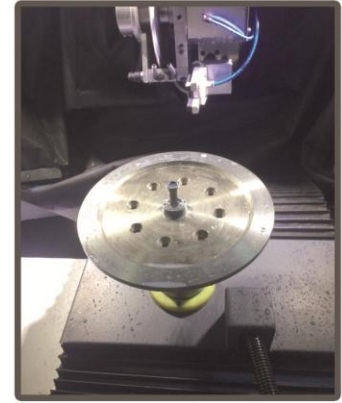
PRESTIGE is designed for response of high necessities for circular saws tooting and grinding services. Our new generation machines minimize human labor; with robot loading system and in compact central body, all forms of grinding are together. With high efficiency, loss of time in your workshop is prevented. PRESTIGE, for all teeth form of HSS and CERMET circular saws in only one pass, ensure a perfect tooting. Optional chipbreaker system is available.



HSS Circular Saw Grinding  
by Ø200mm CBN Wheel



Integral Measuring Probe  
for Thickness Control

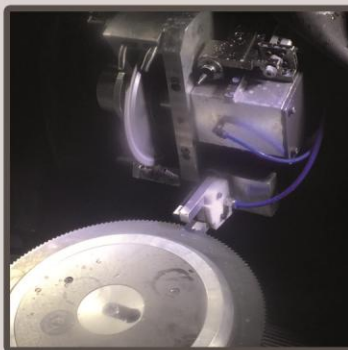


Clamping System  
by Aluminium Flange

## A versatile response to meet all demands...



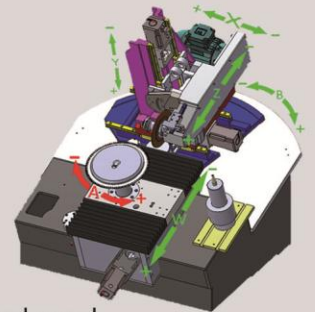
Automatic Left-Right Chamfering



Internal laser  
measuring system  
for tooth counting  
and auto setting

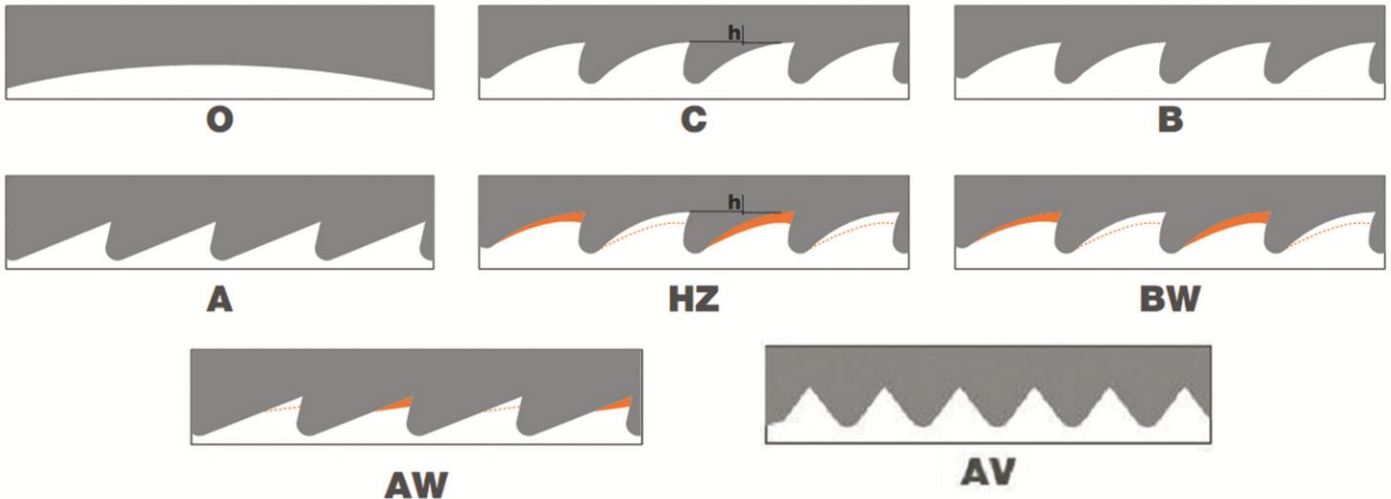
### General Features

- Complete profile and chamfer grinding in one cycle.
- 6 axes Servo motor CNC controlled.
- Optional Chipbreaker Grinding Attachment
- Optional D axis driven by servo motor.(Beveling)
- Operating screen in any language
- PC controlled.
- Windows® operating system.
- Possibility of selecting the grinding program from the control panel.
- Grinding all tooth types in one cycle.
- Integral measuring probe.
- Auto setting function by laser system
- Automatic saw blade thickness calculation either by means of measuring probe or manually entering on the control panel.
- Automatic compensation calculation by means of the measuring probe.
- Diameter and tooth number data collection by means of laser system.
- 15" TOUCH PANEL screen control.
- Max. outside diameter Ø630mm.
- Pneumatic blade clamping.
- Totally enclosed cabin for operator safety.
- Simple controls for ease of use.
- Rigid base.
- Variable grinding speed.
- Ergonomic cabin construction for ease of loading and unloading.
- Independently adjustable grinding and indexing speeds.
- Optional mist extractor system
- Automatic Lubrication Unit
- Live Tracking by internet connection.
- Oil coolant ready.
- Production conformed with CE standards.



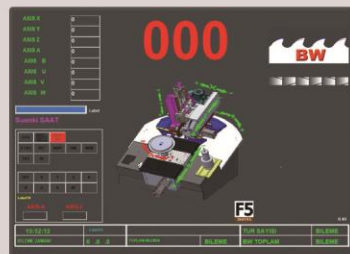
At ABM, we develop our machines, our own electronic systems and application software and manufacture all main mechanical components. Finally, we assemble and test the final product to global machine standards. Whichever ABM machine you choose for your grinding, you will know that it is built to meet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

### Tooth Forms

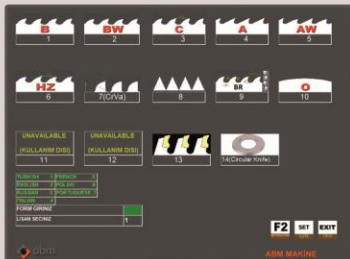


\* Br/Bs forms are optional.

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



General Operating Screen



Form Selection Screen

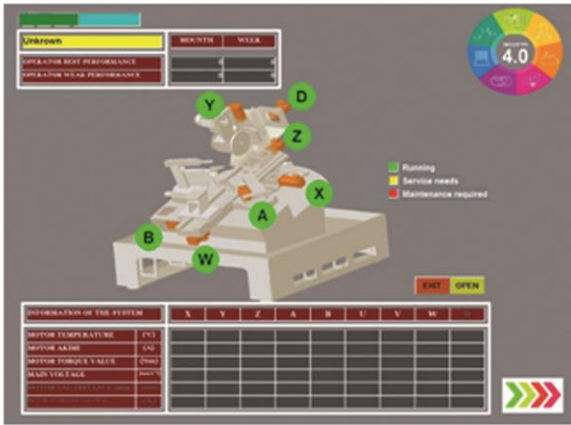


Probe Calibration Screen

### Technical Specifications

- Circular saw outside diameter Ø80-630mm(Optional Ø800 or bigger )
- Air Pressure Required Minimum 6 Bars
- CBN Grinding Wheel Ø200mm x 32mm
- Working speed Variable from 0,5mm to 30mm/s
- Coolant motor capacity 100lt/min.
- Coolant tank capacity ~120lt.
- Feeding rate 1 to 7 sec/tooth.
- Motor Quantity 11
- Tooth Forms A, AV, AW, B, BW, C, Hz, O
- Connected load ~10.5kW
- Voltage 380V, 3Phases
- Net/Gross Weight 2800/2900kg
- Dimensions 200\*250\*195cm

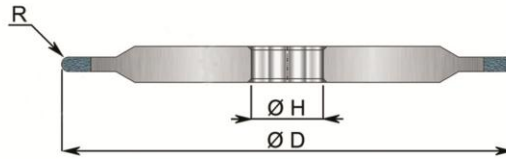
## Axes of Machine



Monitoring condition of all axes if service or maintenance is required.

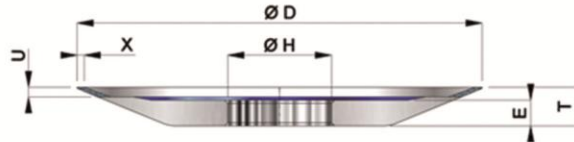
## Grinding Wheels

CBN grinding wheel for HSS saws



**FEPA Type 14F1**  
 D Ø200mm  
 H Ø32mm  
 R 0.6mm to 6mm

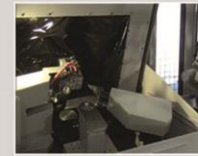
Diamond grinding wheel for CERMET saws



**Type 12V2**  
 D Ø200mm  
 H Ø32mm

## High Accuracy / High Productivity

### PRESTIGE-LOAD



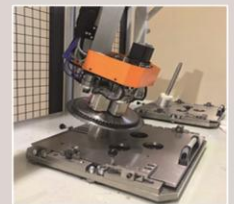
Loading - Unloading



Post for flange



Optional Chipbreaker System (Br/Bs Forms)



Robot Gripper that can open and close automatically according to the saw blade diameter

### Motors on the machine

Motors	Power (kW)	Revolution (RPM)	Feeding Voltage	Additional Features
Axis X (Servo)	0.75	6000	-	Absolute encoder-with brake
Axis Y (Servo)	0.75	6000	-	Absolute encoder-with brake
Axis Z (Servo)	0.75	6000	-	Absolute encoder-with brake
Axis A (Servo)	0.75	6000	-	Absolute encoder-without brake
Axis B (Servo)	0.75	6000	-	Absolute encoder-with brake
Axis U (Servo)	0.75	6000	-	Absolute encoder-with brake
Axis V (Servo)	0.75	6000	-	Absolute encoder-without brake
Axis W (Servo)	0.75	6000	-	Absolute encoder-with brake
Grinding wheel motor	4	2900	380V-3phases	
Coolant motor	0,75	2800	380V-3phases	



Post & Machine Pins



Pads



Reducerflanges (Magnetic type)