



Advanced grinding, it's what a grinder should be...

CNC Top & Face Circular Saw Grinder with 7 fully CNC-controlled axes

Free programming feature
Automatic Positioning of B Axis

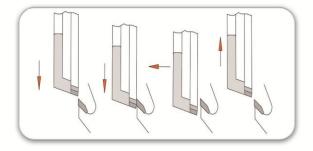
The flexible, profitable solution

High technology to lead the ever-changing world of tool processing. ABM offers the complete solution: Getting the most out of the CNC.

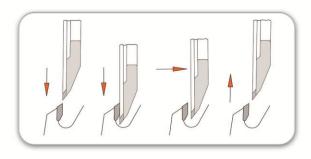


The CNC is distinguished by it's high speed as a 6-axes CNC controlled top and face grinding machine that is capable of grinding all tooth forms on wood and aluminium blades.

There are two different grinding processes in standart that can be performed with this machine:



Top Grinding Operation



Face Grinding Operation

A versatile response to meet all demands...



Operator-friendly ABM interface for ease of use Positioning displays of all 7-axes.



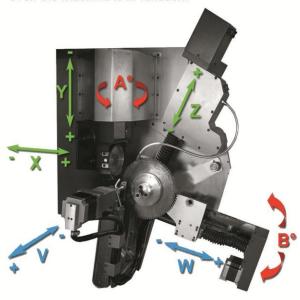
Unique software for Newly-Replaced Teeth. Production software for rough-fine cycles and ability to do teeth one by one or by sequenced rough and fine cycles.

Features

- 7-axes fully CNC-control.
- Special plating on mechanical components ensure non-corroding and hardening.
- · Automatic Broken teeth skip and Variable pitch indexing by intelligent finger.
- Unique software for Newly Replaced Teeth and Saw Blade Production.
- · LCD display and operating interface in any stated language.
- · Ready tooth form programs, unlimited memory for saving, FREE programming.
- Grinding of all tooth types in one cycle for wood and metal industries.
- New program set-up while the machine is in progress.
- Trow program out up willout the machine to in progress.
- Independent grinding speed selection for grinding flats, rights and lefts.
- Maximum outside diameter Ø810mm.
- Clamping by Microstep motor ensures automatic clamping distance control, clamping torque control and blade thickness control to self center bevels.
- Individual Top Flat Width and Height difference adjustment in Triple Chip Form.
- Central lubrication system reducing maintenance and increasing machine life.
- Windows® based PC control enables update over internet or by flash drive.
- Totally enclosed cabin, seperate electrical cabin and machine cabin.
- · Ready for oil coolant
- · Operator-friendly machine program interface for ease of use.
- · Robust base constructed in ergonomic cabin.



Become independent! Optimum use of the fastest grinding machine and the most operator-friendly control system. Special high speed set-ups can give "off-carbide" grinding time which increases productivity without depending on grinding accuracy or wheel life. All the axes can be adjusted independently on rapid speed and machining speed, even the machine is in function.



- (X) Infeed Axis
- (Y) Grinding Axis
- (Z) Indexing Axis
- (A) Bevelling Axis
- (B) Back clearence&Hook Angle Axis (Auto Position)
- (V) Clamping Axis
- (W) Saw Blade Positioning Axis

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



Torque, distance and automatic blade thickness control by microstep clamping



Automatic Broken teeth skip and Variable pitch indexing by intelligent finger. Optional pneumatic system for split (double-part) scoring blade grinding

Technical Specifications

• Cir	cular saw outside diameter	Ø80-810mm
 Bo 	re diameter	from Ø12mm
• Bla	de thickness	Maximum 6mm
 Too 	oth pitch	Maximum100mm
• Gri	nding angle	(-10°) - (+30°)
• Be	vel angle	±45°
• Gri	nding wheel outside diameter	Ø125mm
• Gri	nding wheel bore diameter	Ø32mm
• Co	olant motor capacity	~50 lt/min
• Co	olant container capacity	~110 lt
• Mic	crostep rapid speed	50mm/s
• Se	rvo rapid speed	150mm/s
• Co	nnected load	~3,5kW
• Ne	t/gross weight	985/1050kg
• Dir	nensions	125*185*215cm



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 the all market demands.

Top and Face Tooth forms completed in one cycle

FREE	ALL	Free Programming
Pointed Top	Ā	Flat-Pointed Top
	•	Pointed Top (All teeth pointed top)
5T	A D A D A	5T-1 (Flat-Right-Left-Right-Left)
(Combo)	1111	5T-2 (Flat-Left-Right-Left-Right)
ĀĎ	<u> </u>	5T-3 (Flat-Right-Left-Right-Left-Flat- Left-Right-Left-Right)
	<u> </u>	5T-4 (Flat - Right-Left-Right-Left) [For saw blades with irregular tooth pitch]
l av	A ADAD	5T-5 (Flat - Left-Right-Left-Right) [For saw blades with irregular tooth pitch]
D-RIG	ÀÞÞÞ	Flat-Right-Right
D-LEF	1111	Flat-Left-Left
TRP-2F	Ö ÄÄ	Triple Chip-Flat-Flat

Flat	<u> </u>	All teeth flat Flat-Flat (Hi-low)
ATB	M	ATB (Right-Left)
ΔĀ	<u> </u>	Right-Left-Left
	ADDD	Left-Right-Right
	D	All right bevels
	Ţ	All left bevels
Triple Chip	ΔĀ	Triple chip - Flat
ΦĀ	ů ů	Triple-triple chip (Hi-low)
off of the state o		Triple chip (all teeth triple chip)
	jij	TRP-R (Triple chip with right-left corner break)
SS45	iji	TRP-L (Triple chip with left-right corner break)
		Raker Left-Right

The ABM CNC-Motion Control difference: productive and always a head...

Optionals:



Optional Oil Filter



Optional chip-breaker attachment



Optional hollow-face attachment



