

Affilatura avanzata, tutto in una configurazione

PREMIUM-LOAD

Centro produzione automatico lame circolari

La flessibilità, Hi-Tech Solution

Alta tecnologia per una continua evoluzione del processo della lavorazione dell'utensile

PREMIUM-LOAD

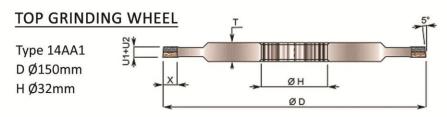


PREMIUM-LOAD is designed for response of high necessities for circular saws production and grinding services. Our new generation machines minimize human labor; which robot loading system and in compact central body, face and top grinding machine are together. With high efficiency, loss of time in your workshop is prevented. Free programming for cold saw blades also enables the machine to make production for metal blades. The machine has a wide production capability of wood and metal blades.

PREMIUM-LOAD, for all teeth form of carbide circular saws in only one pass, ensure a perfect and top quality level grinding. Integral measuring probe enables high precision operation.



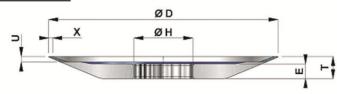
Top Grinding



Face Grinding

FACE GRINDING WHEEL

Type 12V2 D Ø160mm H Ø32mm



A versatile response to meet all demands...



15" Touch Panel Feature



Loading



Unloading

General Features

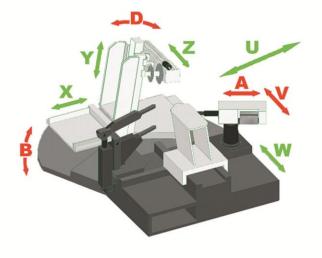
- 3 carriages for loading and unloading.
- · Complete top and face grinding in one cycle.
- · 8 axes Servo motor CNC controlled.
- · Loading and Unloading by 4 magnetic grippers.
- · Repairing the newly-replaced teeth.
- · Application of two grinding wheels.
- · Optional Hollow Tooth Grinding Attachment
- Optional D axis driven by servo motor for face beveled blades.
- Optional Chip Breaker Attachment.
- · Manual D axis for manually adjustable head bevel.
- · Operating screen in any language.
- High performance periphery grinding technology.
- · PC controlled.
- · Windows® operating system.
- Possibility of selecting the grinding program from the control panel.
- Grinding all common tooth types in one cycle.
- · Integral measuring probe.
- 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.
- Automatic kerf thickness calculation by means of a measuring probe.
- Face and top angle data collection by means of measuring probe.
- 15" touch screen control panel.
- · Max. outside diameter Ø610mm.
- · 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.
- Integral air suction unit.
- · Oil coolant ready.
- · Production conformed with CE standards.

PREMIUM-LOAD



Become independent! Optimum use of the unique grinding machine and the most operator-friendly control system. Special high speed set-ups can give "off-carbide" grinding time which increase productivity without depending on grinding accuracy or wheel life. ABM Control system eases the grinding operations while increasing your quality.

Axes of Machine

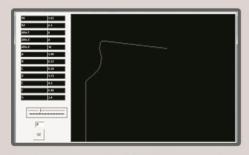


Motors on the Machine

	Power (kW)	Revolution (RPM)	Feeding Voltage	Additional Features
Axis X (Servo)	0.75	3000	-	Absolute encoder-with brake
Axis Y (Servo)	0.75	3000	-	Absolute encoder-with brake
Axis Z (Servo)	0.75	3000	-	Absolute encoder-with brake
Axis A (Servo)	0.75	3000	-	Absolute encoder-without brake
Axis B (Servo)	0.75	3000	-	Absolute encoder-with brake
Axis U (Servo)	0.75	3000	-	Absolute encoder-with brake
Axis V (Servo)	0.75	3000	-	Absolute encoder-without brake
Axis W (Servo)	0.75	3000	-	Absolute encoder-with brake
Grinding wheel motor	1.1	2900	380V-3phases	
Coolant motor	0,75	2800	380V-3phases	
Air suction motor	0,37	2800	230V-1phase, 50Hz	

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

Optional Module for Production of Cold Saw Blades (Cermet)



Optional Free Profile Programming of Cold Saw Blades

Technical Specifications

Circular saw outside diameter

Ø150-610mm

Post diameter

Ø30 mm (Replaceable posts)

Loading Carriage

3 Carriages

Loading Capacity

50 Saw Blades

• Air Pressure Required

Minimum 6 Bars

Cutting angle

(-7°) - (+45°)

Max. Tangential angle

.

+25°

· Grinding wheel outside diameter

Ø160mm

Grinding wheel bore diameter

Ø32mm

Working speed

Variable from 0,5mm to 20mm/s 55lt/min.

Coolant motor capacity

Coolant tank capacity

~120lt.

Feeding rate

0-25 teeth/min.

Motor quantity

~6.8kW

11

Voltage

380V, 3Ph

Net/gross weight

Connected load

4200/4300kg

Dimensions

710*250*240cm.

PREMIUM-LOAD



At ABM, we develop our machines, our own electronic systems and application software and manufacture all main mechanical components. finally, we assamble 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 the all market demands.

Tooth Forms Ground in One Cycle

Flat	V	All teeth flat
-	VV	Flat-Flat (Hi-low)
ATB		ATB (Right-Left)
	7111	Right-Left-Left
	1777	Left-Right-Right-Right
	Ď	All right bevels
	I	All left bevels
Triple Chip	• V	Triple chip - Flat
	••	Triple-triple chip (Hi-low)
	•	Triple chip (all teeth triple chip)
	AAO	TRP-R (Triple chip with right-left corner break)
	110	TRP-L (Triple chip with left-right corner break)

Pointed Top	V	Flat-Pointed Top	
_	•	Pointed Top (All teeth pointed top)	
5T (Combo)	7777	5T-1 (Flat-Right-Left-Right-Left)	
	TOTOT	5T-2 (Flat-Left-Right-Left-Right)	
	17474174	5T-3 (Flat-Right-Left-Left-Right-Flat-Right- Left-Left-Right)	
	V DADA	5T-4 (Flat - Right-Left-Right-Left) [For saw blades with irregular tooth pitch]	
	T TOTO	5T-5 (Flat - Left-Right-Left-Right) [For saw blades with irregular tooth pitch]	
D-RIG	4222	Flat-Right-Right	
D-LEF	7777	Flat-Left-Left	
TRP-2F	• VV	Triple Chip-Flat-Flat	
COLD-SAW Optional	1	Free Profile Programming of Cold Saw Blades LOADER is used only for production	

High Accuracy / High Productivity

PREMIUM-LOAD Operating Screens



General operating screen



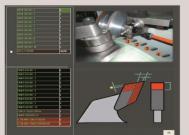
Calibration screen



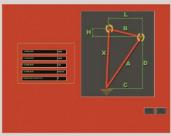
Form selection screen



Measuring probe calibration screen



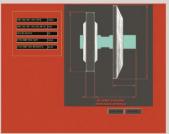
Broken tooth and repair tooth screen



Setup screen



Listing screen



Wheel calibration screen



