

Otomat-96



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

Top & Face Circular Saw Grinder

with hydrolic system and microprocessor control

Linear Bearing System for excellent surface quality

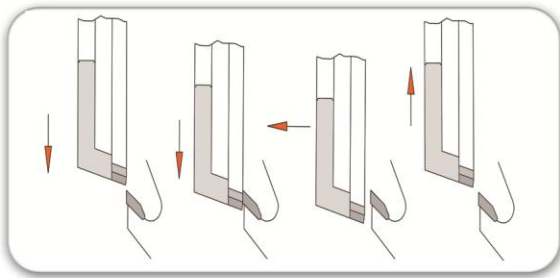
The flexible, profitable solution

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

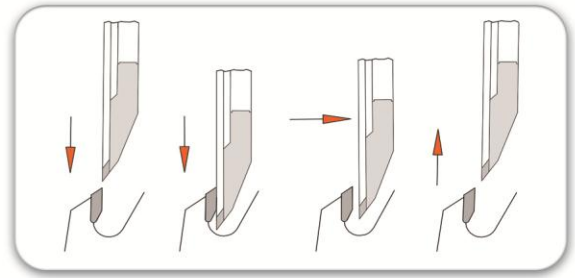
ABM offers the complete solution. Getting the most out of grinder.

OTOMAT-96 is distinguished by its high quality top and face grinding by linear bearing system. It's capable of grinding all tooth forms on wood and aluminium blades. It is a -must have- machine for the facilities as a flexible machine.

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



Top Grinding Operation

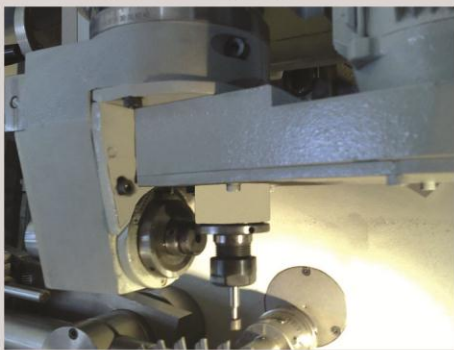


Face Grinding Operation

A versatile response to meet all demands...



Operator-friendly ABM construction for ease of use.
linear bearing system for higher grinding results.



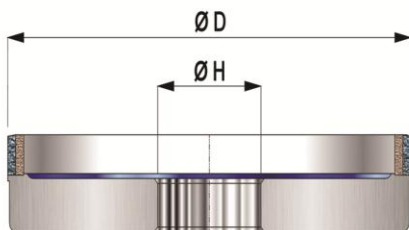
Optional Hollow Tooth Grinding Attachment for
Hollow Face Grinding of Circular Saw Blades.

General Features

- Hydraulic Top and Face Grinding of TCT Circular Blades
- Special plating on mechanical components ensure non-corroding and hardening.
- Optional variable pitch indexing by double index finger.
- Unique grinding quality thanks to the linear bearing system.
- Ready tooth form programs selectable from control panel.
- Grinding of triple-chip tooth form in 3 passes, ATB tooth form in 1 pass and Combo-5T tooth forms in 2 passes.
- Independent grinding speed selection for fore and back grinding.
- Maximum outside diameter Ø750mm.
- Precise indexing control by TIMER function.
- I/O simulation for error diagnostics.
- Separate electrical cabinet of ease of accessibility and high protection.
- Individual Top Flat Width and Height difference adjustment in Triple Chip Form.
- Central lubrication system reducing maintenance and increasing machine life.
- Optional TFT Control Panel for graphic display.
- Totally enclosed cabin, separate electrical cabin and machine cabin.
- Optional strobe saw/wiper-slot blades grinding by special clamping jaws.
- 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 unique 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. ABM Control system eases the grinding operations while increasing your quality.

Otomat-96 machine is equipped for OIL GRINDING operation which increases your machine life, increasing quality and reducing maintenance costs. There are two types of grinding wheels used for top and face grinding by oil cooling:



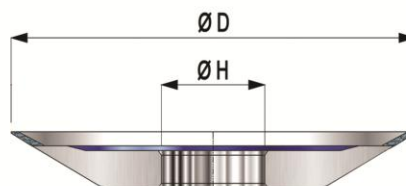
Top Grinding Wheel

FEPA 6AA9

ØD=100mm

ØH=25mm

Double Grid



Face Grinding Wheel

FEPA 12V2

ØD=100mm

ØH=25mm

Optional ØD125mm

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



Standart Numeric Control Panel








Optional TFT Graphic Panel







Technical Specifications

Circular saw outside diameter	Ø80-750mm
Bore diameter	from Ø16mm
Blade thickness	Maximum 6mm
Tooth pitch	Maximum 100mm
Grinding angle	(-10°) - (+30°)
Bevel angle	±45°
Grinding wheel outside diameter	Ø100mm
Grinding wheel bore diameter	Ø25mm
Coolant motor capacity	50 lt/min
Coolant container capacity	~70 lt
Connected load	~3 kW
Net/gross weight	750/775 kg
Dimensions	125*185*210 cm

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:

		Top Grinding Cycle	Face Grinding Cycle
	Triple and Flat tooth	3	1
	Chamfering of segmental and SS saw blades with CBN grinding wheels at the leader teeth	1	1
	Chamfering of saw blades at the leader teeth	1	1
	Flat top	1	1
	All right bevels	1	1

		Top Grinding Cycle	Face Grinding Cycle
	All left bevels	1	1
	Alternate top bevel (ATB)	1	1
	Pointed top	1	1
	Triple chip	2	1
	Flat and pointed top	2	1
	ST - Flat-Right-Left-Right-Left	2	2

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

Otomat-96 Semi-models:

ABM offers semi-models according to your demands: Models with half-enclosure, manual bevelling, bigger diameter capacity up to Ø2200mm. Your ABM expert will gladly give you further information based on your particular requirements.

Otomat-M
Manual bevelling



Otomat-ECO
Semi-enclosure



Otomat-MAX
External capacities up to Ø2200mm

