

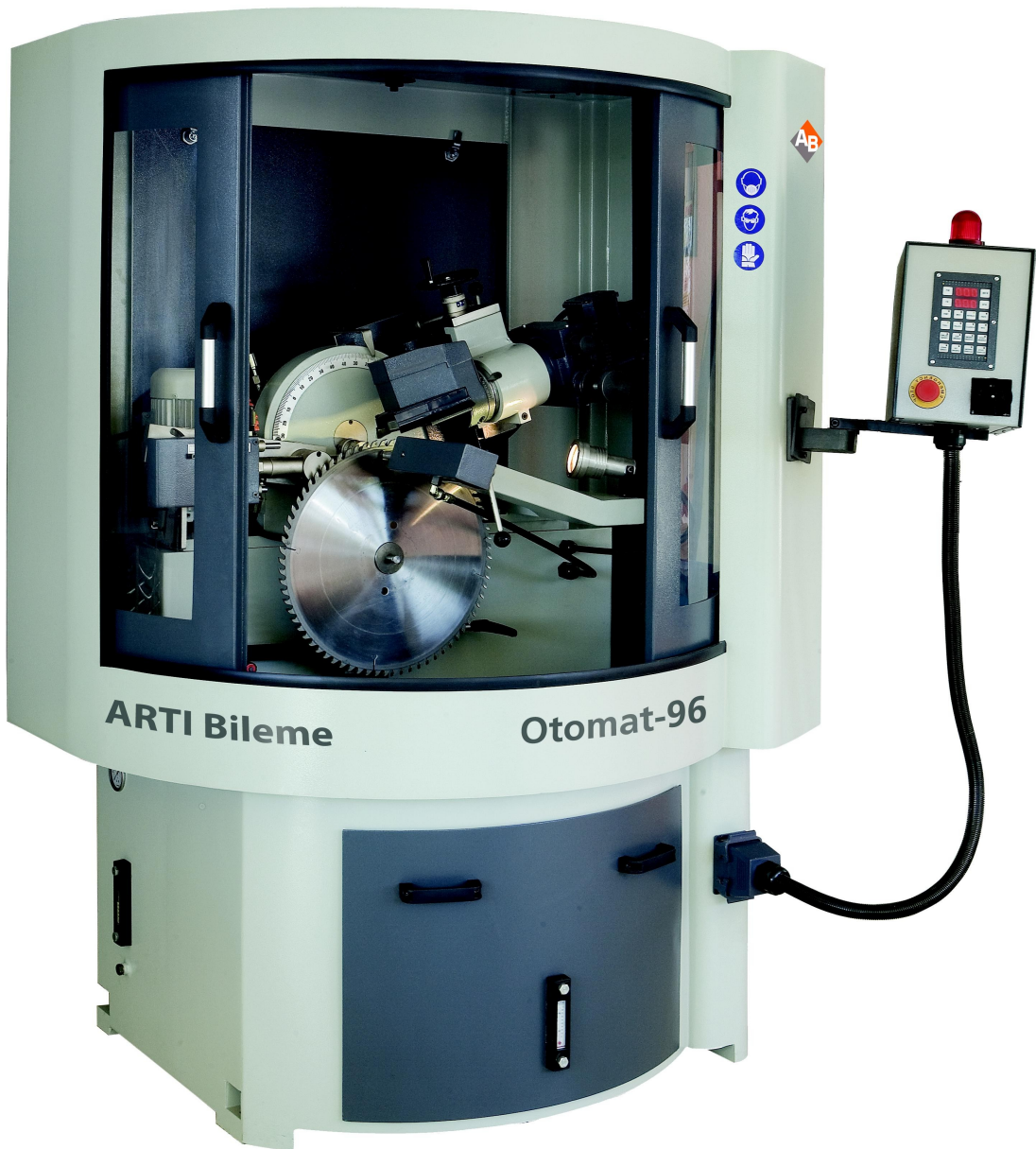


ARTI Bileme

GRINDING & WELDING MACHINERY

OTOMAT-96

HYDRAULIC AUTOMATIC T.C.T. CIRCULAR SAW GRINDER



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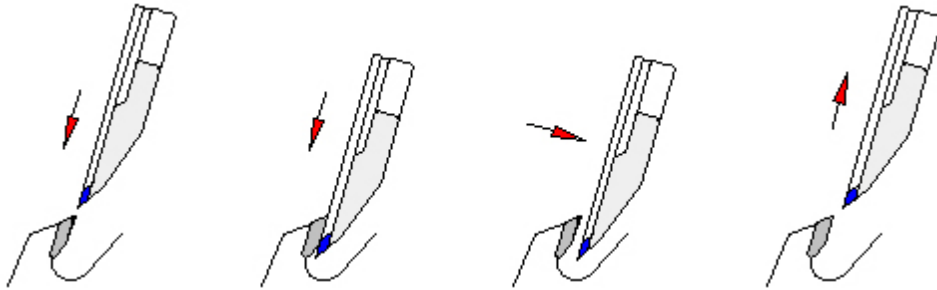
OTOMAT-96

OTOMAT-96 is designed to grind T.C.T. circular saw blades, generally used for cutting timber, pressboard, PVC and aluminum. Its aim is to provide a clean and undamaged cutting edge for the materials used.

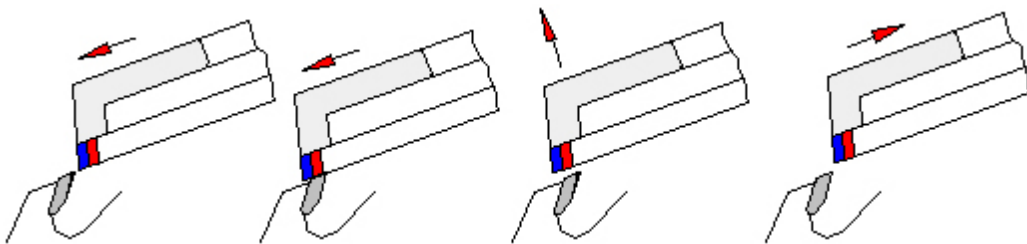
The OTOMAT-96 is capable of grinding standard tooth shapes on carbide tipped circular saw blades up to Ø750mm

There are two different kinds of grinding processes, which can be performed with this machine.

Face Grinding:



Top Grinding:



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General features at a glance:

- Hydraulic driven, microprocessor controlled.
- Lift off face and top grinding.
- Face grinding of ATB tooth form in one cycle.
- Hydraulic driven saw blade clamp by lever.
- Grinding all common tooth types.
- Optional control panel with TFT screen.
- Totally enclosed cabin for operator safety.
- Simple controls for ease of use.
- Rigid base.
- Independently adjustable grinding and indexing speed.
- Production conformed with CE standards.

Capacity: Top/face grinding up to 30-35 T.C.T. circular saws per day.

Technical Specifications:

Circular saw outside diameter	Ø100-750mm
Bore diameter	Ø16-55mm
Blade thickness	Max. 6.0mm
Tooth pitch	7-100mm
Feeding rate	25 teeth/min.
Cutting angle	(-10°) - (+30°)
Bevel angle	±45°
Grinding wheel outside diameter	Ø100mm
Grinding wheel bore diameter	Ø25mm
Grinding motor	1HP
Coolant motor capacity	35lt/min.
Coolant container capacity	~50lt.
Motor quantity	4
Connected load	3kW
Voltage	380V, 3Ph, 60Hz
Net/gross weight	750/775kg
Dimensions	110*150*210cm.

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Hydraulic power unit:

Hydraulic Pump Capacity	3,2 lt / min.
Working pressure	20 Bar
Container Capacity	18 lt
Oil type	tellus 37
Number of valves in use	5 units

Motors on the machine:

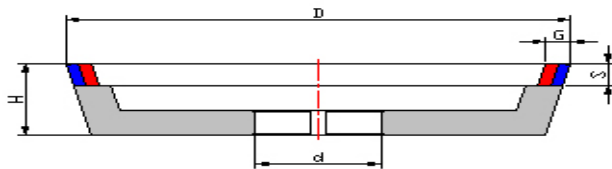
- Grinding wheel motor (Y axis) – [0,75kW 2800 r.p.m.]
- Back clearance & hook angle adjustment motor (B axis) – [0,18kW 1400 r.p.m.]
- Hydraulic motor – [0,75 kW 1400 r.p.m.]
- Coolant motor – [0,09 kW 2800 r.p.m.]

Saw blade holders provided with the machine:

Ø20 – 22 – 25 – 30 – 32 – 35 – 40 – 45 – 50 – 55mm

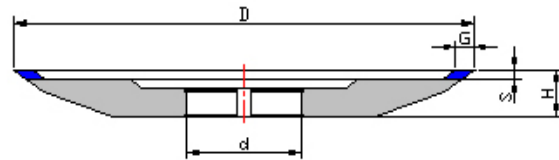
Grinding Wheels:

TOP GRINDING WHEEL



D	Ø100mm
G	5 mm
S	7 mm
H	20 mm
d	Ø25 mm
Type	6A2

FACE GRINDING WHEEL



D	Ø100mm
G	7 mm
S	4 mm
H	12 mm
d	Ø25mm
Type	4A2

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Tooth Forms and Grinding Phases

		Top Grinding phases	Face Grinding phases
	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 and follower teeth with blades-identical chamfering angles at the tooth top	1	1
	Flat top	1	1
	All right bevels	1	1
	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
	5T – Flat-Right-Left-Right-Left	2	2

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Control Panels:

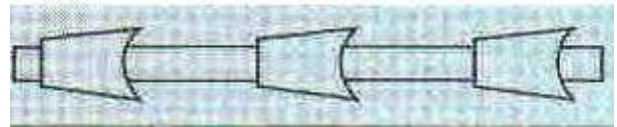
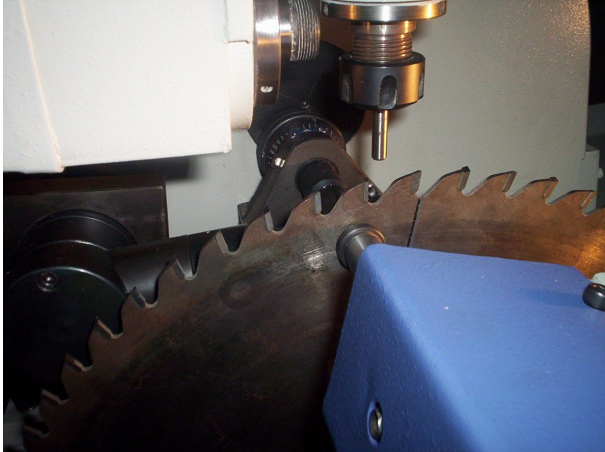
Standard



Optional TFT control panel



Optional Hollow Face Grinding Unit:





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Warranty Period:

Mechanical Guarantee : 1 year against production faults.

Electronic Guarantee : 2 years against production faults.

(The guarantee does not cover the electrical motors and the supplied electrical materials)

Optional Supplements:

- Face grinding wheel.
- Top grinding wheel.
- Optional saw blade diameter up to Ø1200mm.
- TFT screen control panel.
- Grinding program for hogger circular saws.
- Double index finger for hogger circular saws.
- Saw blade holders in various sizes.

(Saw holders up to Ø55mm are provided with the machine free of charge. Each holder for bigger diameters is optional)

- Aluminum magnetic saw blade holder.
- Hollow face grinding unit attachment.
- Air suction unit.
- Manual lubrication pump.
- Closed packing.

To be invoiced separately.

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