



**abm**

*Grinding Technologies*

**52**  
*Years*  
1965-2017

# CIRCULAR SAW GROUP

## Top & Face Grinders



### PREMIUM-LOAD

8 Axes Top and Face Grinding Machines Line  
3 Stations - 8 Axes Servo Motor- CNC Controlled  
Circular Saw Diameter Ø150-600mm (Optional Ø800mm)



### PREMIUM

5 Axes Double Wheel Complete Top and Face Grinder  
In one Cycle - 5 Axes Servo Motor - PC Control  
Automatic Measurement and Tooth data Recognition  
Circular Saw Diameter Ø150-600mm (Optional Ø800mm)



### CNC-PRO-Series

CNC Automatic TCT Circular Saw Grinder  
7 Axes CNC Control - Double Wheel System  
\*Some variants of machine models are not available for German market.  
Circular Saw Diameter: Ø 80-800mm



### CNC-810

CNC Automatic TCT Circular Saw Grinder  
Top and Face Grinder 6 Axes Full CNC Control  
Circular Saw Diameter: Ø80-800mm



### CNC-600

CNC Automatic TCT Circular Saw Grinder  
Top and Face Grinder 6 Axes CNC Control  
Circular Saw Diameter: Ø80-800mm



### CNC-F810

CNC Automatic TCT Circular Saw Face Grinder  
6 Axes CNC Control - Ø200mm Grinding Wheel  
Circular Saw Diameter: Ø100-800mm



### OTOMAT-96

Hydraulic Automatic TCT Circular Saw Grinder  
Top & Face Grinder - Hydraulic Control  
Circular Saw Diameter: Ø80-800mm



### OTOMAT-ECO

Hydraulic Automatic TCT Circular Saw Grinder  
Top & Face Grinder - Hydraulic Control  
Circular Saw Diameter: Ø80-800mm



### OTOMAT-M

Hydraulic Automatic TCT Circular Saw Grinder  
Top & Face Grinder - Hydraulic Control  
Circular Saw Diameter: Ø80-800mm

## Production Center



**LOAD-5**  
14 Axes Top & Face Grinding Machine Line  
5 Stations - 14 Axes Servo Motor - CNC Control  
Circular Saw Diameter: Ø150-600mm (Optional Ø800mm)



**ROBO-X**  
6-Axes Automatic Loading Robot

## Side Grinders



**PREMIUM-DUO**  
8 Axes Double Wheel Complete Side Grinder in One Cycle  
Slide Grinder 8 Axes Servo Motor - PC Control  
Automatic Measurement and Tooth Data Recognition  
Circular Saw Diameter: Ø150-600mm (Optional Ø800mm)



**CNC-DUO**  
CNC Automatic TCT Circular Saw Double Side Grinder Machine  
Automatic Adjustment of Radial and Tangential Angles  
Circular Saw Diameter: Max: Ø125-800mm



**OTOMAT-DUO**  
Hydraulic Automatic TCT Circular Saw Double Side Grinder  
Double Side Grinder - Hydraulic Control  
Circular Saw Diameter: Ø80-800mm



**EDT-2M**  
TCT Circular Saw Manual Double Side Grinder  
Double Side Grinder for Tooth Repair  
Circular Saw Diameter: Ø80-800mm

# CIRCULAR SAW GROUP

## Repair & Maintenance



### SEK-IND

TCT Circular Saw Retipping Brazing Machine  
Brazing Machine for Tooth Repair  
Circular Saw Diameter: Ø80-800mm  
With Induction System



### SEK

TCT Circular Saw Retipping Brazing Machine  
Brazing Machine for Tooth Repair  
Circular Saw Diameter: Ø80-800mm



### BLM-10

TCT Circular Saw Tensioning Machine  
Tensioning Machine for Circular Saw Maintenance  
Circular Saw Diameter: Max. Ø800mm



### MICROTECH

Measurement and Analyze System  
Microtech a system for professional tool analyzation  
coupled with a high-quality optical measuring unit.

# HSS & Cermet Metalworking Grinders



## PNK-AC-CNC Series

CNC HSS Circular Saw Grinder  
 Re-toothing, Tooth Removing, Re-grinding & Chamfering Machine  
 All in One Cycle - 4 Axes Motor - Pc Control  
 Circular Saw Diameter: Ø70-600mm  
 (Optional Ø800mm diameter, Chipbreaker Attachment)



## PNK-AC-SP

HSS Circular Saw Grinder  
 Full Enclosure - Profile Grinder - Cam Driven - Chamfering Ability  
 Circular Saw Diameter: Ø80-800mm



## PNK-AC-S

HSS Circular Saw Grinder  
 Half Enclosure - Profile Grinder  
 Chamfering Ability - Cam Driven  
 Circular Saw Diameter: Ø80-800mm



## PNK-AC

HSS Circular Saw Grinder  
 Profile Grinder - Chamfering Ability  
 Cam Driven  
 Circular Saw Diameter: Ø80-800mm



## ACM

HSS Circular Saw Chipbreaker  
 Grinding Machine  
 Circular Saw Diameter: Ø70-630mm  
 (Optional 800mm)

# BAND SAW GROUP

## Band Saw Grinders



### PNK-CNC

CNC Band Saw Grinding Machine Profile Grinder  
2 Axes CNC Control - Profile Grinder - Software for Variable Tooth Pitches  
Band Saw Width: 50-200mm (Optional up to 300mm)



### PNK-MAX

Automatic Heavy Duty Band Saw Grinder  
Profile Grinder - 300mm Wheel - Cam Driven - Microprocessor Control  
Automatic Lifting - Full Enclosure - Band Saw Width: 300mm



### PNK-SP

Automatic Band Saw Grinding Machine  
Profile Grinder - Cam Driven - Microprocessor Control  
Automatic Lifting - Full Enclosure - Band Saw Width: 15-250mm



### PNK-SB

Automatic Band Saw Grinding Machine  
Profile Grinder - Cam Driven - Microprocessor Control  
Automatic Lifting - Half Enclosure - Band Saw Width: 15-200mm



### PNK-AB

Automatic Band Saw Grinding Machine  
Profile Grinder - Cam Driven  
Band Saw Width: 15-150mm



### PNK-WM

Automatic Band Saw Grinder with Coolant  
Optional Coiler System - Optional Full Enclosure  
Profile Grinder - Cam Driven - Band Saw Width: 15-150mm



### A-45

Automatic Band Saw Grinding Machine  
Profile Grinder - Cam Driven  
Band Saw Width: 15-100mm

## Side Grinders



### EM-S

Band Saw Double Side Grinding Machine  
Side Grinder - Cam Driven - Coolant System  
Band Saw Width: 70-250mm (Optional up to 300mm)



### EM-92H

Band Saw Double Side Grinding Machine  
Side Grinder - Cam Driven - Dry Grinding  
Band Saw Width: 70-250mm (Optional up to 300mm)

## Stellite Tipping



### SUK-92

Band Saw Stellite Tipping Machine  
Stellite Tipper - Automatic Annealing Control  
Stellite Rod Diameter: Ø4/5/6mm  
Band Saw Width: 60-250mm (Optional up to 300mm)



### SAT-300

Full Automatic Band Saw Stellite Tipping Machine  
Automatic Stellite Tipping and Automatic Annealing  
Stellite Rod Diameter: Ø4/5/6mm  
Band Saw Width: 60-300mm



### SUK-A

Full Automatic Band Saw Stellite Tipping Machine  
Automatic Stellite Tipping and Automatic Annealing CNC Control  
Stellite Rod Diameter: Ø4/5/6mm  
Band Saw Width: 250mm (Optional up to 300mm)

# BAND SAW GROUP

## Setting & Tooth Tip Hardening



**IND-3500**

Tooth Tip Hardening Machine  
By Induction Heating System  
Band Saw Width: 10-150mm



**SCM-I**

Automatic Band Saw Setting Machine  
Setting Machine - Cam Driven  
Band Saw Width: 10-120mm

## Swaging / Welders



**PT-20**

Automatic Band Saw Swaging & Shaping Machine  
Sawging & Shaping in One Operation - Cam Driven  
Band Saw Width: 70-200mm



**MIG-IST**

Band Saw Welding Machine  
With built-in Annealing System-Welder  
Microprocessor Control - Ready Programs  
for Different Types of Blades  
Band Saw Width: 10-200mm (Optional 300mm)



**ST**

Band Saw Welding Burr Remover  
Welding Burr Remover  
Band Saw Width: Max. 200mm  
(Optional 300mm)

## Tensioning



**STDM-I**

Rolling Machine for Manual Tensioning of Band Saw  
Tensioning Machine and Levelling Bench  
Band Saw Width: Max. 250mm (Optional 350mm)



# UNIVERSAL TOOL GRINDERS

## PCD Grinders



### SPARQ-Series

Erosion Grinding Machine for PCD Tools, 5-Axes CNC Controlled  
 For erosion grinding of diamond(PCD) circular saw blades, hoggers, helical cutters, router bits, profile knives and moulders.

\*Some variants of machine models are not available for German market.

#### Technical Specifications:

Tool outer diameter.....	Ø600mm
Tool weight.....	Maximum 30kg
Grinding Length.....	Maximum 150mm
Connected Load.....	~5kW
Wheel Diameter.....	Maximum Ø150mm

## Carbide & HSS Tool Grinders

### UTB SERIES

For Grinding finger Jointer Knives, Panelling Cutters, Straight Milling Cutters, Router Bits

#### Technical Specifications

Grinding Wheel Cutting Rev. ....	3000 r.p.m.
Rotation Diameter in Axis.....	200 mm
Wheel Motor Height Movement.....	Vertical 250mm
Wheel Motor Hook(infeed)Angle.....	±45°
Ground Tool Diameter.....	Ø50-300mm
Table Dimensions.....	690x230mm
Table Movement X/Y.....	250/20mm
Divisor Rotation Angle.....	360°
Divisor Output Number.....	2-3-4-6-8-12



Standard

### OPTIONALS



Optional Helical Attachment



Optional Circular Knife Attachment



Optional Motorized Divisor Attachment



Optional Power Lock Attachment



UTB-POWER (Hydraulic)



UTB-H (Hydraulic)

# KNIFE GRINDERS

## OPB Series



OPB-630

### Technical Specifications

Grinding Length \_\_\_\_\_ 650mm  
 Plate Dimensions \_\_\_\_\_ 60x80x600mm  
 Wheel Diameter \_\_\_\_\_ Ø150mm  
 Motor Quantity \_\_\_\_\_ 3  
 Motor Power \_\_\_\_\_ 1.1kW/2800rpm  
 Grinding Speed \_\_\_\_\_ 0-11 m/min.  
 Automatic Infeed \_\_\_\_\_ 0.04mm



Single Multiple



OPB-850

### Technical Specifications

Grinding Length \_\_\_\_\_ 850mm  
 Plate Dimensions \_\_\_\_\_ 60x80x800mm  
 Wheel Diameter \_\_\_\_\_ Ø150mm  
 Motor Quantity \_\_\_\_\_ 3  
 Motor Power \_\_\_\_\_ 1.1kW/2800rpm  
 Grinding Speed \_\_\_\_\_ 0-11 m/min.  
 Automatic Infeed \_\_\_\_\_ 0.04mm

## OP Series



Model	Grinding Length	Plate Dimensions(mm)	Wheel Diameter	Motor Power	Grinding Speed	Automatic Infeed
OP-850	850 mm	80X160X850 mm	Ø200mm	4kW/1400 rpm	0-11m/min.	0.04 mm
OP-1050	1050 mm	80x160x1050 mm	Ø200mm	4kW/1400 rpm	0-11m/min.	0.04 mm
OP-1500	1500 mm	80x160x1500 mm	Ø200mm	5,5kW/1400 rpm	0-11m/min.	0.04 mm
OP-2000	2000 mm	80x160x2000 mm	Ø200mm	5,5kW/1400 rpm	0-11m/min.	0.04 mm
OP-2500	2500 mm	80x160x2500 mm	Ø200mm	5,5kW/1400 rpm	0-11m/min.	0.04 mm
OP-3000	3000 mm	80x160x3000 mm	Ø200mm	7,5kW/1400 rpm (10 kW Optional)	0-11m/min.	0.04 mm



Mechanic Plate with T-Slot System,  
Optional Reversible-Knife Grinding for Inserts



Optional Magnetic Plate



Optional Infeed by Motor Control  
(0,005mm)

## Maintenance



### KLM-09

Hydraulic Knife Leveling Machine  
Hydarulic Levelling Machine for Maintenance  
Max. Knife Length: 200mm (Standard Length)

## Accessories



### FILTRON

Filtration Device for Oil  
Max. filtration 100 litres/min.  
2 pieces of vertical cartridge system.  
The system can work individually on all machines.



### ULTRA-550

Ultrasonic Cleanng Unit for Tools  
Maximum 550mm diameter saw blades  
Multiple cleaning of 20 saw blades at once easily

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*Continuous development since 1965...*

Since 1965, ABM has been serving the most advanced technologies of the world by producing grinding, welding and setting machines. With decades know-how, we have always aimed the best and the most advanced technology, and also regarded the customer satisfaction as a priority. To help today's grinding and sawmill companies to become more profitable, we are proud to present to the world market the partial, ideal, the most competitive products and state-of-the-art technologies in reasonable prices as a result of our comprehensive researches.

ABM machines form wholeness by being reliable, productive and economic to serve the customer the best quality. Also by updating the new tooth profiles that are being used in today's technologies, our machines reasonably ease the tough and severe grinding environments for the operators working with grinding machines.

ABM machines provide complete solutions to meet the needs of grinding lines, saw blade service companies, manufacturers and in-plant grinding machines by offering a range of complete machinery for tooling technologies.

ABM cares customers with proactive approach. We thank our clients to hold us at the top segment of global brands.



ABM reserves the right to make design alterations regarding technical process.  
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 **abm**  
Grinding Technologies



ITOB 10011 Sok No:6 Tekeli 35477 İzmir TÜRKİYE  
Tel: +90 232 782 66 44 /14 68 Fax: +90 232 782 23 90  
www.abmmakine.com • info@abmmakine.com