

54  
Years  
1965-2019



*Continuous development since 1965...*

Since 1965, ABM has been serving the most advanced technologies of the world by producing grinding and welding 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 shops and tooling companies to become more effective, we are proud to present to the world market the practical, 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 geometries that are being used in today's technologies, our machines reasonably ease the tough and severegrinding environments for the operators working with grinding machines.

ABM machines provide complete solutions to meet the needs of grinding lines, saw 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.  
Some variants of machine models are not available for German market.

 **abm**  
Grinding Technologies



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**abm**

Grinding Technologies

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## 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 Dia.: Ø 80-600mm (Opt. Ø800mm)

## Production Center



### LOAD-5 (PD)

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



### CNC-810

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



### CNC-650

CNC Automatic TCT Circular Saw Grinder  
Top and Face Grinder 6 Axes CNC Control  
Circular Saw Diameter: Ø80-650mm



### CNC-F810

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



### PREMIUM-DUO

8 Axes Double Wheel Complete Side Grinder in One Cycle  
Side 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-96

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



### OTOMAT-ECO

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



### OTOMAT-M

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



### 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: Ø80-600mm (Opt. Ø800mm)

## Repair & Maintenance



**OTOSAD-98**  
Hydraulic Automatic TCT Circular Saw Relief Grinder  
Relief Grinder-Hydraulic Control  
Circular Saw Diameter: Ø80-750mm



**OTOSAD-98-ECO**  
Hydraulic Automatic TCT Circular Saw Relief Grinder  
Relief Grinder-Hydraulic Control  
Circular Saw Diameter: Ø80-750mm



**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: Ø80-600mm (Opt. Ø800mm)



**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 analysis  
coupled with a high-quality optical measuring unit.

## HSS & Cermet Metalworking Grinders



**PRESTIGE**  
5 Axes HSS Circular Saw Grinder  
Re-Toothing, Tooth Removing - 5 Axes Servo Motor - PC Control  
Automatic Measurement & Tooth data Recognition, Automatic Chamfering  
Circular Saw Diameter Ø150-600mm (Optional Ø800mm)



**PRESTIGE-LOAD**  
8 Axes HSS Circular Saw Grinding Machine Line  
5 Stations - 8 Axes Servo Motor - CNC Control  
Circular Saw Diameter: Ø150-600mm (Optional Ø800mm)



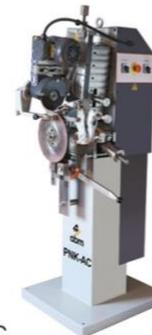
**PNK-AC-CNC Series**  
CNC HSS Circular Saw Grinder  
Re-toothing, Tooth Removing,  
Re-grinding & Chamfering Machine  
All in One Cycle - 4 Axes Servo Motor - Pc Control  
Circular Saw Diameter: Ø70-600mm  
(Optional Ø800mm diameter, Chipbreaker Attachment)



**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



**DCM**  
HSS Circular Saw Double Side Chamfering  
Grinding Machine  
Circular Saw Diameter: Ø150-630mm  
(Optional 800mm)



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

# BAND SAW GROUP

## Band Saw Grinders



### PNK-CNC SERIES

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 360mm)  
Optional 3 Axes CNC Control



### 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 Cooler 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

# BAND SAW GROUP

# UNIVERSAL TOOL GRINDERS

## Setting & Tooth Tip Hardening



**IND-3500**  
Tooth Tip Hardening Machine  
By Induction Heating System  
Band Saw Width: 10-150mm



**SCM-1**  
Automatic Band Saw Setting Machine  
Setting Machine - Cam Driven  
Band Saw Width: 10-120mm

## Welders



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



**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)

## Swaging & Shaping



**PT-20**  
Automatic Band Saw Swaging & Shaping Machine  
Sawging & Shaping in One Operation - Cam Driven  
Band Saw Width: 70-200mm

## Tensioning



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

## PCD Grinders



For Circular Tools



For Side Grinding

### 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

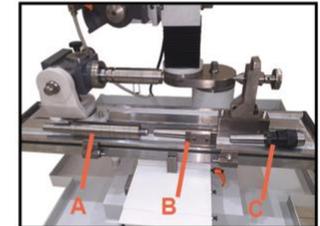
#### Technical Specifications

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



#### Basic Attachments

- A- Connection shaft with bushings
- B- Clamp for inserts
- C- Mandril



Optional Helical Attachment



Optional Circular Knife Attachment



Optional Motorized Dividing  
Head Attachment



Optional Power Lock  
Attachment



UTB-POWER (Hydraulic)



UTB-H (Hydraulic)

# KNIFE GRINDERS

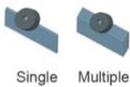
## OPB Series



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 Magnetic Plate (with T-Slot) System on one side



Optional Magnetic Separator



Optional mechanical Magnet for carbide inserts



Automatic tilting option for magnetic bed - Automatic Infeed option by Motor control

## Maintenance



KLM-09

Hydraulic Knife Leveling Machine  
 Hydraulic Leveling Machine for Maintenance  
 Max. Knife Length: 2000mm (Standard Length)



HND

Manual Edge Honing Device  
 for Paper Knives and Veneer Blades

## ACCESSORIES



FILTRON

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



ULTRA-600

Ultrasonic Cleaning Unit for Tools  
 Maximum 600mm diameter saw blades  
 Multiple cleaning of 20 saw blades at once easily



PLS-600

Automatic Polishing Machine  
 Maximum 600mm diameter saw blades  
 Automatic cycle system, Cooling System



Mist-X

Air Filter System  
 For the filtration of oil mist, emulsion mist (emulsion with high oil content) and smoke