

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 severe grinding 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)



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



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

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

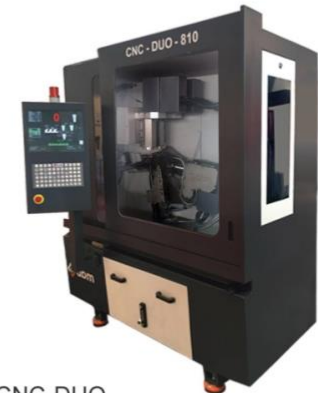
6-Axes Automatic Loading Robot

Side Grinders



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-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 unit
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)



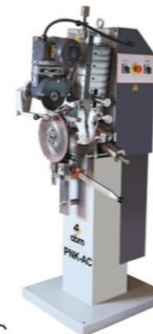
PNK-AC-SP

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 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

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

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
Sawing & 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)

UNIVERSAL TOOL GRINDERS

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

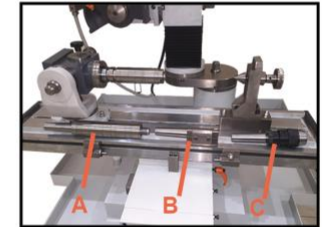
Technical Specifications

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/Y250/20mm
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)

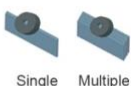
KNIFE GRINDERS

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



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



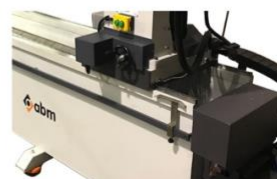
Optional Magnetic Plate (with T-Slot System on one side)



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 Levelling 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