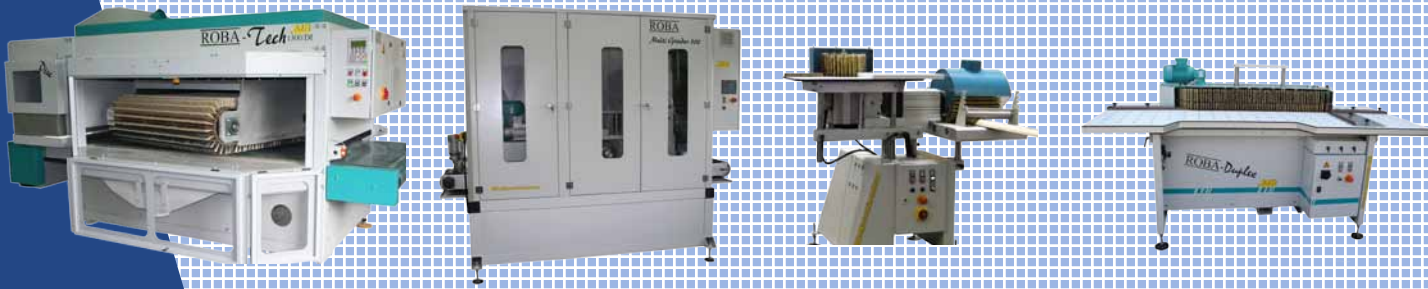


# Metal working machines

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[www.mb-maschinenbau.de](http://www.mb-maschinenbau.de)

## ROBA

Tech

Profi Disc

Turbo Brush

Profi Clean

Belt

Multi Grinder

Multi Sand

# MB

**MB Maschinenbau GmbH**

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CE

# Ideas in Quality

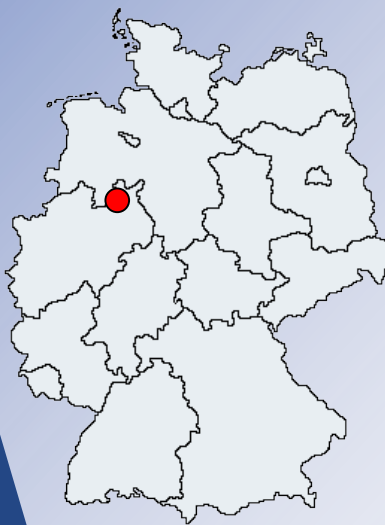
# **MB** Maschinenbau GmbH



For trials you are welcomed in our test laboratory.

Or you may visit us at our exhibitions in Europe or overseas.

Further information:  
[www.mb-maschinenbau.de](http://www.mb-maschinenbau.de)



## ● **Company location**

Nordrhein-Westfalen  
Hiddenhausen, near Bielefeld  
depart highway  
A30 Hiddenhausen

### Airports

Hannover, Münster,  
Paderborn, Dortmund

## **MB Maschinenbau GmbH**

Founded: 1992  
Founder: Ronald Busch  
Gen. manager: Ronald Busch  
Production: sanding machines and special machines for the woodworking and metal industry

Exhibitions in Europe and overseas:  
Ligna – Hannover  
EuroBlech – Hannover  
Xylexpo – Mailand  
IWF – Atlanta  
AWFS – Las Vegas  
Woodshow – Dubai

Company motto  
„Ideas in Quality“



# **MB**

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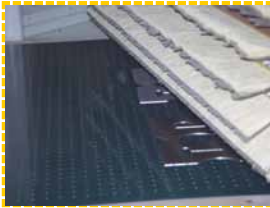
004 –	<b>Surface denibbing machines</b>	
	<u>ROBA</u> -Tech	(004 – 005)
008	<u>ROBA</u> -Profi Disc	(006)
	<u>ROBA</u> -Profi Brush	(007)
	<u>ROBA</u> -Profi Clean	(008)
	<u>ROBA</u>	

009 –	<b>Moulding sanding machines</b>	
	<u>ROBA</u> -Multi Grinder	(014 – 015)
010	<u>ROBA</u> -Belt	(016 – 017)

011	<b>Edge sanding machines</b>	
	<u>ROBA</u> -Multi Sand	(011)
	<u>ROBA</u>	

# ROBA-Tech

## Metal denibbing machine



Brush belt for a effective denibbing in all areas



Optimized denibbing and edge rounding of all kind of metal



Profi Disc aggregate as an option at machine exit

### Roba-Tech ... operation areas

The patented **Roba-Tech** principle is used for the denibbing and rounding of all kind of metal sheets.

The rotational brush belt system for optimal processing in the field of:

- \* denibbing of Laser, Plasma and Water Cut metal parts
- \* edge rounding
- \* with or without protection cover
- \* surface finishing

Due to its innovative sanding method the **Roba-Tech** offers on all these areas optimal suppositions for best denibbing and edge rounding results.

Work piece hold down with vacuum or individually adapted to customer demands.

## Roba-Tech

"We save your quality and productivity."





The **Roba-Tech** with extreme large sanding area for perfect results



The sanding belt consists of easy interchangeable brush segments



Denibbing of lasered work pieces

### Standard configuration

(Special constructions on request)

Roba-Tech 650 DI	Roba-Tech 1300 DI	Roba-Tech 1300
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#### Machine data:

Machine length:	2800 mm	3860 mm	3860 mm
Machine width:	1550 mm	2400 mm	2400 mm
Machine height:	2000 mm	2000 mm	2000 mm
Working width:	650 mm	1300 mm	1300 mm
Electrical power:	11 KW	16 KW	21 KW

(Technical details are subject to change)



Roba Tech 650/DI

### Roba-Tech ... sanding method

The main idea of the Roba Tech principle is to avoid the main disadvantage of all today known rotational brushing machines: Those who work normally with sanding drum and a diameter of about 300 mm in a very small area in touch with the work piece, about 20 mm. Only in the vertex of the radius of the tool a denibbing process is possible. To compensate the very small sanding area normal brush systems have to increase their rotation speed to a high degree. Only in this way they have a chance to be effective.

But this results a "hard touch" of the sanding paper which leads to an aggressive behavior on the surface, high temperatures, short abrasive life span.

The innovative and patented Roba Tech is equipped with a totally new developed brush belt containing 174 sanding strips and provides a sanding area of approx. 1300 x 1600 mm in touch with the work piece and more than 250 meters of abrasive material on all aggregates.

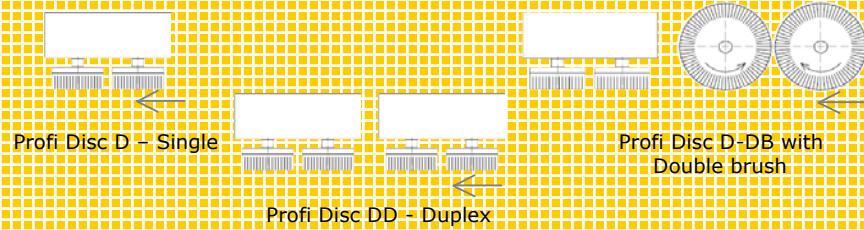
This is unique on the market of metal brush machines. A 360 ° rotation of the sanding aggregate makes it possible to reach consistently all edges and corners of a work piece .

Due to the extremely enlarged sanding area in connection with high abrasive quantities the machine guarantees best denibbing and edge rounding results.

# ROBA-Profi Disc

Surface sanding machine

## Combinations for the Roba-Profi Disc



## Roba-Profi Disc ... operation areas

The **Roba-Profi Disc** principle is used for denibbing and edge rounding of all kind of metal sheets.

The rotational brush belt system for optimal processing in the field of:

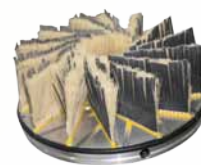
- \* denibbing of Laser, Plasma and Water Cut metal parts
- \* edge rounding
- \* with or without protection cover
- \* surface finishing

## The 3-axis rotational disc system:

- 1st. axes: the disc tool rotates
- 2nd. axes: the disc system containing four disc tools rotates
- 3rd. axes: the whole unit oscillates

All axis can be set up separately to influence the sanding pattern according to customer demands.

The full rotation of all units leads to a uniform surface finish without any orientation of the sanding pattern.



## Roba-Profi Disc

„Sanding quality – one step ahead“

# ROBA-Turbo Brush

Denibbing, Satining, Finish machine



The **Roba Turbo Brush** can be set up with different tools according customer demands



Double aggregates working clock and/or counter clockwise with special structuring and brush tools.



The **Roba Turbo Brush** is equipped with two, three or four aggregates. For large production volumes or deep material cut out areas we recommend the four head configuration.

## Advantages of the Roba Turbo Brush principle

1. Optimal denibbing results
2. Optimal edge rounding
3. Optimal surface finish

## Roba Turbo Brush ... operation areas

**Roba-Profi Turbo Brush** is an alternative in the area of finishing applications for a fair price-gain relation. The concept is used for:

- \* denibbing of Laser, Plasma and Water Cut metal parts
- \* edge rounding
- \* with or without protection cover
- \* surface finishing

The **Turbo Brush** machine line guarantees as a through feed solution high productivity.

Machine with constant transport level and equipped with strong and solid motor drives up to 11,0 KW power.

Machine for industrial use satisfying high expectations. To be integrated into every production line, if needed with coil roll and unroll units.

To achieve satisfying results in metal working the machine is constructed with a turned transport belt to be able to plunge with the brush tools under the transport level. Due to this the effectiveness on the surface is much higher.

## Roba Turbo Brush

"A matter of better finish!"

# ROBA-Profi Clean

Surface Cleaning machine



Transverse working cleaning aggregates, consisting of an oscillating four brush unit. On demand top and bottom units.



Optional with transversal belt unit



Special feather brushes already used in the automotive industry. The Profi Clean takes advantage of this experience.

## Roba-Profi Clean ... operation areas

**Roba-Profi Clean**, the alternative cleaning solution for metal parts for a reasonable price is constructed for the following operation areas:

- \* *Cleaning of metal sheets and metal coils*
- \* *Cleaning of metal parts with variable cut-out areas*

The **Roba-Profi Clean** as through feed solution guarantees high productivity with best cleaning results. Solution as stand alone version or for large amounts directly before the production line. Many users have the problem of imbedded dust particles to show up in the sheet batch or in the coil.

Ordinary machines are cleaning with transverse or straight units. Both versions are not able to show satisfying results. Only a combination of both movements is able to guarantee optimized cleaning.

The new MB system solves the problem with the help of an oscillating cross unit in addition to the straight unit. These units take care that the whole part is cleaned completely, even complicated contours are possible. Special brushes collect the dust, ionization brushes reduce static loads, and a blower system finish the cleaning process. On demand the machine is deliverable with a bottom cleaning unit.



The **Roba Profi Clean** is available with one double brush and a crosswise unit. The cross unit consists of four brushes and is completely oscillating. As an option a transversal bottom cleaning unit is available.

## Roba-Profi Clean

“Cleaning at its best!”

008

# MB

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# ROBA-Multi Grinder

Denibbing, Satining, Finish machine

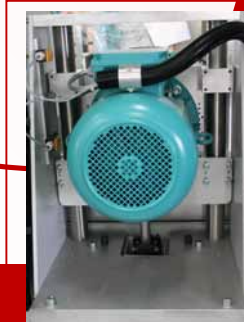
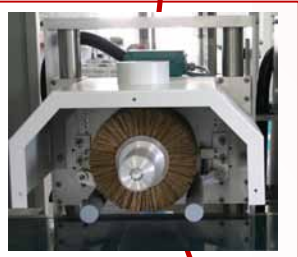


The **Roba Multi Grinder** can be set up with various tools according to customer demands

Due to the various types of disc tools the machine can be adapted to all needed finishes

Belt aggregate for basic sanding and work piece calibration

## Machine features



## Roba Multi Grinder ... operation areas

**Roba-Profi Multi Grinder** is an alternative in the area of finishing applications for a fair price-gain relation. The concept is used for:

- \* denibbing of Laser, Plasma and Water Cut metal parts
- \* edge rounding
- \* work piece calibration
- \* surface finishing

The **Multi Grinder** machine line guarantees as a through feed solution high productivity.

Machine with constant transport level and equipped with strong and solid motor drives up to 11,0 KW power.

Machine for industrial use satisfying high expectations. To be integrated into every production line, if needed with infeed and outfeed devices.

Due to the modular construction the machine can be adapted to all customer demands.

The free selection between belt, brush and disc aggregates ensures perfect results for all imaginable applications and finishes.

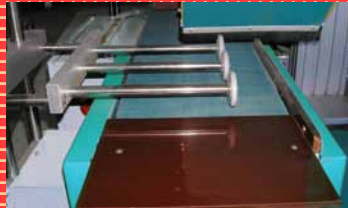
An optional vacuum transport system is able to feed small parts.

## Roba Multi Grinder

"Absolute flexibility for perfect finish!"

# ROBA-Belt

Denibbing, Satining, Finish machine



Top pressure roller ensures secure part transport



**DB**  
Double brush sanding unit for even better results



Rail guided oscillation and height setting at the column

## Roba-Belt ... operation areas

The **Roba-Belt** brush belt sanding system is a unique development of MB in the area of metal processing.

Due to the modular construction the user is able to choose out of various finish aggregates coming out of the MB line. Parts can be feeded in a through feed process or with the help of customized clamp devices.

The picture shows a denibbing machine for cabrio top fasteners and will be integrated in a robot welding cell.

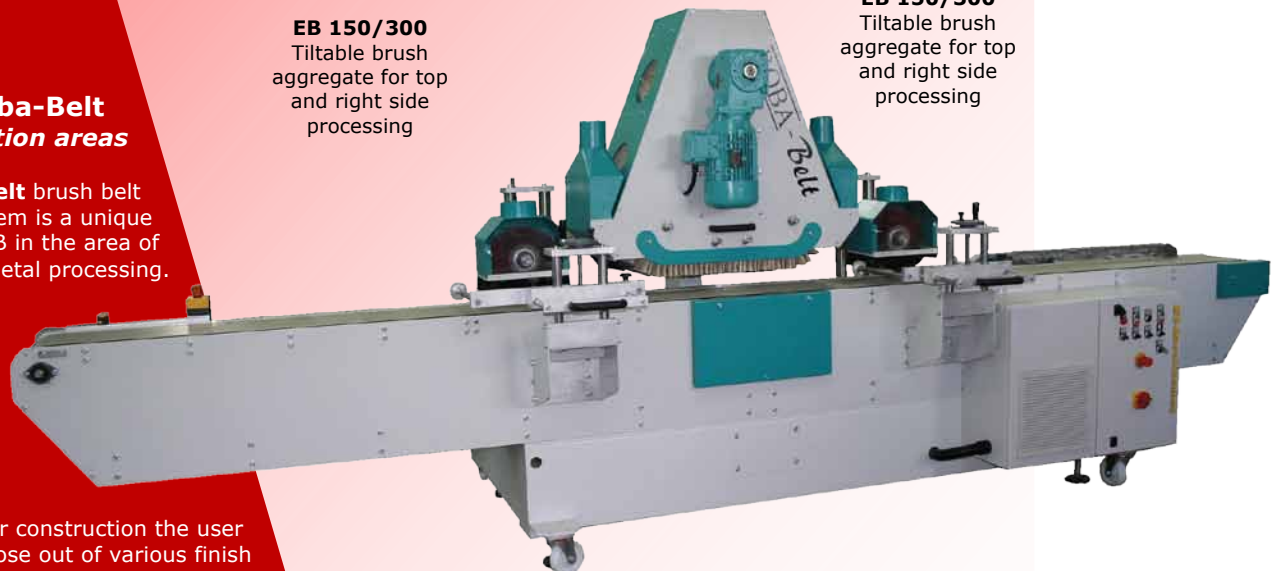
## Roba-Belt

„A convincing system!“

**EB 150/300**  
Tiltable brush aggregate for top and right side processing

**RB 300**  
Oscillating brush belt unit for top processing

**EB 150/300**  
Tiltable brush aggregate for top and right side processing



The picture shows a customized clamping solution for automotive parts

# ROBA-Multi Sand

## Pedestal Brushing Machine



The vertical sanding unit is tiltable, the desk is fully adjustable



The horizontal unit is usable for manual work and with the help of the attached feed system to be set up as a through feed device



Horizontal aggregate to be used from top



### Roba-Multi Sand ... operation areas

The **Roba-Multi Sand** is developed for smaller work shops that need to sand and denib small amounts of all kind of work pieces.

A vertical unit is suitable for the sanding of edges.

The horizontal unit is mainly used for all kind of jobs that need a more aggressive sanding.

As a plus for the user MB implemented an easy to set up solution for parts to be treated from top in a through feed process. The feed system is already mounted on the machine and can be moved in place with an easy turn. A pressure roll system holds pieces down during the deburring process.

Operation areas:

- \* edge sanding
- \* curved parts sanding
- \* through feed deburring

The **Roba-Multi Sand** machine stands out due to the simple operation and optimal results. The time for processing is shortened considerably.

## Roba-Multi Sand

„Simply the best!“



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You're welcome



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