

# STEELLINE



**DEBURRING  
& GRINDING  
MACHINES**

[www.rwt.cz](http://www.rwt.cz)

  
Rojek wide belt sanders

# COMPANY PROFILE

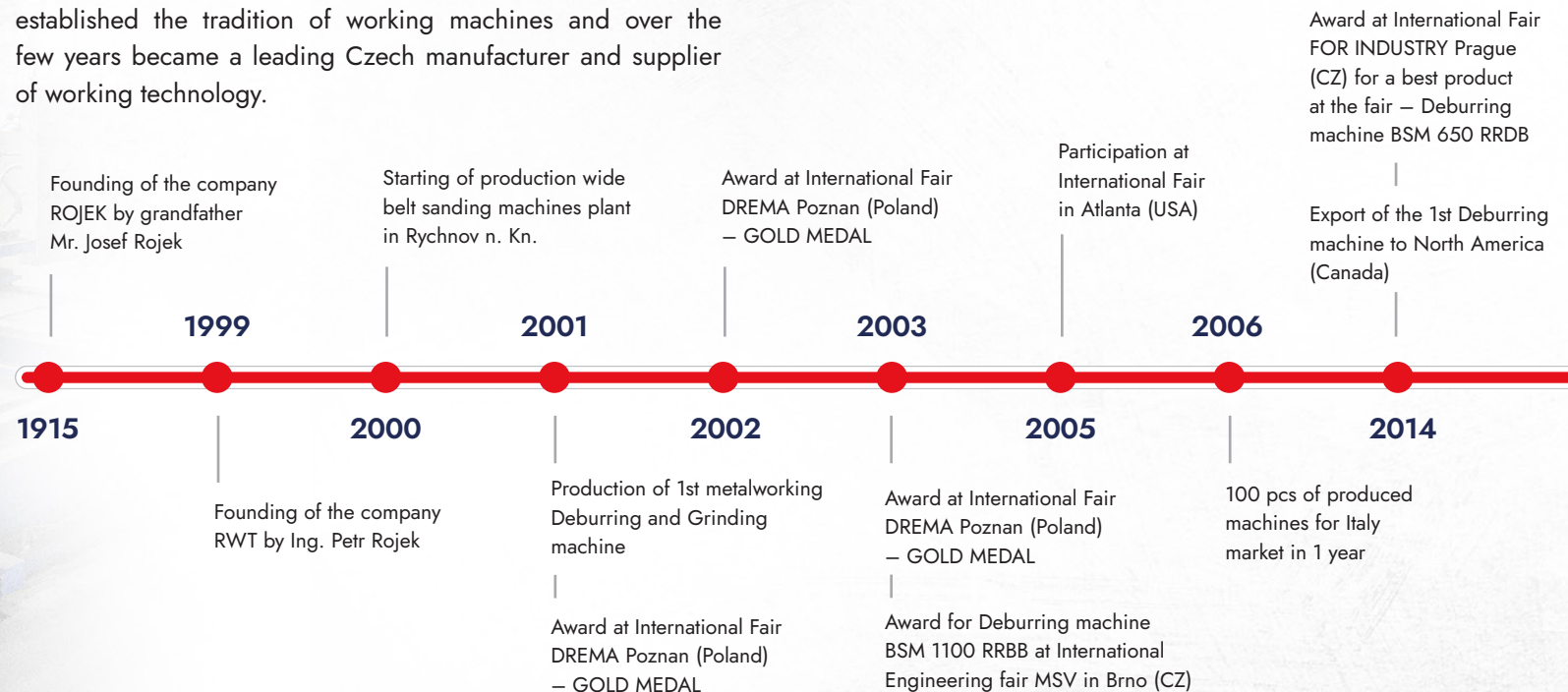
## History

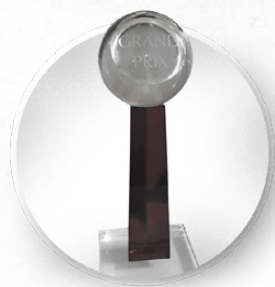
The roots of the company date back to 1915, when Josef Rojek, the great-grandfather of today's owner, Ing. Petr Rojek, founded a Rojek company in Častolovice. The company achieved significant growth and successfully sold its working machines all over the world.

After the restitution of the family property, in 1991, the activity of the company was renewed and Ing. Petr Rojek became its co-owner along with his father and brother. The company quickly established the tradition of working machines and over the few years became a leading Czech manufacturer and supplier of working technology.

## Present

In 1999, Ing. Petr Rojek decided to carry out his ideas about the further development by separating and founding his own company RWT, Ltd. based in Rychnov nad Kněžnou. The main focus of the company is the manufacture of metalworking machines designed for operations of grinding, deburring and finishing of metal materials. Technical solutions, versatility, quality of processing and ease of operating the machines are the main factors of achievements in sales all over the world so far.

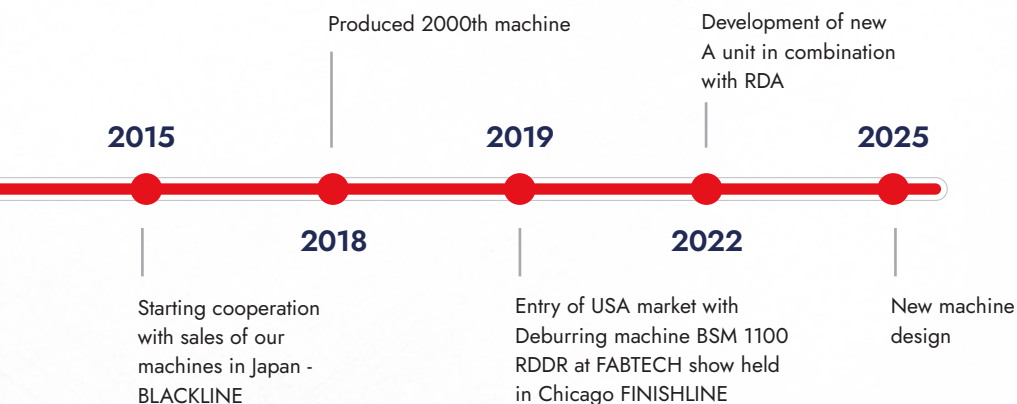




## Scope and Awards

The company is purely Czech and ranks among the leading European manufacturer of Deburring and Grinding machines. These machines replace strenuous and fairly dangerous manual work while deburring and grinding of metal parts.

After several years of operation on our and foreign markets, our company receives a **GOLD medal** from the MSV International Fair in Brno and wins the **Grand Prix** at the FOR INDUSTRY Fair in Prague.



## Main values and advantages

- Individual access and technical solution for each customer
- Exceptional reliability through its robust construction and intelligent design, making it a true workhorse
- Variability and compact size – modular system of the machines
- Mutually interchangeable units B for D - compatibility
- Using of quality machine components – Schneider Electric, LENZE and SICK
- Firendly using machines – intuitive controlling system with 7,5" or 10,4" Touch screen, possibility of using IOT
- Universatility – you can make Deburring, Deslagging, Edge rounding, Oxide removal and final surface finishing with 1 machine in 1 pass
- Low operating costs
- Quick fitting system of consumable materials for easy and fast changing
- Tilting control panel and plexi glass doors – you can tilt main control panel and see the process inside the machine and easily change working parametres
- Motorized lifting of the units – easy adjusting of the working parametres from main control panel
- ROLL ON system of the units D and B – you can easily slide with the unit out of the machine and change consumable materials - friendly using
- Disc brush unit with 2 rows of the brushes – 1st row CW and 2nd row CCW
- Assistant – simplifies work and eliminates operator errors
- Automatic measuring of material thickness



# WORKING UNITS

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**R**

Deburring rubbered roller diameter  
120 (180, 240) mm

Hardness 70 – 35 Sh – Primary burrs  
removal and final surface finishing

Length of grinding belts 1900 (2200) mm

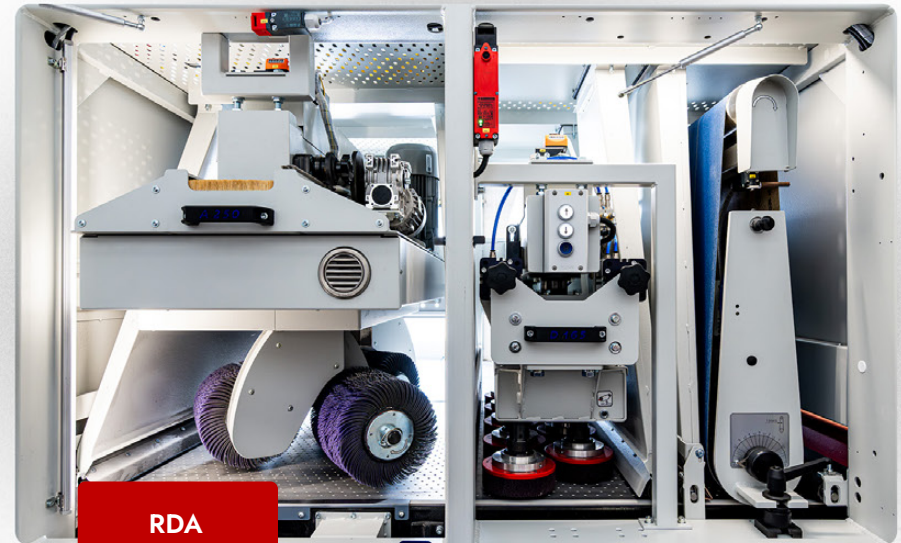


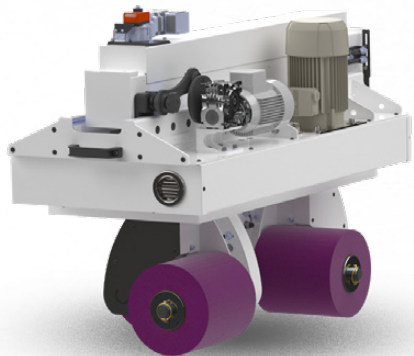
**D**

Disc brush unit with disc diameter  
165 (155, 260) mm

Quick fitting system

Edge rounding, oxide layer and slag  
removal

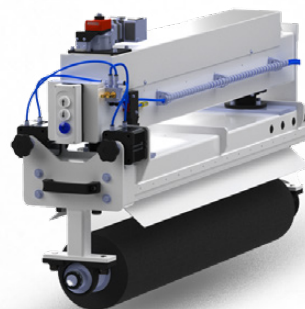




Rotary unit with brushes  
250 x 250 mm

Quick fitting system

Edge rounding, surface  
unification



Brush diameter 200  
(300) mm for final surface  
polishing



## RECOMMENDED UNITS



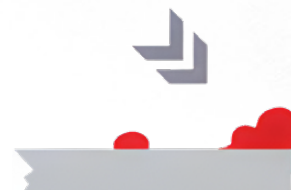
Primary burrs removal



Edge rounding



Oxide removal



Slag removal



Final surface polishing





# TECHNICAL PARAMETERS

Machine type	BSM 650	BSM 1100	BSM 1300	BSM 1600
Working width	650 mm	1 100 mm	1 300 mm	1 600 mm
Number of units	1 - 6	1 - 4	1 - 4	1 - 4
Diameter of rubbered roller R	120 mm	180 (240) mm	180 (240) mm	240 mm
Number of discs in unit D	7	10	12	16
Disc diameter	155 mm 165 mm 260 mm	155 mm 165 mm 260 mm	155 mm 165 mm 260 mm	155 mm 165 mm 260 mm
Brush diameter B	200 mm	200 (300) mm	200 (300) mm	300 mm
Length of the sanding belt	1 900 mm	1 900 (2 200) mm	1 900 (2 200) mm	2 200 mm
Number of wheels A	2x	4x	4x	--
Wheel size A	250x250 mm	250x250 mm	250x250 mm	--
Part thickness min-max	0,2 - 160 mm	0,2 - 160 mm	0,2 - 160 mm	0,2 - 125 mm
Conveying speed	0,2 - 10 m/min.	0,2 - 10 m/min.	0,2 - 10 m/min.	0,2 - 10 m/min.

# MACHINE EQUIPMENT

## Basic machine includes

Automatic measurement device



Hypalon conveyor belt



Touch screen 10,4" (BSM 650 – 7,5")



Tilting panel and plexi glass doors



Pneumatic control height of the roller R



Motorized lifting of the units D, A, B



Vacuum fan silencer



## Optionally

Magnetic table



Vacuum table



Combi table – magnet + vacuum



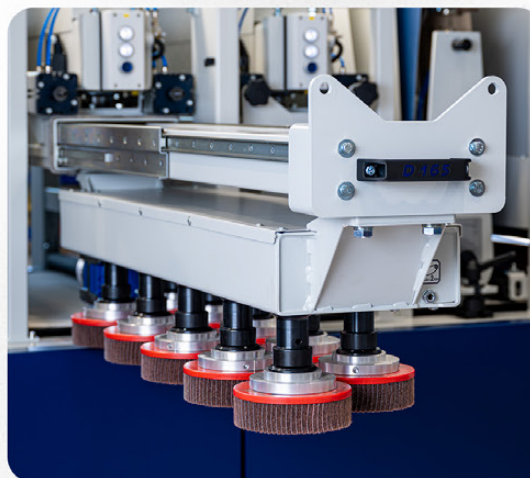
Motorized lifting of the unit R



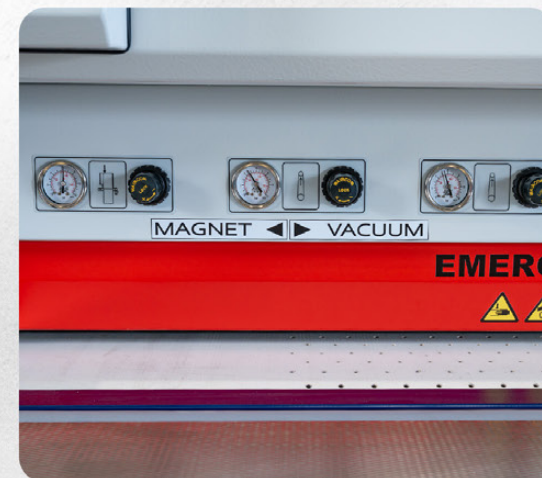
Automatic measurement and lighting of the work area



Tilting panel and plexi glass doors



Sliding system **ROLLON**  
BY TIMKEN

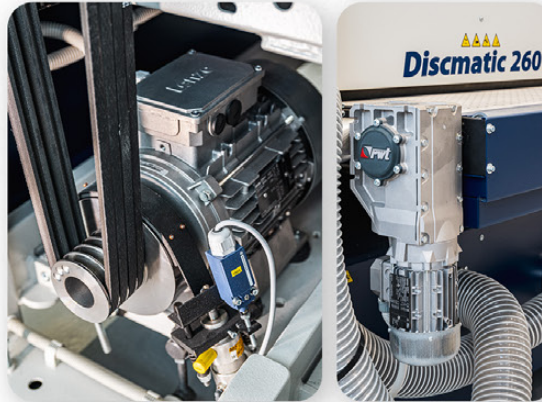


Combi table magnet / vacuum

# MACHINE EQUIPMENT



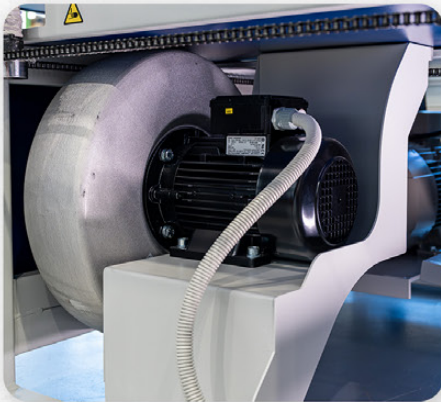
Electrobox – components **Schneider Electric**



Drives **Lenze**



Disc brush unit **Discmatic 260**



Vacuum fan built inside the machine  
(Types 1100, 1300 & 1600)



20 min  
Mutually interchangeable units B, D



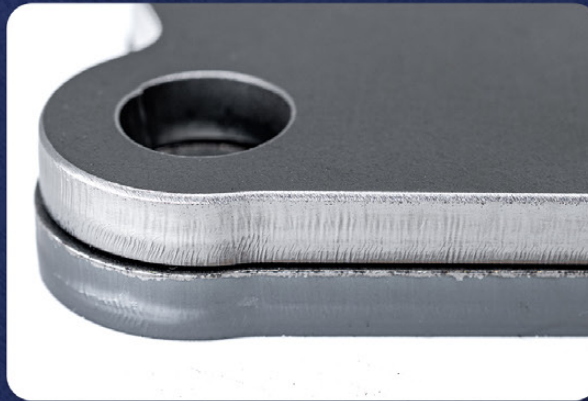
Vacuum fan silencer

# PARTS BEFORE / AFTER

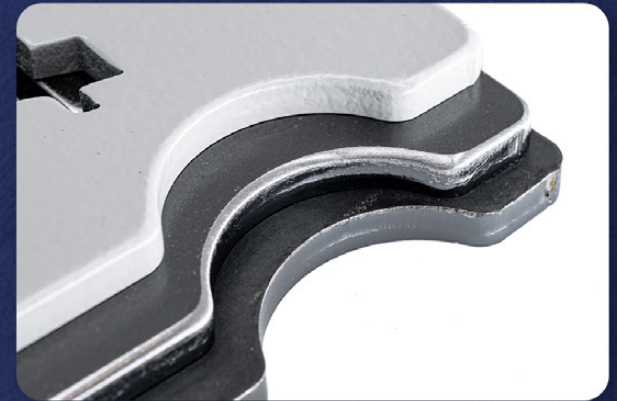
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Deburring and edge rounding – steel



Oxide layer removal



Part preparation before painting



Roughening of the material surface



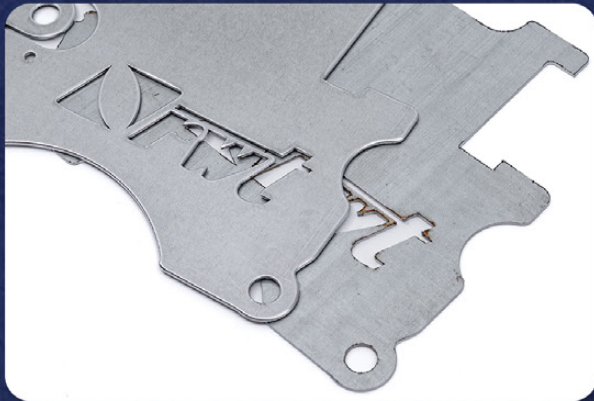
Rust removal



Deburring and final surface - stainless steel

# PARTS BEFORE / AFTER

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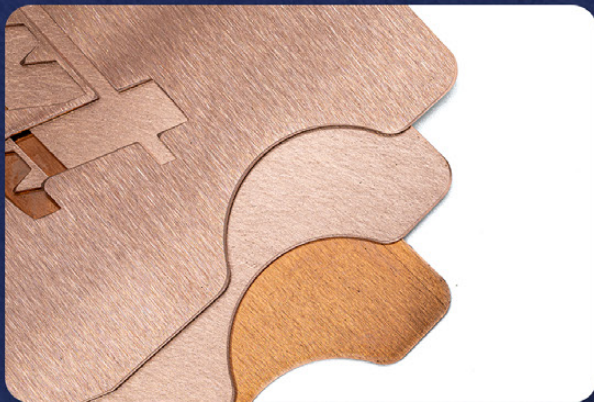
Deburring of the galvanized parts



Deburring and edge rounding of the aluminium parts including final surface finishing



Removal of copper oxidation



Final surface finishing – copper



Edge rounding of foiled parts without damaging the protective foil



Slag removal, edge rounding and large radius

# WORKING TOOLS

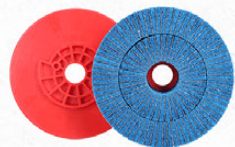
## Brown

Steel, stainless, aluminium



## Blue

Stainless, steel



## Green

Steel, stainless, foiled and galvanized parts



## Grey

Aluminium, plastic



## Gold

Stainless, steel



## Purple

Stainless, aluminium, steel



## Cubitron I

Steel



## Oxide removal disc

Steel



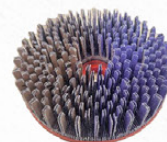
## Deslagging brush

Steel



## HERO R2

Stainless, aluminium, steel



## Velcro

Stainless, aluminium, steel



## Flap Wheel

Steel, stainless, aluminium



## Yellow

Foiled parts



## Quick adapter



## Purple Bora 3

Steel, stainless, aluminium



## Purple X-Cut

Stainless, aluminium, steel



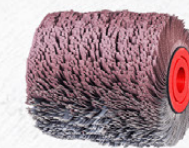
## Cubitron II

Steel



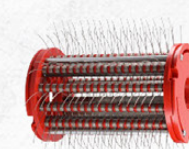
## Brown

Stainless, aluminium, steel



## Oxide removal wheel

Steel



## Flange



## Vebrax brush

Final surface finishing





*Manufacturing of working machines with tradition*

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