

LOEWER

RotoMaster 1500

JMA
JIM'S MACHINES & ACCESSORIES



Perfect edge rounding, up to 2mm radius.

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RotoMaster 1500

Unique rotary brush machine for deburring, edge rounding, oxide removal and finishing



Innovative rotary brush head:

- Compact unit with high edge rounding power for radius up to 2mm
- Oscillating technology
- Possibility to use different brushes with varying diameters at the same time



FOR LASER-CUT, PLASMA-CUT AND PUNCHED SHEET METAL
FOR FOILED, ZINC-PLATED AND 3D PARTS
FOR STEEL, STAINLESS STEEL, ALUMINIUM

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RotoMaster 1500

The RotoMaster 1500 works with the newly developed rotary brush head with unique features. Eight counter rotating brushes on one head, the head turns around a vertical axis while oscillating across the work pieces. The result is a very uniform processing from all angles and directions, 360°. It is possible to achieve an even edge rounding of up to 2mm radius.

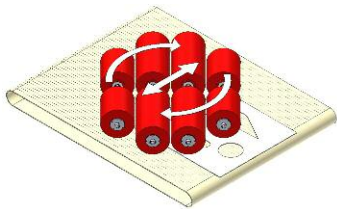


- Uniform, 360° edge rounding from all directions on inside and outside contours
- Uniform wear of brushes, independent of the size of the work piece or its position on the feed belt
- Strong edge rounding of up to 2mm radius
- Brushes create very little heat, ideal for processing of foil-coated or zinc-coated sheet metal

The RotoMaster 1500 can be equipped with an abrasive belt station in front and/or behind the rotary head for deburring or finishing applications. The abrasive belt stations feature our unique floating head system, which allows the entire unit to move out of the way if the grinding pressure gets too high. This system prevents the workpiece from overheating and protects the expensive contact drum from damage.

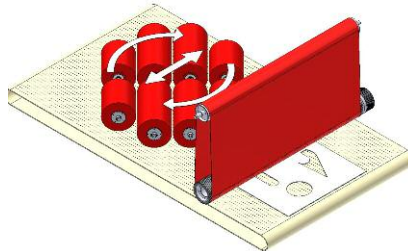
The RotoMaster 1500 comes in three different executions:

RotoMaster R-1500



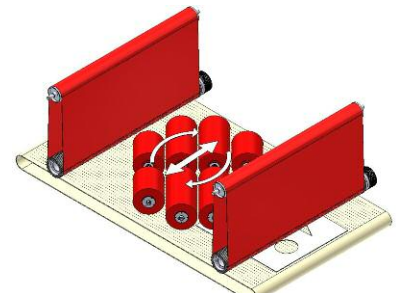
- Edge rounding
- Edge rounding + oxide removal

RotoMaster KR-1500



- Deburring + edge rounding
- Deburring + edge rounding + oxide removal
- Finishing

RotoMaster KRK-1500



- Deburring + edge rounding + finishing
- Deburring + edge rounding + oxide removal
- Grinding + finishing

The abrasive belt unit

removes higher burrs and spatter. The speed of the abrasive belt can be increased by frequency converter in order to create a linear finish. A large variety of abrasive belts and nylon abrasive belts are available for different applications.

The floating head system

Processing bended parts or applying too much pressure can result in damaging the contact drum of the abrasive belt unit. With our optional floating head system the abrasive belt unit can move out of the way when the pressure gets too high. The pressure is adjustable pneumatically. This unique technology is a great safety feature when it comes to keep the contact drum in good shape.

The rotary brush head

Eight counter rotating brushes on one head, the head turns around a vertical axis while oscillating across the work pieces. The result is a very uniform processing from all angles and directions, 360°. It is possible to achieve an even edge rounding of up to 2mm radius.

The four outside brushes can be adjusted separately in height and rpm compared to the four inside brushes. This unique feature allows the use of different brush types with different diameters at the same time, for example abrasive brushes for rounding and wire brushes for oxide removal.

Advantages:

- Uniform, 360° edge rounding from all directions on inside and outside contours
- Uniform wear of brushes, independent of the size of the work piece or its position on the feedbelt
- Strong edge rounding of up to 2mm radius
- Brushes create very little heat, ideal for processing of foil-coated or zinc-coated sheet metal
- Compact design, large total brush length of 3200mm and the rotary head needs 1300mm in length only
- The compact design leads to less space for the machine and a more effective vacuum for holding small parts (50mm x 50mm)
- Additional oscillation of the head leads to more uniform results over the full width of the machine
- The 4 outside brushes are separately adjustable in height and rpm compared to the 4 inside brushes, ideal for using two different brush types at the same time, like edge rounding + oxide removal
- Possibility to run parts with varying thicknesses without any adjustments (rotary head only)
- Increased safety with unique floating head system
- Constant height of through feed table, ideal for using additional conveyor tables
- Quick change system for abrasive belt and brushes
- For processing laser-cut, plasma-cut, waterjet-cut or punched sheet metal parts
- Processing stainless steel, mild steel, aluminium, copper,
- working width 1500mm standard
- Touch panel control for adjusting all machine parameters like work piece thickness, feed speed, rpm of brushes, head, oscillation and abrasive belt, penetration of abrasive belt and brushes, compensation of brush wear. Storing of machine programs



Abrasive belt unit with floating head system



Equipped with 8 abrasive brushes for edge rounding

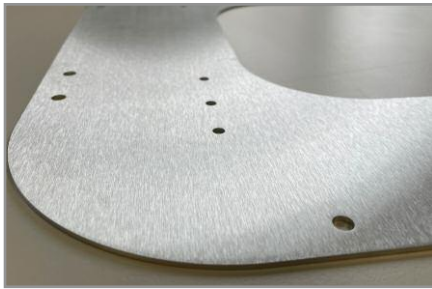


Equipped with 4 abrasive brushes and 4 spring wire brushes for edge rounding and oxide removal

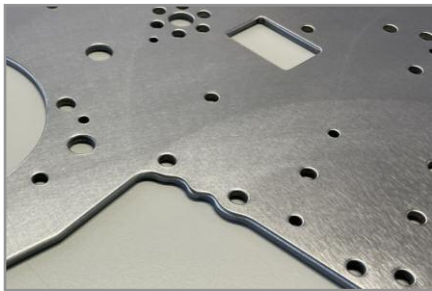


coloured Touch panel control with program memory

Technical data RotoMaster 1500



Stainless Steel finishing and edge rounding



Steel edge rounding



Edge rounding up to radius 2mm

Abrasive belt unit:

- abrasive belt motor 15kW, contact drum D=180mm, with spirally grooved rubber roller
- eccentric height adjustment for setting abrasive belt thickness
- pneumatically controlled oscillation of abrasive belt
- pneumatic tensioning of abrasive belt
- motorized height adjustment of abrasive belt unit and setting of grinding penetration by Touch panel
- emergency off switches left and right of abrasive belt and when belt tears
- two strong spring loaded rubber covered hold down rollers
- variable abrasive belt speed 7-16m/s by 15kW frequency inverter
- floating head system for abrasive belt unit with pneumatic pressure adjustment

Rotary head:

- two inside spindles with 4 brushes, diameter 250mm, length 500mm
- two outside spindles with 4 brushes, diameter 250mm, length 300mm
- The 4 outside brushes are separately adjustable in height and rpm compared to the 4 inside brushes
- head rotation with variable rpm by frequency inverter
- head oscillation with 500mm stroke and variable rpm by frequency inverter
- Quick change system for brushes and abrasive belt
- motorized adjustment of brush penetration and wear of brushes via Touch panel

Basic machine:

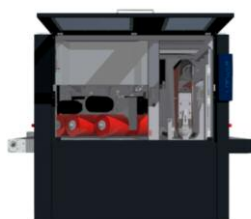
- maximum width of work piece: 1500mm
- high grip feed belt with 11kW high pressure vacuum ventilator, smallest parts 50mm x 50mm
- variable feed speed 0,3m - 3m/min by gear motor with frequency inverter
- Automatic tracking of conveyor belt, pneumatically-controlled
- Constant height of through feed table
- Motorized adjustment of work piece thickness
- Touch panel control for adjusting all machine parameters like work piece thickness, feed speed, rpm of brushes, head, oscillation and abrasive belt, penetration of abrasive belt and brushes, compensation of brush wear. Storing of machine programs.
- LED bar at infeed for showing status of machine
- LED lightning inside machine, windows at the left hand door
- width x height: 2150mm x 2100mm
- length: RotoMaster R: 2800mm, RotoMaster KR: 3200mm, RotoMaster KRK: 3650mm
- 400V, 50Hz, 3P, air connection, dust extraction connection, CE

Optional Extras

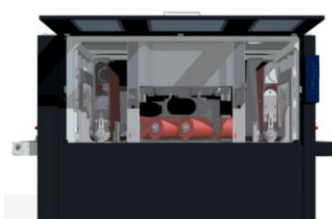
- Integrated rotating brush for cleaning conveyor belt
- Sensor for measuring work piece thickness and automatic setting of thickness
- Magnetic track 200mm wide for holding small ferritic parts
- Suitable wet dust extraction units for operating stainless steel, mild steel or aluminium



RotoMaster R
2800mm



RotoMaster KR
3200mm



RotoMaster KRK
3650mm