

# HEAVY-DUTY GRINDING MACHINES FOR FOUNDRY



WHAT WE DO

LEADER IN LATIN AMERICA, REBEL  
DEVELOP AND MANUFACTURE  
HEAVY-DUTY AND MODERN  
EQUIPMENT FOR **DEBURRING,  
GRINDING, SANDING AND  
CUTT-OFF** FOUNDRY, FORGED  
AND MICRO-CAST PARTS OF  
DIFFERET SIZES AND MATERIALS.

OUR MACHINES USE:

**GRINDING WHEEL, SANDING BELT  
OR CUTTING DISC.**



**THE REBEL EQUIPMENT, FOLLOW  
THE NORMS REQUIRED BY THE  
ASSOCIATION BRAZILIAN  
TECHNICAL STANDARDS AND  
SECURITY LAWS.**



**THE EQUIPMENT IS TESTED  
AND APPROVED BY THE  
ENGINEERING AND CUSTOMERS  
AT REBEL BEFORE DELIVERY.**



Brazilian association of  
machines and foundries.

# 1970

## ABOUT US

Located in Brazil since 1970, REBEL manufactures machines for deburring castings. There are several models of equipment geared towards the foundry industry. Over 3,000 machines manufactured and distributed throughout Latin America



**SHEET STRUCTURE STEEL  
SOLDIER FOR PERFECT STABILITY  
AND A STRONG AND LONG  
DURABILITY OF THE MACHINE.**

**MACHINING ON LATHES  
CNC TO GUARANTEE  
STANDARDS AND MEASURES  
TECHNIQUES REQUIRED.**





# HEAVY-DUTY WHEEL GRINDING MACHINES

Heavy duty wheel grinding machines  
for **grinder castings of different  
sizes and materials.**

# HEAVY-DUTY WHEEL GRINDER MACHINES

## 600RB60

Power:.....15 HP

Wheel size

Diameter:.....24" (609,6 mm)

Width: .....50 or 60 mm

Internal diameter: 8" (203,2 mm)

Wheel Speed: 63 mts/ sec.  
3 stations of variable speed  
of wheel grinding.

Automatic BodyGard System to  
protect the operator in case of  
wheel breakage.



600RB60

The 600RB60 can grander  
80% MORE PARTS than old  
machine with dual wheel grinding  
(through axle).



**Automatic BodyGard system  
to protect the operator in case  
of wheel breakage.**

## 400RB60

Power: .....7,5 HP

Wheel size

Diameter:.....16" (406,4 mm)

Width: .....50 or 60 mm

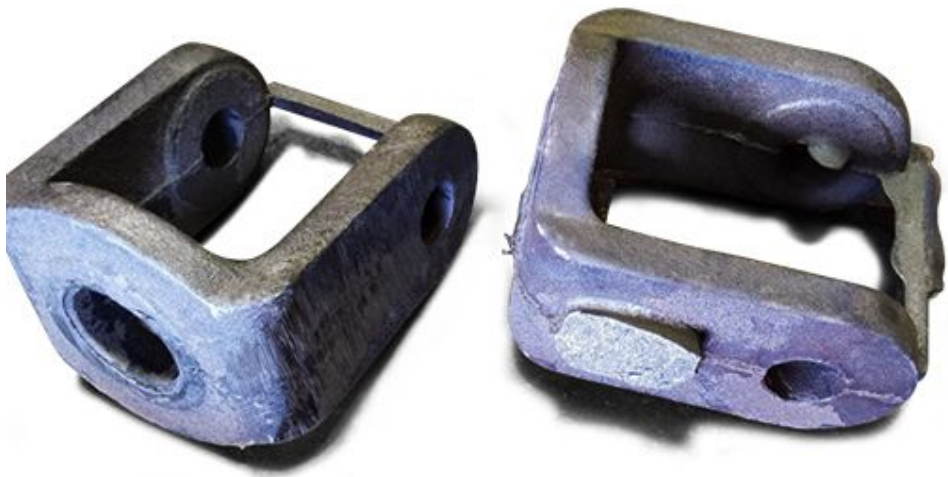
Internal diameter: .....5" (127 mm)

Wheel Speed:.....63 mts/ sec.

Automatic BodyGard System to protect  
the operator in case of wheel breakage.



400RB60



grinded by  
600RB60



# SWING FRAME GRINDING MACHINE

The Swing Frame Grinder is a heavy-duty and versatile machine with movements, for grinding large castings and forged parts.

Power: .....20 HP

Wheel size  
Diameter: .....20" (508 mm)  
Width: .....60 mm  
Internal diameter: .....8" (203,2 mm)

Wheel Speed: .....63 mts/ sec.  
Angulation system: .....0° to 90° / 0° to 45°

Automatic machine shutdown if the operator moves away from it.

Automatic shut-off machine if the grinding wheel protection door is opened.



"SWING" system that allows ANGLE of the grinder at 0-90° facilitating the angular attack on the part.



ON - OFF button on handlebar



Electric panel





# **AUTOMATIC WHEEL GRINDING MACHINES**

**HEAVY DUTY WHEEL GRINDING  
MACHINE FOR **DEBURRING**  
**FOUNDRY PARTS** OF DIFFRENT  
SIZES AND MATERIALS**

# AUTOMATIC WHEEL GRINDING MACHINES

## R-MASA



Automatic heavy Duty Machine for grinding round geometry castings of different sizes and materials.

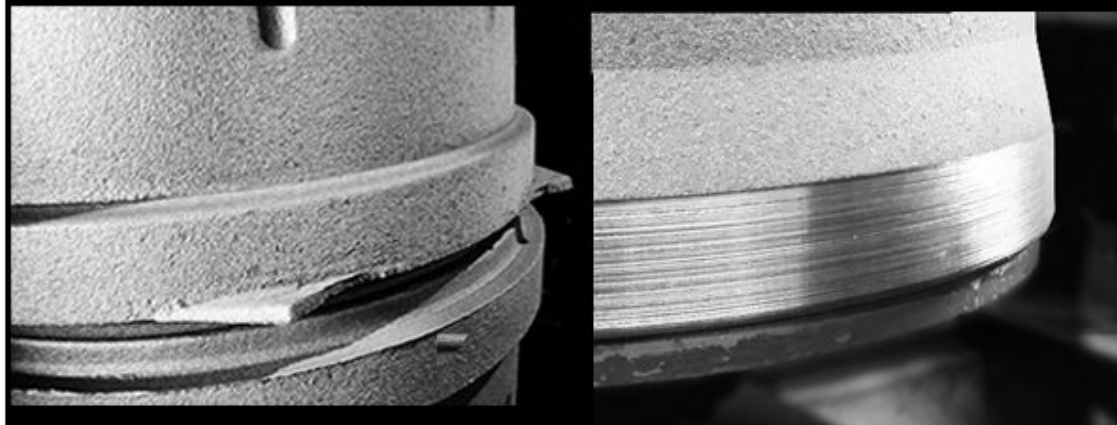
Working with conventional / diamond wheel or sanding belt, the R-MASA is ideal for standardizing the finish, more productivity and safety of work.

Protection cabin  
Quick and easy set-up  
180° turntable (optional)

Power: ..... 15 HP

Wheel size  
Diameter: ..... 16" (406,4 mm)  
Width: ..... 50 or 60 mm  
Internal diameter: ..... 5" (127 mm)

Wheel Speed: ..... 63 mts/ sec





# WHEEL GRINDING HORIZONTAL FLAT MACHINE

Automatic and linear design for grinding cast, forged and micro-fused flat face parts.

Operating in line with 1 or more finishers, the grinder can operate with wheel grinding or sanding belt. **This machine is ideal for large series productions.**

# WHEEL GRINDING HORIZONTAL FLAT MACHINE



RPH

Automatic and linear design for grinding cast, forged and micro-fused flat face parts.

Operating in line with 1 or more finishers, the RPH can operate with wheel grinding or sanding belt. This machine is ideal for large series productions.

Programmable process speed.  
Quick and easy set-up.  
Refrigerated or dry operation.  
Allows you to remove material from sizes.

# SANDING BELT MACHINE

## AZ

Model:.....AZ Single or double belts

Power: .....5 or 7,5HP

Belt size:.....3000 x 50 or 75mm

Belt speed:.....33mt/ sec.

Contact wheel:.....350 x 50 or 75mm  
Milled contact wheel.

Pneumatic system for fixing the sand belt.  
Support table with angulation.

Auto shut-off if the sanding belt breaks.  
Automatic shut-off if the guard door  
is opened.



The AZ sanding belt is heavy-duty equipment with **POWER** for finishing castings, forged, micro-cast and injected parts with little burr, different materials and different geometric shapes.





## SWING FRAME SANDING BELT MACHINES

**The Swing Frame sanding belt is a heavy-duty and versatile machine with movements, for sanding large castings and forges parts.**

Power:.....7,5 or 10 HP

Belt size:.....2.500 x 75 or 100mm

Belt Speed:.....33 m/sec

Contact wheel: .....350 x 75 or 100mm  
Milled contact wheel.

Angulation system: 0° to 90° / 0° to 45°

Pneumatic system for fixing the sanding belt.

Auto shut-off if the sanding belt breaks.

# RUBBER CONTACT WHEEL

Proper selection of the contact wheel allows longer abrasive belt and provides great benefits:

**Amount of material removed and quality in finishing.**

## DIMENSIONS AND HARDNESS AVAILABLE.

DIAMETER (mm)	WIDE (mm)	WHEEL HARDNESS (shore)
350	50-75-100	45-75
300	50-75-100	45-75
250	50-75-100	45-75

We do rubber and balancing used wheels.

\* if you want another diameter, width and hardness. Please specif



# **CUT-OFF MACHINES**



**Heavy-Duty machine for  
cut-off micro-casting and  
foundry parts.**



# AUTOMATIC CUT-OFF MACHINE

**Heavy Duty Automatic single  
or double cut-off machine for  
micro-casting.**



Laser to signal the cut site.

Model:  
Automatic cut-off machine - MASA 1/400

Power:.....7,5 or 10 HP

Wheel Disc size:.....16" (406,4 mm) x 4 mm  
20" (508,0 mm) x 4 mm

Wheel Disc Speed:.....80 mts /sec.

- Workpiece speed programming.
- Set up of height and distance of the piece.
- Set up by PLC with touch screen.
- Laser to signal the cut site.
- Protection cabin.



MASA CUT-OFF



# CUT-OFF 400RB60

**Heavy-Duty equipment for the cut-off  
microcast pieces of different sizes,  
geometric shapes and materials.**

Measures

Height: ..... 1.341mm  
Width: ..... 990mm  
Depth: ..... 1.027mm

Power: ..... 5 or 7.5 hp high performance

Cutting disc: ..... Diameter: 6 "(406.4) or 20" (508) x 4mm.

Cutting speed: ..... 60 to 80 mts / sec

Start button on / off.

Emergency button

automatic shut off and  
or non-functioning if  
the pickup door is open.

**Automatic enclosure of the  
disc in case of breakage.**



# CUT-OFF SWING FRAME

Heavy duty equipment  
for **CUT-OFF large foundry  
parts of different sizes,  
geometric shapes and  
materials**.

Power:..... 10 or 15hp high performance

Cutting disc:.....Diameter: 16 "(406.4) or 20" (508) x 4mm.

Cutting speed:.....80 mts / sec.

Start button on / off  
at the operator hand.

Emergency button

automatic shut off and  
or non-functioning if  
the pickup door is open.

**Automatic machine shutdown  
if the operator moves away from it.**



# EXHAUSTION SYSTEM TURBO CYCLON



The Rebel exhaust system - Mod Turbo-cyclone / TC operates with filter sleeve is intended for ASPIRATION of powder produced in grinding process.

The high efficiency of the TC exhaust fan allows SEPARATION between light and heavy dust facilitating the discard of the material

Depending on the distance and the configuration of the grinding / Sanders, one exhaust system Rebels can get 10 machines (dust area).



TURBO-CYCLON  
TC 75



DUST BOX



FOUNDRY  
GRINDER  
MACHINE



[www.rebel.ind.br](http://www.rebel.ind.br)

