

RC Grinding Cabins



*Precision Grinding of
Coils and Plates*



IMEAS

Features & Benefits

The **RC Repairing Cabins** grinding cabins represent the ideal solution for the machining of hot rolled (HR) plates with thickness up to 50mm and coils up to 10mm.

Their extremely robust structure, combined with the large diameter contact roller and the powerful main motors allow to achieve a perfectly planar surface in a very short time.

The **RC** cabins include two main models and several variants suitable for processing of stainless steel, titanium and other metals:

- **RCS**, for top grinding
- **RCI**, for bottom grinding

Key features include:

- Heavy-duty frame
- Main motors up to 250kW
- Wet or dry version
- Plate feeding system through Imeas' special gearboxes
- Pinch-rolls and pressure-rolls hydraulically operated
- Wide diameter contact roll and billy-roll for increased precision and flatness guarantee
- Precision positioning, within 0,01 mm
- Hydraulic movements controlled by a special control unit.



FLEXIBLE DESIGN

The **RC** design allow users to add new modules as soon as production capacity increases. The use of the **RCI** back-pass machine allows to process both faces at each single passage.

DRY & WET PROCESS

RCS and **RCI** machines are available as "dry process" as well as "wet process" using water-based emulsion or mineral oil. Compared to the dry, the wet process dramatically reduces the working time and achieves a more bright surface with lower roughness profile.

STANDARD FEATURES

- Frames made of electro welded steel, stress relieved, CNC milled, prime-coated and painted.
- High efficiency motors
- PLC Siemens S7 with ProfiNET™ connection
- Wide screen with touch panel graphical interface

COIL & PLATES

The **RC** cabins can be built to process either coils or plates having a working width up to 2600mm.

PRESSURE ROLLS

The innovative pressure rolls - an Imeas' exclusive - located just before and after the contact roll are used to maintain the plate planar during the grinding process, while the hydraulically operated counter-pressure roller (or "Billy-roll") guarantees the necessary contrast to achieve the desired stock removal.

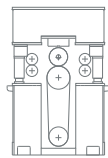
- On-board pneumatic plant with emergency tank, lockable inlet, manometer and pressure adjustment

OPTIONAL FEATURES⁽¹⁾

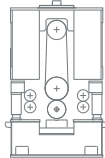
- PLC Allen-Bradley
- Motor and components from different brands



Technical Data Sheet



RCI



RCS

Model	RCI	RCS
No. of working units	One bottom unit	One top unit
Suggested for	Coils & plates	
Process type	Dry or wet grinding of coils and plates	
Useful widths	1600 - 2100 - 2600 mm	
Thickness range	Coil 0,4 - 10,0 mm; Plates 2,0 - 50,0 mm	
Machine opening	250 mm	
Feeding speed ⁽²⁾	up to 50 m/min	
Main motor	from 90 kW up to 250 kW	
Abrasive belt length	3.200 mm	
Machine weight	19.000 - 25.000 kg (depending upon model)	

NOTES

1. Some of these features may be available at extra price.
2. Depending on the application.

IMEAS spa reserves the right to change any data without notice.