



CRYONOMIC® robotised tire mould cleaning

CRYONOMIC® recently developed the COB71AR for robotic online (in-press) dry ice tire mould cleaning. The automated machine is manufactured for saving time, manipulation and curing downtime while increasing productivity and quality of the tire curing operations.



Features COB71AR

- 30 kg hopper capacity
- 60 kg/h dry ice consumption (10-110 kg/h adjustable flow)
- 1-10 bar compressed air (1-6.5 m³ per min)
- Integrated control by machine's PLC
- Works best with 3 mm standard-size pellets or crushed dry ice pellets



CRYONOMIC® BLASTING EQUIPMENT ARE INTEGRATED FOR MORE THAN 20 YEARS IN SEMI-AUTOMATIC ROBOTS FOR TIRE MOULD CLEANING!

CRYONOMIC® COB71AR integrated in robotic system!



Mobile and compact robot!

- Compact size: 2.700 x 850 x 2.300 mm (L x W x H)
- Cleaning operation powered by 3 x 400 V AC, 32 A
- The machine is able to fit on all PSR or TBR curing presses hydraulic - vertical type - and/or mechanical - tilt back type - up to 50" (PSR) size or 67" (TBR) size.



Robotic System consists of:

1 Pedestrian forklift truck

2 X/Y table

On the forks a X/Y telescopic table is installed. The table supports the ABB robot and a safety soundproof protection. The X/Y movements are servo motorized by nut-screw transmission and directly controlled by robot control unit for the robot fine positioning under the molds.

3 Six-axis ABB robot with control unit and tool

A six axis small robot from ABB is installed on the telescopic X/Y table. The robot is installed on a pedestal, able to tilt 90° when it is needed to work in the Tilt Back mechanical curing presses. The operator moves the forklift close to the curing press, will input parameters in the HMI to allow the system to position the carriage above the press by means of camera.

4 Dry ice machine

Our dry ice blaster machine CRYONOMIC® COB-71AR for automatic cleaning. Our machines are also equipped for manual cleaning.

5 Security of the machinery

The machine fully complies with the relevant European Community Directives, harmonized standards and special local regulation in term of safety. On the forklift carriage, around the robot, a pneumatic lifting soundproof protection is installed to limit noise at the operator side.

CRYONOMIC® has a worldwide network.
Contact your dealer for any information:

Printed in Belgium - CRY-PROD-EN-2019

CRYONOMIC®
DRY ICE CLEANING SOLUTIONS

CRYONOMIC®
Kleimoer 3 - B-9030 Gent - Belgium
Tel: +32 9 216 76 90 - Fax: +32 9 216 76 91
info@cryonomic.com
www.cryonomic.com
CRYONOMIC® is a registered trademark of ARTIMPEX N.V.