

CRYONOMIC®
DRY ICE CLEANING SOLUTIONS

The Cool Way of Cleaning



COB-A Series



Cryonomic® blasting equipment are integrated for more than 25 years in semi-automatic & automatic robots

DRY ICE BLASTERS

for automated cleaning

Automated dry ice blasting

CRYONOMIC® has gained an extensive experience and expertise in the field of automated **dry ice blasting** projects. We only work with experienced partners that can assist you in every step of your product, from Feasibility Analysis to Staff Training and Maintenance after installation.

The CRYONOMIC® automated COB-A series is a single hose dry ice blaster. Its unique concept results in:

- › low air consumption
- › powerful cleaning performance
- › ergonomic design
- › focalised cleaning

Specific applications of automated blasting are:

- › tire mould cleaning
- › car parts cleaning
- › electrical components cleaning
- › cryogenic cooling
- › gritblasting for surface preparation
- › deburring parts (plastic, rubber, metal, silicone, ...)
- › surface preparation of plastics before painting



CRYONOMIC® machines are used worldwide and have been running successfully for more than 30 years

Unique characteristics of COB series for automation

The powerfull COB-A series has been specially developed for automated blasting and is integrated into robots for automatic cleaning, deflashing or surface preparation. This results in saving time, reducing manipulation and increasing productivity of the operations.

Patented CRYONOMIC® Airlock system technology:

This technology has following advantages:

- › Self regulating CRYONOMIC® Airlock system, limiting wear out and maintenance
- › Constant and regular dry ice flow
- › Limited air consumption

Intuitive control panel:

- › Mains switch and reset button
- › Robust single touch control buttons:
 - dry ice feed rate: digital indication
 - abrasive module selector: LED-indicated
- › Blast pressure regulator and manometer

Robot gun RG1004:

- › Quick-fit nozzles changed within seconds
- › Nozzles can be rotated in any desired position
- › Gun body with mounting plate to allow fixation on 6-ax Robot ABB, Fanuc, etc.



Fast and easy connections:

- › Quick coupling for blasthose
- › Connection for optional earth cable
- › Connection for Abrasive Module



Touch screen version possible:

- › Same functions as machine COB71AR
- › Full remote control
- › Control via PC, tablet or mobile phone



For information about the accessories, please see our COB series leaflet for manual blasting!

Automated dry ice blasting



Automated blasting with COB71AR on a mobile unit



Robot gun mounted on a 6-ax robot to clean tire moulds



Robot gun integrated in a X,Y table to deburr displays of mobile phones

Automated dry ice gritblasting

CRYONOMIC® blasters for automation model COB71A and COB71AR can also be used for automated surface treatment.



2 COB71A blasters connected to 1 abrasive module XL



Installation with 2 moving blasting guns



Partially blasted and obviously roughened!

CRYONOMIC® pelletiser blaster

A step further... CRYONOMIC® dry ice blasters are more and more integrated into automated cleaning lines to guarantee a continuous flow of dry ice pellets.



Surface preparation of plastic injected parts before



Delicate cleaning old bombs of WW2 before dismantling



The blaster and pelletiser work hand in hand to accept production stops

Technical information



CHARACTERISTICS	COB 71A art. P20830	COB 71AR art. P20860	COB71AT art. P20890	COB51XLA art. P20880
Dimensions (l x w x h in mm)	665 x 570 x 876			950 x 650 x 1045
Weight	95 kg			180 kg
Hopper (capacity)	30 kg dry icelisolated hopper easily removable Advanced pneumatic hopper agitation			35 kg dry ice extra isolated hopper on slide! Advanced pneumatic hopper agitation
Hopper on slide and Pellet recuperation	No			Yes
Pellet consumption	<ul style="list-style-type: none"> Adjustable and displayed standard 20 – 90 kg / h ¹ Blasting without dry ice possible Start-up value programmable 			
Blast pressure	1 - 12 bar			
Air consumption	0,5 - 6,5 m ³ /min for 1-12 bar			
Supply pressure	1 - 16 bar dried air • connection 1" BSP			
Mains/power consumption	220 - 240 V, 50-60 Hz, 650 W			
Touch Screen	No		Yes	No
Remote control	Partly		Full	
Dry ice level detection	Optional		Yes	
Pre-equipped for blasting dry ice with abrasives	Yes			Optional
Options	<ul style="list-style-type: none"> ¹ Alternative pellet rotors of 7 - 30 kg/h, 10 - 45 kg/h and 30 - 135 kg/h Transformer 110 V / 50 - 60 Hz Extra large hopper for extra dry ice capacity Automatic filling of dry ice Blasting cabinet with exhaust 			

The automated COB range dry ice blasters is standard delivered with:

- › Easily mountable robot gun **RG1004**
- › Hose set consisting of:
 - **heavy duty blast hose** with quick coupling and stainless steel earth coil
 - **control cable** from blaster to robot-PLC
- › Dry ice or air-only blasting option
- › Possibility to blast in manual mode
- › Hour counter
- › Safe soft start
- › Start safety protocol
- › Pellet guard detection
- › Communication with PC/PLC

We paid special attention to safety, operator ergonomics, ease of manipulation and maintenance. The CRYONOMIC® dry ice blasters all meet the new EC machine directive 2006/42/EC, as well as 2006/95/EC and 2004/108/EC.

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