

**CRYONOMIC**<sup>®</sup>  
DRY ICE CLEANING SOLUTIONS



# COB Series

**DRY ICE BLASTERS**

**The Cool Way of Cleaning**

## Maximal performance with minimal air consumption!

**Dry ice blasting** is an efficient and environmentally friendly cleaning technique that makes use of dry ice pellets.

**Dry ice** is the solid form of CO<sub>2</sub> with a temperature of -79°C. At ambient conditions, dry ice sublimates directly from solid back to gas. The dry ice pellets expand to carbon dioxide gas on impact. Due to this expansion the contaminant is lifted and separated from the base material.

The **CRYONOMIC® COB** is a single hose dry ice blaster which unique concept results in:

- › low air consumption
- › powerful cleaning performance
- › ergonomic design: light and easy manipulation
- › best price/performance ratio on the market

The COB series completes the CRYONOMIC® range of blasting equipment and is used for:

- › high performance cleaning
- › focalised cleaning



### The COB series consists of 6 types:

#### Manual

- › COB 62
- › COB 62+
- › COB 71
- › COB 71R

#### Automated

- › COB 71A
- › COB 71AR

## Unique characteristics of COB-series



COB6 series

COB7 series

### Patented CRYONOMIC® Airlock system technology:

This technology has following advantages:

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

### Ergonomic and lightweight MG1004(R) gun:

- › Quick-fit nozzles changed within seconds
- › Nozzles can be turned in any desired position during operation
- › Equipped for CRYONOMIC® gun light
- › Integrated safety catch
- › Control cable plugs directly into the gun
- › Ergonomic shockproof thermoplastic handle

### Intuitive control panel:

- › Emergency stop and ON/OFF buttons
- › Robust single touch control buttons:
  - **dry ice feed rate:** LED-indicated (COB 6-series) or digital indication (COB 7-series)
  - **gun light:** 5 or 10 illuminated LEDs
  - **abrasive module selector** (LED-indicated) on COB 62+ and COB 71(R)
- › Blast pressure regulator and manometer
- › Remote control deactivator on COB 71R

### Fast and easy connections:

- › Quick coupling for blasthose
- › One multifunctional control cable to gun
- › Power cable
- › Connection for optional earth cable
- › Compressed air inlet
- › Connection for Abrasive Module on COB 62+ and COB 71(R)

**CRYONOMIC® dry ice blasting machines are used worldwide and have been running successfully since 1992.**

## The COB series dry ice blasters are standard delivered with



**COB blasting machine**

+



**Heavy duty blast hose set**  
with quick coupling & stainless steel earthing

+



**MG1004**  
(for COB62, COB62+ or COB71)



**MG1004R**  
(for COB71R)

**Ergonomic blast gun**  
incl. standard round nozzle

### Other must-have items included in the machine as standard are:

- › the option to blast air-only
- › hour counter
- › safe soft start
- › start safety protocol

### The remote control gun allows an operator to change following parameters on the gun:

- › dry ice feed rate
- › blast pressure
- › intensity of gun light

## Options



### Nozzle & accessory box

- › Commonly used round, flat and angled nozzles
- › Dry ice crusher
- › Gun light
- › Empty space to store blastgun and second crusher
- › Optional: spare parts set



### Gun light

- › Clear white spot on the object
- › Plug-in gun light (no additional cable)
- › Adjustable intensity
- › Allows fast nozzle switching
- › Integrated protective slide keeps the gun light connector clean and protected



### Abrasive module

- › Combines benefits of dry ice and abrasive blasting
- › Allows to mix a controlled quantity of abrasive granulate in the dry ice flow
- › **Ecological:** reduces significantly the amount of abrasive compared to conventional abrasive blasting (less waste, less clean-up)



### Variety of advanced nozzles

- › High performance nozzles
- › Changed within seconds
- › Models: round, flat, angled, custom made
- › Length: from 55 mm up to 2 m and more
- › Special low air nozzles (<math>< 1\text{m}^3/\text{min}</math> at 4 bar)
- › Nozzle extensions in different length



### (Variable) pellet crushers

- › Crushes dry ice pellets for cleaning delicate surfaces and objects
- › Easy to mount with quick coupling
- › Nozzle-independent:
  - **can be used with every nozzle**
  - nozzle does not have to be exchanged or removed



### Electrical isolated gun MG1006

- › To clean live (low- to mid-voltage) equipment
- › Full plastic isolated blastgun for applications where non-conductive tooling is a safety requirement

## Technical information



CHARACTERISTICS OF MANUAL BLASTERS (*)	COB 62 art. P20400	COB 62+ art. P20500	COB 71 art. P20800	COB 71R art. P20850
	<b>1-hose dry ice blaster</b>			
Chassis	2 fixed wheels, 2 pivoting wheels Push handle and hose support		2 large wheels, 2 pivoting wheels Foldable push handle and hose support Lifting eyelets and forklift handling slot	
Dimensions (l x w x h)	380 x 570 x 890 (incl. fixed handle)		665 x 570 x 876 (push handle folded down)	
Weight	66 kg	68 kg	90 kg	95 kg
Hopper (capacity)	14 kg dry ice Isolated hopper easily removable Basic hopper agitation	14 kg dry ice Isolated hopper easily removable Advanced hopper agitation	30 kg dry ice Isolated hopper easily removable Advanced hopper agitation	
Pellet consumption	Adjustable 20 – 80 kg / h <sup>1</sup> Blasting without dry ice possible		Adjustable and displayed 25 – 100 kg / h <sup>1</sup> Blasting without dry ice possible Start-up value programmable	
Blast pressure	1 - 7 bar	1 - 10 bar	1 - 12 bar	1 - 12 bar
Remote control	No	No	No	Yes
Air consumption	0,5 - 4 m <sup>3</sup> /min for 1-7 bar	0,5 - 5,5 m <sup>3</sup> /min for 1 - 10 bar	0,5 - 6,5 m <sup>3</sup> /min for 1-12 bar	0,5-6,5 m <sup>3</sup> /min for 1-12 bar
Supply pressure	1 - 16 bar dried air • connection 3/4" BSP		1 - 16 bar dried air • connection 1" BSP	
Mains/power consumption	220 - 240 V, 50 - 60 Hz, 650 W <sup>2</sup>			
Pre-equipped for gunlight	Yes	Yes	Yes	Yes
Pre-equipped for blasting dry ice with abrasives	No	Yes	Yes	Yes
Options	<sup>1</sup> Alternative pellet rotors of 7 - 28 kg/h and 10 - 40 kg/h <sup>2</sup> Transformer 110 V / 50 - 60 Hz		<sup>1</sup> Alternative pellet rotors of 8 - 32 kg/h, 12 - 50 kg/h and 33 - 132 kg/h <sup>2</sup> Transformer 110 V / 50 - 60 Hz	

(\*)For more technical information about the automated CRYONOMIC® dry ice blasters, ask for our leaflet "**Automated dry ice blasting**". We paid special attention to safety, operator ergonomics, ease of manipulation and maintenance. The CRYONOMIC® dry ice blasters all meet the EC directive 2014/30/EU and 2014/35/EU.



CRYONOMIC® is a registered trademark of ARTIMPEX nv  
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