

# COMBI 7 Series Dry Ice Blasters



## The machine for every job!

The CRYONOMIC® COMBI 7 Series is the only dry ice blaster allowing the highest cleaning performance for every imaginable application. This blaster can be used in 3 different set-ups, each having specific applications.

### 1. One-hose applications

- Focalised and medium scaled cleaning applications
- High performance cleaning with low air consumption
- Light and easy manipulation

### 2. Two-hose applications

- Fast cleaning for large scale cleaning jobs
- Considerable savings on dry ice consumption
- Ability to clean at long distance (hose length up to 100 meters)

### 3. Dry ice grit blasting applications

- New applications by a combination of dry ice with a minimum amount of abrasives
- Using less than 10% of abrasives compared to traditional gritblasting



The Cool Way  
Of Cleaning

**CRYONOMIC®**  
DRY ICE CLEANING SOLUTIONS

# Unique characteristics of the COMBI 7 series

## Set-up according to your applications

- Most versatile equipment on the market that can be used as a one-hose blaster or as a two-hose blaster according to your application
- With the right selection of the gun and hose you hook up to the machine, you are able to perform your cleaning job in optimal conditions, saving on dry ice or on compressed air
- Pre-equipped for combined dry ice and abrasive blasting

## Advanced and safe technology inside

- Unique patented self regulating airlock system limiting wear-out and maintenance
- Constant and regular dry ice flow
- Soft start and start safety protocol

## Intuitive control panel with ON/OFF buttons

- Emergency stop and ON/OFF buttons
- Robust single touch control buttons for
  - setting dry ice feed rate displayed in kg/h
  - setting blast pressure with manometer
  - gun light activation
  - abrasive module selection
  - remote control activator

## Robust and easy transportable

- Two big wheels, two pivoting wheels
- Foldable handle that can be used as a hose holder
- Lifting eye bolts and forklift handle slot
- Compact and practical nozzle and accessory boxes for transport
- All components easy accessible



# CRYONOMIC® blastguns

## One-hose guns and two-hose guns

- Quick-fit nozzles changed within seconds: no tools required
- Nozzles can be turned in any desired position during operation
- Equipped to plug-in the CRYONOMIC® gun light
- Integrated safety catch: avoids undesired blast activation (legally imposed for CE)
- The control cable plugs directly into the gun! No more annoying dangling connectors at the gun
- Ergonomic shockproof thermoplastic handle
- Also available with remote control for dry ice feed rate and blast pressure ①



One-hose gun  
MG1004



One-hose gun  
MG1004R ①

## Why 'two-hose blasting' if one hose would work as well?

- Two-hose blasting allows to use wider nozzles and faster cleaning
- Controlled low-pressure pellet transport in separate pellethose guarantees less dry ice consumption. Second airhose accelerates pellets to higher speed compared to any other single hose system
- Powerful supersonic pellet acceleration leads to more efficient and faster cleaning



Two-hose gun  
G5000

Two-hose gun  
G5000R ①

# Compose your CRYONOMIC® COMBI 7 blaster according to your needs

## One-hose setup

Medium scale applications  
Low air consumption  
Focalised cleaning

COMBI 71R =



COMBI 7

+



One-hose set

+



MG1004R

## Two-hose setup

Large scale applications  
Low pellet consumption  
Long distance cleaning

COMBI 72R =



COMBI 7

+



Two-hose set

+



G5000R

## Both setups

Both one-hose and  
two-hose applications

COMBI 73R =



COMBI 7

+



One-hose set and two-hose set

+



MG1004R

G5000R

R: the above configurations are also available with remote control on the gun

## Accessories and options



### The Abrasive Module

- Combines benefits of dry ice and abrasive blasting
- Allows to mix a controlled quantity of abrasive granulate in the dry ice flow
- Some applications are rust removal, paint stripping, removal of stubborn material and surface roughening before coating.

### Variety of CRYONOMIC® NT- nozzles

- High performance nozzles for any circumstances
- Changed within second: no tools required
- Models : round, flat, angled, custom made
- Length : from 55 mm up to 2 m and more
- Special low air flow nozzles (< 1m<sup>3</sup>/min up to 4 bar)

### Compact CRYONOMIC® 'All-in-one' nozzle and accessory boxes, contain:

- Commonly used round, flat and angled nozzles
- Dry ice crusher for cleaning delicate surfaces and hard to reach spots (one crusher for all nozzles)
- Gun light
- Empty space to store blastgun and second crusher
- Optional spare parts set

### The CRYONOMIC® gun light

- Clear white light on the spot to clean
- Plug-in gun light (no additional cable, no batteries)
- Adjustable intensity: to avoid surface reflection
- Allows fast nozzle switching: without gun light removal

# COMBI 7

## Dry Ice Blasters

# CRYONOMIC® COMBI 7

A patented CRYONOMIC® technology has been integrated, resulting in unequalled performances with limited air consumption. This technology has following advantages:

- the unique self regulating CRYONOMIC® Airlock system, limiting wear out and maintenance (no oil required/one sealer disc)
- constant and regular dry ice flow

We paid special attention to safety, operator ergonomics and ease of manipulation. The unit is very economical in use and produces excellent results even in the most challenging circumstances.

The CRYONOMIC® dry ice blasters all meet the new EC machine directive 2006/42/EC (incl 2006/95/EC and 2004/108/EC).

## Technical information

Chassis	<ul style="list-style-type: none"> <li>• Complete stainless steel • foldable push handle and hose support</li> <li>• 2 big wheels, 2 pivoting wheels • lifting eyelets &amp; forklift handling slot</li> </ul>
Standard delivered with	<ul style="list-style-type: none"> <li>• 5 m hose set • gun • round nozzle</li> <li>• 5 m power cord • manual • CE certificate</li> </ul>
Dimension (LxWxH) & weight	• 665 x 570 x 876 mm <sup>3</sup> (push handle folded down), 100 kg
Hopper	<ul style="list-style-type: none"> <li>• 30 kg dry ice capacity • isolated hopper • easily removable</li> <li>• Advanced pneumatic hopper agitation</li> </ul>
Pellet consumption	<ul style="list-style-type: none"> <li>• Adjustable and displayed on frontpanel: 25-100 kg</li> <li>• Start-up value programmable • Blasting without dry ice possible</li> </ul>
Blast pressure	<ul style="list-style-type: none"> <li>• 1-12 bar with one-hose gun</li> <li>• 1-16 bar with two-hose gun</li> </ul>
Air consumption	<ul style="list-style-type: none"> <li>• One-hose: 0,5-6,5 m<sup>3</sup>/min for 1-12 bar</li> <li>• Two-hose: 1-13 m<sup>3</sup>/min for 1-16 bar</li> </ul>
Supply pressure	• 1-16 bar dried air • connection 1" BSP
Mains/power consumption	• 220-240 V, 50-60 Hz, 650 W
Hardware & software features	<ul style="list-style-type: none"> <li>• Pre-equipped for gunlight</li> <li>• Pre-equipped for blasting dry ice with abrasives</li> <li>• Self diagnosis on start-up</li> <li>• Hour counter and acoustic and visual error indication</li> </ul>
Options	<ul style="list-style-type: none"> <li>• Alternative pellet rotors of 8-35 kg/h, 10-40 kg/h &amp; 33-130 kg/h</li> <li>• Transformer 110 V / 50-60 Hz</li> <li>• Robot guns for automation projects</li> <li>• Blasting at 20 bar</li> </ul>



See our leaflet "COB-Series" for our compact one-hose blasters

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

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**CRYONOMIC®**  
DRY ICE CLEANING SOLUTIONS

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