



MEC Dry Ice Equipment

The M.E.C. srl, was founded in 1991. The company is based in Caltignaga, Italy 30km from Milan Malpensa Airport.

MEC produces dry ice blasting machines and equipment for efficient cleaning of machines used in any industrial production and equipment cleaning application. We are the first Dry Ice Blasting Equipment manufacturers in Italy and our range of products are all manufactured in Italy.

MEC also produces some prototypes for use at very low temperatures. Furthermore, we are in a position to provide a variety of different products and services in order to find the best solution for any customer's requirement.

We have included a few MEC Blasters and Pelletizers in the list below. For a complete product list, please access the MEC catalogue http://www.meccrios.com/catalogue/catalogo_mec_en_web.pdf.

Dry Ice Blasters

MB /AL - Dual Hose Dry Ice Blasting Unit

The **MB/AL**, dual - hose blasting unit is a very reliable machine, which does not require any maintenance. Its reliability has been proven in numerous field and endurance tests and demonstrations. The design is very simple and is suitable for any user with extensive cleaning requirements.

It can be used on all types of materials, even sensitive ones. The MB/AL is supplied with a "Coax" gun, 3.5-m hose and cylindrical barrel. The dry ice tank has a capacity of 40-kg allowing the machine to be used between 45 - 60 minutes before refilling.

With an operating pressure of up to 7-bar, the MB/AL provides extremely effective cleaning. It is made of Inox 304 and only weighs 40-kg , which makes it easy to handle and its compact size makes it suitable for working in narrow spaces. The MB/AL dual – hose unit uses 3mm diameter dry ice Pellets .

For specifications, please access:

http://www.meccrios.com/en_web/blasting-units-dual-hose-MBAL-PS.php

MB /MONO - Single Hose Dry Ice Blasting Unit complete

The **MB-MONO** is a Microblast Single Hose Dry Ice Blast Cleaning System. This blaster can operate up to a maximum air pressure of 12-bar, which makes it suitable for removing more difficult surface coverings that may be encountered.

It is equipped with a Pneumatic Revolver Device supplied with a "Mono" gun, 5-metre hose and cylindrical barrel. The blaster is constructed from INOX 304 material with a 40-kg dry ice capacity operating up to a maximum of 1.2-kg/min.



For specifications, please access:

http://www.meccrios.com/en_web/blasting-units-single-hose-MONO-PS.php

MB/MONO-BIK - Single Hose Dry Ice Blasting Unit complete with a Sodium Bicarbonate Mixing Facility

The **MB-MONO-BIK** is a Pressurized Single Hose Dry Ice Blast Cleaning System c/w a Bicarbonate mixing facility for higher aggression. This blaster can operate up to a maximum air pressure of 15-bar, which makes it suitable for removing paint from different applications.

It is supplied with a "Coax" gun, 5-metre hose and cylindrical barrel. The blaster is constructed from INOX 304 material with a 40-kg dry ice capacity operating up to a maximum of 1.2-kg/min.

For specifications, please access:

http://www.meccrios.com/en_web/blasting-units-dual-hose-MBAL-BIK.php

ALICE NCJ-B Dry Ice Blaster with Integral Self Manufacturing Pellet Facility –

The unique **Alice NCJ-B** double hose blaster is probably the first of its kind with an integral pellet manufacturing facility automatically producing micro pellets. It is available in Single Hose Pressurized or Double Hose Venturi Models. The micro pellets are between 0.3 and 2-mm in diameter.

Standard CO₂ cylinders at a pressure between 10 and 70-bar can be used.

It is equipped with a suitable gun (single or double hose) and 3-metre hose(s). The blaster is constructed from INOX 304 material with a 10-kg dry ice capacity operating up to a maximum of 1-mc/min.

For specifications, please access:

http://www.meccrios.it/immagini_sito/alice1_en_640.jpg



Dry Ice Pelletizers

P 40 MC Pelletizer -

The **P40 MC** Pelletizer is designed in particular to produce small quantities of dry ice pellets with a High Density from the Liquid Carbon Dioxide at a very low temperature. In order to produce the snow and the gas you need a regular supply of Liquid CO₂ from a storage tank which is fed at a very low pressure. The snow is then compressed through an extrusion plate from an interactive single horizontal piston. The return gas transferred from the pelletizer is released into the atmosphere or can be recovered.

The M.E.C. P40 MC is a unit which works without using any oil. It is made from a special light alloy lead driven by an electric engine. All parts are designed in particular to work on a laboratory table.

This mechanical system is suitable for use with interchangeable die-plates in order to produce different dry ice shapes.

In order to obtain efficient functioning, it is advisable to use the liquid CO₂ without moisture. The Carbon Dioxide is non-toxic and easy to store in work areas. It is electrically non-conductive and non-flammable. The necessary equipment for this kind of plant is generally the following: a liquid CO₂ refrigerated storage tank, a pelletizer and a liquid CO₂



line for the connection.

For specifications, please access:

http://www.meccrios.com/en_web/dry-ice-producers-P40MC.php

P 100E Pelletizer -

The **P100E** pelletizer produces dry ice pellets of high quality. The production of dry ice pellets occurs during transformation of 'liquid carbon dioxide' to solid. A regular supply of liquid CO₂ from a storage tank is fed at low pressure to produce dry ice and gas. The snow is then compressed through an extruder die by a single horizontal piston mechanically driven.

This fully automated system is ideal for producing large quantities of dry ice pellets of ± 100 kg / h. The return gas transferred from the pelletizer is released into the atmosphere or can be recovered.

The MEC P100E pelletizer operates completely dry (i.e. no oil needed). The mechanical system can easily be adapted to produce dry ice of different diameters by using interchangeable dies.

To obtain optimal performance it is strongly recommended that the 'liquid CO₂ must be completely dry, i.e. without moisture'.

Carbon dioxide is a non-toxic liquefied gas that is kept in suitable storage tanks or cylinders, which must be kept at a suitably low operating temperature. Larger tanks are provided and installed by the gas company supplying the CO₂. It will require a suitable electrical connection and CO₂ piping to the pelletizer.

For specifications, please access:

http://www.meccrios.com/en_web/dry-ice-producers-P100E.php

