

Simply freeze out the dirt



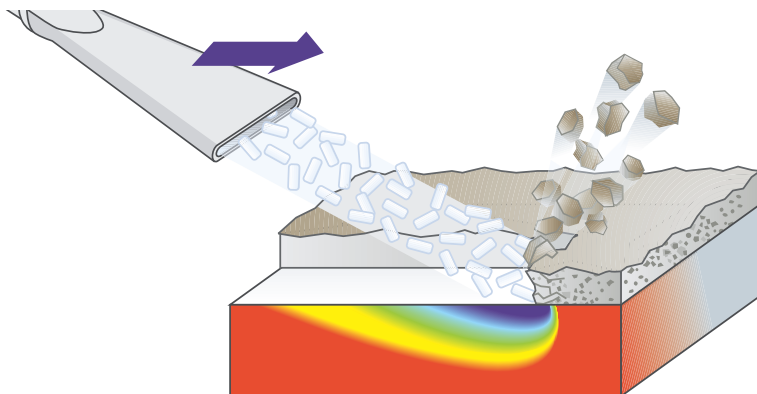
Give dirt the cold shoulder

Dirty moulds, parts and machines are often difficult to clean. The problem: Residue is left after sandblasting, e.g. blasting abrasives such as sand or glass granulate. It is often necessary to wipe away such residue after the cleaning process. Such an unnecessary operation is a thing of the past with KÄRCHER's powerful Ice Blasters. The dry ice pellets turn into carbon dioxide (CO₂) after the blasting process. All that is left is a clean surface.

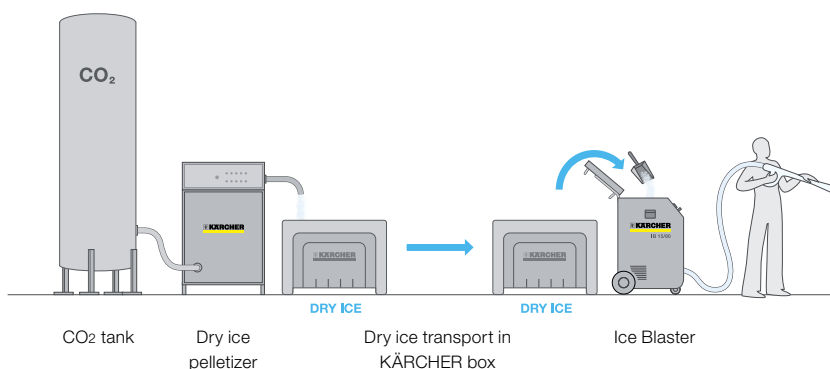


Benefits of dry ice blasting

- **Cleaning without disassembling**
Machines do not have to be dismantled for cleaning. The pellets get into every little corner.
- **Short machine down-times**
thanks to fast and effective cleaning.
- **Environment friendly cleaning**
without chemical additives or blasting abrasives.
- **Surfaces are not damaged**
- **No residue**
Dry ice is completely transformed into CO₂ gas. There is no residue such as blasting abrasive or waste water.



- The Ice Blaster accelerates the up to 3 mm diameter dry ice pellets by means of compressed air to more than 150 m/s.
- As a result of the high impact velocity and a temperature of -79°C, the contaminant freezes and develops fine cracks.
- The dry ice pellets penetrate the cracks created in the contaminant and blow it apart and off the surface. Dry ice blasting is therefore an effective method of removing virtually any kind of contamination without harming the surface being cleaned.



In the pellet production process, liquid carbon dioxide flows into the pelletizer's cylinder and, as a result of the drop in pressure, solidifies to form dry ice snow. This is then compressed by a hydraulic ram and forced through an extruder plate. The resultant cylindrical dry ice rods are then broken into pellets.



The IB 7/40 cleans with 15 kg to 50 kg dry ice pellets/hour and 0.5–3.5 cubic metres of air per minute. It has an empty weight of 70 kg and a tank with a maximum capacity of 18 kg.

Optimised for operation on in-house compressed air systems

The IB 7/40 can be connected to an existing in-house compressed air system. Its cleaning performance is outstanding, even with low pressures. The compact IB 7/40 is the right choice where space is at a premium. It will even operate with a pressure of 2 bar; up to 10 bar is possible.



With a dry weight of 90 kg, IB 15/80 Ice Blaster uses up to 100 kg dry ice pellets per hour. It has a tank capacity of 35 kg.

For bigger tasks

The IB 15/80 is our largest dry ice blasting unit. A compressor supplies it with the necessary compressed air. It provides pressures between 3 and 16 bar and a compressed air flow rate of 3–11.5 cubic metres per minute. The consumption of dry ice pellets can be set between 30 kg and 100 kg/hour. This Ice Blaster is therefore suitable for almost any cleaning task.



For in-house dry ice supply

Dry ice is easy to produce with KÄRCHER dry ice pelletizers. This saves procurement costs and makes you independent because you determine the cleaning time.



Cool and fresh

Dry ice stays colder for longer in the cool box. That is important since fresh dry ice guarantees an ideal cleaning process.

For cleanliness in all areas

KÄRCHER Ice Blasters operate completely without cleaning agents or chemical additives. They can be used in locations where cleaning with water or sand is prohibited by law. Since the pellets dissolve completely, they produce no waste water. KÄRCHER offers highly efficient pelletizers for in-house production.



1 Automotive industry, foundries and injection moulding shops

Our dry ice blasters remove binding and parting agents, silicone and rubber residue, paints and blackening from all kinds of parts and workpieces. Injection moulds, tools and whole production lines can be cleaned without leaving a trace of residue.

2 Printing works

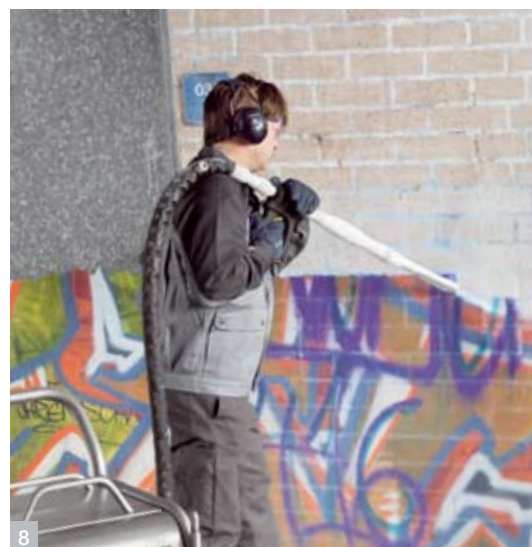
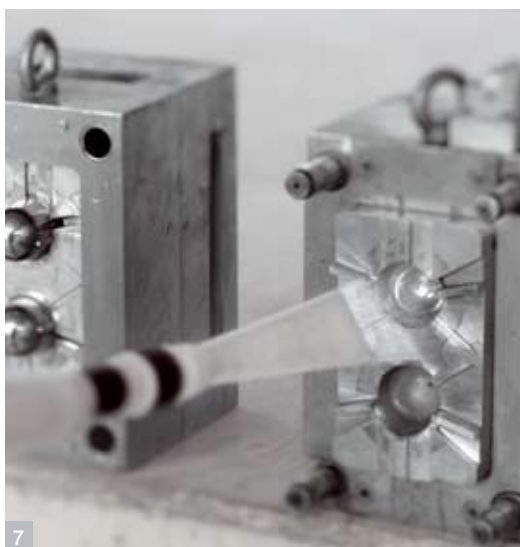
Printing machines and cylinders, tools, etc. look like new after dry ice blasting.

3 Steel engineering, metalworking, mechanical engineering

Basic and maintenance cleaning of production machinery, welding robots, conveyor belts and spraying booths is simplified with our Ice Blasters.

4 Wood and electrical industry

For cleaning woodworking machines, generators, fans, switchgear cabinets, etc.



5 Food, pharmaceutical and cosmetics industries

With an Ice Blaster you can clean bottling and mixing plants, production lines and mechanical handling systems as well as tanks and ovens, e.g. to remove carbon build-up, burnt on substances, encrustations, grease and starch.

6 Paper industry

Deposits of glue and scale, encrusted dust stains, chemical pulp. In the paper industry, glue, lime, dust and chemical pump collect in the plant and equipment. This can result in machine failures and poor quality. Plants can be cleaned with dry ice faster so that they are ready of operation sooner.

7 Plastics and packaging industry

The Ice Blaster removes silicone, rubber, paints, lacquers and many other stains from injection moulds and production lines.

8 Local governments

Graffiti and chewing gum are a major problem in many towns and communities. There is a need for a method of cleaning that cleans walls and other surfaces thoroughly but gently – just like KÄRCHER's Ice Blasters. They remove contaminants without harming the material's surface.

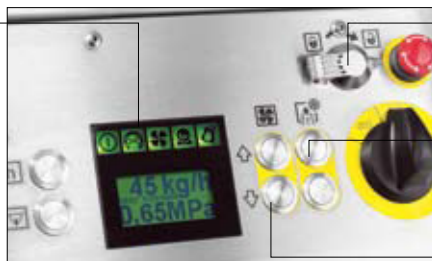
Everything in view, everything under control

The clearly laid out controls make the Ice Blasters simple to operate and easy to understand which saves time and unnecessary operator training. You can start cleaning immediately.

IB 7/40 – KÄRCHER's compact Ice Blaster

Highly legible

The electronic control is a feature exclusive to the KÄRCHER Ice Blaster. The digital display provides information on all settings such as blasting pressure and dry ice consumption



Key switch

For locking the settings for ice flow rate and compressed air.

Adjustable dry ice consumption

Adjustable blasting pressure

Blasting gun with remote control

The Advanced version comes with a blasting gun with built-in remote control. The blasting pressure and ice consumption can be easily readjusted directly on the gun during operation.



Push handle

The Ice Blaster can be easily wheeled around like a cart.

Self-sealing metering unit

It is maintenance-free to save servicing costs and guarantees better economy.

Earthing cable winder

Prevents build-up of static electricity in the item being cleaned (on Advanced version only).

Condensate drain

A tap enables condensate to be drained from the oil and water separator. This tap can also be used to depressurise the system.



Rugged stainless steel housing

Side panel is easy to open thanks to its practical quick-action lock..

Remaining ice and tank drain

The dry ice left in the unit can be discharged by pressing a button to ensure that the unit does not freeze up.

Integral oil and water separator

The integral oil and water separator removes moisture from the compressed air and thus prevents the unit freezing solid

		IB 7/40 Classic	IB 7/40 Advanced*
Technical Data			
Power supply	Ph/V/Hz	1/220–240/50 or 60	1/220–240/50 or 60
Connected load	kW	0.6	0.6
Sound pressure level	dB(A)	max. 99	max. 99
Housing/frame		Stainless steel	Stainless steel
Weight without accessories	kg	70	71
Dimensions (L x W x H)	mm	510 x 760 x 1.100	510 x 760 x 1.100
Compressed air			
Hose coupling		Claw coupling (DIN 3238)	Claw coupling (DIN 3238)
Operating pressure	bar/MPa	0.2–1.0	0.2–1.0
Flow rate	m³/min	0.5–3.5	0.5–3.5
Air quality		min. Class 3, ISO 857 3-1	min. Class 3, ISO 857 3-1
Dry ice blasting			
Blasting pressure	bar/MPa	2–10/0.2–1.0	2–10/0.2–1.0
Dry ice pellets	ø in mm	3	3
Dry ice consumption	kg/h	15–50	15–50
Dry ice capacity	kg	18	18
Order No.		1.574-001.0	1.574-002.0

* Blasting gun with remote control and earthing cable winder only come standard in the IB 7/40 Advanced.

Accessories



IB 7/40

Standard accessories		Order No.
Blasting gun – Advanced	4.775-785.0	Ergonomically shaped, easy nozzle change, changeover between compressed air and ice and compressed air only Remote control for adjusting ice feed rate and blasting pressure
Blasting gun – Classic*	4.775-794.0	Ergonomically shaped, easy nozzle change
Blasting hose	4.013-042.0	5 m, non-marking
Flat jet nozzle, long	4.321-235.0	High area coverage, good cleaning power
Nozzle grease	6.288-088.0	Grease for nozzle thread
2 x open-end wrench	7.815-009.0	For changing nozzles
Earthing cable winder**	2.641-741.0	Automatic earthing cable winder with about 6 m earthing cable and heavy-duty terminal. The mounting kit reliably prevents the build-up of static electricity in the object being cleaned and arcing between the object and the nozzle
Mounting kits		Order No.
Flat jet nozzle, short	4.321-237.0	Short nozzle for blasting in confined spaces
Round jet nozzle, long	4.321-234.0	For stubborn spots of contamination. Suitable for contamination in corners and along edges
Round jet nozzle, short	4.321-236.0	Short nozzle for blasting in confined spaces
Scrambler	4.110-015.0	Reduces size of dry ice pellets to fine particles, especially for cleaning highly sensitive surfaces
Nozzle light	2.815-421.0	For attaching to blasting gun to illuminate blasting area
Angled nozzle, round	4.321-249.0	Diverts jet by 90°. Ideal for cleaning injection moulds.
Angled nozzle, fan	4.321-250.0	Diverts jet by 90°. Ideal for cleaning injection moulds.
Nozzle extension	5.760-001.0	300 mm nozzle extension
Handle	4.321-248.0	Handle attaches to nozzle extension
Dry ice shovel	4.321-198.0	Aluminium with insulated handle
Ear muffs	6.321-207.0	Full cups enclose ears
Safety glasses	6.321-208.0	With side protection and elastic headband
Protective gloves	6.321-210.0	One size fits all
Order No.		1.574-001.0

* Without remote control. ** Included only with IB 7/40 Advanced, option on IB 7/40 Classic.



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och industriprodukter**

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