



DRY ICE LASER

HIGH-PERFORMANCE INDUSTRIAL CLEANING MACHINES

Increase efficiency, improve quality and reduce downtime with our advanced cleaning technologies.

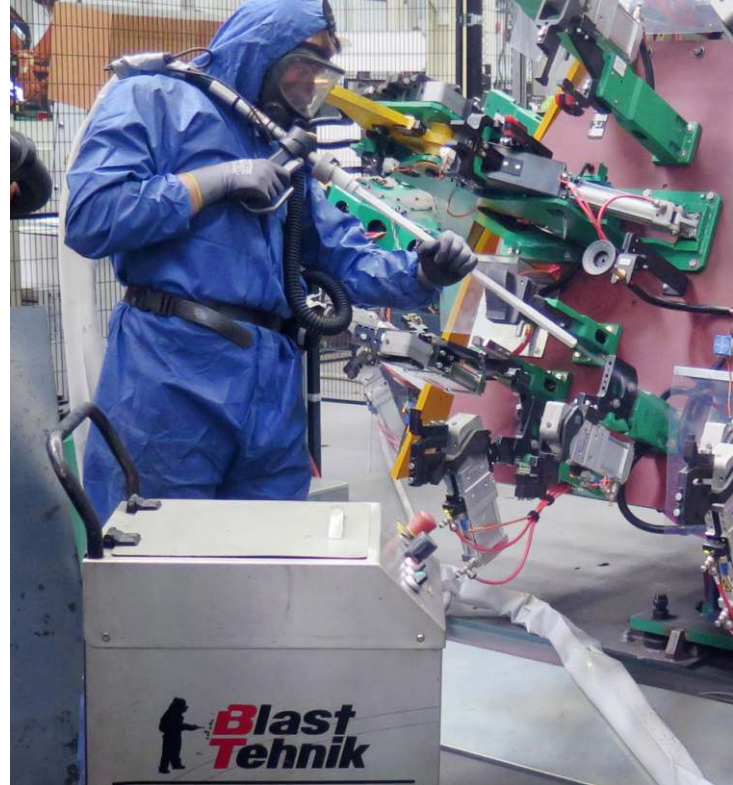
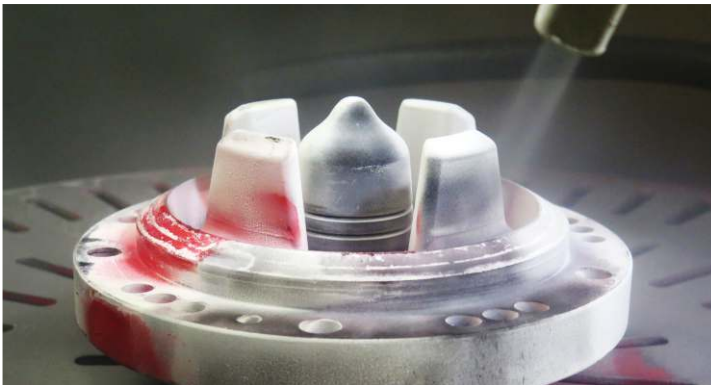
**Blast
Technik**

DRY ICE CLEANING

The most demanding dry ice cleaning equipment on the market



ALL ABOUT
DRY ICE
EQUIPMENT



ABOUT DRY ICE CLEANING:

Dry Ice Blasting is quickly becoming favoured among all industries because of environmental and production processes, standards, and certifications along with a growing consciousness of the environmental impact. Environmental benefits include cleaning with a natural substance, replaces chemicals and minimizes the need for specialty waste disposal.

HOW IT WORKS:

Dry Ice Pellets are propelled at a supersonic speed by compressed air. Upon impact, the dry ice creates a micro-thermal shock (caused by the extreme cold temperature of -79°C) which breaks the bond between the coating and the substrate. The high pressure air stream removes the dirt from the surface, while the Dry Ice Pellets vaporize (sublimate) before your eyes.

BENEFITS:

- **no damage** (completely safe even on delicate surfaces),
- **non-abrasive** and **non-corrosive** process,
- **no secondary waste**,
- **safe on electrical** (non-conductive cleaning technology),
- **no down time** (on-line cleaning, without disassembly and without need for drying),
- **cleaning with natural substances** (100% CO_2).

APPLICATIONS:

- moulds & tools cleaning (thermoplastics, rubber, aluminium & steel casting,...),
- robotic cells cleaning,
- welding tools,
- pharmacy & food process equipment,
- RTO & RTC general maintenance,
- resin production lines,
- paper mills and rolls,
- conveyor belts,
- offset & other printing equipment,...



DI-POWER 16 HD

FOR INTENSIVE INDUSTRIAL USE

DI-POWER 16 is a powerful and durable machine designed to clean the most stubborn dirt. We have developed it in close collaboration with our customers.

TECHNICAL SPECIFICATIONS:

- Dimension (l x w x h): 1110 x 400 x 780 mm
- Hopper capacity: 25 kg
- Dry ice consumption: 25-80 kg / hour
- Air consumption: 4,0 m³ (6 bar, nozzle dia. 8 mm)
- Working pressure: 2-16 bar

DI-POWER 12

FOR THE MOST DEMANDING CLEANING

Powerful and reliable dry ice cleaning machines with easy operation and maintenance. The robust housing is made entirely of stainless steel, making it ideal for demanding environments.

TECHNICAL SPECIFICATIONS:

- Dimension (l x w x h): 1100 x 530 x 700 mm
- Hopper capacity: 23 kg
- Dry ice consumption: 30-80 kg / hour
- Air consumption: 3,2 m³ (6 bar, nozzle dia. 8 mm)
- Working pressure: 2-12 bar



DI-NOMIC

IDEAL FOR DAILY MAINTENANCE

This is the right choice for companies that want to take advantage of dry ice cleaning on smaller surfaces, devices and components without need to large amounts of air.

TECHNICAL SPECIFICATIONS:

- Dimension (l x w x h): 550 x 480 x 610-895 mm
- Hopper capacity: 8 kg
- Dry ice consumption: 10-30 kg / hour
- Air consumption: 1,2 m³ (6 bar, nozzle dia. 5 mm)
- Working pressure: 2-12 bar

DS-ZERO

MAX. MOBILITY & MIN. CONSUMPTION

Extremely precise dry ice cleaning machine that allows safe and efficient cleaning of even the most sensitive surfaces (sensors, circuits, wiring,...).

TECHNICAL SPECIFICATIONS:

- Dimension (l x w x h): 420 x 335 x 920 mm
- Hopper capacity: 6 kg
- Dry ice consumption: 2,5-30 kg / hour
- Air consumption: 0,9 m³ (6 bar, nozzle dia. 4 mm)
- Working pressure: 0,1-10 bar

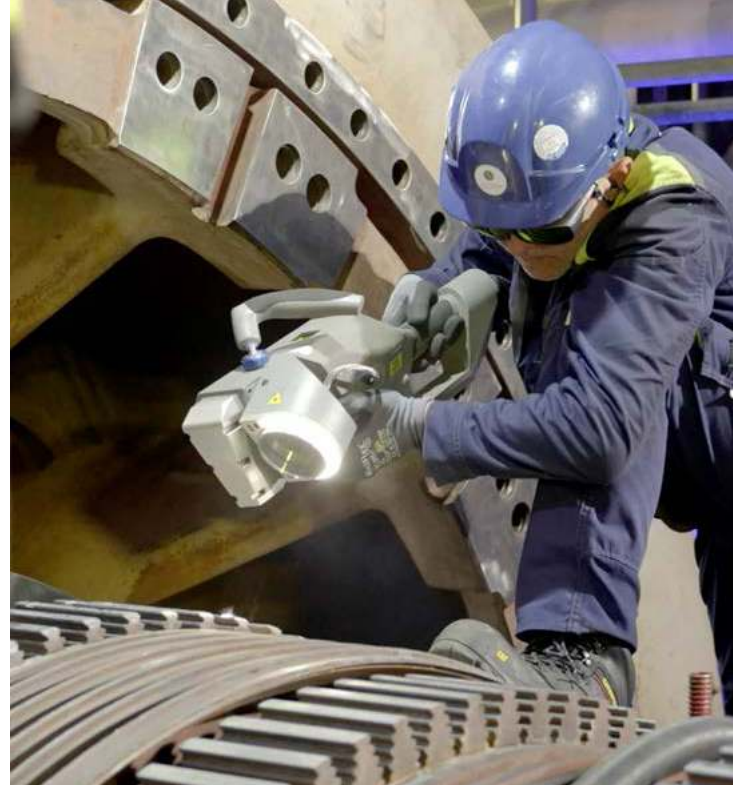


LASER CLEANING

Innovative, precise and cost-effective laser cleaning equipment



**WATCH THE
VIDEO HERE**



ABOUT LASER CLEANING:

Laser Cleaning technology finds its roots in laser marking machines. It uses high energy light pulses to ablate a contaminant from a substrate, reducing secondary waste to nihil.

Due to its basic physics, Laser Cleaning allows for extremely precise cleaning. It's human and environmentally friendly and has a very low operational cost.

HOW IT WORKS:

The pulsed lasers are best to be imagined as bullets of light being shot at a surface. The contaminant will absorb the light that is then reflected on the substrate below. Both layers release each other and the contaminant is extracted immediately.

During the process, the substrate is not significantly heated, nor is it damaged.

BENEFITS:

- removes only unwanted materials,
- low operational cost,
- wide range of use,
- environmentally friendly and safe to operate,
- minimal maintenance,
- controllable non-damaging process,
- low thermal input into substrate,
- manual or automated process.

APPLICATIONS:

- weld (pre-) cleaning,
- tool cleaning (moulds, mechanical elements,...),
- turbine cleaning (blades,...),
- tank restoration (rust, dirt and paint removal),
- PVD Coating removal (improved re-coating results),
- decontamination (silicone, grease,...).



- the most versatile laser cleaning machine on the market
- light-weight and ergonomical design
- rotatable laser head (115°)
- controls integrated in handset



- perfect tool for larger jobs
- 50 meter fiber length
- integrated 4 hoisting points - crane or forlift manipulation



- 24/7 operation (up to 80.000 h)
- easy to integrate
- superior customer support



NEEDLE

MOBILE LASER: 50-300 Watt

With that operational challenge in mind, we developed its Needle. A small, lightweight and versatile laser cleaning machine. It's equipped to be lifted, has additional protection to withstand the most challenging environments and it has just the right size to be taken with you through most man holes.

Because of sharp Gaussian beam profile, it's the perfect tool to clean welds, eliminating the need for passivation.

TECHNICAL SPECIFICATIONS:

- Laser type: Class IV Pulsed Ytterbium fiber
- Available power: 50, 100, 150, 200 & 300 Watt
- Pulse characteristics: Gaussian, max. 1 mJ
- Power supply: 230V | 50-60 Hz | 450 W
- Weight: 20 kg (handset = 2,3 kg)
- Dimension (l x w x h): 333 x 244 x 498 mm



JANGO

MOBILE LASER: 500 & 1.000 Watt

Jango is Needles big brother with the biggest difference being a top hat profile. It has an impressive 50 metres fiber length, making it the perfect tool for larger jobs like tank cleaning or coating removal. This water cooled laser cleaning machine is available as a mobile machine, but can just as well be integrated.

TECHNICAL SPECIFICATIONS:

- Laser type: Class IV Pulsed Ytterbium fiber
- Available power: 500 or 1.000 Watt
- Pulse characteristics: Top hat, max. 100 mJ
- Power supply: 380V | 50-60 Hz | 7,5 kW
- Weight: 750 kg (handset = 4,0 kg)
- Dimension (l x w x h): 2.117 x 840 x 1.470 mm



STATIONARY

STATIONARY LASER: 50 - 1.000 Watt

The integration of our equipment in your production line, partially or fully automated, allows for an unprecedented cleaning precision. Thanks to the software, we can upload CAD drawings to be as precise as possible and win valuable programming time.

TECHNICAL SPECIFICATIONS:

- Laser type: Class IV Pulsed Ytterbium fiber
- Available power: 50-1.000 Watt
- Pulse characteristics: Gaussian or Top hat
- Power supply: see Needle or Jango
- Weight: 750 kg (handset = 4,0 kg)
- Communication: Modbus TCP or IO interface



I am pleased to say that we have found a partner who listens to our needs and is willing to do more than just sell the machine off the shelf. Blast Tehnik machine (DI-POWER 16 HD) performs much better than all previous manufacturers of dry ice cleaning machines. It is an extremely powerful, agile and developed machine with which we achieve excellent results in cleaning of moulds and tools.

Severin Jazbec

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