Product Information

www.coldjet.com

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How does it clean?

Dry ice blast cleaning uses solid CO₂, a non-abrasive media that won’t damage surfaces or equipment. The accelerated, super cooled dry ice pellets or particles, are blasted at supersonic speeds and sublimate on impact resulting in the surface being cleaned, lifting dirt and contaminants off the underlying substrate.

How it works...

Instead of abrasive media to grind surfaces (and damage them), Cold Jet uses dry ice (Solid CO₂) accelerated at supersonic speeds that sublimate upon impact and lift contaminates from substrates.
Why is it better?

Dry ice blast cleaning utilizes a unique combination of forces to powerfully lift surface contaminants without causing damage or creating harmful secondary waste. Similar to sand, bead and soda blasting, dry ice blast cleaning prepares and cleans surfaces using a medium accelerated in a pressurized air stream. But, that’s where the similarity ends.
Dry Ice Cleaning: The Green Clean
A safe alternative for you and the environment

Dry ice cleaning is clean and safe

- Dry ice has been approved by the EPA, FDA and USDA as an acceptable material in cleaning methods.
- For food processors, dry ice cleaning has been documented by the Food Standards Agency to effectively decontaminate surfaces of Salmonella, E. coli, and Listeria.
- Dry ice cleaning does not release harmful gases into the atmosphere.

Environmentally Responsible
In addition to being clean and safe, it is also important to remember that dry ice is obtained as a byproduct of other industrial processes - i.e. it is made from reclaimed CO₂. It does not produce CO₂ or add CO₂ to the atmosphere and therefore does not contribute to the greenhouse effect. Dry ice cleaning is truly, and completely, environmentally responsible.

Other cleaning methods can be toxic

- When using solid grit media or water for cleaning hazardous materials, the cleaning medium also becomes hazardous, requiring special handling, disposal and regulatory reporting. Dry ice creates none of these waste stream additions.
- Sand, soda, or water blasting can create downstream contamination that affects surrounding installations.
- Soda blasting can kill surrounding vegetation.
- Chemical and solvent cleaning methods are toxic, which creates toxic waste requiring disposal.
- Workers are exposed to potentially harmful substances through the use of chemicals and solvents.

Dry ice does not produce CO₂ or add CO₂ to the atmosphere and therefore does not contribute to the greenhouse effect.

Dry ice cleaning does not generate secondary waste.

Dry ice cleaning is safe and non-toxic (once pellets impact the surface they dissipate).

Dry ice cleaning reduces or eliminates employee exposure to (and corporate liability from) the use of dangerous chemical cleaning agents.

“Using dry ice blasting reduces harmful air emissions and generally creates no addition to the volume of the cleaning process waste stream...in-process machinery can be cleaned on-line, resulting in decreased labor costs and less down-time.”

EPA technical fact sheet for TCA hazards and alternatives. EPA 905-F-00-026

“‘We’ve been able to cut back on our use of chemical solvents. We use about 25% of what we used to, which makes us a much more environmentally friendly company.’”

Matt Schrift, Engineer
Robotworx

“‘It’s better for the people and better for the environment. This technology has saved time, and allowed us to reduce our use of chemicals.’”

Bob Hawkey
Versa-Trim
Dry Ice Cleaning vs Traditional Methods

Scrub your traditional cleaning methods.

Dry ice blast cleaning from Cold Jet offers comprehensive cleaning benefits over traditional methods, and can save you up to 80% over current cleaning costs.

Solutions that meet your needs.

Cold Jet’s extensive line of Dry Ice Blasting Systems provides you with the appropriate solution for your need and budget. From delicate cleaning jobs like removing heavy metal from silicon chips or dusting smoke damage from books, and blasting slag from robotic welding equipment and helping clean the turbines at Hoover Dam, Cold Jet’s wide selection of dry ice blasting systems, nozzles and accessories offer robust solutions for commercial and industrial demands.

Dry ice blasting with Cold Jet’s patented shaved technology.

<table>
<thead>
<tr>
<th>Aero Series</th>
<th>i³ Series</th>
</tr>
</thead>
</table>

While pellets are most suitable when removing heavy, thick contaminants, shaved ice is ideal for cleaning delicate substrates, intricate geometries or tiny openings.

- The versatile i³ Series features our patented dry ice block shaving and feeder technology, providing a powerfully gentle and precise clean.

- The revolutionary Aero Series features our SureFlow System, ensuring a reliable flow of dry ice pellets for a superior and efficient clean.
Upon contact, traditional blasting materials become contaminated when used to clean hazardous substances and objects. These blasting materials are also then classified as toxic waste and require appropriate safe disposal.

**Comparative Chart**

<table>
<thead>
<tr>
<th>Cleaning Method</th>
<th>No Secondary Waste</th>
<th>Non-Conductive</th>
<th>Non-Toxic*</th>
<th>Non-Abrasive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Ice Blasting</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Sand Blasting</td>
<td></td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>Soda Blasting</td>
<td></td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>Water Blasting</td>
<td></td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>Hand Tools</td>
<td></td>
<td>•</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemicals</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Upon contact, traditional blasting materials become contaminated when used to clean hazardous substances and objects. These blasting materials are also then classified as toxic waste and require appropriate safe disposal.

**A Closer Look - Benterud School**
City of Lorenskøg removed paint from a brick/concrete wall outside a school in Norway

**Case Summary - ROI**

- The Dry Ice Cleaning removed the paint, fine layer on bricks, and took out loose surfaces (that is normally done by hand) in one operation.

- Having a Kindergarten next to the school made Dry Ice Cleaning the best solution, leaving no secondary waste.

- While Dry Ice Cleaning was not the fastest, or cheapest option, it was the safest solution for workers and kindergarten kids and the most environmentally responsible.

- Dry Ice Cleaning provided the highest value over time, as the school was once re-painted every 3 years, but now can be re-painted in 10-15 years.

“We have used spray painters that constantly clog, and when they are down, we are losing money. Cold Jet’s performance during our evaluation left us with the impression that it had the best dry ice blasters. If we didn’t know it then, we quickly found out during the school project that we had made the right decision.”

“We explained to the school that with dry ice cleaning, we can remove the paint, the surface polish and any loose surface area underneath. We would not have to do every wall by hand, and the process would not damage the walls. Dry ice cleaning is also the safest solution for workers and the kindergarten kids and the most environmentally responsible solution because there is no secondary waste. In addition to these benefits, we also explained that the school would not have to paint for at least another 10-15 years.”
Who uses Dry Ice Cleaning?

Our customer list speaks for itself.
Cold Jet works hard to provide exceptional cleaning solutions to hundreds of the biggest names in the business. These are just a few of the industry leading companies that trust Cold Jet to provide the most reliable and cost-effective cleaning solution for their unique needs.

**AEROSPACE**
- Boeing
- Pratt & Whitney
- Raytheon
- Lockheed Martin
- Honeywell Aircraft Landing
- General Electric Aircraft Engine

**AUTOMOTIVE**
- Toyota
- Bridgestone APM
- Collins & Aikman
- Delphi Automotive Systems
- Foamex International, Inc.
- Honda
- Ford Motor Company

**FOOD**
- Frito-Lay
- Anheuser-Busch, Inc.
- Blue Bell Creamery
- Bremner Food Group
- Bimbo Bakeries
- Sara Lee
- Kraft

**DISASTER REMEDIATION**
- Steamatic
- Paul Davis
- ServPro
- Abatement Restoration
- Belfor
- ServiceMaster

**FOUNDRY**
- Alcoa
- Caterpillar, Inc.
- GM Powertrain
- Bodine Aluminum
- Hayes Lemmery
- Progress Casting
- Nemak

**PLASTICS**
- Sabic
- 3M Company
- AlphaGary Corporation
- Amcor PET Packaging
- Aqua Glass Corporation
- Atlantech International, Inc.

**POWER GENERATION**
- National Semiconductor
- Etheridge Electrical
- Auburn Foundry
- DuPont
- Fujitsu

**PRINTING**
- International Paper
- Cincinnati Enquirer
- H.P. Fuller
- Hallmark Cards
- R.R. Donnelly
- Xerox

**RUBBER/TIRE**
- Bauer Built
- BF Goodrich
- Uchiyama America
- Yusa Corporation
- Tenneco
- Boge

**HISTORICAL**
- Heritage
- Coldsweep
- Blue Water

**WOOD**
- Boise Building Products
- Columbia Forest Products
- Georgia Pacific
- JELD-WEN
- Louisiana Pacific
- Norbord
Discover the Cold Jet i³ MicroClean
Precision Cleaning - Whenever you need it!

Precision cleaning with Shaved Dry Ice
Cold Jet’s patented shaved ice technology provides you with reliable and precise cleaning successes. You will achieve impressing results while deburring parts and manufactured products or carefully cleaning of sensitive surfaces and forms.
Discover the Cold Jet Nozzle Technology
Pellet or shaved ice cleaning - Whenever you need it!

Cold Jet nozzles feature MERN Technology, used by NASA

Variable Fragmenting MERN Nozzle

The patented MERN nozzles make it possible to define the size of the pellets during blast cleaning. Whether pellets or finest particles - you select the correct settings during the cleaning process without any time delay.
**Absolute Precision.**

When precision counts, the single hose electric i³ MicroClean featuring Cold Jet’s patented shaved dry ice technology is your best choice. This environmentally responsible system enables you to safely clean delicate surfaces and complex cavities and crevices that other machines can’t reach—without surface abrasion, disassembly, or harmful secondary waste. With precision control you will be able to debur/deflash the most delicate product. Plus, the robust chain drive provides ultimate reliability for even the most demanding environments.

**ERGONOMIC APPLICATOR**

Specially-designed applicator improves the blasting experience.
- **Ergonomic head**
- **Minimizes fatigue**
- **Extremely durable**
- **High intensity LED Lights**
- **Air only feature**
- **Safety switch**
- **Lightweight**

**NEW SPECIALTY NOZZLES**

- **MC88 (30 cfm) fan nozzle** for fast dusting and cleaning
- **MC88F (25 cfm) patented fragmenting nozzle** for even gentler cleaning
- **MC26M (35 cfm) & MC29MH (50 cfm) patented MERN technology nozzles** for superior performance

**DIMENSIONS**

<table>
<thead>
<tr>
<th></th>
<th>WEIGHT</th>
<th>FEED RATE</th>
<th>BLAST PRESSURE RANGE</th>
<th>DRY ICE CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>22 x 16 x 21 in</td>
<td>130 lbs</td>
<td>0 - 1.2 lb/min</td>
<td>up to 140 PSI</td>
<td>20 lbs</td>
</tr>
<tr>
<td>56 x 41 x 53 cm</td>
<td>59 kg</td>
<td>0 - .6 kg/min</td>
<td>up to 9.7 bar</td>
<td>9.1 kg</td>
</tr>
</tbody>
</table>
Consistent quality block dry ice, whenever, wherever.

Block dry ice on demand.
Making your own dry ice blocks on demand has never been easier. The revolutionary Cold Jet i³ IcePress creates a consistent high-quality dry ice block from pellets, nuggets and/or scrap dry ice in under three minutes.

**KEY BENEFITS**
- High quality blocks
- Uses pellet, nugget or scrap ice
- Controlled outcome every time
- 20 blocks/hr
- Low noise operation
- Rugged construction
- Mobile design

**PREPARE TO BE IMPRESSED**
Small, mobile and easy to use: just add ice and compressed air

- The fully pneumatic i³ IcePress does the rest. Make as little as you need, or as much as you want (up to 20 blocks per hour).

<table>
<thead>
<tr>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>BLOCK WEIGHT</th>
<th>AIR PRESSURE RANGE</th>
<th>BLOCK SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>21 x 25 x 43 in</td>
<td>215 lbs</td>
<td>14.5 lbs</td>
<td>80 - 250 psi</td>
<td>5.75 x 5.75 x 10 in</td>
</tr>
<tr>
<td>54 x 65 x 109 cm</td>
<td>97.5 kg</td>
<td>6.6 kg</td>
<td>5.5 - 17.2 bar</td>
<td>14.6 x 14.6 x 25.4 cm</td>
</tr>
</tbody>
</table>

**GREAT BLOCKS FOR BLASTING**
The IcePress is the perfect companion to your MicroClean or SDI-5 dry ice blasting system.
Precision technology.
These nozzles are used with Cold Jet’s patented shaved dry ice technology, the i3 MicroClean, to provide an effective solution for product finishing or cleaning delicate surfaces and complex mold cavities and crevices that other methods can’t reach.

**MC26M**
Patented MERN technology
1 m³/min @ 5.5 bar, blast swath 0.26”

**MC29MH**
Patented MERN technology
1.5 m³/min @ 5.5 bar, blast swath 0.29”

**MC88**
Fan nozzle for fast gentle cleaning
0.8 m³/min @ 5.5 bar, blast swath 0.88”

**MC88F**
Fragmenting nozzle for even gentler cleaning
0.7 m³/min @ 5.5 bar, blast swath 0.88”

**MERN: Multiple Expansion Reflection Nozzle**
MERN: A technology used in similar form in aviation industry, to achieve optimum energy efficiency with maximum performance enhancement.

<table>
<thead>
<tr>
<th>Nozzle</th>
<th>Part #</th>
<th>Air Consumption</th>
<th>Blast Swath</th>
<th>Length</th>
<th>Dry Ice Feed Rate</th>
<th>Material</th>
<th>Blasting System</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC26M</td>
<td>5E0238</td>
<td>1 m³/min @ 5.5 bar (35 cfm @ 80 psi)</td>
<td>6.6 mm (0.26”)</td>
<td>12.7 cm (5&quot;)</td>
<td>0.2-0.4 kg/min (0.5-1 lbs/min)</td>
<td>Aluminum/ Polymer</td>
<td>i3 MicroClean</td>
</tr>
<tr>
<td>MC29MH</td>
<td>5E0252</td>
<td>1.5 m³/min @ 5.5 bar (50 cfm @ 80 psi)</td>
<td>7.4 mm (0.29&quot;)</td>
<td>15 cm (6&quot;)</td>
<td>0.2-0.5 kg/min (0.5-1.2 lbs/min)</td>
<td>Aluminum/ Polymer</td>
<td>i3 MicroClean</td>
</tr>
<tr>
<td>MC88</td>
<td>5E0272</td>
<td>0.8 m³/min @ 5.5 bar (30 cfm @ 80 psi)</td>
<td>22 mm (0.88&quot;)</td>
<td>12.7 cm (5&quot;)</td>
<td>0.2-0.5 kg/min (0.5-1.2 lbs/min)</td>
<td>Aluminum/ Polymer</td>
<td>i3 MicroClean</td>
</tr>
<tr>
<td>MC88F</td>
<td>5E0274</td>
<td>0.7 m³/min @ 5.5 bar (25 cfm @ 80 psi)</td>
<td>22 mm (0.88&quot;)</td>
<td>12.7 cm (5&quot;)</td>
<td>0.2-0.4 kg/min (0.5-1 lbs/min)</td>
<td>Aluminum/ Polymer</td>
<td>i3 MicroClean</td>
</tr>
</tbody>
</table>

**MERN Benefits**
- Quality design
- Easy handling
- High performance by multiple acceleration in the nozzle throat
- Less air & less ice consumption
- Optimum energy yield
Cold Jet Modular Block Dry Ice Dispenser System
- Linear unit with 3D 360° joint head
- Ice/pressure adjustment with touch screen
- Compatible with many tools and construction forms
- Optional: local exhaust ventilation
- Optional: custom production
- Applications: Tool cleaning, deburring, surface preparation for paint
- Automation price: 70.000,00 € – 80.000,00 €

Cold Jet Modular Air Dehumidification
- Rack/housing for the i³ MicroClean
- Power: 270 m³ process air/hour
- Applications: Prevents water/ice at machine components when operating 24/7
- Price: 7.600,00 €

Cold Jet Modular Blasting Cabinet
- Blasting cabinet for the i³ MicroClean
- Safe for static charge (static ground mat)
- Automatic control for light and ventilation
- Turntable for 200 kg
- Spare gloves
- Optional: ventilation with self-cleaning dirt filtration
- Applications: Tool cleaning, deburring, surface preparation for paint
- Cabinet price: 7.800,00 €

Cold Jet Modular Exhaust Ventilation
- Exhaust Ventilation for ice dispenser system or manual blasting unit
- Power: 0,75kw
- Self-cleaning filter with compressed air
- Variable usability
- Applications: Energy efficient ventilation from dirt particles
- Exhaust Ventilation price: 2.200,00 €

Price Integration
- Cold Jet Dispenser, i³ MicroClean and Air dehumidification: 2.500,00 €
- i³ MicroClean, Blasting Cabinet and/or Air dehumidification: 1.100,00 €
- Exworks, incl. packaging
- Extra: Installation assistance
Discover the Cold Aero Series
Powerful and Efficient Cleaning - Whenever you need it!

Lean. Green. Clean... and Fast!

The New Aero is simply the most powerful and efficient dry ice blast cleaning system ever! Blazingly fast, remarkably economical, and environmentally friendly. Aero lets you clean better with less effort, increasing productivity and profit - no matter the size of your job.
Discover Advanced Nozzle Performance
Patented Technology for Superior Results.

- Multi-function Capability
- Flexibility - change the dial for different applications instead of nozzle or support equipment
- Cost Savings - multi-application capability with just one nozzle
- Time Savings - eliminate downtime for nozzle, screen or hose changes
- Reliability - fragmenting occurs downstream of nozzle throat for clog free operation
- MERN technology for ultimate performance

Up To 4X More Reliable Than Competitors.

In a side by side comparison the Cold Jet 312V2 Variable Nozzle never clogged while blasting for 10 consecutive minutes. The leading competitor’s fragmenting nozzle began clogging after only 2 minutes 30 seconds.
The future of dry ice blast cleaning is here.

Unmatched in the industry, the rugged Aero Line delivers a superior clean with the lowest cost of ownership. Our environmentally responsible systems are engineered to be reliable, easy and cost effective to use, helping you get the job done faster, smarter and safer.

Choosing the right solution.

The Aero Line offers superior performance and versatility with or without electricity. Regardless of the size of your project or budget, from the compact Aero 40 to the all-pneumatic Aero C100, Cold Jet has the right solution to meet your needs. Contact Cold Jet to determine the best solution for your application.

What makes Aero different?

Cold Jet has perfected the Aero blast system to deliver results others can’t. The revolutionary delivery system provides a superior clean every time you pull the trigger. A single operator can run a full hopper of dry ice through a 100 ft hose without poking, clogging or loss of cleaning aggression.

### Aero Series
Setting a new standard for dry ice blast cleaning.

#### CLEANING SYSTEM

<table>
<thead>
<tr>
<th></th>
<th>HOPPER SIZE</th>
<th>TILT OUT HOPPER</th>
<th>FEED RATE</th>
<th>SureFlow SYSTEM</th>
<th>CLEANING AGGRESSION</th>
<th>POWER SUPPLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aero 80 HP</td>
<td>36.2 kg (80 lb)</td>
<td>●</td>
<td>0-3.2 kg/min (0-7 lb/min)</td>
<td>●</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Electric</td>
</tr>
<tr>
<td>Aero 80</td>
<td>36.2 kg (80 lb)</td>
<td>●</td>
<td>0-3.2 kg/min (0-7 lb/min)</td>
<td>●</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Electric</td>
</tr>
<tr>
<td>Aero 40 HP</td>
<td>18.2 kg (40 lb)</td>
<td>●</td>
<td>0-2 kg/min (0-4 lb/min)</td>
<td>●</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Electric</td>
</tr>
<tr>
<td>Aero 40</td>
<td>18.2 kg (40 lb)</td>
<td>●</td>
<td>0-2 kg/min (0-4 lb/min)</td>
<td>●</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Electric</td>
</tr>
<tr>
<td>Aero C100</td>
<td>45.5 kg (100 lb)</td>
<td>●</td>
<td>0-3.2 kg/min (0-7 lb/min)</td>
<td>●</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Pneumatic</td>
</tr>
<tr>
<td>Aero V</td>
<td>13.6 kg (30 lb)</td>
<td>●</td>
<td>0-1.4 kg/min 0-3 lb/min</td>
<td>●</td>
<td></td>
<td>Electric</td>
</tr>
</tbody>
</table>

### SureFlow SYSTEM

- **Sealed Lid**
  Eliminates moisture
- **Insulated Hopper**
  Reduces sublimation
- **Isolated Hopper**
  Concentrates agitation
- **Hopper Agitation**
  Prevents clogging
- **Radial Feeder**
  Provides pulse-free blasting
- **Aerodynamic Fittings**
  Minimizes air requirements
- **Burst-Proof Blast Hose**
  Maximizes hose safety

### AEROSPACE TECHNOLOGY

- **Industrial Grade**
  Ensures continued operation
- **Ergonomic Applicator**
  Virtually fatigue-free control
- **AeroTech Nozzles**
  Maximizes performance

Cold Jet nozzles feature MERN Technology used by NASA

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Asia +81 3 4360 8347  • Canada: +1 800.337.9423 X501  • Latin America: +52 (81)10 97 0445  • www.coldjet.com
Aero 80 Series
The signature series of the Aero Line. (80/80 HP)

Built to Blast. Built to Last.
Available in standard and High Pressure (HP) models, the 80 Series guarantees the best pellet integrity, maximum cleaning aggression, and the most reliable blast stream on the market. In addition to the standard Aero features, the 80 Series uses frequency-tuned vibratory agitation to eliminate clogging—allowing you to blast through the 80 lb hopper without stopping.

Built to Blast. Built to Last.
Available in standard and High Pressure (HP) models, the 80 Series guarantees the best pellet integrity, maximum cleaning aggression, and the most reliable blast stream on the market. In addition to the standard Aero features, the 80 Series uses frequency-tuned vibratory agitation to eliminate clogging—allowing you to blast through the 80 lb hopper without stopping.

### AERO 80 SERIES BENEFITS
- Reliable pellet flow
- No clogging
- Easy to maintain
- Safe operation
- Minimized sublimation
- Minimal air/ice usage
- Pulse-Free blasting
- Most advanced nozzles
- Rugged and mobile
- Nozzle storage
- ESD (static) prevention

### ADVANCED APPLICATOR
- Quick change nozzle connection
- SureFire Light (DX/HP model only)
- Safety switch
- Air-only switch
- Extremely durable
- Minimizes fatigue

### DIMENSIONS, WEIGHT, FEED RATE, BLAST PRESSURE RANGE, DRY ICE CAPACITY

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Weight</th>
<th>Feed Rate</th>
<th>Blast Pressure Range</th>
<th>Dry Ice Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>43 x 20 x 46 in</td>
<td>400 lbs</td>
<td>0-7 lb/min</td>
<td>*20-140 PSI (80) *20-300 PSI (HP Model)</td>
<td>80 lbs</td>
</tr>
<tr>
<td>109 x 52 x 118 cm</td>
<td>181 kg</td>
<td>0-3.2 kg/min</td>
<td>*1.4 - 9.7 bar (80) *1.4 - 20.7 bar (HP Model)</td>
<td>36.4 kg</td>
</tr>
</tbody>
</table>

*with optional pressure regulator; without regulator minimum is 65 PSI (4.5 bar.)
Innovation inside and out
Patented technology for superior results.

Welded Steel Frame
Rugged and durable

Large Flat-Free Tires
Manages uneven terrain easily

Hose Management System
Safely stores hoses (Optional on the Aero 80)

Sealed Lid
Eliminates moisture and clumping

Hopper Vibrators
Keeps pellets fluidized

Tilt-out Hopper
Easily remove and save unused pellets (Aero 80 HP only)

Whip Check
Safe blast hose operation

360° Turning Radius
Navigates in tight areas

Ergonomic Handles
Provide effortless maneuvering

Storage Compartment
Conveniently stores accessories

Ergonomic Handles
Provide effortless maneuvering

Welded Steel Frame
Rugged and durable

Nozzle Hangers
Easily store nozzles

Stainless Steel - Insulated, Isolated Hopper
Reduces sublimation and ensures reliable feed

Hopper Vibrators
Keeps pellets fluidized

Tilt-out Hopper
Easily remove and save unused pellets (Aero 80 HP only)

Whip Check
Safe blast hose operation

360° Turning Radius
Navigates in tight areas

Easy-off Panels
Allow for quick inspections of internal components

Large Flat-Free Tires
Manages uneven terrain easily
SureFlow System
Patented technology for non-stop, hassle-free cleaning.

Sealed Lid
*Eliminates moisture*

Insulated Hopper
*Reduces sublimation*

Isolated Hopper
*Concentrates agitation*

Hopper Agitation
*Prevents clogging*

Radial Feeder
*Provides pulse-free blasting*

Aerodynamic Fittings
*Minimizes air requirements*

Burst-Proof Blast Hose
*Maximizes hose safety*

Integrated Static Bonding Connection
*To eliminate electrostatic discharge*
*(ensures safer work conditions)*
Recycle - Reduce - Reuse
The 80 HP features a tilt-out hopper that allows you to empty unused ice easily, then use again. (HP Model Only)

Aero Series Benefits
Patented technology for superior results.

- Reliable pellet flow
- No clogging
- Easy to maintain
- Safe operation
- Minimized sublimation
- Minimal air/ice usage
- Pulse-Free blasting
- Most advanced nozzles
- Rugged and mobile
- Nozzle storage
- ESD (static) prevention
FOOD / PACKAGING (CONVEYOR CLEANING)

HISTORICAL RESTORATION

FOUNDRY

ROBOT CLEANING
Dial in the perfect clean.
Introducing the revolutionary line of variable Aero nozzles. With patented MERN technology and patent pending variable fragmenting technology you have the power to control aggression downstream of the nozzle throat for a full range of performance with maximum effectiveness.

**MERN Benefits**
- 1 Nozzle for different applications
- Quality design
- Easy handling
- Environmentally Friendly
- Improved quality of products
- Improved quality of products

**MERN: Multiple Expansion Reflection Nozzle**
MERN: A technology used in similar form in aviation industry, to achieve optimum energy efficiency with maximum performance enhancement.

<table>
<thead>
<tr>
<th>Nozzle</th>
<th>Part #</th>
<th>Air Consumption</th>
<th>Blast Swath</th>
<th>Length</th>
<th>Dry Ice Feed Rate</th>
<th>Material</th>
<th>Blasting System</th>
</tr>
</thead>
</table>
Cold Jet Customer Service
World-class customer service - all over the world.

Accessories and Spare Parts.
The Cold Jet customer service team is always available to answer your questions and assess your unique cleaning needs. We will recommend the appropriate accessories to complement your system. Each application is different and often a specialized configuration will maximize your system’s performance. Cold Jet’s support team can also help you with any necessary spare parts to keep your equipment performing at its best.

Product Upgrades
Our Upgrade Program allows you to upgrade your competitive brand, older model or a dual-hose blast system. We want you to grow with Cold Jet and utilize the latest technology advancements in dry ice blasting.

Equipment Training
Our equipment comes with a detailed training video covering proper start up, shut down, operation, safety issues and basic troubleshooting tips. We have state-of-the-art training centers in Cincinnati, OH, Rancho Cucamonga, CA, and Heusden-Zolder, Belgium. These centers are set up to provide training seminars to both large and small groups. Periodically, we also offer training seminars on specific cleaning applications as well as on individual blasting systems. We can also provide on-site training programs upon request.

Service and Maintenance Programs.
• Regularly scheduled maintenance for maximum system efficiency
• Additional Support - when regular troubleshooting tips are not sufficient
• A temporary replacement system, should your system need to be repaired at our facility

24 Hour Technical support.
As a full service company, the Cold Jet customer support team of technicians are available 24 hours a day, 7 days a week. When you need technical support, you can expect:
• Prompt, courteous service from a qualified technician to solve your problem
• Assistance by telephone, fax, or electronic mail for information related to product use, configuration, and troubleshooting
• A comprehensive solution to your problem
• Cold Jet to continue working with you until you are completely satisfied and the performance level of your equipment meets equipment design performance expectations.
• Our service professionals will:
  • Recommend appropriate accessories to maximize performance
  • Fulfill orders for high-quality, Cold Jet authorized parts
  • Additional services
  • Provide installation services
  • Provide maintenance or repair at a Cold Jet Service Center or at your site
  • All of our additional services are available at competitive rates.

To learn more about our Extended Warranty, Used Blasting Equipment, Accessories and Spare Parts, or Rental and Leasing Programs visit www.coldjet.com or call 800-777-9101.

For product upgrade information call:
513-576-8981
800-777-9101 (toll free)

To find out more about our training seminars, call:
513-831-3211
800-337-9423 (toll free)
+32 (0) 13 53 95 47 (Europe)
CONCLUSIONS:

Aero nozzles are nearly 3 times faster than the Competitions
MERN nozzle technology delivers meaningfully superior results

*MERN = Multiple Expansion Reflection Nozzle
# ROI vs Leading Competitor

## Cold Jet vs. Competitors

<table>
<thead>
<tr>
<th></th>
<th>Cold Jet</th>
<th>Competitors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressor Renting Cost Per Hour (Cold Jet 6 bar 4 qm/min vs. 12 bar 9 qm/min)</td>
<td>€15,00</td>
<td>€26,00</td>
</tr>
<tr>
<td>Diesel-Compressor Renting Cost Per Hour (Cold Jet 8-12 ltr./hr vs. 15-22 ltr./hr /1.30 €/ltr.)</td>
<td>€13,00</td>
<td>€24,00</td>
</tr>
<tr>
<td>Dry Ice Pellets Cost Per Hour (~ CJ 45 kg vs. ~ 72 kg / 0.7 €/kg)</td>
<td>€32,00</td>
<td>€51,00</td>
</tr>
<tr>
<td>General Costs</td>
<td>€10,00</td>
<td>€10,00</td>
</tr>
<tr>
<td>Depreciation of the Dry Ice Cleaning System (24,000 € CJ vs 18,000 € competition – 4 years, 25 hrs./month)</td>
<td>€20,00</td>
<td>€15,00</td>
</tr>
<tr>
<td>Average hourly rate without labor</td>
<td>€90,00</td>
<td>€126,00</td>
</tr>
</tbody>
</table>

- **€36,00 SAVINGS PER HOUR WITH A COLD JET SYSTEM** -

Cold Jet Aero Systems clean faster than the competition, with less air consumption and additionally with less investment cost for a suitable compressor.
# Cold Jet vs Competition - Benefits

<table>
<thead>
<tr>
<th>Core Benefits</th>
<th>ASC.</th>
<th>BUS.</th>
<th>DIS.</th>
<th>ICE.</th>
<th>Karch.</th>
<th>Triv.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic Ram-Rods</td>
<td>✔</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Sure-Flow benefit – to protect against ice bridge</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>“Sure Flow System”</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Isolated hopper with MLI-Technology / allows ice to be stored for hours</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hopper Agitation (Prevents Clogging)</td>
<td>✔</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Durable Rotor</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>→ maintenance-intensive circular plate system with a high consumption</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quick-Change-Module for Nozzles</td>
<td>✔</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Applicator for tight areas &amp; angle / elbow nozzles</td>
<td>✔</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>MERN-4-Step-Nozzle Technology</td>
<td>✔</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Pellet or Snow = intensive or soft cleaning can be chosen</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hose grounding system</td>
<td>✔</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Safety fits for the workers - the static is on the hose and not on the machine</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hose extension possible</td>
<td>✔</td>
<td>No</td>
<td>✔➡</td>
<td>No</td>
<td>Imd max 12m</td>
<td>No</td>
</tr>
<tr>
<td>MERN variable Fragment nozzle and others can be extended</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18 - 30m</td>
<td>No</td>
<td>Imd max 12m</td>
<td>No</td>
<td>Imd max 12m</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Large Hopper (in Kg)</td>
<td>✔</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>16-45</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Big flat free rubber Wheels</td>
<td>✔</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>(easy navigation in tight areas &amp; uneven terrain)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advantages</td>
<td>ASC.</td>
<td>BUS.</td>
<td>DIS.</td>
<td>ICE.</td>
<td>Karch.</td>
<td>Triv.</td>
</tr>
<tr>
<td>----------------------------------------------------------------------------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>--------</td>
<td>-------</td>
</tr>
<tr>
<td>360 rotary Applicator vs. Applicator with swivel air connection for stress free work</td>
<td>✓</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>Applicator with LED Light - integrated without outside cable</td>
<td>✓</td>
<td>yes / no</td>
<td>yes / no</td>
<td>yes / no</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>Option just air blasting or air with ice blasting</td>
<td>✓</td>
<td>no</td>
<td>no</td>
<td>yes / no</td>
<td>✓</td>
<td>no</td>
</tr>
<tr>
<td>Skirting protection (protect the machine)</td>
<td>✓</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>Hose-Management System (to hang the hoses on the machine)</td>
<td>✓</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>Welded Steel Frame (transport via crane possible)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>no</td>
<td>✓</td>
<td>no</td>
</tr>
<tr>
<td>Isolated top of the hopper - reduce ice sublimation</td>
<td>✓</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>Hose Carrier (easy &amp; quick hose carrying)</td>
<td>✓</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>Nozzle hanger (to fix the Nozzle on the machine)</td>
<td>✓</td>
<td>no</td>
<td>yes / no</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>Silicon free blast hoses (protect freezing)</td>
<td>✓</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>Maintenance due to CJ dispensing system</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>no</td>
</tr>
<tr>
<td>Service contract options including annual check VDE</td>
<td>✓</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Selling Points</th>
<th>ASC.</th>
<th>BUS.</th>
<th>DIS.</th>
<th>ICE.</th>
<th>Karch.</th>
<th>Triv.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production Friendly</td>
<td>✓</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>Faster cleaning through increased performance</td>
<td>✓</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>Cost Friendly</td>
<td>✓</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>Uses less air and ice</td>
<td>✓</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>Investment Friendly</td>
<td>✓</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>Less air means smaller compressor and investment</td>
<td>✓</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>Environmentally Friendly</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>no</td>
</tr>
<tr>
<td>Less air and ice consumption protects the environment</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>no</td>
</tr>
</tbody>
</table>

---

ASC. = Advanced Sandblasting Corporation  
BUS. = Business Solutions  
DIS. = Diverse Industries  
ICE. = Industrial Cleaning Equipment  
Karch. = Kärcher  
Triv. = Triveni
Dry Ice Cleaning Test

Customer Info:

__________________________  ____________________________
__________________________  ____________________________
__________________________  ____________________________
( or Business Card )

Date:________________________
Cold Jet Employee:________________________
Machine Type:________________________
Primary Part(s):________________________
Secondary Part(s):________________________
Contaminants(s):________________________

<table>
<thead>
<tr>
<th>Trial</th>
<th>Description</th>
<th>Nozzle Used</th>
<th>Air Pressure</th>
<th>Cleaning Result</th>
<th>Speed of Clean</th>
<th>Effective as a Tool?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 2 3 4</td>
<td>1 2 3 4</td>
<td>1 2 3 4</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Current Cleaning Method(s): __________ Media: __________ Up Front Cost?: __________

<table>
<thead>
<tr>
<th>Current Cleaning Method(s)</th>
<th>Media</th>
<th>Up Front Cost?</th>
<th>Cleaning Result</th>
<th>Speed of Clean</th>
<th>Effective as a Tool?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 2 3 4</td>
<td>1 2 3 4</td>
<td>1 2 3 4</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

GRADING SCALE: 1 = VERY POOR/VERY SLOWLY → 4 = GREAT/VERY FAST

Air Pressure: ________ Bar,  Removal Rate: ________ sec,  Dry ice quality used for demo: ☐ good ☐ average ☐ poor
Dry Ice Provider: __________________________  Cost per pound: ________  Contract? ________ Cold Jet Provided? ________

YES NO DATE

Before & After pictures of objects being cleaned: ☐ ☐ ________
Video of Cleaning? ☐ ☐ ________
Parts returned back to customer (if applicable) ☐ ☐ ________
Customer received a copy of this report at time of cleaning ☐ ☐ ________
Copy of the report mailed to customer ☐ ☐ ________
Copy of the report send via email post demo ☐ ☐ ________
Contact person of the purchasing department: __________________________  Phone: __________________________
Other Contacts within the plant or company: __________________________  Phone: __________________________
Email: __________________________

COMMENTS/NEXT STEPS:

__________________________________________________________________________

CUSTOMER SIGNATURE __________________________  COLD JET SIGNATURE __________________________
Product Configuration

prepared on:  Monday May 30, 2011
prepared by:  Joke Peeters
Cold Jet Europe bvba

Application:  Tire Molds
Company:  Cold Jet Europe bvba
Air Source:  Plant Air

Bill of Materials:

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Part #</th>
<th>Part Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2A0164</td>
<td>Aero 80 HP</td>
</tr>
<tr>
<td>1</td>
<td>2E0425-G2</td>
<td>AeroTech Applicator with Light</td>
</tr>
<tr>
<td>1</td>
<td>5E0156</td>
<td>312S1</td>
</tr>
<tr>
<td>1</td>
<td>5E0175</td>
<td>323S1</td>
</tr>
<tr>
<td>1</td>
<td>5E0238</td>
<td>523V2</td>
</tr>
<tr>
<td>2</td>
<td>2N0199</td>
<td>Air Supply Hose - 25' (7.6 m) - Aero Series</td>
</tr>
<tr>
<td>2</td>
<td>2N0223-G2</td>
<td>Blast Hose - 1 1/4&quot; (3.2 cm) ID (with Control Cable) (Electric)</td>
</tr>
<tr>
<td>1</td>
<td>2N0222-G2</td>
<td>Blast Hose - 1&quot; (2.5 cm) ID (with Control Cable) (Electric)</td>
</tr>
<tr>
<td>2</td>
<td>20HTX-S</td>
<td>1 1/4&quot; (3.2 cm) JICM</td>
</tr>
<tr>
<td>1</td>
<td>3N0087</td>
<td>Bond Cable Shaft Collar - 1 1/4&quot; bore</td>
</tr>
<tr>
<td>1</td>
<td>4Z0051</td>
<td>Whip Check</td>
</tr>
</tbody>
</table>

Details

Aero 80 HP
- Hose and nozzle management devices
- 360° radius mobility
- 12-month warranty
- All terrain, no-flat wheels
- Tilt-out hopper with unused ice saving feature
- Patented, industry leading feeder design
- Trigger-activated hopper agitation
- Sealed hopper/lid design
- Patented isolated hopper design
- Advanced space-age hopper insulation (dramatically slows ice sublimation)
- SureFlow System

AeroTech Applicator with Light
- Military-Grade light attachment
- Integrated Quick Change feature so that nozzles can be changed safely and easily
- Designed for right and left handed users
- Safety switch
- Air-Only Feature
- Lightweight

312S1
- Length: 12"
- Blast Swath: 1"
- Aggression: Medium
- Particle Size: Large

323S1
- Length: 23"
- Blast Swath: 1"
- Aggression: High
- Particle Size: Large

523V2
- Length: 23"
- Blast Swath: 2"
- Aggression: Variable
- Particle Size: Variable

Hoses
- 1 - Air Supply Hose - 25' (7.6 m) - Aero Series
- 2 - Blast Hose - 1 1/4" (3.2 cm) ID (with Control Cable) (Electric)
- 1 - Blast Hose - 1" (2.5 cm) ID (with Control Cable) (Electric)

Accessories
- 2 - 1 1/4" (3.2 cm) JICM
- 1 - Bond Cable Shaft Collar - 1 1/4" bore
- 1 - Whip Check

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ROI for: Injection Molding
Prepared on: 01 Sep 2011

ROI Details

<table>
<thead>
<tr>
<th>Capital Expenditure</th>
<th>Cold Jet</th>
<th>Current Method</th>
<th>Key/Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine Cost</td>
<td>20900</td>
<td>N/A</td>
<td>€</td>
</tr>
<tr>
<td>Accessories &amp; Extras</td>
<td>1500</td>
<td>N/A</td>
<td>€</td>
</tr>
<tr>
<td>Equipment Depreciation Schedule</td>
<td>5</td>
<td>N/A</td>
<td>years</td>
</tr>
<tr>
<td>Tax Rate</td>
<td>.19</td>
<td>N/A</td>
<td>% (x100)</td>
</tr>
<tr>
<td>Cost of Capital</td>
<td>0</td>
<td>N/A</td>
<td>% (x100)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Productivity</th>
<th>Cold Jet</th>
<th>Current Method</th>
<th>Key/Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Cleanings</td>
<td>360</td>
<td>360</td>
<td>per year</td>
</tr>
<tr>
<td>Total Hours Downtime due to Cleaning</td>
<td>0.25</td>
<td>7</td>
<td>per cleaning</td>
</tr>
<tr>
<td>Units Produced at Capacity</td>
<td>720</td>
<td>720</td>
<td>units per hour</td>
</tr>
<tr>
<td>Cost of Goods Sold</td>
<td>.10</td>
<td>.10</td>
<td>per unit</td>
</tr>
<tr>
<td>Estimated Gross Profit Margin (% per unit)</td>
<td>.40</td>
<td>.40</td>
<td>per unit</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Labor</th>
<th>Cold Jet</th>
<th>Current Method</th>
<th>Key/Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Time to Clean</td>
<td>0.167</td>
<td>7</td>
<td>hours</td>
</tr>
<tr>
<td>Number of Full Time Equivalents</td>
<td>1</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Labor Rate</td>
<td>30</td>
<td>30</td>
<td>per hour</td>
</tr>
<tr>
<td>Estimated Cost of Subcontractors</td>
<td>0</td>
<td>0</td>
<td>€ per cleaning</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Consumables/Variable Costs</th>
<th>Cold Jet</th>
<th>Current Method</th>
<th>Key/Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Ice Usage</td>
<td>0.6</td>
<td>N/A</td>
<td>kg/minute</td>
</tr>
<tr>
<td>Cost of Dry Ice</td>
<td>.40</td>
<td>N/A</td>
<td>€ per kg</td>
</tr>
<tr>
<td>Compressed Air Usage</td>
<td>150</td>
<td>N/A</td>
<td>m³/minute</td>
</tr>
<tr>
<td>Cost of Compressed Air (est)</td>
<td>0.84</td>
<td>N/A</td>
<td>€ per 1000 m³</td>
</tr>
<tr>
<td>Cost of Dry Ice Delivery</td>
<td>0</td>
<td>N/A</td>
<td>€ per cleaning</td>
</tr>
<tr>
<td>Cost of Chemicals (plus other misc. materials)</td>
<td>0</td>
<td>5</td>
<td>€ per cleaning</td>
</tr>
<tr>
<td>Cost of Secondary Waste Disposal (est)</td>
<td>0</td>
<td>5</td>
<td>€ per cleaning</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wear &amp; Tear of Equipment Being Cleaned</th>
<th>Cold Jet</th>
<th>Current Method</th>
<th>Key/Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost of Equipment Damage (est)</td>
<td>0</td>
<td>1000</td>
<td>€ per year</td>
</tr>
</tbody>
</table>
### ROI 5-year Annualization

<table>
<thead>
<tr>
<th>Cost of Current Cleaning Method</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Productivity Losses</td>
<td>€72,576.00</td>
<td>€72,576.00</td>
<td>€72,576.00</td>
<td>€72,576.00</td>
<td>€72,576.00</td>
</tr>
<tr>
<td>Labor</td>
<td>€151,200.00</td>
<td>€151,200.00</td>
<td>€151,200.00</td>
<td>€151,200.00</td>
<td>€151,200.00</td>
</tr>
<tr>
<td>Consumables</td>
<td>€3,600.00</td>
<td>€3,600.00</td>
<td>€3,600.00</td>
<td>€3,600.00</td>
<td>€3,600.00</td>
</tr>
<tr>
<td>Equipment Replacement</td>
<td>€1,000.00</td>
<td>€1,000.00</td>
<td>€1,000.00</td>
<td>€1,000.00</td>
<td>€1,000.00</td>
</tr>
<tr>
<td><strong>Total Current Costs</strong></td>
<td>€228,376.00</td>
<td>€228,376.00</td>
<td>€228,376.00</td>
<td>€228,376.00</td>
<td>€228,376.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expected Cost of Cleaning with Cold Jet</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Depreciation</td>
<td>€4,480.00</td>
<td>€4,480.00</td>
<td>€4,480.00</td>
<td>€4,480.00</td>
<td>€4,480.00</td>
</tr>
<tr>
<td>Productivity Losses</td>
<td>€2,592.00</td>
<td>€2,592.00</td>
<td>€2,592.00</td>
<td>€2,592.00</td>
<td>€2,592.00</td>
</tr>
<tr>
<td>Labor</td>
<td>€1,803.60</td>
<td>€1,803.60</td>
<td>€1,803.60</td>
<td>€1,803.60</td>
<td>€1,803.60</td>
</tr>
<tr>
<td>Consumables</td>
<td>€1,320.24</td>
<td>€1,320.24</td>
<td>€1,320.24</td>
<td>€1,320.24</td>
<td>€1,320.24</td>
</tr>
<tr>
<td>Equipment Replacement</td>
<td>€0.00</td>
<td>€0.00</td>
<td>€0.00</td>
<td>€0.00</td>
<td>€0.00</td>
</tr>
<tr>
<td><strong>Total Expected Costs with Cold Jet</strong></td>
<td>€10,195.84</td>
<td>€10,195.84</td>
<td>€10,195.84</td>
<td>€10,195.84</td>
<td>€10,195.84</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Increase (or decrease) in After Tax Profit</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expected Cost Decrease (or increase) with Cold Jet</td>
<td>€218,180.16</td>
<td>€218,180.16</td>
<td>€218,180.16</td>
<td>€218,180.16</td>
<td>€218,180.16</td>
</tr>
<tr>
<td>Less Additional Tax</td>
<td>€(61,454.23)</td>
<td>€(61,454.23)</td>
<td>€(61,454.23)</td>
<td>€(61,454.23)</td>
<td>€(61,454.23)</td>
</tr>
<tr>
<td><strong>Increase (or decrease) in After Tax Profit</strong></td>
<td>€176,725.93</td>
<td>€176,725.93</td>
<td>€176,725.93</td>
<td>€176,725.93</td>
<td>€176,725.93</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cash Flow and Financial Evaluation</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increase (or decrease) in After Tax Profit</td>
<td>€176,725.93</td>
<td>€176,725.93</td>
<td>€176,725.93</td>
<td>€176,725.93</td>
<td>€176,725.93</td>
</tr>
<tr>
<td>Plus Depreciation</td>
<td>€4,480.00</td>
<td>€4,480.00</td>
<td>€4,480.00</td>
<td>€4,480.00</td>
<td>€4,480.00</td>
</tr>
<tr>
<td>Less Capital Expenditure</td>
<td>€0.00</td>
<td>€0.00</td>
<td>€0.00</td>
<td>€0.00</td>
<td>€0.00</td>
</tr>
<tr>
<td><strong>Net Cash Flow</strong></td>
<td>€181,205.93</td>
<td>€181,205.93</td>
<td>€181,205.93</td>
<td>€181,205.93</td>
<td>€181,205.93</td>
</tr>
<tr>
<td>Cumulative Cash Flow</td>
<td>€158,805.93</td>
<td>€340,011.87</td>
<td>€521,217.80</td>
<td>€702,423.73</td>
<td>€883,629.67</td>
</tr>
</tbody>
</table>

**Notes:**
- The material (dry ice and compressed air) costs are given default values based on industry and geographic averages. These figures are designed to help you estimate your potential savings.

© Cold Jet, LLC 455 Wards Corner Rd, Loveland, OH 45140, 1-800-337-9423
Discover Dry Ice Manufacturing
Produce the purest dry ice available - Whenever you need it!

High Quality. High Density. High Satisfaction

Our dry ice production equipment has been specially engineered to produce the highest density extruded dry ice available. Cold Jet dry ice has a longer shelf life, better transportability, and offers better blasting aggression.
Dry Ice Production

Cost effective & safe production of high quality dry ice

**Superior quality. Absolute reliability.**

Offering the highest output per floor footprint, and the best production uptime of any equipment on the market, Cold Jet’s full-line of pelletizers produce consistent, high density dry ice exhibiting superior physical properties. Less breakage, longer shelf-life, and greater cooling capacity mean less cost and greater satisfaction for you.

For maximum performance and flexibility, our dry ice production and blasting solutions can integrate together or into your current production environment. All this backed by our 24/7 global customer support that keeps critical production equipment up and running.

### Precision Extrusion Dies

Engineered to extremely high tolerances, our dies are aerodynamically tuned to exert forces that densify dry ice as it is extruded, maximizing energy utilization and extending the useful life of the hydraulics. Dry ice made through precision dies offers the best blast cleaning performance and better transportability, significantly reducing fines and waste.

<table>
<thead>
<tr>
<th></th>
<th>P325</th>
<th>P750</th>
<th>P1500</th>
<th>P3000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>136 kg/hr</td>
<td>273 kg/hr</td>
<td>546 kg/hr</td>
<td>1,091 kg/hr</td>
</tr>
<tr>
<td>or 300 lbs/hr</td>
<td>600 lbs/hr</td>
<td>1,200 lbs/hr</td>
<td>2,400 lbs/hr</td>
<td></td>
</tr>
</tbody>
</table>

### Pellets

Produce 1-3 mm rice-sized pellets, ideal for dry ice blast cleaning applications.

### Nuggets

Produce nuggets as large as 19 mm, perfect for shipping and storage.
**P3000 Pelletizer**

Maximum output for industrial gas companies

**Power, Performance and Reliability**

The fully automated P3000 will produce on demand up to 2,400 lbs (1,090 kg) per hour of high-density dry ice pellets or nuggets in a 44 ft² (4 m²) footprint using a source of Liquid CO₂ and electrical power. This is the most powerful system available today with the lowest cost of ownership in the industry.

**Operational & Maintenance**

- Designed for 24/7 production
- Lowest cost of ownership in the industry
- Fully automatic start-up and shut down

**Comprehensive Package**

- 3mm (1/8 in) precision die, standard
- 3-Phase industrial voltages available for global installs
- 85 Gallons (322 liters) of hydraulic oil, standard
- Vented liquid CO₂ valves & pressure relief devices for safety
- Annual equipment inspection courtesy call

**HMI Touch Screen**

- Standard equipment
- One button start-up & shut down
- Capable of full diagnostics
- Multi-language

<table>
<thead>
<tr>
<th>Dimensions (w/out chutes)</th>
<th>Weight</th>
<th>Liquid to Solid CO₂ Ratio</th>
<th>Pellet Diameter Range</th>
<th>Liquid CO₂ Pressure Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>108 x 72 x 88 in</td>
<td>6825 lbs</td>
<td>2.5:1 w/out recovery, 1.2:1 w/recovery</td>
<td>1/8, 1/4, 3/8, 1/2, 5/8 &amp; 3/4 in 3, 6, 9, 13, 16 &amp; 19 mm</td>
<td>200-300 psig</td>
</tr>
<tr>
<td>274 x 183 x 224 cm</td>
<td>3102 kg</td>
<td></td>
<td></td>
<td>14-22 bar</td>
</tr>
</tbody>
</table>
R3000 Reformer: Dry Ice Pellet-to-Slice
Superior slice production in a minimal footprint

Reforming pellets into slices reduces dry ice consumable cost and is safer for the operator compared to traditional block cutting processes. The pellet-to-slice reforming process eliminates hazards from cutting block and reduces CO₂ sublimation loss by ~80% – producing less CO₂ “smoke.”

Cold Jet’s R3000 Pellet-to-Slice Reformer is fully automated, with flexibility to reform 0.12” to 0.6” (3 mm to 16 mm) dry ice pellets or nuggets into 5” x 8” x 3/4” (125 x 210 x 25 mm) slices. Combine with the P3000 Pelletizer to produce and reform on demand up to 950 slices an hour of high density pellets or nuggets into slices.

Operational & Maintenance

- Best output to footprint ratio
- 24/7 production capable
- Easily integrated with a pelletizer
- Minimal energy consumption

SureFlow System

- Uses pellets or nuggets
- Superior slice quality with <2% breakage
- Weighing within +/- 50g of specification

Quick Change Press Heads

- Change dimension of press in <10 minutes
- Vary slice weights at the touch of a button

HMI Touch Screen

- Full diagnostic capability
- Vary slice thickness (¾” up to 2” or 18 up to 50 mm)
- Tune critical parameters (i.e. pressure & cycle time)
- Remote diagnostics ready (i.e. Siemens S7 PLC with PROFIBUS communication)

**DIMENSIONS** | **WEIGHT** | **POWER** | **HYDRAULICS** | **NOISE**
--- | --- | --- | --- | ---
77” x 48” x 70” (196 x 122 x 178 cm) | 4,500 lbs (2,040 kg) | 380/415 or 460/480 VAC 3-phase 50/60Hz | 15 kW motor pump 26 gallons/min (100 L / min) | Under 80 dBA (at 6.5 feet / 2 meters)

USA: +1 800.337.9423 +1 513.831.3211 • Belgium: +32 (0)13 53 95 47 • Germany: +49 (0)6551 9606.0
Asia +81 3 4360 8347 • Canada: +1 800.337.9423 X501 • Latin America: +52 (81)10 97 0445 • www.coldjet.com
<table>
<thead>
<tr>
<th>System</th>
<th>Max Output</th>
<th>Output Size</th>
<th>Unit Dimensions (L x W x H)</th>
<th>Floor Space Requirements (L x W)</th>
<th>Weight</th>
<th>Oil Capacity</th>
<th>Power Requirement</th>
<th>Liquid CO₂ Pressure</th>
<th>Liquid to Solid CO₂ Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>P3000</td>
<td>up to 2,400 lb/hr (1,090 kg/hr)</td>
<td>1/8, 1/4, 3/8, 1/2, 5/8, 3/4 in (3, 6, 9, 13, 16, 19 mm)</td>
<td>108 x 72 x 88 in (275 x 183 x 224 cm)</td>
<td>180 x 144 in (458 x 366 cm)</td>
<td>6,825 lbs (3,102 kg)</td>
<td>34 gallons (322 Liters)</td>
<td>34 kW</td>
<td>200-320 psi (14-20 bar)</td>
<td>approximately 2.5:1 (without recovery)</td>
</tr>
<tr>
<td>P1500</td>
<td>up to 1,200 lb/hr (546 kg/hr)</td>
<td>1/8, 1/4, 3/8, 1/2, 5/8, 3/4 in (3, 6, 9, 13, 16, 19 mm)</td>
<td>84 x 49 x 84 in (214 x 125 x 214 cm)</td>
<td>156 x 121 in (396 x 308 cm)</td>
<td>3,725 lbs (1,693 kg)</td>
<td>40 gallons (151 Liters)</td>
<td>17 kW</td>
<td>200-320 psi (14-20 bar)</td>
<td>approximately 2.5:1 (without recovery)</td>
</tr>
</tbody>
</table>
| P325/650 | P325: up to 300 lb/hr (136 kg/hr)  
P650: up to 600 lb/hr (273 kg/hr) | 1/8, 1/4, 3/8, 1/2, 5/8 in (3, 6, 9, 13, 16 mm) | 57 x 54 x 64.5 in (145 x 137 x 164 cm) | 129 x 126 in (328 x 320 cm) | 2,700 lbs (1,227 kg) | 40 gallons (151 Liters) | 17 kW | 200-320 psi (14-20 bar) | approximately 2.5:1 (without recovery) |
| P750   | up to 600 lb/hr (273 kg/hr) | 1/8, 1/4, 3/8, 1/2, 5/8 in (3, 6, 9, 13, 16 mm) | 46 x 51 x 52 in (116 x 129 x 132 cm) | 114 x 111 in (290 x 282 cm) | 1,750 lbs (796 kg) | 25 gallons (95 Liters) | 8.5 kW | 200-320 psi (14-20 bar) | approximately 2.5:1 (without recovery) |
| P325   | P325: up to 300 lb/hr (136 kg/hr) | 1/8, 1/4, 3/8, 1/2, 5/8 in (3, 6, 9, 13, 16 mm) | 57 x 54 x 64.5 in (145 x 137 x 164 cm) | 129 x 126 in (328 x 320 cm) | 2,700 lbs (1,227 kg) | 40 gallons (151 Liters) | 17 kW | 200-320 psi (14-20 bar) | approximately 2.5:1 (without recovery) |
| P650   | P650: up to 600 lb/hr (273 kg/hr) | 1/8, 1/4, 3/8, 1/2, 5/8 in (3, 6, 9, 13, 16 mm) | 57 x 54 x 64.5 in (145 x 137 x 164 cm) | 129 x 126 in (328 x 320 cm) | 2,700 lbs (1,227 kg) | 40 gallons (151 Liters) | 17 kW | 200-320 psi (14-20 bar) | approximately 2.5:1 (without recovery) |
## Reformers Portfolio - Pellet-to-Slice

### Pellet & Slice System

**Pellet & Slice System**

<table>
<thead>
<tr>
<th>System</th>
<th>PR750</th>
<th>R1500</th>
<th>R3000</th>
<th>P1500 + R3000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pellet &amp; Nugget Max Output</td>
<td>up to 600 lbs/hr (273 kg/hr)</td>
<td>n/a</td>
<td>Up to 2,400 lbs/hr</td>
<td>n/a</td>
</tr>
<tr>
<td>Slice Output</td>
<td>up to 300 slices/hr</td>
<td>up to 500 slices/hr</td>
<td>up to 1,000 slices/hr</td>
<td></td>
</tr>
<tr>
<td>Slice Dimension (L x W)</td>
<td>5 x 8 in (125 x 210 mm)</td>
<td>6 x 6 in (150 x 150 mm)</td>
<td>--others available upon request--</td>
<td></td>
</tr>
<tr>
<td>Slice Thicknesses</td>
<td>7/10 in (18/19 mm)</td>
<td>3/4 in (25 mm)</td>
<td>1 in (30 mm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 in (30 mm)</td>
<td>2 in (50 mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unit Dimensions (L x W x H)</td>
<td>100 x 54 x 92 in (254 x 137 x 234 cm)</td>
<td>83 x 53 x 76 in (211 x 135 x 193 cm)</td>
<td>83 x 53 x 76 in (211 x 135 x 193 cm)</td>
<td>145 x 48 x 105 in (368 x 122 x 267 cm)</td>
</tr>
<tr>
<td>Floor Space Requirements (L x W)</td>
<td>180 x 134 in (455 x 338 cm)</td>
<td>155 x 125 in (394 x 318 cm)</td>
<td>155 x 125 in (394 x 318 cm)</td>
<td>311 x 125 in (790 x 318 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>5,123 lbs (2,333 kg)</td>
<td>4,000 lbs (1,818 kg)</td>
<td>4,500 lbs (2,045 kg)</td>
<td>~11,350 lbs (150 kg)</td>
</tr>
<tr>
<td>Oil Capacity</td>
<td>60 gallons (227 Liters)</td>
<td>60 gallons (227 Liters)</td>
<td>60 gallons (227 Liters)</td>
<td>100 gallons (416 Liters)</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>17 kW</td>
<td>34 kW</td>
<td>51 kW</td>
<td></td>
</tr>
</tbody>
</table>
Custom Solutions
Customization, Integration or Automation - All according to your needs!

Simple customization to full automation
Cold Jet designs innovative solutions that utilize our proprietary knowledge of dry ice. From spinning blast nozzles that clean ducts, to proprietary radiation decontamination systems, we design and build to your requirements.
Custom Solutions

Our customer-centric solutions are built upon our reliable, innovative proprietary technologies. We have the most advanced dry ice cleaning systems and dry ice manufacturing systems. The result is the capability to make your operation more efficient.

Experience that counts.
From custom nozzles to fully automated robotic cleaning systems, our experienced engineers can solve your toughest cleaning and decontamination challenges. With more worldwide system integration and automation experience than any other dry ice blast cleaning manufacturer, we pride ourselves on ingenuity and innovation. Each solution is custom-engineered from proven, reliable components and sub-systems. Whether the system is needed at your plant or moving from job site to job site, we have a system for you.

Simply provide us with specifications and Cold Jet will design, deliver, and deploy a custom solution to meet your needs – from minor modifications to full customization. We will begin by meeting your team to gather your requirements. Our consultants will assist you in calculating your ROI, determining your budget and creating a system proposal. Next the system is designed and assembled. Finally, we will install the system and make sure your staff is trained to use it effectively.

Customized Accessories.
Our proprietary blast cleaning, coupled with our advanced production technologies and engineering know-how, means Cold Jet is capable of designing innovative accessories that efficiently solve your specific cleaning needs. These systems are fully customizable, reliable, dependable and easy to maintain. From spinning blast nozzles that clean ducts, to proprietary radiation decontamination systems, we design and build quality products to your requirements.

Equipment Modification.
Customized solutions utilizing our standard, off-the-shelf equipment typically require minimal reengineering to achieve your desired result.

System Integration.
We can create automated cleaning stations within a continuous manufacturing process (either existing or new) for applications requiring repetitive dry ice cleaning. Only minimal customizing may be needed to interface a Cold Jet solution into your production environment.

Full Automation.
We can create automated cleaning stations within a continuous manufacturing process (either existing or new) for applications requiring repetitive dry ice cleaning. Only minimal customizing may be needed to interface a Cold Jet solution into your production environment.

Industry leaders look to Cold Jet.
For over 25 years, Cold Jet has provided custom-engineered dry ice cleaning and decontamination systems to world-class companies in the Tire & Rubber, Food Processing, Semiconductor, Aerospace, Defense, Automotive, Printing, Foundry, and Plastics industries.
6-HOSE DIVIDER AND
AUTOMATED DRY ICE CLEANING ROBOT

6-Hose Divider
Clean with the aero 80 HP system – up to 6 different places

• Clean with ONE blasting system at SIX different places at the same time
• Robust and solid construction
• Manual adjustments of the position
• Optional: Monitoring sensor for maximum safety
• Price 6-hose divider approx. €7,000 - €9,500

Automated Dry Ice Cleaning Robot
Cold Jet Aero 80 HP with an integrated 6-axis industrial blasting robot

• Kuka Robot 16-2 with CR2 Controller and “Easy-Teach-Mode” (payload 16 kg)
• Compatible with all Cold Jet Pellet nozzles
• Control and Ice Flow System included
• Automatic robot nozzle change system
Cold Jet Modular Block Dry Ice Dispenser System
- Linear unit with 3D 360° joint head
- Ice/pressure adjustment with touch screen
- Compatible with many tools and construction forms
- Optional: local exhaust ventilation
- Optional: custom production
- Applications: Tool cleaning, deburring, surface preparation for paint
- Automation price: 70.000,00 € – 80.000,00 €

Cold Jet Modular Air Dehumidification
- Rack/housing for the i³ MicroClean
- Power: 270 m³ process air/hour
- Applications: Prevents water/ice at machine components when operating 24/7
- Price: 7.600,00 €

Cold Jet Modular Blasting Cabinet
- Blasting cabinet for the i³ MicroClean
- Safe for static charge (static ground mat)
- Automatic control for light and ventilation
- Turntable for 200 kg
- Spare gloves
- Optional: ventilation with self-cleaning dirt filtration
- Applications: Tool cleaning, deburring, surface preparation for paint
- Cabinet price: 7.800,00 €

Cold Jet Modular Exhaust Ventilation
- Exhaust Ventilation for ice dispenser system or manual blasting unit
- Power: 0,75kw
- Self-cleaning filter with compressed air
- Variable usability
- Applications: Energy efficient ventilation from dirt particles
- Exhaust Ventilation price: 2.200,00 €

Price Integration
- Cold Jet Dispenser, i³ MicroClean and Air dehumidification: 2.500,00 €
- i³ MicroClean, Blasting Cabinet and/or Air dehumidification: 1.100,00 €
- Exworks, incl. packaging
- Extra: Installation assistance
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