



## Cost efficient and environmentally friendly **pre-treatment of the surfaces by dry ice**

### Customer benefits

- Machines and cleans the surface simultaneously
- No need to use harmful or toxic chemicals
- No more blasting waste from sandblasting
- Simultaneous treatment saves money and time

### Competitive advantage

- Using this method a surface roughness can be increased and the adhesion between surface and coating will increase too
- This new method is simple and more cost efficient than using separate processes

### Application and market areas

This dry ice pre-treatment with abrasive particles process is applicable in all coating lines.

### Application and market areas

This new method allows us to make all in one process, machine a surface and cleaning at the same time. This pre treatment method is an emerging method, which has many advantages compared to conventional blasting or wet chemical methods.

This method has been tested on many materials e.g. copper, stainless steel, aluminium, carbon steel, and zinc electroplated steel with great results.

### Intellectual property

Patent pending.

### Additional information

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### Why partner with VTT?

#### 10 reasons for technology partnering with VTT

1. Key factor in Finland's success story with a track record to prove it
2. Licensing and co-venturing opportunities
3. Portfolio of more than 1,000 patents and inventions
4. New business and product concepts based on strong IP and world class research
5. Combined experience of more than 2,000 motivated researchers in eight focused areas of technology
6. Active member in hundreds of scientific & business communities
7. Excellent track record as coordinator and partner in EU projects
8. Collaboration with TOP 50 R&D companies in Finland
9. Global R&D partnership with 50 Fortune 500 companies
10. Market driven multi-disciplinary solutions