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We. Spray. Future.

Cold Spray for Induction Cookware

Experience the Future of Induction Cookware

Cold Spray is a Revolutionary Technology for High-Performance Inductive Coatings on the Bottom of Cookware – A Solid-State Process Without Melting Materials.

Cold Spray for Induction Cookware

Cold Spray technology revolutionizes the way induction-ready cookware is made. By applying ferritic coatings with unmatched precision and reliability, it ensures superior heat transfer and durability. Whether for cost-effective solutions or high-end designs, this process sets a new standard for quality and performance in cookware manufacturing.

Reasons to Rely on Cold Spray Technology

Flexible Customization

Easy to customise for various requirements, including different pot sizes, shapes, layer thicknesses, and induction power, while producing durable and corrosion-resistant results.

Unmatched Coating Performance

Delivers exceptional heat transfer and adhesion strength with oxide-free, dense coatings, ensuring consistent quality and maximizing component performance for longer product life.

Engineered for Industrial Excellence

Meets the highest standards of quality, delivering robust and reliable coatings designed to exceed customer expectations.

Sustainable and Resource-Efficient Production

Combines low energy consumption with over 95% powder efficiency, enabling a green process with minimal waste and optimal resource utilization.

Driving Innovation with Scalable Solutions

Offers complete control over production costs and enables cutting-edge solutions through modular coating and post-processing options, supporting everything from prototypes to 24/7 industrial manufacturing.

Hard Facts

Continuous Control	Real time monitoring of more than 150 process parameters and system datas
Ready for 24/7 Operations	Robust machine designed for non-stop industrial manufacturing
Durable Products	Proven adhesion strength of over 60 MPa ensures exceptional durability

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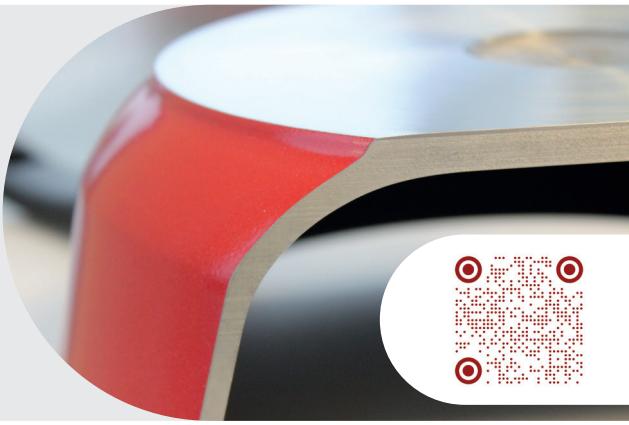
Solution 1: Low-Cost Finish

Optimized Cost Efficiency:
Thinner walls (e.g., 1.8 mm) for significant material savings.
Fast Cycle Time:
Minimum 15 seconds per part for high productivity.
Exceptional Efficiency:
Powder efficiency of >95%, reducing material waste.

Solution 2: High-End Finish

Premium Quality and Design:
Combines superior durability and robustness with a high-end finishing for extended product lifetimes.
High Deposition Efficiency:
Powder efficiency >90% for optimized material use.
Rapid Deposition Rate:
Up to 20 kg/h / 44 lb/h for high-volume production.



Ready to get started?
Contact us!

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Leading Technology & Customized Solutions

Impact Innovations is the **Global Technology Leader** for industrial Cold Spray equipment – Your Solution Partner from **Application Development to Industrialization**.

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Flexible system solutions from R&D to industrial scale manufacturing

- Material flexibility with widest range of metals and alloys
- From thin coatings to additive manufacturing of large components
- From individual repairs to scalable 24/7 mass production
- Modular plug-&-play hardware for tailor-made solutions

Best performing metal coatings and structures

- No phase transformation and oxidation due to a solid-state process
- Outstanding and adjustable material properties
- Unique material combinations to maximize component performance
- Assured and repeatable quality from prototypes to high volumes

Top quality Made in Germany

- Robust cold spray hardware developed for industrial use
- Continuous online process monitoring and quality control
- Maintenance and user-friendly equipment design
- Future-proof system architecture for digital manufacturing

High resource-efficiency for sustainable production

- Fast spray process with up to 99,8% deposition
- Short cycle time due to high spray rates up to 60 kg/h / 132 lb/h
- Low Total Cost of Ownership (TCO)
- Green process with zero emissions

Innovation partner from idea to industrial success

- Application development experts pushing the technological boundaries
- Solution partner for application specific engineering and industrialization
- On-site and online customer support and service
- Groundbreaking results enabled by pioneering hardware