



Coating Removal System

Proven performance

Faster.
Cleaner.
Safer.



Induction heating cuts coating removal times by as much as 90 per cent compared to alternative methods. It is also the safest, healthiest, most environmentally friendly coating removal method available.

How it works

Using induction heating to remove coatings has been an EFD Induction application for many years. Induction exploits the laws of electromagnetism to generate controllable heat. Alternating current flowing through a coil generates a magnetic field. When the magnetic field passes through the coating eddy currents are induced just under the surface of the metal substrate. It is the phenomenon of resistance that generates heat in the area where the eddy currents are flowing. When the steel substrate is heated the coating is dis-bonded and the coating can simply be lifted away from underneath. The process is completely free from contaminants such as abrasives and blast media.

Outperforming traditional methods

Induction heating can outperform traditional paint-stripping methods. Abrasive blasting or disk grinding are generally more labour intensive and come with other issues such as the cost of enclosure or containment and collection of blast media plus the filtration or separation of the coating materials for disposal. In many urban projects these are prime considerations and extremely costly to overcome. In the case where coatings are removed by induction the only waste is the coating itself which in most cases can be swept or even vacuumed like any other workshop waste.

The Coating Removal System efficiently removes industrial coatings of almost any thickness. Contractors and operators report a significant time-saving - up to 90% reduction in time required to remove tough, high-build coatings.

Eco and energy friendly

EFD Induction is committed to providing high performance solutions which minimise the environmental impact of your project. Our Coating Removal System is a prime example as it offers:

- Safer working environment. The controlled, localized heat results in significantly reduced fumes and toxic dust.
- Easy clean-up. The coating material mainly peels off in flakes rather than being pulverized.
- Noiseless operation. Operators can work in public areas without creating a disturbance.
- Reduced energy consumption. Fast, easy, accurate and repeatable heat delivery makes the coating removal process extremely energy-efficient.

Controlled, efficient, rapid heating

EFD Induction applications are all about controlled, efficient, rapid heating. We have developed many ways for applying exactly the right amount of heat to exactly the right place, time and time again. In coating removal we can choose to apply any of a number of methods of applying heat and controlling it. We can choose automatic, semi-automatic, controlled-manual or freehand manual. And we can choose between scanning or spot-heating.

Better by design



The Coating Removal System is a state-of-the-art induction heating tool that rapidly strips paint and tough, high-build coatings.

Easy-to-use

The Coating Removal System arrives at the job site start-up ready. Just plug the unit into the site's AC power supply, connect the cooling hoses and choose which inductor you want to use. Once fitted, the clear, menu-based and multi-language control panel ensures maximum ease-of-use. Portable Coating Removal Systems are compact and lightweight. No need for long cable runs, because the heating generator is close to the working area.

Versatile

The EFD Induction Coating Removal System is the only system that can feature two independent operator units for simultaneous use in different areas. Inductors are available in a wide range of sizes and geometries to optimize coating removal via freehand, semi-automatic and scanning operation. Interchangeability assures on-site versatility for stripping at surfaces, round contours, inside/outside corners, both sides of substrate and round rivets, among other tasks.

Low maintenance

Coating Removal Systems and components are built to sustain rugged worksite conditions and ambient temperature extremes. The solid-state power supply is designed to operate for at least 20 years, running continuously at 100% duty cycle.

Safety

Operator safety and convenience are key HSE advantages. Operator-friendly controls enhance safety. Hand-held heating inductors operate at low voltages and are water-cooled. The induction heating process and the carefully controlled, localized heating, result in limited fume generation. Coating debris is easy to gather and remove.

Custom-built systems

EFD Induction is the only company that custom-builds coating removal systems for unusual or complex projects. Our decades of experience in project-specific induction heating engineering and coating-removal applications assure turnkey delivery of high-performance systems to customers worldwide.



i-Scan system

Close control is desirable for a number of reasons. Due to the nature of many coating removal projects it's common that the coil is moved manually. Therefore we need to take into account the difference in travel speed and potential increases in coating thickness.

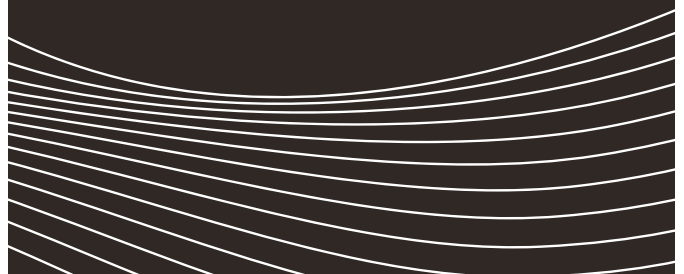
The Coating Removal System is capable of detecting and reacting to certain condition changes. When coupled with the unique i-Scan system it can not only detect speed change but also variations in the coating thickness and adjust the parameters accordingly to cope with those changes immediately. The i-Scan display continually guides the operator using easy-to-understand graphics to maintain efficient removal throughout the process.



Easy-to-understand graphics
Power level and heating cycle duration is automatically adjusted.



i-Scan control
The scanning device responds to variations in traversing speed and the thickness of the coating.



A smarter way to strip coatings



The Coating Removal System effectively removes industrial coatings of almost any thickness.

The Coating Removal System is a game-changer that facilitates removal of coatings from carbon steel, structural steel and other metal substrates.

Appreciated in many industries

- Ships / Marine
- Buildings
- Storage tanks
- Pipelines
- Bridges
- Offshore

A better technology

- Faster, cleaner, safer, quieter operation
- User-friendly controls
- Minimizes fumes & toxic dust
- Eliminates workspace masking and encapsulation
- Much easier clean-up
- Rugged & reliable
- Light weight, easy to move around worksites

Method flexibility

- Spot heating
- Scanning
- Freehand
- Semi-automatic

No limitations

- Flat surfaces
- Round contours
- Inside/outside corners
- Both sides of substrate
- Round rivets
- Etc.

Outperforms traditional methods. No blast media. Safer, healthier working conditions. Easy clean-up of paint and coating debris. Up to 90% time-saving.



Much easier clean-up. The coating material mainly peels off in flakes rather than being pulverized.



The Coating Removal System is compact, light-weight, and easy to move around worksites.

Appreciated in many industries

Typical application sites are offshore rigs, onshore oil and gas facilities, fabrication and repair workshops, processing plants, pipelines, bridges and shipyards.





Demonstrating global experience

EFD Induction has worked closely with customers across the globe to develop the new Coating Removal System. The system has been developed to overcome bottlenecks and eliminate challenges that our customers have experienced during repainting projects and when removing coatings.

You can take confidence from:

- Half a century of experience supplying induction heating solutions and the expertise this brings
- Our extensive range of products and systems which continue to benefit from investment in research and development and testing to ensure we provide the best quality performance possible
- Our network of highly trained people around the world who provides a dedicated service to you and your project ensuring the best results every time

