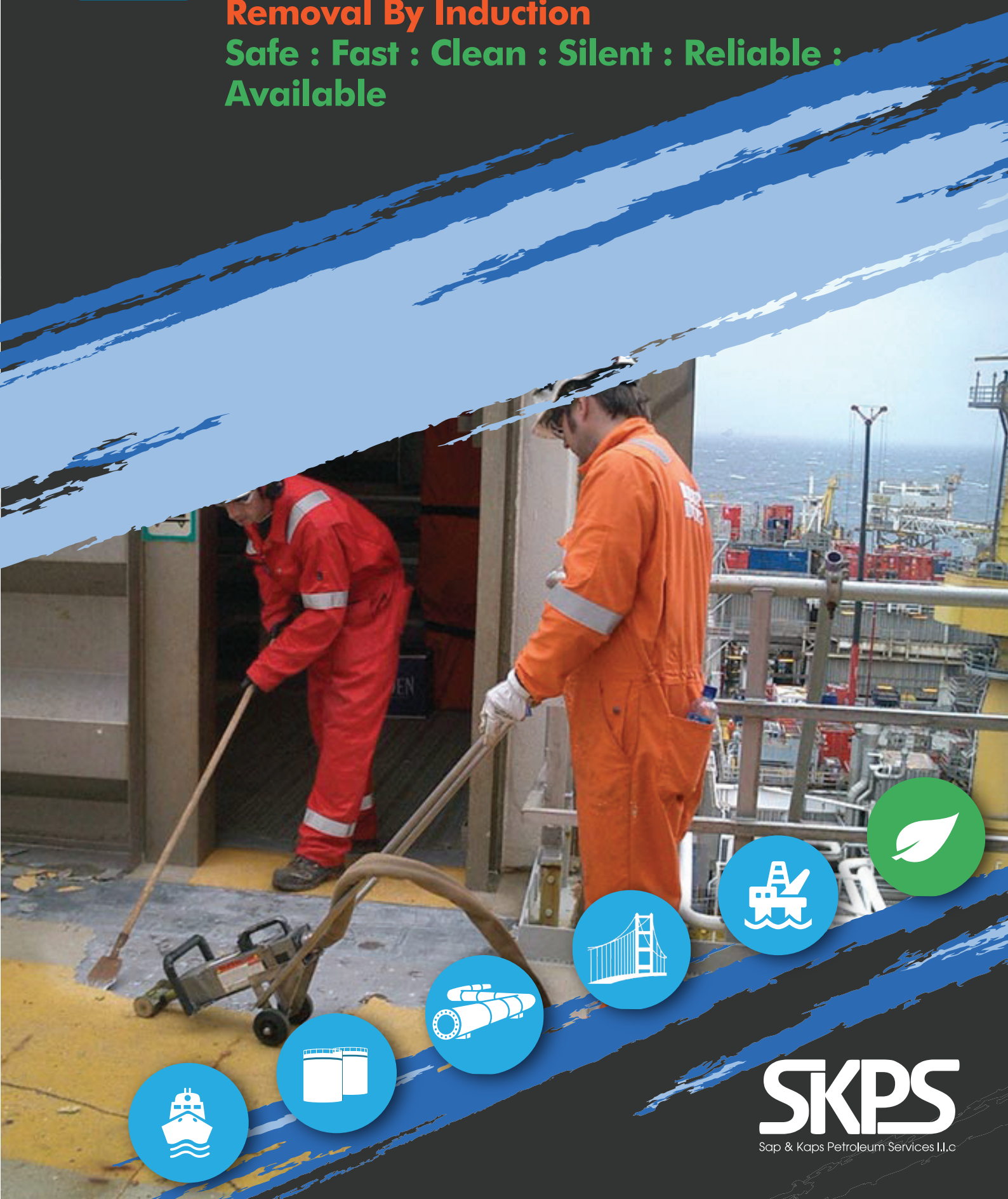




RPR Technologies

**3LPP . 3LPE , Epoxy Coating , Tank Bottom
GRP Removal & All Types of Coating
Removal By Induction**

**Safe : Fast : Clean : Silent : Reliable :
Available**



SKPS
Sap & Kaps Petroleum Services I.I.c



How does it work

INDUCTION STRIPPING HEAD

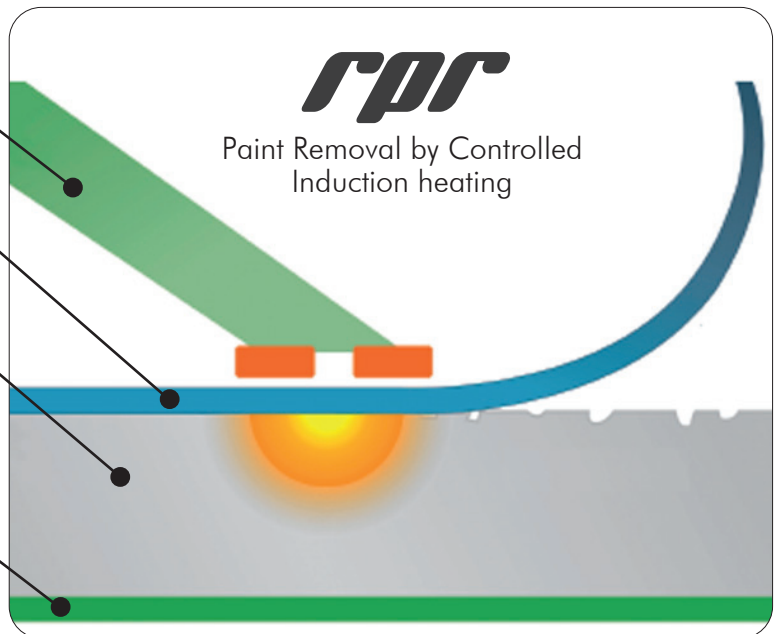
PAINT – RUST – ETC.

STEEL

Induction heats only the steel substrate not the paint

PAINT ON REVERSE SIDE OF TREATED SURFACE

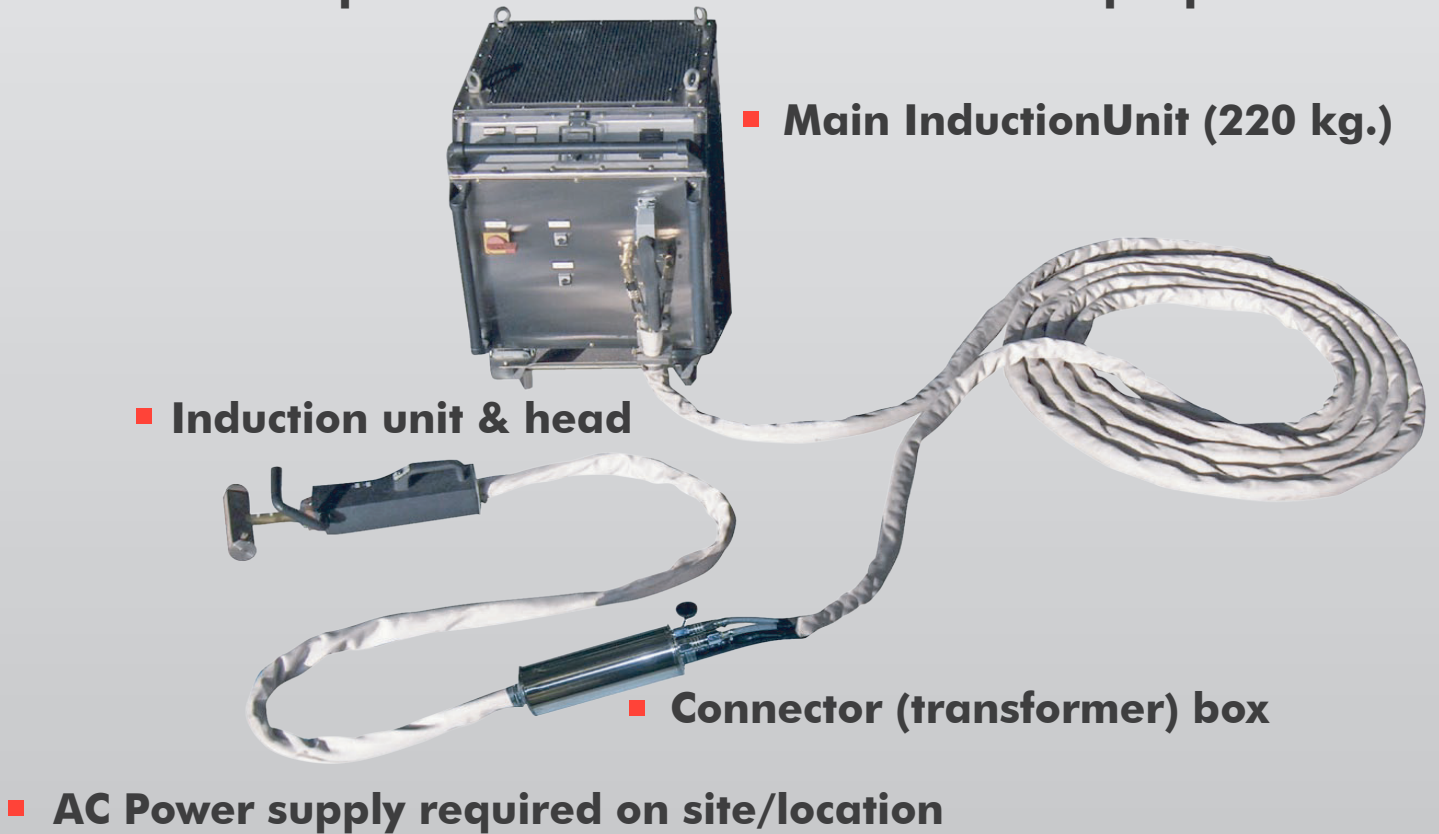
Localized Induction heating means that the coating on reverse side of the steel is not affected



The induction disbonder works by the principle of induction. Heat is generated in the steel substrate and the bonding is broken. The coating is then removed entirely without disintegrating and completely free from contaminating agents, i.e. blast media.

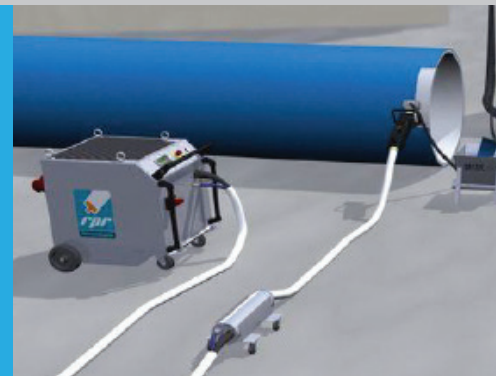
The Ultimate Tool for Coatings Removal

The basic components needed for RPR surface preparation



The RPR Concept

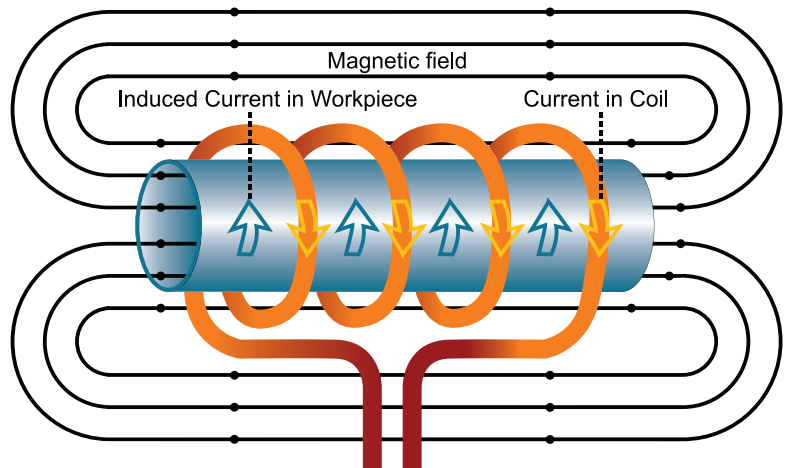
RPR removes coatings, mill scale, rust, bacterial corrosion and oil & grease residues from electrically conductive surfaces (steel, etc.) by breaking the interfacial bonding between the material to be removed and the substrate using controlled, localized induction heating with a minimum consumption of energy.



The Principle of Induction Heating

The RPR induction generator sends alternating current through an induction coil, which generates an electromagnetic field. This magnetic field induces eddy currents in a conductive material like steel. Due to the resistance of the steel, these currents are converted to heat = induction heating.

The heat is generated below the coating, resulting in quick and clean disbonding.





OIL & GAS

Due to the fast removal process; a significant reduction in down-time can be achieved.

PIPELINE

Induction stripping can be used to quickly remove coatings such as fiberglass liners, coal tar epoxy.



BRIDGE

Refurbishment of bridges with safe, clean and fast coating removal.

STORAGE TANK

Tank maintenance job, fast removal of the 600 microns Duatank coating, leaving a near to clean surface.



BUILDING

The cleanest and fastest way to remove paint from steel surfaces.



MARINE

Aircraft carriers deck coating removal.



Various Equipment and Accessories



RPR Induction Generator

The physical size of the machine is quite small (800 x 600 x 800 mm) and the weight is approximately 220 kg (460 lbs).

The machine is robustly built for site work:

- aboard ships or on offshore rigs,
- inside tanks or on floating roofs,
- on or under bridges, etc.

The unit can be wheeled around but it can also be handled by forklift or crane.



Standard RPR Inductor Body

The standard hand-held inductor unit and a flat 20 cm wide coil head is supplied with all systems. Multiple coil heads can be ordered and an optional extension shaft will allow the operator to stand upright while rolling the coil head over horizontal surfaces.



Many Different Inductor Coil Heads available

RPR can provide an almost limitless range of special designs for the treatment of various diameter pipes, flanges, beams, corners, nuts and bolts, rivets etc. Changing the inductor heads takes only minutes.

Technical Data

Power Supply	50 kW, 3-phase 360-480 V, 50/60 Hz (other voltages optionally available)
Fusing	Power source must be 3-phase 125 A fused
Energy Efficiency	Approximately 90%
Protection Class	IP 69 (Ex-version optionally available)
Cooling System	Water cooling (closed-loop cooling optionally available) min. 12 l/min clean freshwater (3 US gall) at min. 4 bar pressure.
Weight	220 kg (460 lbs)
L x W x H	800 x 600 x 800 mm (32 x 24 x 32 in.)

Advantages of using "The RPR"

- ▶ RPR removes coatings and rust 5-20x faster than conventional methods.
- ▶ Production with 1 RPR unit approx. 20 to 200 m2 per hour, depending on conditions.
- ▶ Practically noiseless - no nuisance to the surroundings.
- ▶ No abrasive media - or significant reduction in case of sweep blast after-treatment.
- ▶ Very little waste and disposal: only the removed paint and rust - minimal costs - environmentally friendly.
- ▶ No dust emission - no costly and time-consuming containment of structures - with dry sweep blast after-treatment some dust emission will occur.
- ▶ Safe for operator and surroundings - no known health or safety hazards.
- ▶ CE-making and Manufacturer's CE Declaration of Conformity.

The RPR system is ideal for the removing paint, rust, and other coatings (vulcanized rubber, fire protectant, epoxies, etc.) with control possibilities for the following functions:

- ▶ Frequency of the electromagnetic field
- ▶ Energy consumption
- ▶ Disbonding temperature range
- ▶ Heat penetration
- ▶ Removal speed

1

Cost Efficient

With a minimum of power consumption even the thickest and hardest coatings must surrender.

Plug & Play. Compact unit that is easy to bring and install -anywhere.

Minimum wear & tear.

2

Environmentally Friendly

The Induction Disbender removes asbestos, lead and toxic coatings without compromising the health of the operators nor the environment.

Minimum waste management.

An excellent safety record.

3

Health, Security & Environment

Contractors and facility owners will appreciate the opportunity to work within : on bridges in city centers and river crossings, in areas of power plants, control rooms and confined spaces, on offshore installations, cut expensive sand/grit and fresh water logistics, on pipelines that cross protected and sensitive nature.



For more information, please contact us:

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