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PROTEC WLS – WIRE LUBRICATION SYSTEM

STABLE ARC THROUGH CONSISTENT WELDING-WIRE QUALITY

PROTEC developed a system for fine-cleaning and coating of welding wire: PROTEC WLS. WLS stands for Wire Lubrication System. This System removes drawing oil residues and coats the wire with a fine layer. "PROTEC WLS leads to perfect wire-surface quality and results in optimum welding performance.", describes Paul Hoffmann, general manager of PROTEC.

The needs of feeding behaviour, ignition behaviour and consistent performance for welding wire did increase dramatically with growing automation of the welding processes and higher productivity goals. PROTEC developed a system with outstanding features, in cooperation with wire manufacturers and end users. Core of this solution are special fluids ("WIRE-BALM"), which are applied at the wire factory in best case, but can also be used by end-users, directly at the welding station.

Benefits in the welding process:

- Stable arc, excellent ignition
- Optimum feeding, high process stability
- Reduced spatter
- Reduced hydrogen entry
- Higher lifetime of wear parts (liner, tip)

For end users PROTEC offers the fluid Wire-Balm PROTEC WLS04. This fluid can simply be applied by felt pads and clips. Therefore a so-called "tandem method" is used: A pad soaked with WIRE-BALM is followed by a dry pad to wipe off overdose and dirt.

At wire factory the application can be automated easily by using the Tribo-Cleaning-Station PROTEC TCS-2U. The application at factory level leads to the additional benefit of protection for the wire surface (corrosion protection).

PROTEC offers two fluid product lines for wire manufacturers:

- Dry-Balm PROTEC WLS03: Dry, waxy coating; with special corrosion protection
- Wire-Balm PROTEC WLS04: Oily coating; with additional cleaning effect



Abb. 1: Tribo-Cleaning-Station PROTEC TCS-2U

Reputable companies are using PROTEC WLS for many years with great results. For instance, at German automotive OEM factories the uptime of welding robots was increased significantly by the use of PROTEC WLS. Other examples of use are: Crane manufacturer using high-strength steel, exhaust system plants using heat resisting steel, or companies running orbital welding processes for building pipelines or wind power plants.

About PROTEC:

PROTEC is an Austrian company based in Salzburg, which is specialised on optimising welding processes through bio-chemical additives. The product range contains two fields: Anti-spatter surface protection and wire fine-cleaning and coating. Due to product development in partnership with users, the PROTEC solutions are focussed on concrete benefits and proven in use from the beginning. PROTEC is in the market for more than 15 years and selling the solutions to more than 40 countries worldwide.

For further information and product samples please visit: www.protec-austria.com

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