



**WORLD SURFACE TECHNOLOGIES**

*From Surface Preparation to Thermal Spray Coating Solutions*



# TWIN WIRE ARC SPRAY SYSTEM

Model : 8830/300-AR, 8830/400-AR & 8830/600-AR

## SYSTEM FEATURES :

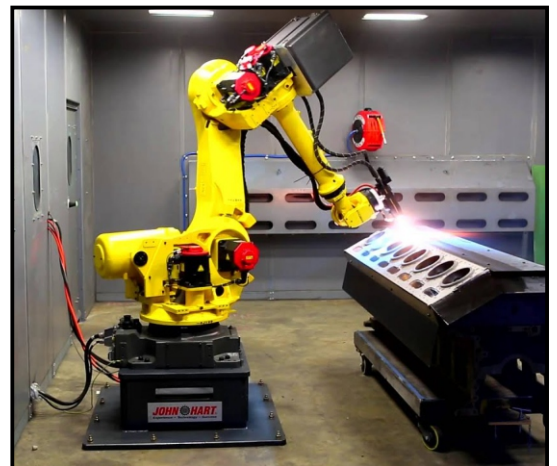
- ❖ New technology for the power supply in combination with the highly accurate wire feed and the modified air cap geometry
- ❖ Allows controlled and uniform energy transfer onto the wire material.
- ❖ This enables the energy transfer to be adapted to the needs of the applications.
- ❖ WST Arc Spray Systems are designed to process all conductive wires, cored wires & flexible cords.



## WST ARC SYSTEM

CONSISTS OF FOLLOWING ITEMS :

- ❖ WST TWIN WIRE ARC SPRAY GUN; MODEL : 8830-AR
- ❖ **POWER SUPPLY WITH IN-BUILT CONTROL PANEL;**  
MODEL : P300-AR  
MODEL : P400-AR  
MODEL : P600-AR
- ❖ PORTABLE WIRE SPOOL STAND or PORTABLE TROLLEY WITH SPOOL STAND
- ❖ GUN MOUNTING STAND
- ❖ HOSES & CABLES SET (Length : 5 mtr)

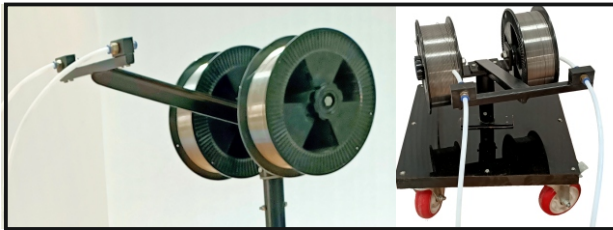


## ARC SPRAY GUN; Model : 8830-AR

- ❖ The ARC Gun; 8830-AR is light and easy to use. It has simple adjustments and requires minimal maintenance.
- ❖ Closed Nozzle System to ensure high bond and fine spray.
- ❖ Pull Wire Feed System by Air Motor (*1000 RPM for high melting wires and 2500 RPM for low melting wires*)
- ❖ Air arc-head to keep air cap, nozzle positioner, and spray head cool, thus preventing overheating at high amperes.
- ❖ The defined particle size and small spray diameter increase both the quality and efficiency of the metal deposition.
- ❖ Weighing only 3.2 Kg. Gun can be hand held or installed in a wide variety of automated equipment.



## WIRE SPOOL STAND & TROLLEY



- ❖ Portable wire spool stand (holding spool as well as gun).
- ❖ Trolley can be moved near to job with operator, away from Power supply
- ❖ Swivel type stand takes the direction of wire feed towards operator's side.
- ❖ Alternative or additional wire dispensing system for 125 Kg. / 250 Kg wire drums are available.

## HOSES & CABLES SET



- ❖ The hose package consists of two current cables, an air hose & two insulated wire guide tubes.
- ❖ Cable & hose set has a standard length of 5 mtrs. (other lengths as optional)
- ❖ The insulated wire guide tubes have a standard length of 2.5 meters and are made from a special low resistance material.



## POWER SUPPLY WITH USER FRIENDLY CONTROL PANEL

WST Power Supply is designed to meet the requirement of electric arc technology of DC voltage with integrated control and ergonomic as well as user friendly control panel. The start & stop of the arc is achieved by pressing lever of air motor thus offers dead-man handle for safe working operation stopping the gun, if dropped down.

It is a diode based design to operate in harsh environment and meets the requirement of spraying all kinds of metallic, alloyed and cored wires. This control circuit has a response time adjusted to the arc spraying process to ensure a stable arc between the melting wire contact point. The Power Supply is especially developed for arc spraying with integrated control and ergonomic operator console.

The WST UNIT is equipped with an electronic control circuit adapted to arc spraying of various materials. This control circuit has a response time adjusted to the arc spraying process to ensure a stable arc between the melting electrodes

The effects on the process are tremendous. The control reduces the voltage variations and allows a uniform coating process at a lower voltage.

**High Velocity mode is available with all models which means better deposit efficiency & fine and focused spray, results better coating properties**

**The electronic power supply allows working at maximum capacity at a duty cycle of 100%.**



## ARC SPRAY WIRES



We recognize that high quality spray equipment without compatible, first-rate coating material can lead to less than desirable coatings. For arc spray, only wires designed and produced for thermal spraying ensure trouble free application and superior, consistent coatings.

With over 100 standard solid & cored wires include Anti-corrosion wires (Aluminium, Zinc, Zinc Alloy, Bond Coat wires (Ni-Cr, Ni-Al, Moly, Top Coat Wire (Stainless Steel, Monel, Copper and **SPECIAL RANGE OF HARD COATING WIRES (TUNGSTEN BASED & CHROME BASED)**) & many more wires are available.

WST always assist in the selection of the correct material for all applications so customer can get best technical support and can supply to suit all thermal spraying needs.

## EXTENSION FOR INSIDE SPRAY



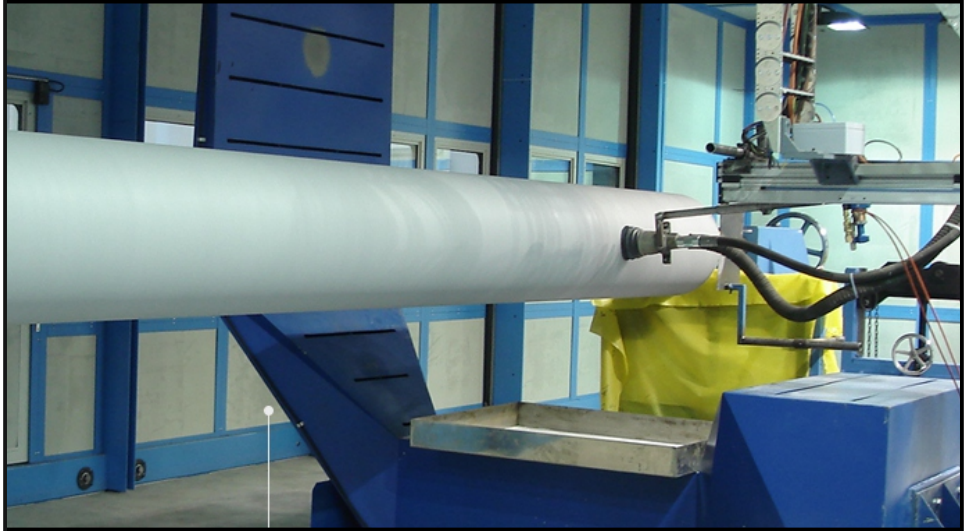
For years, the arc spray process has been limited in its ability to reach internal diameters. The development of ID arc spray extension has been a major leap in improving process technology.

- ❖ Enables spraying in bore or difficult-to-reach area. Deflector Nozzle : 90 deg./Straight Nozzle : 0 deg.
- ❖ Available in length of : 1 ft / 2 ft / 3 ft.
- ❖ Allows coating in internal dia of 70 mm & above.
- ❖ Highly engineered nozzles, tips and positioners have been designed for applications that demand maximum durability.

## COATING APPLICATIONS

WST has worked closely with industries to develop arc spray solutions for some of the most demanding coating applications. While most arc spray coatings still utilize metallic alloy composition, the advent and growth of engineered composite cored wires broadens the use of arc spray technology. For coatings ranging from simple dimensional restoration to complex surface treatment requirements, arc spray provides competitive high quality solutions.





WST OFFERS COMPLETE RANGE OF STANDARD & SPECIAL PURPOSE ABRASIVE BLASTING MACHINE / SHOT PEENING MACHINE / BLAST ROOM, PAINT SPRAY ROOM, EXHAUST SYSTEM.



**OPERATOR SAFETY WEARS**  
To built personal protection for Arc Spray



ISO 9001:2015



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