

ARCote™

Electric Wire Arc Spray System

GENERAL INFORMATION

Hardface Alloys ARCote™ is a high-performance, cost-effective Electric Wire Arc Spray system designed to provide superior coating quality with ease-of-use and low maintenance.

The system comes complete with the control console, power supply and gun with the added flexibility to be used as either a hand-held or machine-mount system. The power supply houses a removable, covered, wire dispenser system which can be used in a remote mode.

The ARCote™ has been designed to perform consistently with minimal operator adjustment. The feed wires are exactly positioned to follow the optimum line to the gun to optimize particle atomization and spray pattern distribution, ensuring the best quality coating.

In the ARCote™ process, the two metallizing wires feed simultaneously at a uniform rate of speed, through the spray gun, the raw material is melted by an electric arc. This molten material is atomized by a column of compressed air and propelled directly onto the desired surface. The molten spray solidifies on the component surface to form a dense, strong adherent coating suitable for corrosion protection, wear resistance, electrical and thermal conductivity, component reclamation, or free-standing shapes.

The ARCote™ system is your perfect choice for all your Electric Wire Arc spraying applications.



Model 9528
(mounted on a robotic arm)



FEATURES

- Compact Portable Power Supply (optional)
- Electric or Pneumatic ("Posi-Feed") Drive System
- Electric Air Driven Option
- Illuminated switches/color-coded
- Mechanical Mount (Model 9528)
- Polymer-Lined Steel Reinforced Wire Conduits
- Portable Wire Dispensing
- Safety Interlocks
- Skid Mounted Feeder Option
- Trigger Operation (Model 9140)
- Two Gear Drives (Model 9140)

BENEFITS

- Choice Of Coating Textures
- Extended Spray Distances (100')
- High Throughput (88 lbs/M s.s.) (Model 9528)
- Integrated, Robust Construction
- Lightweight (5 lbs) (Model 9140)
- Low Maintenance
- Low Operating Costs
- No Expensive Gases
- Portable
- Precision Wire Feed
- Simple To Operate

APPLICATIONS

- Automotive
- Aerospace Components
- Aluminum Extrusion Mills
- Anti-Corrosion
- Decorative
- Hydroelectric Turbine Parts
- Industrial Rollers
printing
textiles
paper/pulp making
steel making
embossing
- Semi-Conductor
- Tube Mill
- Turbines
- Weld Seams

SPECIFICATIONS

(multiple power supplies available with voltage range 220/380/460/508; amp range 250-1000)

Power Supply - Model TW250:

Power Req. - 380/440V 50/60Hz 3 Phase
Power Option - 220/380/440V 3 Phase
Fusing Req. - 20A/Phase (415V input)
Max. Power Consumption - 11.8 KWH
Air Req. - 45 CFM @ 80 PSI
L x W x H - 34" x 21 1/2" x 33"
Weight - 463 lbs.

Control Console:

Air Pressure Req. - 45- 55 cfm @ 85 PSI
L x W x H - 19 1/2" x 14" x 8 1/4"
Weight - 25 lbs.

Model 9528 Gun:

L x W x H - 22 1/2" x 4 1/2" x 5 3/4"
Weight - 16 lbs.
Wire Size - 1/16" (14 gauge) - 3/16"

Model 9140 Gun:

L x W x H - 18" x 4" x 9"
Weight - 5 lbs.
Wire Size - 1/16" (14 gauge)

Portable Wire Dispenser:

L x W x H - 20" x 20" x 12"
Weight - 33 lbs
Wire Size - 12" or 8 1/4" spools

Portable Wire Dispenser Cart:

L x W x H - 38" x 20" x 23"
Weight - 25 lbs.
Wire Size - 12" spools

COMPONENTS

Power Supply (Not Shown: Models TW200, TW300, TW450, TW1000):

Model TW250 is a integrated designed power supply which allows for superior spraying flexibility. This unit houses the electric and pneumatic ("Posi-Feed") control and monitoring functions and carries a removable, covered wire dispenser. The advanced controls deliver outstanding spray process reliability and easy monitoring. The unit sits on four caster wheels to ease handling and improve mobility.

Control Console:

Model 9528C device is used in conjunction with the Arcote™ 9528 gun system only. It is designed to give supreme accuracy of wire feed rates. It is particularly useful when any metal or metal alloy spraying operation is to be incorporated into an automatic or robotic spraying system. The control panel gives a direct readout of wire feed rates and includes a self-diagnostic function to aid fault finding.

Portable Wire Dispenser:

Model 9528W wire dispenser is to be used with the 9528 Arcote™ system only. This dispenser can easily be integrated with the power supply or can be used as a separate unit. The wire retention system enables quick change of the spraying wires while the fully adjustable braking system prevents wire over-run. A carrying handle is provided, which permits the unit to be easily moved.

Portable Wire Dispenser Cart:

Model 9140W wire dispenser cart is to be used with the 9140 Arcote™ hand-held system only. The portability of this carts makes it easier than every to carry out onsite jobs with no loss of spray quality.

ARCote™ Guns (Two Models):

Model 9528 machine-mount gun, is a heavy duty, high performance gun for toolpost or robotic mounting. The electric drive, electronic control system, and the CG (constant geometry) Spray Head combine to give a wide range of deposition rates to match job size and consistent geometry.

Model 9140 hand-held gun is a small, lightweight gun designed to reduce operator fatigue and produce consistent high quality coatings. Utilizing two gear drives linked by a patented "Pos-Feed" system allows consistent, reliable and troublefree operation. The drive system can be provided as either electric or pneumatic ("Posi-Feed") motor drive.

OPTIONAL ACCESSORIES

Travel Case:

Part 91250 is a heavy-duty, fully-cushioned portable traveling case. Designed for easy maneuverability to fit your complete Arcote™ system. Such portability makes it easy to carry out on site jobs with no loss of spray quality.

ID Gun Extensions:

For spraying internal bores or other areas where access is difficult, straight or angular internal diameter extensions are available up to 5' in length.

