

# THERMAL SPRAY FACILIT





## MODEL: ARCJET®-99/200 - ARCJET®-99/400 - ARCJET®-99/600 **CE Approved**

TWIN WIRE ARC SPRAY SYSTEMS



## 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 3 adapted to the needs of the applications.

New technology for the power supply in

- MEC Arc Spray Systems are designed to 4 process all conductive wires, cored wires & flexible cords.



## Arc Head (Patent pending)

2 Power Source with in-built Control Panel; Model: P-200, P-400 & P-600

3 Portable Wire Feed & Gun Stand; Model: SWF-011

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**POWER SOURCE** 

Model: P-400

(Design Registration applied)

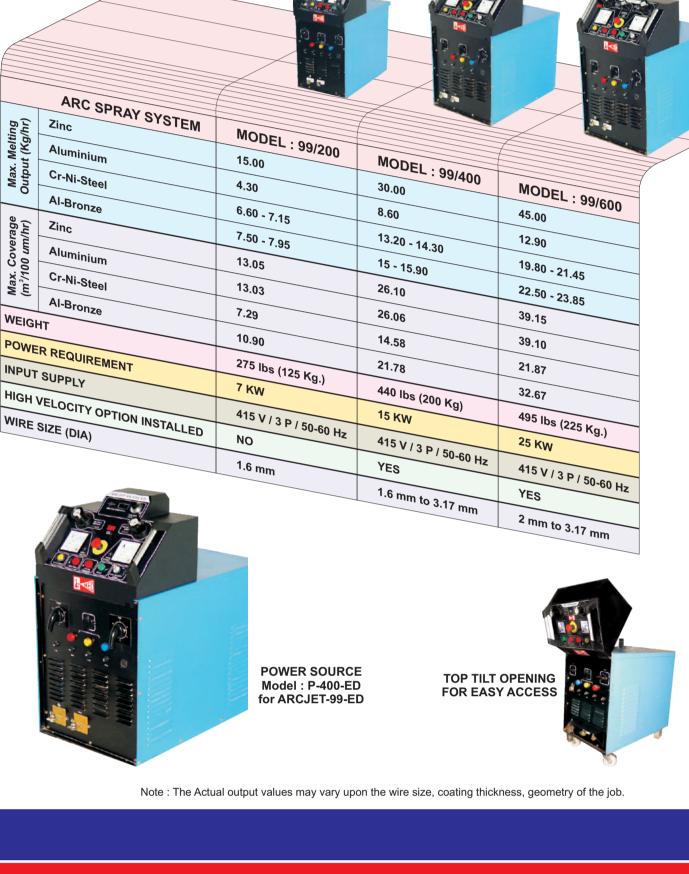
- Interconnecting Hoses & Cables standard length 5 meters (extra length optional) (not shown in figure)

Safety Equipments (not shown in figure)

**POWDER SOURCE** 

Model: P-600

CHOOSE YOUR CAPACITY



**POWER SOURCE** 

Model: P-200

The ARCJET-99 Gun is light and easy to use. It has simple adjustments and requires minimal maintenance.

### positioner, and spray head cool, thus preventing overheating at high amperes. The defined particle size and small spray diameter increase both

wires and 2500 RPM for low melting wires)

fine spray.

ARCJET-99 GUN

the quality and efficiency of the metal deposition. Weighing only 3.5 Kg. Gun can be hand held or installed in a wide variety of automated equipment.

Closed Nozzle System to ensure high bond and

Pull Wire Feed System by Air Motor (1000 RPM for high melting

Forced air-cooled arc-head (patent applied) to keep air cap, nozzle

ARCJET-99-ED GUN

Compressed air requirement: 35 CFM FAD at 60-80 psig (5 bar).

- precision wire feed speed. Capable to spray all wires. \* Weight: 5 Kg. (without hoses & Cables). \*
- PORTABLE WIRE FEED & GUN STAND Portable & Two-in-one (holding spools

are available.

ED Power Source is required.

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as well as gun). Can be moved near to job, away from power source.

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

WHAT IS HIGH VELOCITY SYSTEM & WHY?

STANDARD SPRAY PATTERN

HIGH VELOCITY PATTERN

the coating quality of higher-end processes like plasma spray. The High

Velocity attachment increases particle velocities and concentrates the

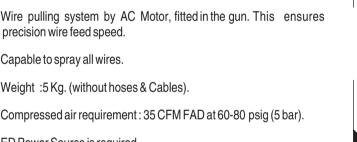
spray pattern to produce dramatically improved coating quality. Coatings are similar to plasma-sprayed coatings; however, with the High

Velocity Option, these plasma-like coatings can be produced in much

less time and at a fraction of the cost. Other advantages that the High

Velocity attachment has over conventional arc spray are:

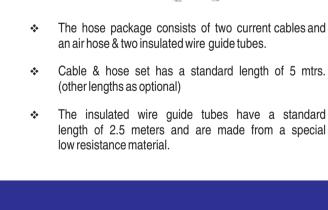
Higher particle velocities & deposition efficiency



The High Velocity option is a revolutionary

technology that has allowed the arc spray

process to rival



**HOSES & CABLES** 

- **EXTENSIONS FOR INTERNAL COATINGS**

For years, the arc spray process has been limited in its ability to reach

internal diameters. The development of ID arc spray extension has

Enables spraying in bore or difficult-to-reach-at place.

315 mm (1 ft) / 630 mm (2 ft) / 945 mm (3 ft)

Allows coating in internal diameter of 70 mm & above.

been a major leap in improving process technology.

Highly engineered nozzles, tips and positioners have been designed for applications that demand maximum durability. **SOLID & CORED ARC SPRAY WIRES** 

consumables.

Deflector Nozzle: 90 deg.

Straight Nozzle: 0 deg.

Available in length of:

- We recognize that high quality spray equipment without compatible,
- ensure trouble free application and superior, consistent coatings. With over 100 standard materials include Aluminium, Aluminium Alloy, Tin, Tin Alloy, Nickel, Nickel Alloy, Zinc, Stainless Steel, Brass, Monel,

Copper & many more wires are available. MEC also able to fulfill the

requirement of Cored Wires, the latest development in coating

MEC can assist in the selection of the correct material for all

applications and can supply to suit all thermal spraying needs.

first-rate coating material can lead to less than desirable coatings. For

arc spray, only wires designed and produced for thermal spraying

### Denser coating & superior bond strength. \* Focused, narrow spray pattern \* Smoother as sprayed coating \* High Velocity option is installed in Model: P-400 & P-600 \*

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- ABRASIVE BLASTING MACHINES
- surface by Abrasive Blasting Machines. MEC provide complete range of Abrasive Blasting Machines / Blast Rooms for surface preparation required prior to

Due to the nature of the

metal spraying process, it is

necessary to prepare the job



# Coating

competitive high quality solutions.

Consistency MEC has worked closely with industries to develop arc spray solutions for some of the

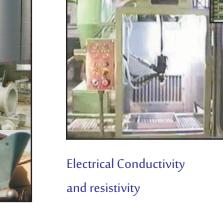
most demanding coating applications. While most arc spray coatings still utilize metallic alloy composition, the advent and growth of engineered composite cored wires

broadens the use of arc spray technology. For coatings ranging from simple dimensional restoration to complex surface treatment requirements, arc spray provides



## **Corrosion Protection**

Arc sprayed coatings are used widely to fight both high and low temperature corrosion. these coatings have proven their excellence in challenging environments such as boilers, by providing oxidation and heat resistance. Arc sprayed coatings also provide excellent resistance to atmospheric corrosion and are used on bridges and other infrastructural components.



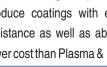
Arc sprayed aluminium, tin, zinc and other metals are used in applications requiring good electrical conductivity. For example, & zinc on capacitors.

Aluminium coating on metal oxide varistors Arc sprayed coatings are used for both electrical conductivity and resistivity. In the electronics industry, coatings such as tin









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