

MSC



MSC Corp.

THERMAL SPRAY FACILITIES

AUTOMATIC SYSTEMS for HVOF, PLASMA, FLAME SPRAY, ARC SPRAY & ROD SPRAY



**DEDICATED
TO THERMAL SPRAY
COATINGS TECHNOLOGY**

- * ARC SPRAY SYSTEMS
- * HVOF SYSTEMS (WIRE & POWDER)
- * AUXILIARY EQUIPMENTS

- * FLAME SPRAY SYSTEMS (WIRE & POWDER)
- * CERAMIC ROD SPRAY SYSTEM
- * CONSUMABLES

ARCJET - 95/400 TWIN WIRE ARC SPRAY SYSTEM



The MEC Arc Spray System is the heavy duty state of the art Twin Wire Arc Spray System for industrial applications. It can spray all types of wires

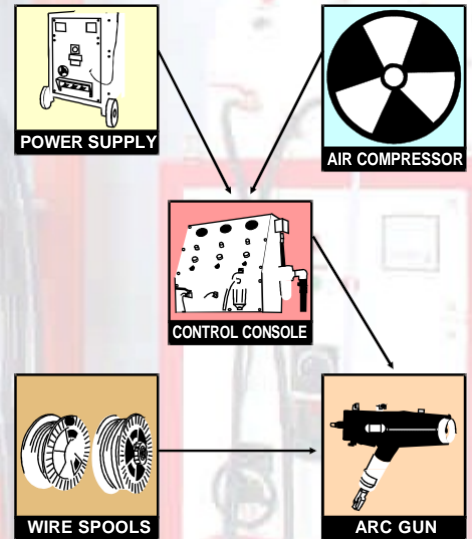


SPRAY RATE

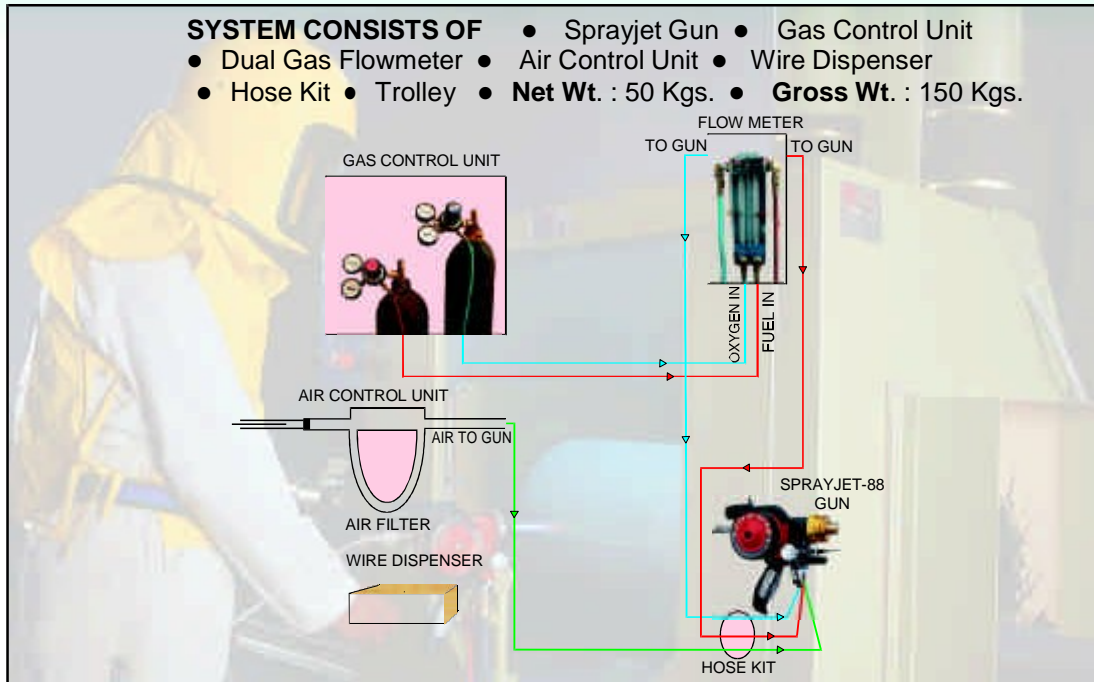
Material	Spray rate at 400 A (75% duty/cycle) Kg/hr.	Coverage with 100 microns thickness kg/m	M/Hr
Zinc & Alloys*	30.0	1.22	24.6
Tin Zinc*	50.0	1.20	41.5
Aluminum*	08.1	0.31	26.1
Ai Bronze	12.3	1.10	11.6
Copper	15.0	1.10	13.6
Carbon Steel	12.5	0.90	13.8
Stainless Steel	13.5	0.98	13.8

Wire size is 1.6 mm unless mentioned otherwise.

*ABOVE FIGURES ARE FOR GUIDANCE ONLY



WIRE FLAME SPRAY SYSTEM




WIRE FLAME SPRAY RANGE

SPRAYJET-88: General purpose wire metallizing gun
SPRAYJET-98: Push button wire start / stop.

SPRAYJET-87: High spray rate gun for Zinc & Aluminum
SPRAYJET-88-EL: Motorized Wire speed mechanism

SPECIFICATIONS

	Wire Drive	Air Turbine	Air Consumption	0.8 Cu. Mtr./Min.
	Wire Size	3.17mm Std. 1.6mm & 4.75mm		at 4.5 Kg/Cm2
	Approx. Spray Rates Using 3.17 mm wire	Steel (Kg/hr) -- Zinc (Kg/hr) 05 14	Net Weight (Gun only)	2.65 kgs.

RODOJET-9800 ROD SPRAY SYSTEM



SALIENT FEATURES

- Uses Oxygen & Acetylene for combustion.
- No cooling water requirement.
- Consistent Rod feed is achieved by electric motor fitted on the gun.
- Rods of diameter 3.17 mm to 6.35mm can be used.
- Start/Stop button at the handle of the gun for instant start/stop.
- Ceramic rods of chromium oxide, Alumina-Titanium, Alumina, Yttrium



HIJET® - 9600 SYSTEM

HIGH VELOCITY COMBUSTION WIRE SPRAY SYSTEM



SYSTEM CONSISTS OF ● HIJET-9600 Oxygen-Propane/LPG Flame Gun with ● Motorised wire Feed System. ● Air Control Unit ● Gas Control Unit ● Control Panel (MP-2100) ● Interconnecting Cables and High Pressure



COATING CHARACTERISTICS

HARDNESS (ASTM-E384-89)	MOLYBDENUM STAINLESS AISI 420	- UPTO 1000 VHN - 500 VHN
DEPOSIT EFFICIENCY	MOLYBDENUM STAINLESS AISI 420	- 70% - ABOVE 80%
BOND STRENGTH (ASTM-C633-79)	MOLYBDENUM STAINLESS AISI 420	- 30MPa 25 Mpa
POROSITY	2 - 5 %	
THICKNESS	0.025 MM TO > 3MM (Depending upon Material sprayed)	
SURFACE ROUGHNESS AS SPRAYED		- 2.0 - 4.0 Microns Ra
	GROUND	- < 1.0 Microns Ra

ABOVE FIGURES ARE FOR GUIDANCE ONLY



POWDERJET-86-II POWDER SPRAY SYSTEM

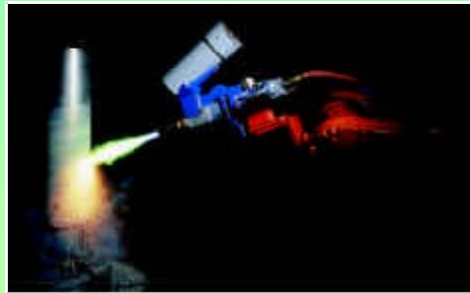
SYSTEM CONSISTS OF ● Powderjet-86-II Spray Gun ● Powder Feeder PF-700 ● Gas Control Unit, comprising of Regulators & Flowmeter ● Air Control



POWDERJET-85-II POWDER FLAME SPRAY SYSTEM

POWDERJET-85-II

Powderjet-85-II is a simple to use low cost powder flame spray system. It has an in built powder hopper to feed powder to the flame. It is suitable for coating spray & fuse type materials, metals,



SPRAY TORCH -100 : FOR SPRAY & FUSE COATING

Spray Torch-100 is ideally suited for Spray & Fuse Coatings. Rugged & Light weight, it has various



MEC TILTING TURNTABLE

SPECIFICATIONS

Base Plate Diameter: 600 mm
Max rpm: 300
Tilting Angle: 0 to 100 Deg.
Load Capacity: 250 Kgs.

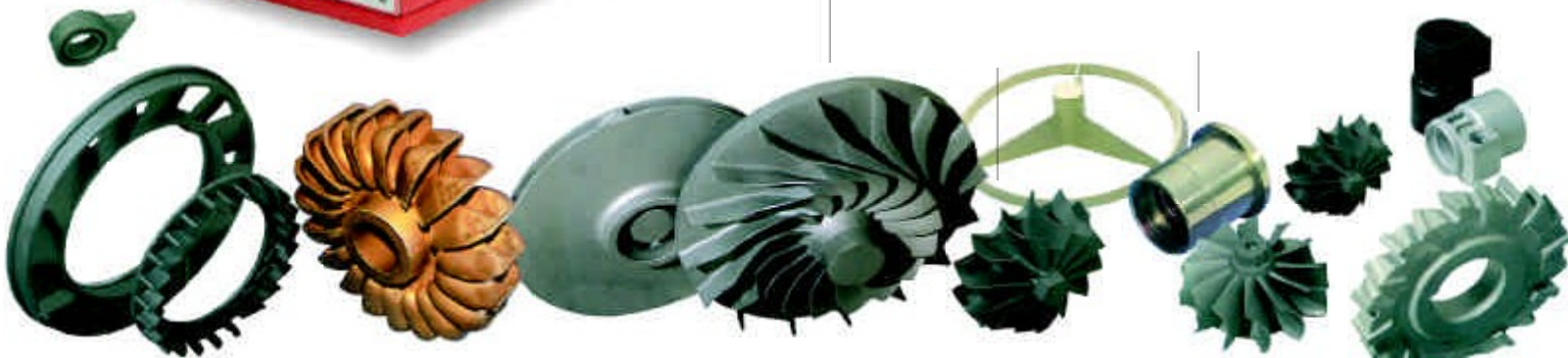
MEC Tilting Turn table is suitable for job mounting and rotation. The turn table can be integrated with the robotic spray cell. It can be used for long rolls keeping face plate in vertical position & chuck mounted on the face plate.



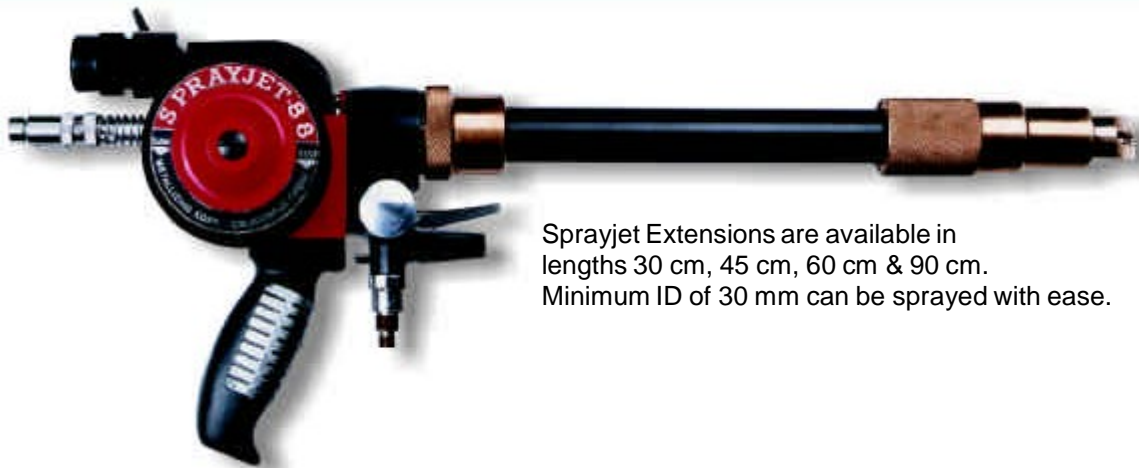
MEC POWDER FEEDER; PF-700

SPECIFICATIONS

Powder Container Size	45 Cubic Inches 8" x 4" x 4"
Powder Wheel rpm	0.5 to 28 stepless
Electric Supply	115V AC 60 1Ph or 220V AC 50 1Ph
Powder Hose Length	10, 35, 100 Feet
Net Weight	70 lbs



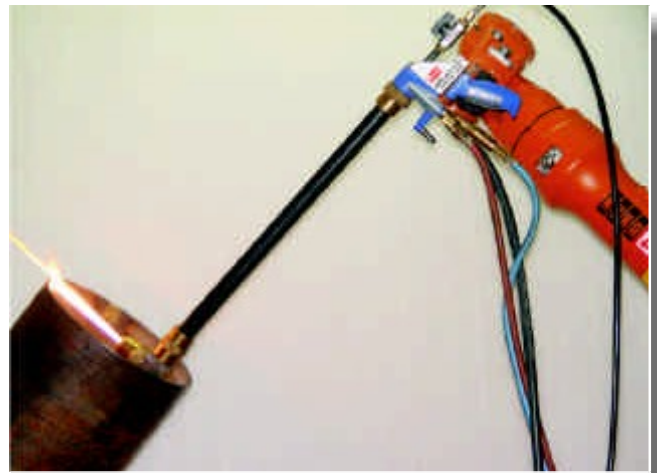
EXTEND YOUR SPRAY CAPABILITY



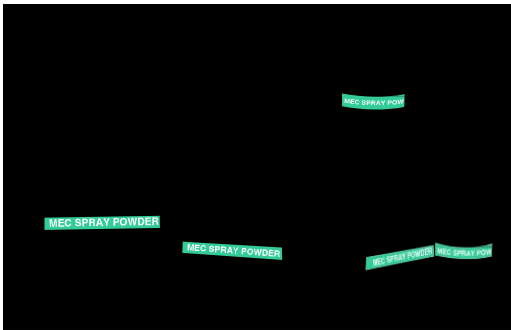
Sprayjet Extensions are available in lengths 30 cm, 45 cm, 60 cm & 90 cm. Minimum ID of 30 mm can be sprayed with ease.



High Velocity Wire Spray Extension are used for coating minimum ID of 70 mm. Various lengths are available.



HVOF Powder Spray Extension for high quality coatings



MEC supplies wide range of thermal spray consumables like, metallic, alloyed and cored wires, metallic, ceramic & cermet powders, masking compound and various sealers.





A WIDE RANGE OF THERMAL SPRAY EQUIPMENT

Hijet-9600
HVOF Wire
Spray Gun



Powderjet-86
Powder
Spray Gun



Powder
Feeder
PF-3350



Hipojet-2100
HVOF
Powder
Spray Gun
"COMPACT"



Control
Panel
AP-2200



Hipojet-2700
HVOF
Powder
Spray Gun
"MULTI
TASKING"



Powderjet-85
Powder
Spray Gun



Rodojet-9800
Ceramic Rod
Spray Gun



Arcjet-95
Twin Wire
Arc Spray
Gun



Thermal
Spray
Robot



Tilting
Turntable



Sprayjet-5MC
Wire Spray
Gun



MSC Corp.

Metal Spray Coating Corp.

P.O. Box 816580, Hollywood FL 33081-6580 • +1 (978) 767-3608

www.metal-spray-coating.com