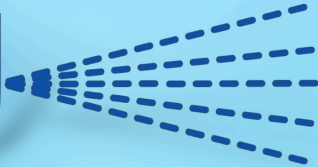


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# METAJET-2751

## HIGH VELOCITY OXY-FUEL SPRAY SYSTEM

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**BALAJI UDYOG**, a leading manufacturer of thermal spray equipment and blasting accessories based in Jodhpur, Rajasthan, India. Since 2013, we have been providing our clients with highquality, reliable, and cost-effective solutions for their metallizing needs. Our commitment to innovation and excellence has earned us a reputation as a trusted partner for businesses worldwide

# METAJET-2751 SYSTEMS

## SYSTEM FEATURES

### AUTOMATIC

Perfect for medium-sized to big stores with higher volume surfacing requirements and higher quality control standards. HVOF coatings with very accurate and repeatable operation because of full automation. Controller with Rotameter based on PLC. with a high-performing water-cooled (hybrid) Metajet-2751 gun as well as an air-cooled Metajet 2751 gun. an integrated alarm and monitoring system that shuts down automatically to ensure safety. interfaces with accessories, the exhaust system, gun manipulators, and workpiece handling equipment

### MANUAL

Perfect for small and medium-sized stores that require occasional surfacing. Precision parts with high protection standards and coatings that are reliable and repeatable. Gas metering system with rotameter.- suitable with a high-performing water-cooled (hybrid) Metajet-2751 gun as well as an air-cooled Metajet 2751 gun. Customise your system with the gun and part manipulation tools that are best suited for your spray applications. Easy-to-use mobile device

## SPECIFICATION

### AUTOMATIC

### MANUAL

GUN	METAJET-2751-A	METAJET-2751-M
Weight Gases	1.7 Kg, (3.74 lb) Oxygen, LPG/Propane/Natural Gas,Air	1.85 Kg, (4.07 lb) Oxygen, LPG/Propane/Natural Gas,Air
CONTROL PANEL	AP-2751	MP-2751
Dimensions Weight Electricity	970x600x260 mm 45 Kg (99.2 lb) 220v / 1P / 50/60 110V / 1P / 60 Hz (Optional)	870x500x140 mm 39 Kg (85.9 lb) 220v / 1P / 50/60 Hz 110V / 1P / 60 Hz (Optional)
POWDER FEEDER	BPF-3350-HP	BPF-3350
Capacity Weight Electricity	3350 CC (700 CC Optional) 40 Kg (88 lb) 110 V / 1P / 60 Hz (Optional)	3350 CC (700 CC Optional) 32 Kg (70.4 lb) 110 V / 1P / 60 Hz (Optional)

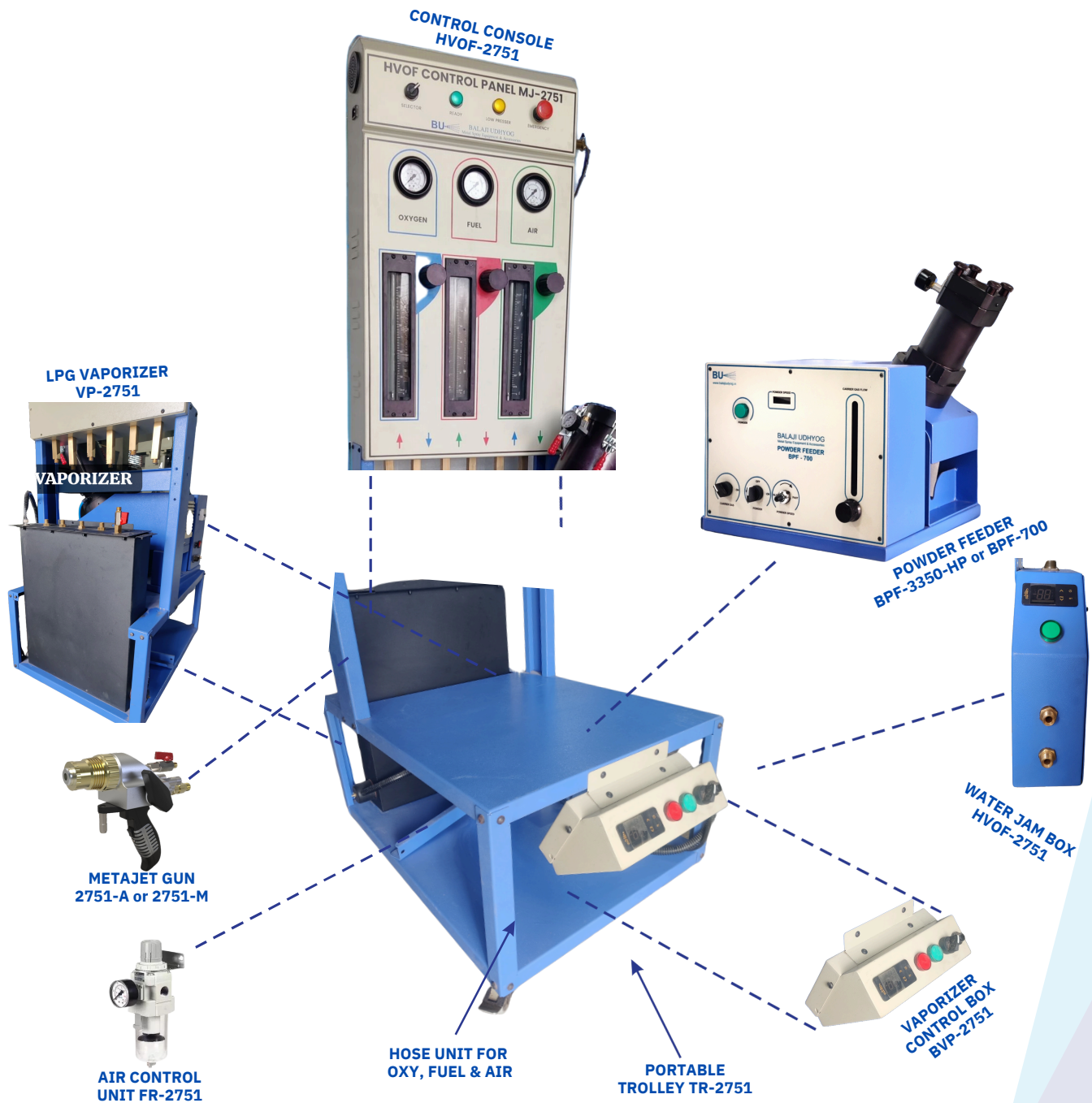
## REFERENCE PARAMETERS

Gas	Flow (LPM)	Operating Pressure	Powder	Spray Rate	Deposit Effi
Oxygen	250 - 350	10.0 Kg/Cm	WC-12Co	38 gm/min (5.01 lb/hour)	70%
LPG/Propane	60 - 80	07.0 Kg/Cm	WC-17Co	38 gm/min (5.01 lb/hour)	60%
Air	600 - 700	07.0 Kg/Cm	WC-10Co-4Cr	38 gm/min (5.01 lb/hour)	70%
			Cr C3 2-NiCr	25 gm/min (3.30 lb/hour)	58%

\*These parameters are only for reference. actual parameters depends upon the local conditions, geometry, type of powder & size of the job.

METAJET-2751 AUTOMATIC  
HVOF SPRAY SYSTEMS

METAJET-2751 MANUAL  
HVOF SPRAY SYSTEMS



#### STANDARD SYSTEM

Metajet-2751 HVOF Gun

Control Panel : HVOF -2751

Powder Feeder : PF-3350 OR PF-700

Gas Regulator for Oxygen & LPG : GR-2751

Air Control Unit : FR-2751

Hose Unit for Oxy, Fuel & Air (7.5 mtr length)

Portable Trolley; TR-2751

Set of Recommended Spares for Metajet-2751 Gun

#### STANDARD SYSTEM

LPG Vaporizer; VP-2751

Water Jam Box; HY-2751

Extension Kit for internal spray (length 1', 2', 3')

Water Cooled Jacket (Hybrid); HY2751

Gas Manifold for Oxygen cylinders (6, 10 or 20#)

Air Blast Unit (for cooling substrate); AJ-2751

Extra length of Hose (upto 30 mtr)

Extra length of Powder Feed Tube (upto 30 mtr)



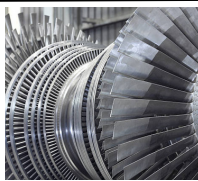
Better economy and more performance are no longer mutually exclusive ideas according to BALAJI's HVOF technologies. Our professionals in surface engineering can assist you in:

- Produce parts using a less expensive substrate material while applying the right coating to preserve particular surface properties.
- extend the lifespan of an already-existing component.
- Restore the components to their original state. Replacement of hard chrome.



## Aerospace : Hard Surfacing; Hard Chrome replacement etc.

Fan blades for turbine engines, compressor blades, bearing journals, landing gears, actuators, flap tracks, helicopter rotor, rotor joints, and sleeves.



## Power Generation : Hard Surfacing, Anti Corrosion

Exhaust fans, nozzles and blades, hydroelectric pelton buckets and industrial gas turbines



## Automotive : Seff Lubricating, Hard Chrome replacement etc.

Ship steering rams, hydraulic rods, pistons, and shifter forks in transmissions



## Printing & Paper : Rebuilding, Hard Surfacing etc.

Roll covers for printing, inking, calendars, and presses



## Petrochemical : Hard Surfacing, Anti Corrosion etc.

Pump parts, exhaust stacks, sucker rods, hydraulic rods, gate valves, ball valves, valve seats, and conveyor screws



## Textile Machinery : Rebuilding, Hard Surfacing etc.

Draw rolls, crimping rolls, and thread guides

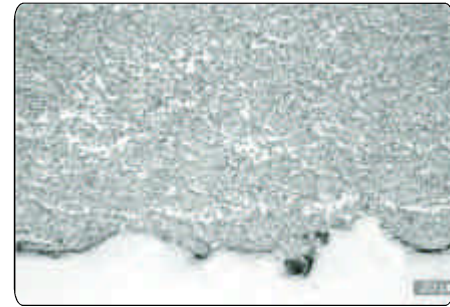


## General Industry : Rebuilding, Wear Resistance etc.

Pump housings, shafts and impellers, plastic extruders, cam followers, wear rings, bedways of machines, press fittings, and machinery component restoration.

## TYPICAL COATINGS

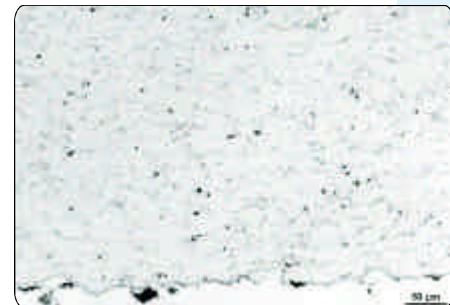
WC-12%Co



WC-10%Co-4%Cr



Cr<sub>3</sub>C<sub>2</sub>-25%NiCr



WC-17%Co



## COATING FEATURES#

- High Density (less than 1% porosity)  
Maximum Durability (1250 VHN0.3)
- silky (as sprayed) Surface (3-5µmRa)
- High Strength Bonds (above 10,000 PSI)
- Outstanding Resistance to Wear
- Lower Oxide Content Compared to Plasma Coating

# Depends on type of powder & parameters





***Let's  
Connect  
With  
Us!***

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