



# D623

## MEDIUM PRESSURE

Faster, stronger metal coatings and repairs

### 5 benefits of cold spray



Faster output



High performance



Portable repairs



Cost-competitive



Reduce waste

Applications for D623 are found in repair and restoration of numerous metal parts like engine components and moulds, sealing, corrosion protection, electrical conductivity and special applications. Secondly the D623 can be used for the application of coatings, such as electric conductive coatings, corrosion protection, etc.

Whether you're working with metals, glass, ceramics or plastics, the D623 system unlocks a wide variety of applications.



Fuse dissimilar metals to create custom solutions



Coat or restore any metal part without heat



Fully-optional D623

# D623

### Key uses

- Prevent and repair corrosive damage and defects in cylinder parts
- Repair bearing seats
- Repair forms and patterns for casting plastic, glass and metal
- Hermetically seal radiators and air conditioning systems
- Add electrical conductive layers to materials
- Additive manufacturing and more

### Materials

- Aluminium
- Zinc
- Copper
- Tin
- Nickel
- Babbit
- Gold
- Silver
- Platinum
- Inconel 625

### Powder Feeding

#### PB-95 Powder Feeder

The D623 comes standard with one integrated PB-95 Powder Feeder, or upgrade the system with an additional PB-95 Powder Feeder for increased powder capacity. The PB-95 is pressurised, ensuring consistent and uniform powder deposition.

#### PB-45 Powder Feeder

The D623 is compatible with the PB-45 Powder Feeder, an economical option ideal for small-to-medium coating and repair applications. While offering reduced powder capacity compared to the PB-95, the PB-45 remains a practical solution for operations prioritising cost-efficiency and simpler setups.



### Specifications

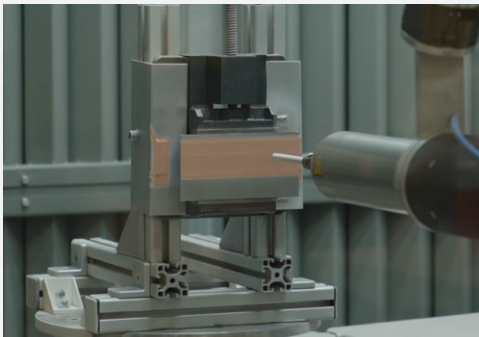
	Metric	Imperial
Maximum N <sub>2</sub> input pressure	30 bar	435.11 psi
N <sub>2</sub> consumption	400-800 l/m2	9.8 - 19.60 gal/ft <sup>2</sup>
Compressed N <sub>2</sub> input temperature	less than 40°C	less than 104°F
N <sub>2</sub> purity	4.8	4.8
N <sub>2</sub> operating pressure (inside spraying gun DM65)	8-20 bar	116.03 - 290.08 psi
N <sub>2</sub> operating temperature (in the input of the nozzle)	20-750°C	68 - 1382°F
Power supply	3 phase, 50-60Hz	3 phase, 50-60Hz
Maximum power consumption	6 kW	6 kW
Time required for reaching an operating condition	No more than 90 seconds at max. parameters	
Powder consumption	Max 1.8 - 2.2 kg/hour	Max 3.97 - 4.85 lb/hour
Noise level in operation without shielded box	max. 95 dB	
Dimensions	980 x 550 x 1300 mm	38.58 x 21.65 x 51.18 in
Total mass of the equipment - Spraying gun	140 kg 4.7 kg	308 lb 10 lb
Operation	handheld and robotic	
Spray Library	✓	✓
Parameter Logging	✓	✓

### Versatility & Integration

#### Integrated Spray Booth

The D623 can be incorporated into an integrated spray system that includes robotics for precise and automated control, dust extraction, and powder feeding.

This setup enables repeatable and automated metal deposition for coatings and secondary manufacturing operations, ensuring efficiency, consistency, and minimal operator intervention.



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