# 6P-II Powder Flame Spray System

TECHNICAL BROCHURE | OXYGEN + ACETYLENE | BU-6PII-TB-01

## External powder feed for metal, ceramic and self-fluxing coating applications.




The Balaji 6P-II powder flame spray torch feeds powder into an oxy-acetylene flame from a separate powder feeder. A modular front end supports nozzle selection for the coating material and application. The hand-held configuration provides access to complex parts; machine mounting is available with the appropriate fixture.

| Configuration | Specification |
|---|---|
| Combustion gases | Oxygen + acetylene |
| Electrical supply for supplied system | 220 V AC, single phase |
| Nozzle options covered | K and M; selection is powder/application dependent |
| Powder delivery | Separate, controlled powder feeder |
| Typical work | Shafts, sleeves, seal areas, rollers, wear rings and textile components |

# System and technical reference

6P-II | EQUIPMENT SELECTION

| System component | Function |
|---|---|
| 6P-II powder spray gun | Produces the spray stream; hand-held arrangement shown |
| PF-700 powder feeder | 700 cm³ nominal canister; adjustable powder delivery |
| Gas flowmeter and gas control unit | Regulates and indicates the selected gas conditions |
| Air control unit and cooling wand | Gun cooling and application-specific workpiece cooling |
| Interconnecting hose set | 5 m set listed in the source system brochure |
| Optional equipment | 3350 cm³ feeder, machine mounting and automatic control package |

Final supply is defined by the accepted quotation. Cylinders, extraction, compressor, protective devices and other site utilities must be explicitly confirmed; they are not implied by this component list.

## Published performance references

| Powder family | Example spray rate | Published deposition efficiency |
|---|---|---|
| Ceramic | 0.9 kg/h | 25-75% |
| Metallic | 2.7 kg/h | 80-90% |
| Self-fluxing | 9.1 kg/h | 85-95% |

These brochure figures depend on composition, particle size and the qualified process. They are not guaranteed outputs for every K/M nozzle or powder. Spray-and-fuse work requires a separate approved fusing procedure.

## Gas planning reference

Published baseline: oxygen 2.2 bar / 2.7 m³/h and acetylene 1.0 bar / 1.7 m³/h. These are planning references, not a lighting instruction. Use the companion start guide and approved job sheet.

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