

THERMAL SPRAY SYSTEMS

UP 80 Plasma Spray System

The UP 80 Plasma Spray System is a maintenance and operation friendly coating system. It is perfectly suited for job-shops and high volume production applications requiring a high degree of flexibility and repeatability for reasonable costs.

Main Features

- Operator friendly and rugged design with low maintenance requirement
- Manually controlled plasma gases (Argon, H₂, N₂/He) with industrially proved flow tube meters
- Any stand-alone plasma version powder feeder adaptable; On/off controlled by the UP 80 control module
- Capable of being integrated with further existing components from the customer
- Full and extended safety diagnostic system
- Pre-flow buttons to set required gas flows
- Monitoring of plasma gas supply pressures
- PLC controlled (industrial standard type) to provide reliability and system stability
- Full overview of parameters at a glance, including system status & settings, cooling water temperature, operation hours and ignition counter
- Power source of a 80kW secondary chopped type is featuring a 100% duty cycle over the entire power range



The UP 80 plasma spray system consists of the following components:

- UP 80 control module for plasma operation
- UP 80 JAM module
- Powder feed system: single or twin type
- F4 Plasma Spray Gun (other plasma guns are available on request)
- UP 80 Secondary Chopped Plasma Power Supply
- Full set of cables and hoses, standard lengths are:
 - from JAM module to spray guns 5 meters max.
 - from gas module to JAM module 6 meters max.



Water cooling systems are available from AMT to be integrated into the plasma spray system for gun cooling.

Technical Data AMT UP 80

- Maximum output current 1'000 or 800 A DC
- Maximum output voltage 80 or 100V DC @ 100% duty cycle
- Main transformer 3 x 400V – 3 x 90V @ 50/60Hz
- All components according to European CE regulations

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