



A D V A N C E D C O A T I N G S O L U T I O N S

Axial III Plasma Gun

The Axial III is a modern and aircraft industry-standard plasma gun and fulfills the industry's coating specification and product stability standards.

The Axial III is a professional three-cathode plasma gun with axial powder feeding. It is designed for wattages from 30 to 150 kW.

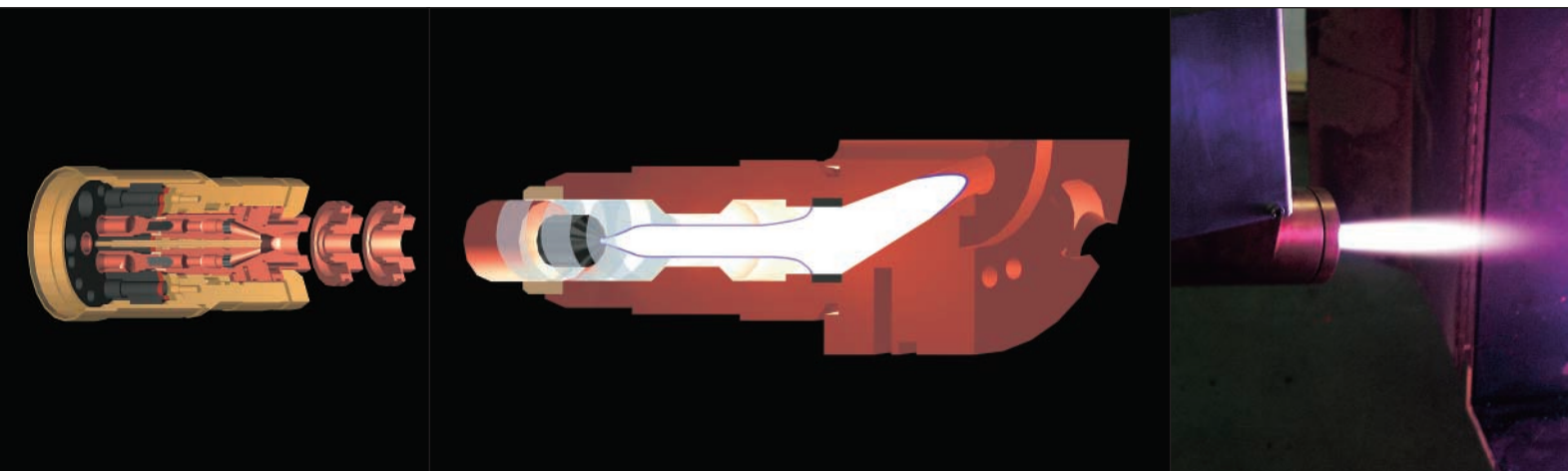
Argon; argon, nitrogen and hydrogen mixtures; and pure hydrogen with an arc pressure of up to 4 bars are used as plasma gas.

The powder is injected into and completely coated by the plasma beam. The plasma beam transporting the powder is focused by a plasma nozzle.

The Axial III plasma gun guarantees excellent coating results, combined with a high application efficiency.

The Axial III ID internal spraying gun is an ideal tool for the coating of component parts with a complex geometry, and of tubes with an inside diameter of 335 mm minimum and a capacity of up to 135 kW. The temperature-sensitive component parts are protected by a metal coating.





Axial III Plasma Gun

Powder feeding:
axial, carbide-fortified

Electrical power:
10–150 kW

Number of cathodes:
three cathodes arranged at 120° angles
Accumulative anode

Plasma nozzles:
8 mm – 25 mm

Max. pressure limit in the arc:
4 bars

Mixtures of plasma gas:
argon, argon/hydrogen, argon/nitrogen,
argon/nitrogen/hydrogen,
nitrogen/hydrogen, hydrogen

Current load:
3 x 30 to 250 amps

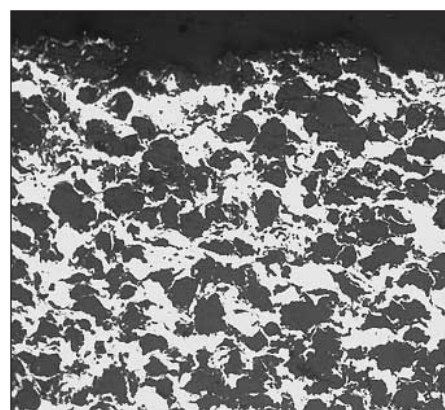
Electrode potential:
60–200 volts

Cooling:
de-ionized water, 40 l/min, 14 bars

Electrode life:
up to 300 h

Adapter:
straight 180°, right-angled 90°

Special gun:
internal spraying gun Axial III ID
30–135 kW



thermico

A D V A N C E D C O A T I N G S O L U T I O N S

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