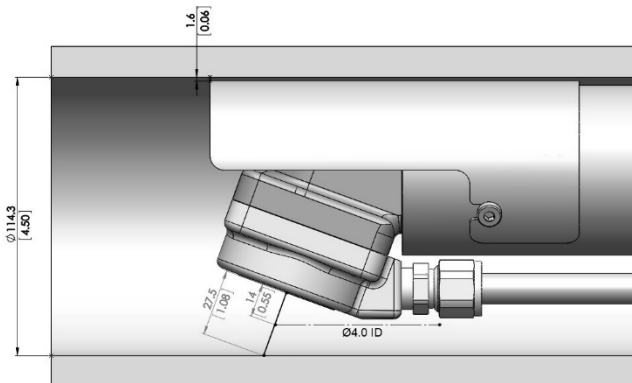
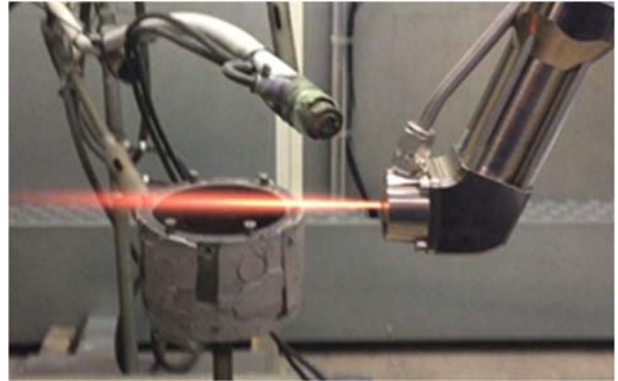
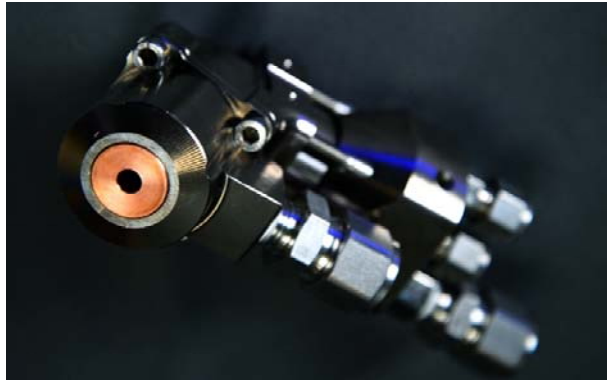
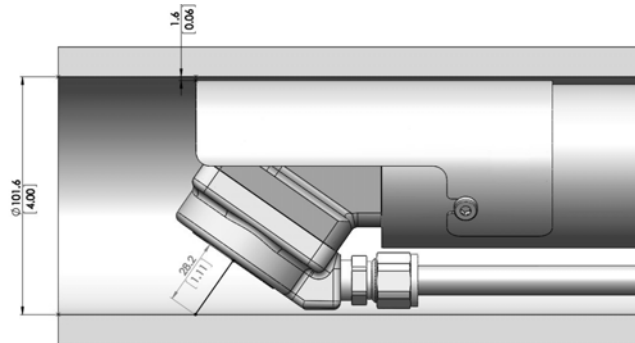


## **ID-Nova HVOF**

### **Internal Diameter High Velocity Oxygen Fuel Torch**



Standard elbow in 4.5 inch (114.3 mm) ID

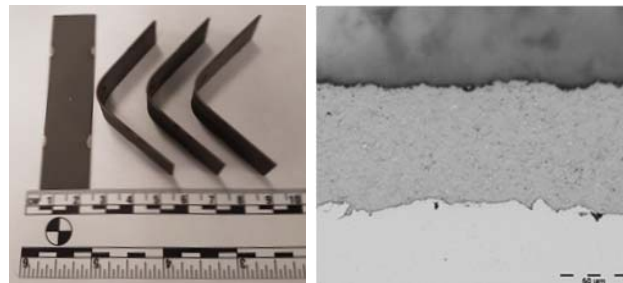


High angle elbow in 4.0 inch (101.6 mm) ID

The ID-Nova HVOF represents a breakthrough for internal diameter coating devices bringing together functionality, robustness and reliability to the process. The ID Nova HVOF has axial feed of powder and is designed for coating small internal diameters with high quality coatings.

ID-Nova HVOF has been successfully tested at National Research Council Canada Industrial Materials Institute in Boucherville and is used in industrial coating applications. ID-Nova HVOF can be operated with existing controllers that deliver hydrogen and oxygen. Hardness exceeding 1000 HV300 and porosities below 1% are routine for WC-CoCr coatings.

Recent developments have demonstrated the benefits of using the ID-Nova in warm spray (WS) applications to further improve coating properties.



Compressive stresses  
Coating hardness: >1000 HV300  
WC-CoCr coating porosity: <1%

#### **ID-Nova & Coating Specifications:**

- Rated power: 99 kW
- Process gases: hydrogen, propylene, propane
- Axial injection of powder
- Operates in diameters: 4.5 in / 114.3 mm

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