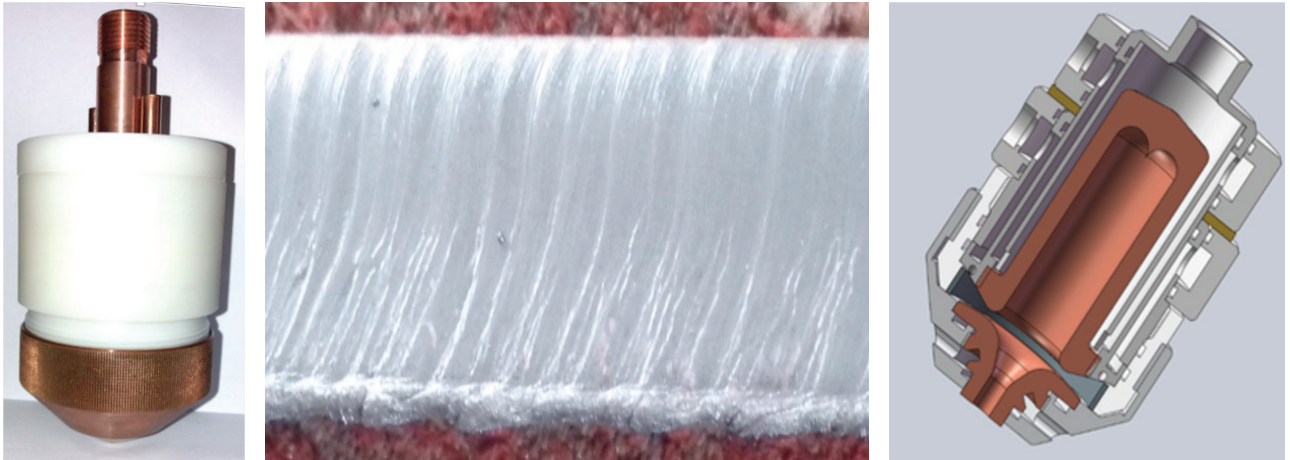


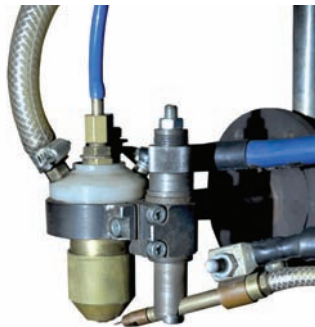
REVERSE POLARITY PLASMA-AIR CUTTING

Universal technological complex was developed for reverse polarity plasma cutting of metals, for severing of stainless steels, ferrous and non-ferrous metals of 5–200 mm thickness with direct current plasma arc. Joint development of PWI and «PLAZER» Company.



UNIT FOR PLASMA-ARC WIRE SPRAYING OF COATINGS

The unit realizes a process of plasma-arc wire spraying in argon arc with intensive concurrent air blowing.



Plasmatron of plasma-arc unit



Process of plasma-arc spraying with current-carrying wire

The unit is designed for deposition of wear resistant, corrosion resistant and special coatings by means of spraying of current-conducting materials in form of powder and compact wires of 1.6–1.8 mm diameter. Thickness of deposited coatings is 0.05–5 mm (and more). Compressed air and argon are used as working gases. Joint development of PWI and «PLAZER» Company.

Developed by the E.O. Paton Electric Welding Institute of the NAS of Ukraine. E-mail: office@paton.kiev.ua