

Electrode Charger Graphite Electrode Plasma/ Process gas Bell

CHARACTERISTICS

PLASMA GAS	Nitrogen, argon, air, hydrogen, methane, ect.
POWER RANGE	From 10s of kWs up to multiple MWs
TEMPERATURE RANGE	Up to 3000 K
OPERATION TIME	Virtually continuous using our patented electrode feeding mechanism
CAPACITY OF THE ELECTRODE FEEDING SYSTEM	6 electrodes with single charge
OPERATION PRESSURE	Up to 5 bar for now
MONOTORING AND SURVELLANCE	Al camera monotoring of electrode erosionPyrometer for temperature surveillance
UTILITIES	Closed loop water cooling Nitrogen Sheathing

MAIN ADVANTAGES

Unique AC plasma torch: plug & play flexible technology, no need for AC/DC rectifier, it can be connected directly to the local AC power supply.
High energy conversion efficiency: 90 % of the electrical power supplied is converted to heat, integrated closed water-cooling loop for the plasma bell.
Low OPEX: inexpensive graphite electrodes, slow consumption, low maintenance is required and flexible efficient process.
Highly automated: continuous and intelligent process thanks to IA and automation for the inter-electrode distance detection.
Robust and reliable technology: easy assembly, redundancy in security factors, automated moving electrodes.