

Technical specification for the micro plasma torch

Mandatory technical specifications

1. Torch should be capable of connecting to the existing Fronius plasma welding power source TransTig 800.
2. Torch should be capable of operating in current ranging from 0.5 to 30 A in steps of 0.1 A.
3. Arc should be stable, down to 0.5 A.
4. Micro plasma torch should have a proper mount to attach to a robotic arm or a CNC table.
5. Torch should have a capability to deliver plasma with an orifice (nozzle) diameter from 0.6 to 1.6 mm.
6. The length of the torch umbilical should be 4 meter or higher.
7. Torch should be capable of operating using an appropriate electrode with 1 mm or higher.
8. Torch should be capable of providing a pilot arc with a current of 3 A or lower.
9. Bidder should include the cost of the necessary cooling units required for a smooth operation of the torch during the warranty period.
10. All the necessary spares and consumables should be provided for a smooth operation in the warranty period.
11. A minimum of two years of warranty should be provided from the date of installation.