



MICRO GAP 50 DC

Plasma Transferred Arc Technology



- For manual applications with low welding currents
 - Micro plasma welding, GTA, MMA
- User friendly touch screen control panel
- Compact design with integrated cooling unit
 - Wide range of additional accessories

Micro Plasma technology provides a wide range of benefits compared with conventional arc welding processes. Major features are :

- High energy density in extremely focused arc
- Low dilution with base material
- Minor machining after welding
- Possible multipass overlays
- Minimal Heat Affected Zone (HAZ)
- Lowest distortions
- Excellent weld pool controll
- Maximum purity and performance of the applied alloy even in the first layer
- Metallic bond strength and impact resistance

Applications examples :

- Micro plasma brazing
- Repairs on tool steels, rebuilding of cutting edges
- Medical instruments welding
- Filter inserts welding, diaphragms and metallic meshes
- Repairs on plastic injection moulds
- Jeweller's craft
- Welding of aircraft engines components



Manual torch E5N / ESC 757807 Wide range of accessories available. Ready to use with full scope of Micro Gap 50 welding parameters.

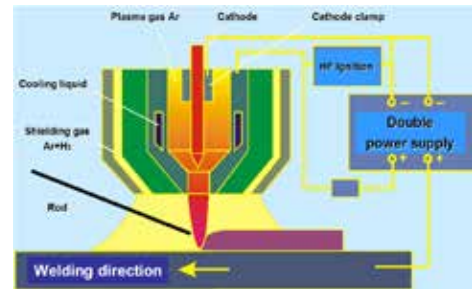


Foot controller RC-F ESC 260232



Why Micro GAP 50 DC?

Micro GAP 50 DC is a stand-alone arc welding power unit. The unit is dedicated for microplasma welding and hard-facing with rods. Micro GAP 50 DC has very complex design and despite integrated cooling relatively small dimensions. Advanced inverters allows to weld even from 0,5 A and the current can be adjusted with accuracy up to 0,1 A. An user friendly 5,7" touch screen control panel with new developed user interface allows the operator a simplified and even faster preselection of welding parameters also with protective gloves. All the settings are displayed on the touch screen and up to 1000 memory locations are available for saving welding parameters. Additionally Micro GAP 50 DC is capable to weld in TIG and MMA mode (preferable 1,6 mm and 2,0 mm electrodes from ToolTec series).



Schematic diagram

MICRO GAP 50 DC	ESC	
Supply voltage:	230V ±10% 50/60Hz 3x400V ±10% 50/60Hz 3x460V ±10% 50/60Hz	762768 693626 758849
Supply fuse:	16 A	
Max. power consumption:	3.5 kVA	
RMS value of the largest main current:	9.6 A	
Cos phi:	0.99	
Max. welding current (35% ED):	50 A	
Max. welding current (60% ED):	40 A	
Max. welding current (100% ED):	33 A	
Max. pilot current (35% ED):	30 A	
Amperage range for plasma welding:	0,5 - 50 A	
Open circuit voltage pilot inverter:	100V DC	
Open circuit voltage main inverter:	100V DC	
Protection class:	IP 23	
DIMENSIONS		
Length:	655mm	
Width:	310mm	
Height:	605mm	
Total weight:	46.5 kg	