



PTA Torch Range

WPL Welding Torches for Applications using the EUTRONIC[®] GAP and IMPA Plasma Welding Systems

- Plasma welding using direct and alternating current
- Plasma keyhole welding
- Plasma powder welding
- Plasma cold-wire welding
- Manual and automated welding

PTA Torch Range

Suitable for the EUTRONIC® GAP and IMPA Plasma Welding Systems

Castolin supplies an entire range of highly specialised torches for coating applications and fabrication of joint welds using the EUTRONIC® GAP process:

- Plasma cold wire welding
- Plasma powder welding
- Plasma welding without filler metals

The range includes plasma torches for different outputs and areas of use: vertical and horizontal models, connections for cooling water, pilot arc, HF striking current, inputs for shielding, plasma and carrier gas.

The plasma anodes and shielding gas nozzles shown only represent a selection of our supply range that can be adapted to special solutions.

We are also happy to adapt all the standard torches and nozzles presented here for special applications at the customer's request.

Our special brochure also features additional accessories for the EUTRONIC® GAP plasma welding system. Please ask us if you have special requirements!

Torches for Plasma Welding

Manual Torch E 12

Model: compact
Max. current intensity: 125 A (100 % duty cycle)
Cooling: water
Suitable for: **EUTRONIC GAP 400**
EUTRONIC GAP 3000 AC/DC
Central connection for: welding current and gases;
pilot current and water separate
Item number: 97070 04 00A (ESC 400 346)
(Torch with 4m hose assembly)



Machine Torch E 30

Model: vertical
Max. current intensity: 300 A (100% duty cycle)
Cooling: water
Suitable for: **EUTRONIC GAP 400**
EUTRONIC GAP 3000 AC/DC
Central connection for: welding current and gases;
pilot current and water separate
Item number: 97071 04 00A (ESC 400 349)
(Torch with 4m hose assembly)



Machine Torch GAP E 42

Model: vertical
Max. current intensity: 200 A (100% duty cycle)
Powder feed rate: 3 – 140 g/min.
Cooling: water
Suitable for: **EUTRONIC GAP 400**
EUTRONIC GAP 3000 AC/DC
Central connection for: welding current and gases;
pilot current, water and carrier gas separate
Item number: 96730 04 00A (ESC 400 238)
(Torch with 4m hose assembly)
96730 10 00A (ESC 400 240)
(Torch with 10m hose assembly)



WPL Machine Torch E 42
(Version pictured with cold wire feed)

Manual Torch GAP E 80

Model: horizontal compact
 Max. current intensity: 100 A (100% duty cycle)
 Powder feed rate: 5 – 20 g/min
 Cooling: water
 Suitable for: **EUTRONIC GAP 400**
EUTRONIC GAP 3000 AC/DC
 Central connection for: welding current and gases;
 pilot current and water separate

 Item number: ESC 400 700
 (Torch with 3m hose assembly)



Maschinenbrenner Impa 100

Model: vertical
 Current intensities
 (at 100% duty cycle): pilot current 10 – 200 A
 welding current 5 – 400 A
 Powder feed rate: 30 – 370 g/min
 Cooling: water
 Suitable for: **Servat III**
 Connection for: welding current and gases;
 pilot current, water and carrier gas
 via quick-release couplings

 Item number: 97401 (ESC 400 491)
 (Torch without hose assembly)



Machine Torch GAP E 54 D/DL

Model: horizontal
 Max. current intensity: 200 A (100% duty cycle)
 Powder feed rate: 10 – 50 g/min
 Cooling: water, connection for additional
 cooling using compressed air
 Suitable for: **EUTRONIC GAP 400**
EUTRONIC GAP 3000 AC/DC
 Central connection for: welding current and gases;
 pilot current, water and carrier
 gas separate
 Torch length: D version: 950 mm
 DL version: 1,770 mm

 Coating bore diameter: at least 80 mm

 Item number: 96750 10 00A (ESC 400 270)
 (Torch with 10m hose assembly)



Maschinenbrenner GAP E 52

Model: vertical
 Max. current intensity: 200 A (100% duty cycle)
 Powder feed rate: 3 – 80 g/min
 Cooling: water
 Suitable for: **EUTRONIC GAP 400**
EUTRONIC GAP 3000 AC/DC
 Central connection for: welding current and gases; pilot
 current, water and carrier
 gas separate

 Item number: 96700 04 00A (ESC 400 204)
 (Torch with 4m hose assembly)
 96700 10 00A (ESC 400 212)
 (Torch with 10m hose assembly)



WPL Machine Torch E 52
 (Pictured with special anode and shielding gas nozzle)

Torches for Plasma Powder Welding



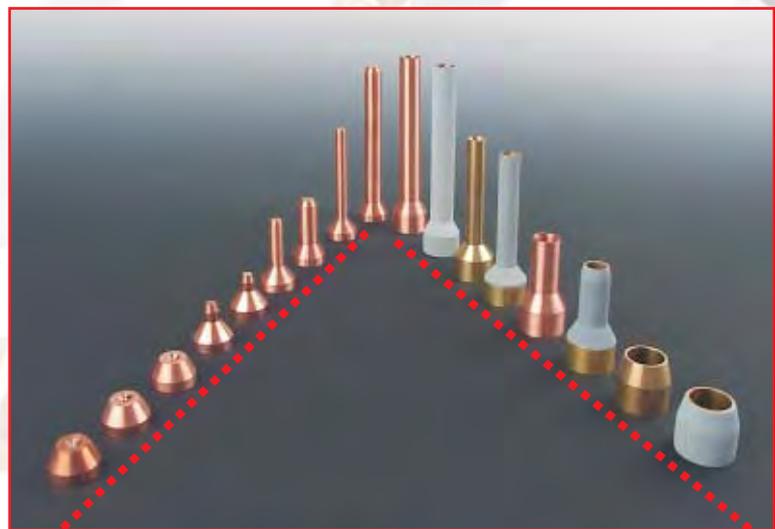
Plasma Anodes and Shielding Gas Nozzles

A Variety of Accessories for Machine Torches

The Choice for Every Task

Castolin offers different models and shapes of plasma anodes and shielding gas nozzles for the WPL machine torches GAP E 42 and GAP E 52:

- Special anodes and special shielding gas nozzles, ceramic-coated if required, for welding in small holes above 12 mm in diameter and down to depths of approximately 150 mm
- Anodes for plasma powder surfacing with different diameters and arrangements of the plasma holes, for different welding directions and deposition rates
- Anodes for AC/DC welding
- Anodes for joint welding



Plasma anodes

Bright metal or ceramic-coated shielding gas nozzles

Additional accessories, data sheets, production information and Castolin proposals for automation solutions on request!



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