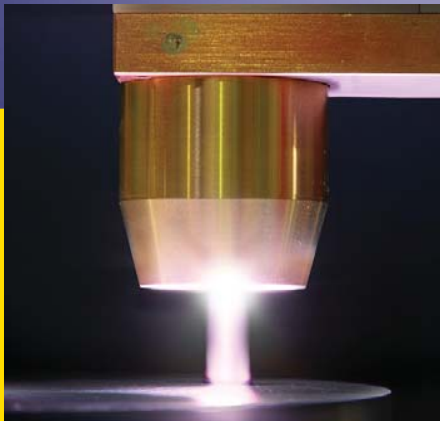


Plasma Transferred Arc Technology

EuTronic[®] GAP



Plasma Welding Units for Industrial Applications

- Versatile units with reliable 250A and 350A inverters
- Suitable for plasma coating, joining and brazing
- Easy machine set-up and operation
- User friendly touch screen control panel
- Air Tunnel Technology keeps electronics free from dust
- Optional automation interface and process recording software

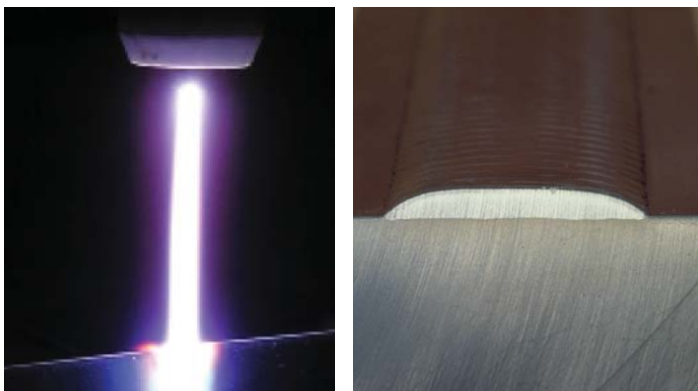
PLASMA TECH



Benefits of Plasma Arc Technology

The EuTronic GAP is the Eutectic plasma transferred arc (PTA) process, ideal for joining and coating operations.

- High energy density in an extremely focused arc
- High deposition rates for shorter welding times
- Homogeneous, smooth, pore and spatter free coatings
- Lowest dilution, heat input, distortions and HAZ than any other arc welding process
- Maximum purity and performance of the welding alloy
- Exceptional reproducibility



Focused plasma arc allows extra control, that results in low dilution and smooth surface coatings

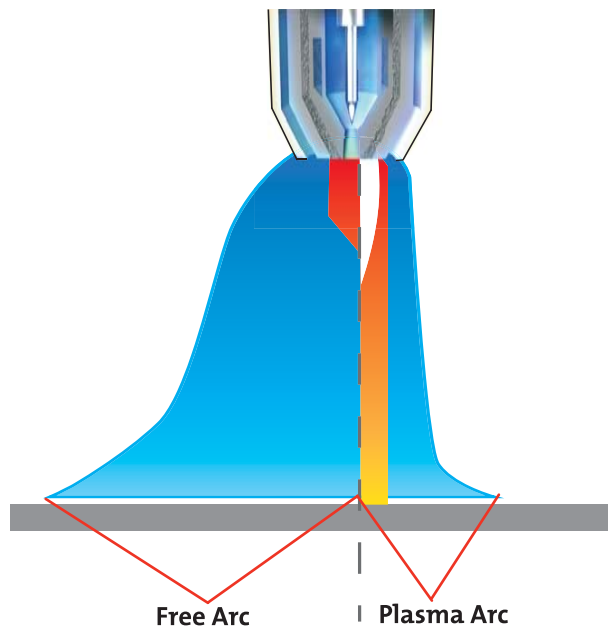


Diagram comparing the focused arc in the plasma welding process to the wider free arc in other welding processes.

Designed for Automation

EuTronic GAP 2501 DC and 3501 DC are Eutectic's premier PTA equipment designed for ease of automation into heavy-duty industrial environments. Using air tunnel technology, components remain cool and dirt-free, extending service life. Eutectic offers a wide range of software and accessories, these modular PTA units can be adapted to any application.

Versatile in Use

With the EuTronic GAP 2501/3501 DC units it is possible to combine multiple processes on a wide range of base materials:

- Plasma coating
- Plasma brazing
- TIG Welding
- MMA welding

Rugged Touch Screen Control Panel

Automation setup and control is handled easily and intuitively through a user friendly, industrial-strength, touch screen control panel.

The main screen gives access to all relevant welding operations. Input data, even with welding gloves, memory stores up to 1000 parameters.



Automation & Process Recording Software

This option (Part No. 46693779) provides continuous, real time welding and parameter data recording and monitoring. It can be used equally for short-term and long-term data recording.

All data can be exported to a USB memory drive for reporting and quality control purposes. Integrated ethernet connection to GAP control software allows for remote updates and service.



Equipment and Accessories for Every Application



EuTronic GAP	2501 DC (Part No. 465000905)	3501 DC (Part No. 465000995)
Pilot arc current:	0.5 - 30 A max 30 A 100% Duty Cycle	
Welding current:	2 - 250 A	2 - 350 A
Max welding arc current:	160 A 100% Duty Cycle	250 A 100% Duty Cycle
	200 A 60% Duty Cycle	320 A 60% Duty Cycle
	250 A 50% Duty Cycle	350 A 35% Duty Cycle
Max. power consumption:	18kVA	
Voltage supply:	3 x 460V ±10%	
Supply frequency:	50/60 Hz	
Supply fuse:	32 A	
Degree of protection:	IP 23S	
Dimensions (L x W x H):	32 x 18 x 25"	
Weight:	approx. 154.3 Lb	approx. 165.5 Lb

Included

Powder Feeder EP2: (Part No. 461008473)

Carrier gas:	Ar, Ar-H ₂
Carrier gas flow rate:	0 - 4 l/min
Powder reservoir:	2 l capacity
Degree of protection:	IP 23
Weight (without powder):	16.5Lbs (7.5 kg)
Dimensions (L x W x H):	9.8 x 6.7 x 18.5

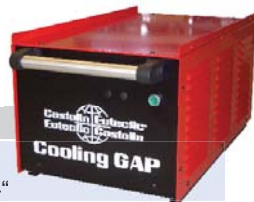


Included

Cooling GAP (Part No. 461008270)

Weight:	88 Lbs (40 kg)
Dimensions (L x W x H):	35.4 x 17.5 x 14"

Use only Eutectic Castolin XuperCool cooling liquid
(Part no. 465000237)



Included

Trolley: (Part No. 461008261)

Weight:	99 Lbs (45 kg)
Dimensions (L x W x H):	47 x 27 x 55.5"
Holds gas bottles, powder feeder, power source and cooler	



Optional

Cooling GAP Chiller: (Part No. 465000001)

Ambient temperature:	50°F – 107°F
Pre flow temperature:	59°F – 77°F
Max power consumption:	1500W
Max air flow rate:	1100 m ³ /h
Water tank volume:	5L
Water flow:	6 l/min
Water pressure:	43.5 psi
Power connection:	multi polar plug
Dimensions (L x W x H):	36" x 17.5" x 15.7"
Weight:	110 lb (incl. Coolant)

Optional

X30 Automation Interface (Part No. 465000903)

2-channel EMERGENCY STOP switch off	
10 digital inputs 24VDC, functions arbitrary	
11 digital outputs 24VDC, functions arbitrary	
4 analog inputs 0-10VDC, functions arbitrary	
1 analog input temperature monitoring with KTY 2 analog	
0-5VDC out-1 • welding current out-2 • welding voltage	
1 analog outputs 0-10VDC, functions arbitrary	
All signals are transmitted by a 72 – pole plug	

Optional

Robotic Automation

Eutectic Corporation has teamed with systems integrators to offer a fully automated PTA welding system. Capable of welding practically any stationary part. Perfect for large, hard to move work pieces. The computer programmed movements mean precise repeatability and guaranteed consistent welds.

Automation options are available with minimal footprints leaving plenty of room in tight quarters. Six axis capacity allows the robot to position the GAP 3501 torch head with high accuracy. Call Eutectic for more information.



Torch Options

PTA Torches (*)		GAP E52	GAP E54 S-M-D-DL	GAP E150
Torch type:		Powder machine torch	Powder machine torch	Powder manual torch
		for universal applications 	for inner coatings of parts with diameters > 80 mm and length up to 1.7 m.  Available in four different lengths: 330(S) - 550(M) 920(D) - 1.770(DL) mm	
Construction:		Vertical	Horizontal	Hand-held 70° torch
Max. current intensity (100% duty cycle):		200 A	200 A	150A
Powder flow rate **:		.1 - 2.87 Oz/min	.33 - 1.44 Oz/min	.2 - 1.4 Oz/min
Cooling:		Liquid	Liquid	Liquid
Weight with hose pack:		10.5 Lbs (4.8 kg (4 m))	22 Lbs(10 kg (10 m))	4.6 Lbs (2 kg (3 m))
Dimensions (L x W x H):		3" x 1.4" x 2.4"	30" - 21.6" - 36.2" - 69.7" x 2.2" x 2.75"	10" x 1.5" x 3"
Part Numbers for torch with hose pack length	12ft	46967000400D	46400861(S) 46400928(D)	461009989
	30ft	469670001000A	46402260(M) 46400275(DL)	-

* Additional PTA torches and accessories can be developed on request!

** Max feeding rate depending on powder density, powder feeder settings and type of anode

Eutectic GAP PTA Consumables

Eutectic manufactures and offers a complete range of alloys, available in different forms, that covers almost every application and any plasma welding process:

- Micro-atomized Ni, Co, Fe or Cu based powders for wear resistant coatings
- Solid and flux cored wires for cold wire plasma welding
- Special formulations may be custom blended for your specific application

Ask your local Eutectic sales representative for more information.



YOUR RESOURCE FOR PROTECTION, REPAIR AND JOINING SOLUTIONS



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