

DURWELD 300T PTA



PLC-controlled Mobile PTA System

DURWELD 300T PTA (PLC-controlled)

As a result of more than 15 years of in-house development and use, we have now introduced the next generation of a durable, reliable, mobile PTA machine into the market.

The cost-efficient PTA welding system DURWELD 300T PTA is now PLC-controlled and equipped with a HMI-interface, gas mass flow meter, powerful water cooling unit, and 220 or 110V plug. It can be operated manually or, optionally, with external manipulation devices using CNC or robotic interfaces. The main inverter power source is primary-switched and generates a very stable arc that ensures consistent and repeatable coatings.



Pilot arc current*:	2 - 170A (120A 100% Duty Cycle)	Degree of protection:	IP 23
Main arc current*:	2 - 300A (190A 100% Duty Cycle)	Plasma gas adjustment:	mass flow meter, 0.2-15 l/min
Voltage supply*:	3x400V + N ±10%	Shielding gas adjustment:	mass flow meter, 0.2-15 l/min
Supply frequency*:	50/60 Hz	Transport gas adjustment:	mass flow meter, 0.2-15 l/min
Max power consumption*:	16 KVA	Recommended (max) gas inlet:	1 bar (1.5 bars)
Open-circuit V main inverter*:	92V	Dimensions:	100 x 60 x 120 cm (without Powderfeeder)
Open-circuit V pilot inverter*:	89V	Weight:	127 kg
Supply fuse*:	16 A	Chiller Unit:	4.5 KW

* Depending on the user country electric datas can differ!
Can be used for TIG or Stick welding. Available with CNC- or Robot interface.

JOB CONTROL

The integrated job management provides, apart from recipe storage, the possibility to fix all critical parameters in the jobs. This way you can create your specific recipes tailored to your welding jobs.

Developed and manufactured by DURUM in Germany, the mobile plasma powder cladding system DURWELD 300T PTA can also be supplied with an interface for connection to a robot system.



PLC-controlled

The use of a modern PLC system provides reliable operation and allows the easy integration in automatic production lines or robot cells.

HMI-Interface

The used mobile HMI-interface is ideal for local operation and monitoring tasks. The intuitive menu structure and the combination of a touch screen with haptic controls provides easy operation.

Powder Feeder & Torches



Powder Feeder PFU 4:

Carrier gas:	Ar, Ar-H ₂
Carrier gas flow rate:	0 - 4 l/min
Powder reservoir:	2.3 l
Dimensions (L x W x H):	310 x 170 x 470 mm
Powder feed rate*:	2-200 g/min
Container size:	2.3 l
Gas pressure:	max. 2 bar
Power consumption:	max. 1 A
Weight:	6 kg

* Depending on feeding wheel configuration, torch, anode and powder density

Two PFU 4 can be driven in parallel (only by power sources with the optional second motor control card) for applications that require feeding of different powders in the weld pool: i.e. matrix and carbides.

Feeding rate step controlled via feeding wheel speed directly from PLC

PTA Torch PT 150M

Construction:	manual hand held torch
Max current:	150A (100A 100% Duty Cycle)
Powder flow rate:	3 - 40 g/min (depending on powder density)
Weight without hose pack:	0.5 kg
Description:	liquid cooled handheld torch

PTA Torch PT 300AUT i

Discription:	machine torch for inner coatings of parts with diameter > 80mm
Construction:	horizontal
Max current:	300A (200A at 100% Duty Cycle)
Powder flow rate:	10 - 80 g/min (depending on powder density)
Length (other lengths on request):	500 mm (S), 1000 mm (M), 1500 mm (L)

PTA Torch PT 300M

Construction:	manual hand held torch
Max current:	300A (200A 100% Duty Cycle)
Powder flow rate:	3 - 80 g/min (depend on powder density)
Weight without hose pack:	0.7 kg
Description:	liquid cooled handheld torch



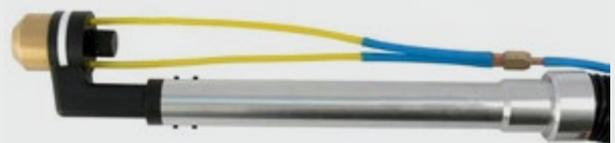
PTA Torch PT 300AUT

Construction:	vertical
Max current:	300A (200A 100% Duty Cycle)
Powder flow rate:	3 - 80 g/min (depending on powder density)
Weight without hose pack:	0.8 kg
Description:	liquid cooled machine torch for high duty applications



PTA Torch PT 400AUT

Construction:	vertical
Max current:	350A (300A 100% Duty Cycle)
Powder flow rate:	3 - 120 g/min (depending on powder density)
Weight without hose pack:	0.9 kg
Description:	liquid cooled machine torch for high duty applications



Control Accessories (optional):

foot pedal



DURUM's concept of providing the right products for the right application has resulted in the most complete and flexible range of products available on the market today.



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