

Mobile PTA System DURWELD 300/2 PTA



DURWELD 300/2 PTA

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

The cost-efficient PTA welding system DURWELD 300/2 PTA is equipped with a powerful water cooling unit, powerful air cooled 220/110V plug and can be operated manually or, optionally, with external manipulation devices using CNC or robotic interfaces.

Developed and manufactured by DURUM in Germany, the mobile plasma powder cladding system DURWELD 300/2 PTA can also be supplied with an interface for connection to a robot system.



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:	manual flow meter, 0.2-5 l/min
Voltage supply:	3x400V + N ±10%	Shielding gas adjustment:	manual flow meter, 0.2-15 l/min
Supply frequency:	50/60 Hz	Transport gas adjustment:	manual 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:	68 x 60 x 120 cm
Open-circuit V pilot inverter:	89V	Weight:	104 kg
Supply fuse:	16 A	Chiller Unit:	4.5 KW

Flow meter: analog or digital (lit up). Can be used for TIG or Stick welding. Available with CNC- or Robot interface.



Plug & Play Control Unit is equipped with safety systems for water, gas and temperature. Interface for remote control, robot, CNC.
Optional with a touch screen available.

Control Accessories (optional):
foot pedal and remote control



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 inverter 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 powder 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 powder handheld torch



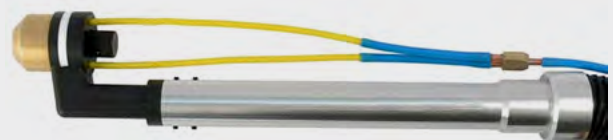
PTA Torch PT 300AUT

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 powder machine torch for high duty applications



PTA Torch PT 400AUT

Construction:	vertical
Max current:	350A (300A 100% Duty Cycle)
Powder flow rate:	3 - 140 g/min (depending on powder density)
Weight without hose pack:	0.9 kg
Description:	liquid cooled powder machine torch for high duty applications



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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