

PTA200 ROT

*automatic machine
for P.T.A.
welded coatings*

PTA200ROT is an automatic machine for welded coatings with Plasma Transferred Arc technology on rings and cylindrical workpieces of small size (max weight of the piece 10 kg).

This compact machine is formed by:

- the PTA welding machine
- the cartesian motion system
- the operator's console.

PTA WELDING MACHINE

It's about the type PTA200i produced by Commersald (see the related technical sheet), complete of cooled welding torch and powder feeder.

The welding machine gives an output current of 200A at 100% and it can be used in single pass for **welding thickness from 1 to 3,5 mm, till 40 mm wide, and deposition rate till 2 kg/h**, respecting severe metallurgical parameters.

MOTION SYSTEM

It's about a simple four axis system (two cartesian axis to move the torch and two rotating axis for the workpiece) that grants:

- **smooth powder outlet** thanks to the possibility to place the powder feeder closed to the welding point and in axis with the torch
- **high precision in positioning**, even after years of use.

- **quick shifts** thanks to the reduced motion

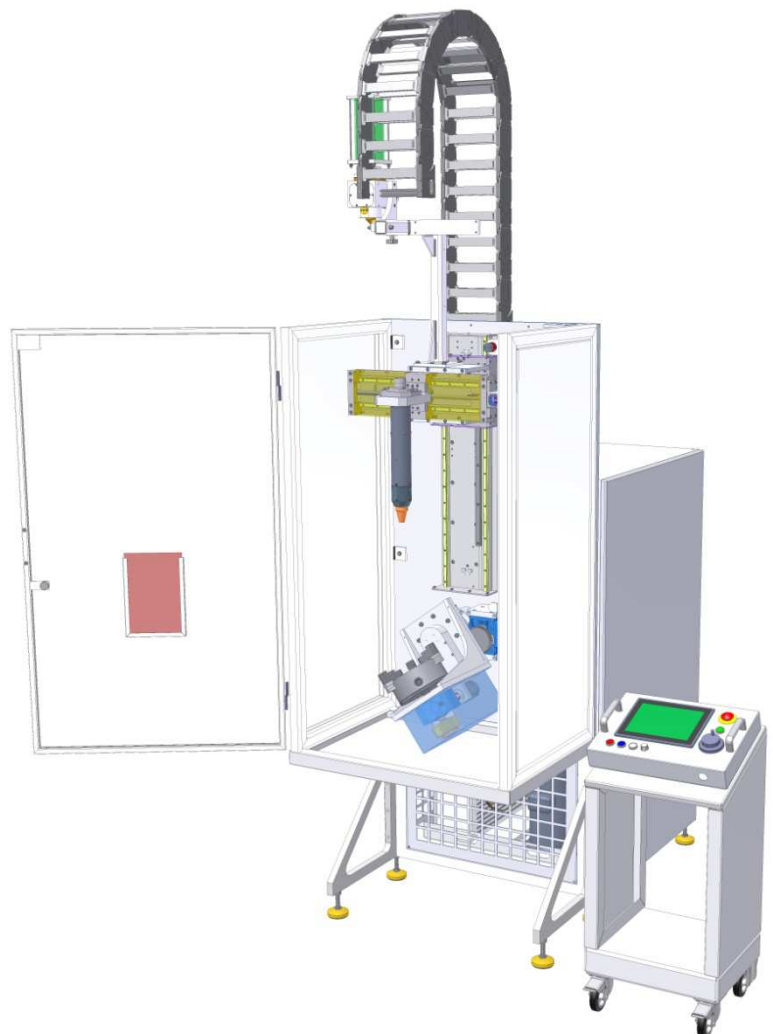
- **nearness of the operator** to the welding

point and consequent good visibility of the plasma arc, even with closed barriers.

OPERATOR'S CONSOLE

The motion of the axis is programmed and managed by the software of the PLC in the multi-language console.

The programming is easy and intuitive and 100 welding cycles, complete of motion and welding parameters, can be saved.



PTA200 ROT

*automatic machine
for P.T.A.
welded coatings*

TECHNICAL FEATURES PTA200ROT

MAIN FEATURES OF THE PLANT

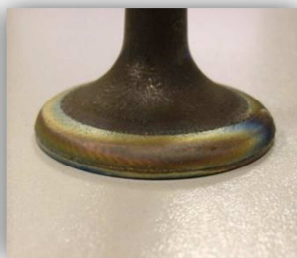
Overall size (closed door)	Dimensions (lxdxh)	mm	950x1620x3400
	Weight	Kg	900
Workpiece	Max diameter of the coating	mm	350
	Max height of the coating	mm	400
	Max weight of the workpiece	Kg	10
Deposition rate		Kg/h	0,5 - 2,0

FEATURES OF THE WELDING MACHINE PTA200i

Pilot arc generator	Output current	A	70 at 100%
Transferred arc generator	Output current	A	200 at 100%
Powder feeder	Delivery	Kg/h	0,5 - 3,5
	Capacity	Kg	7
Welding torch YZR250	Tungsten electrode Ø	mm	4
Cooler	Given power (water at 20°C)	W	8700
Power		KVA	16,7

FEATURES OF THE MOTION SYSTEM

Structure	Vertical axis stroke	mm	500
Oscillator	Max oscillation amplitude	mm	40
	Useful stroke	mm	300
Rotating table	Tilting	deg.	0° - 90°
Power		KVA	0,525
Tension		400V 50/60Hz (3F+N+T)	



COMMERSALD IMPIANTI SRL

www.commersald.com

impianti@commersald.com

Office and Factory:

Via Labriola 42, Modena, Italy

Tel: +39059822374 Fax: +39059333099