



## PW 3000

**Plasma welding machine with transferred arc technology (PTA)  
for automated and manual application**



This equipment is suitable for welding tasks that require precision, high quality, and low dilution with base material. PW 3000 delivers 20-300 A DC welding current, this is sufficient for almost all arc welding tasks. PTA welding process employs a constricted high energy plasma arc between a non consumable electrode and the base material, creating a molten weld pool, in an inert gas atmosphere. Filler material is introduced in either a wire form, which is fed into the back of the weld pool, or in powder form, which is fed through the torch and introduced to the welding arc above the weld pool. This process produces a metallurgically bonded overlay that has better fusion and corrosion properties than mechanically bonded processes.

### **Advantages of the process:**

- Low dilution with the base material
- Wide choice of filler material and powder mixtures, according to requirements
- Small heat affected zone
- Large application rate
- True metallurgical bond between base and filler material
- Reproducible results by high degree of automation
- Layers could be hard, wear-resistant and / or corrosion-resistant

### **Advantages of plasma welding machine:**

- Easy and convenient operation
- Separate water cooling
- Digital control via external remote control panel
- Current up to 300 A
- Machine suitable for PTA and MMA welding

### **Technical parameters**

Power supply:	3x400 V / 50-60 Hz
Protection class:	IP 23 S
Fuse:	16A slow blow
Open circuit voltage:	72V
Maximum welding current:	300 A
Duty cycle 40% / ED	300 A
100% / ED	200 A
Setting plasma / electrode:	20-300 A
Pilot current:	10/5A
Weight:	119 kg
Dimensions (LxWxH):	950x485x840 mm
Cooling:	separate cooler recirculator unit (chiller)
Powder feed:	separate powder feeder