

Plasma Transferred Arc (PTA)



Aerobraise Engineered Technologies

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AEROBRAZE
ENGINEERED TECHNOLOGIES



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Extending Component Service Life and Enhancing Product Performance.

Aerobrazed Engineered Technologies is a specialised business unit of Wall Colmonoy Limited with expertise in Plasma Transferred Arc (PTA) deposition processes.

Aerobrazed provides enhanced PTA surfacing solutions with many proven benefits:

- High quality weld overlay with no porosity or cracking
- Excellent wear and corrosion resistance
- Controlled dilution of the workpiece
- High coating application rate
- Cost savings versus other weld overlay techniques

Specially Formulated Alloys:

Wall Colmonoy's PTA alloys are specially formulated for the PTA process. Wall Colmonoy Aerobrazed Team offers customised technical expertise to determine the right product for the right application. The coatings can be supplied in the fully machined condition and with total manufacture.

Equipment used - EuTronic Gap 3501 DC

- Tungsten electrode arc with inert gas shrouding
- Consistent deposition rates
- Coating thickness up to 6mm



Above: Depositing Wallex 6 PTA: WCL (UK) Aerobrazed Facility

Typical Material Coated:

- Carbon Steel
- Duplex Steel
- Inconel
- Stainless steel
- Super Duplex Steel

Industries:

- Food
- Gas Turbines
- General Engineering
- Nuclear
- Oil & Gas
- Paper
- Power Generation
- Pumping / Valves
- Steel

Applications:

- Balance Drums
- Bushes
- Guide Rolls
- Parallel Slide Discs
- Pinch Rolls
- Pistons
- Pump Rings
- Pumps
- Rollers
- Standard Roller
- Valve Bodies
- Valve Seats
- Wear Rings

