

SPECIALIZED ENGINEERING SERVICES

Plasma ▶ Transferred Arc Welding

**Precise and High Quality Alloy Deposition
for Repair, Restoration and Resistance
Against Corrosion / Wear**



In addition to Plasma Transferred Arc Welding, and complementing our comprehensive range of surface engineering capabilities, Frontken is also equipped with other conventional processes such as TIG, MIG, Electric Arc, Micro-resistance and Powder Welding.



**TOTAL INTEGRATED
ENGINEERING SOLUTIONS**

FROM THE LEADER IN SURFACE METAMORPHOSIS TECHNOLOGY



SPECIALIZED ENGINEERING SERVICES

Plasma Transferred Arc Welding

Plasma Transferred Arc hardfacing is a high energy, inert gas welding process that produces very high quality and precise alloy coatings. The deposit microstructures are made up of dense metallurgical bond between the substrate and deposit, an overlay that offers optimal protection with minimal dilution (3-10%) or deformation to mechanical parts that are subject to intense wear, significantly extending their service life.

A wide range of overlay alloys are available for surface rebuilding of worn out components such as pumps volute, ball valves and mechanical rotors while materials with superior hardness and resistance properties can be employed to protect localized surfaces that are subjected to harsh operating conditions.

Welding capabilities are critical for surface rebuilding, recovery & repair works. In addition to Plasma Transferred Arc Welding, and complementing our comprehensive range of surface engineering capabilities, Frontken is also equipped with other conventional processes such as TIG, MIG, Electric Arc, Micro-resistance and Powder Welding.



Singapore | Malaysia | Indonesia | Philippines | Thailand | China | Taiwan | Qatar
Oil & Gas | Process & Chemicals | Power Generation | Semiconductors | Marine

www.frontken.com

info@frontken.com