

Wire-arc thermal spray coatings

Wire-arc sprays provide a dense and strong metal coating. Low running costs and high spray rates enable a high quality, low cost solution. Wire-arc coatings are generally the best choice for protection against corrosion. Galvanically active coatings such as Zinc and Aluminium can be applied using the Wire-arc process. Aluminium Bronze and Nickel Aluminium are commonly applied to various parts.

The Wire-arc process involves two wires that are driven into an electric arc to form molten particles of spray and are forced out the gun by compressed air onto the substrate. The wire-arc spray process is known as a cold process as the substrate temperature can be kept low throughout.

Wire-arc metal spraying is also used to apply non-slip coatings to protect both your infrastructure and your employees, typically applied to walkways and tread plates. Thermal Spray Aluminium (TSA) is also applied using a wire-arc spray gun.

BENEFITS

- High quality, cost effective solution
- Strong, dense surface finish
- Low process temperature
- High material output per hour

TYPICAL APPLICATIONS

- Offshore steelwork
- Offshore walkways, gantries and tread plates
- Dimensional restoration and repair of mis-machined and worn parts