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LASE Ltd
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LASE capabilities

Equipment:

- 6 Axis robotic cladding equipment 2.5 m reach suitable for processing flat or complex shapes
- 1200 mm Max roll/tube diameter up to 0.5m length
- 800 mm Max roll/tube diameter up to 5m length
- 2.5 ton maximum component weight
- Capable of processing shallow internal diameters

Processes:

Laser Cladding:

Used to apply a welded metallic coating to improve performance or repair components

Laser Hardening and Heat treatment:

The laser beam is used to locally heat a component surface, once the beam is moved away the surface is quenched by the bulk of the component. This technique can be used to locally harden Carbon steels, cast irons and tool steels.

Laser Welding:

The laser beam melts the component surface to form a weld, this can be used to join metal components in an accurate and repeatable way with minimal heat input.

Substrate Materials:

We can process most iron based materials including Cast irons, carbon steels, tool steels and stainless steels

Coating materials:

We offer most Nickel Cobalt and Iron based alloys including Tungsten Carbide reinforced alloys for extreme wear resistance.