



REPAIR & UPGRADE OF VALUABLE COMPONENTS

LASER CLADDING

Stork offers laser cladding, an innovative solution for the repair and upgrade of valuable components. A high-power laser is used to apply an additional material onto a work piece.

Laser cladding has many applications and is used for all kinds of surface treatments. It is developed for modification, repair and lifetime extension of critical high-wear components that are for instance exposed to highly abrasive and corrosive environments in demanding industries.

Laser cladding is the latest state-of-the-art solution for both new and used components, for example to:

- Restore worn or damaged components to original dimensions
- Apply hard and wear resistant layers;
- Apply resistant layers against corrosion, erosion, chemicals, heat and more.

HOW DOES IT WORK

A high power laser beam is focused on the surface of a product which creates a small melt pool. Metal powder is then blown into the core of the melting area and creates a new layer.

Depending on your requirements, the part can be used either instantly or post machined to the required dimensions.

Due to its limited heat input, the risk of thermal deformation and dilution with the base material is kept to an absolute minimum.

CONTACT OUR SPECIALISTS

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Furthermore, 100% metallurgical bonding is obtained therefore eliminating the risk of flaking. This is considered a serious threat with other surface techniques as chroming or thermal spraying.

Superior properties :

- 100% metallurgical bonding
- High precision and high quality
- Excellent control of layer thickness
- Low heat input
- Minimal dilution with the base metal
- No porosity
- Homogeneous distribution of the elements

ADDED VALUE

- Significant reduction in costs
- Significant reduction in leadtime
- Increased lifetime of components
- Fast repair
- Re-use of existing components
- Repair of components on-site
- Worldwide 24/7 support