



Laser Clad® Technology

CastoDur® Diamond  Plate
LaserMax

CDP
LASERCLAD



- Proprietary laser-cladded plate developed for specific wear protection and lining
- Excellent wear performance with reduced overlay thickness
- Made-to-spec sizes and thicknesses for various wear applications
- Easy handling and maximized safety due to its lightweight properties



CDP® LaserMax

CDP® LaserMax is a thin steel plate coated with a highly wear-resistant layer. The very high density of ultra-hard Tungsten Carbide phases homogeneously distributed into a nickel-based matrix offer an extreme resistance up to 10 times better than standard heat treated (HT) wearplates. Consequently, similar or even superior life-times over traditional thick and heavy wearplates.

CDP® LaserMax can be handled manually by operators. It is ideal where lifting devices cannot be installed, in particular inside restricted areas.

CDP® LaserMax is an excellent choice for lining the inside of equipment, in particular where space is either limited or the geometry of the machine must not be altered.

The low weight of CDP® LaserMax allows important mass reduction from moving parts. Consequently, ancillary equipment is exposed to lower mechanical stress and maintenance can be reduced.

LaserClad® Technology

Due to its low temperature, focused beam, laser technology has proved to be extremely effective for protecting parts exposed to high wear. Advantages over hardfacing techniques, such as welding, include:

- Very low dilution which keeps the intrinsic wear-properties unaltered
- Low dissolution of the wear-resistant Tungsten Carbides into the matrix to improve bonding and impact resistance
- Limited substrate deformation for easy installation and better wear resistance
- Lowest influence on base material properties of all coating processes
- Smooth and regular coating surface for improved wear and tolerances.

Base Metal Thickness	Coating Thickness	Plate Size	Usable Area	Plate Weight (lb)
0.12"	0.04"	39.5" x 39.5"	38.5" x 38.5"	77
0.16"	0.06"	39.5" x 39.5"	38.5" x 38.5"	106
0.12"	0.04"	78.75" x 39.5"	77" x 38.5"	154
0.16"	0.06"	78.75" x 39.5"	77" x 38.5"	212

Key Features

- Easy to handle
- Thin, formable & smooth
- Lightweight
- Up to 10 times better than standard heat treated (HT) wearplates


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