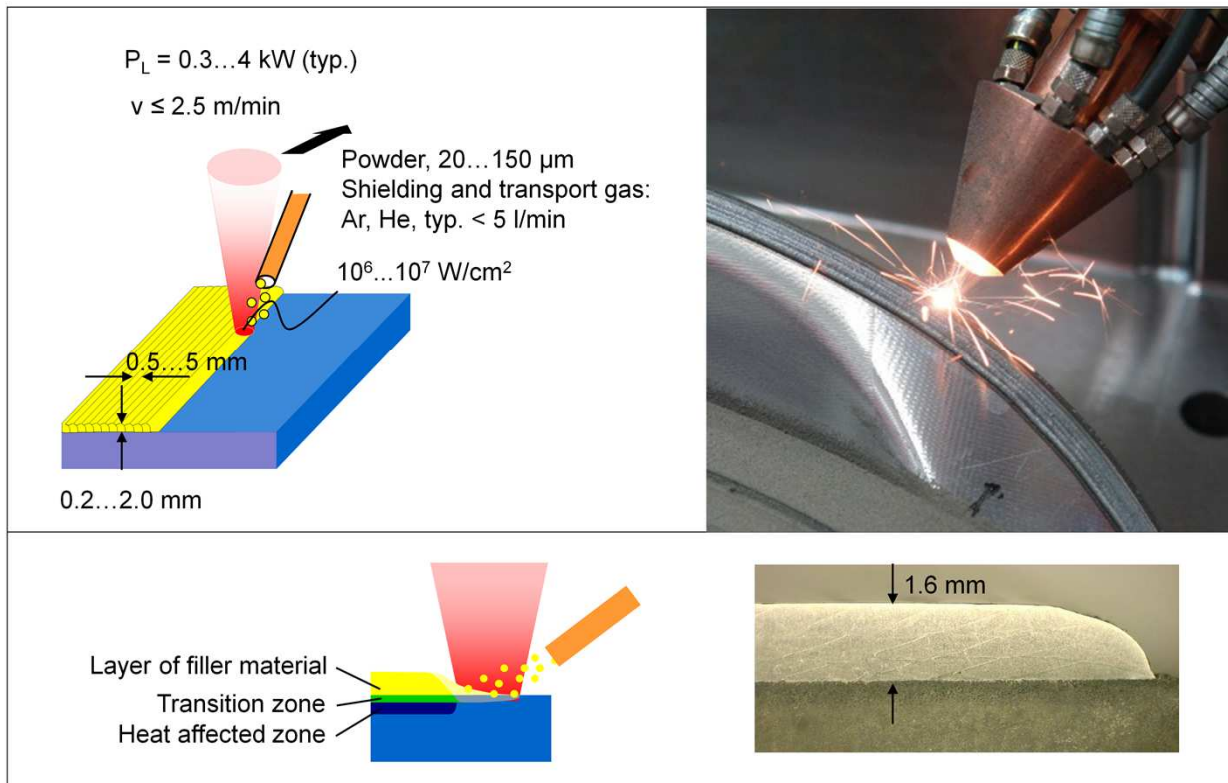


Procedural Principle Laser Beam Cladding



Cladding is a welding process with powder or wire as filler material and a small transition zone where only the surface layer of the base material is in a liquid phase during processing.

Compared to that the definition for alloying is a mixture of a liquid base and the filler material.

Dispersing is the placement of a solid (hard) filler in a liquid base material

Layers are formed by overlapping single tracks.

The overlap is approx. 45 – 65 %

Achievable layer height ranges from 0.2 – 2.0 mm.