LASER DIRECT METAL DEPOSITION

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Abstract

Laser cladding is broadly accepted method for surface coating and repair of worn parts. But this technique can be used also for creating of quite new structures, for example turbine blades, complex moulds with intricate 3D shape or smooth parts. Obtained microstructure is very fine due to rapid cooling, enhancing durability and fatigue life. Carbides and martensite are finer compared to conventionally prepared tool steels. Paper demonstrate laser direct metal deposition as new technology suitable for complex metallic structures creating.

Keywords: laser, cladding

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