

TruLaser Cell 3000:

Technology
Package Laser
Metal Deposition.



The 3-in-1 machine.

The TruLaser Cell 3000 features several different technologies, including Laser Metal Deposition – or LMD for short. You can continue to cut and weld highly productively in 2D and 3D with this versatile 5-axis laser machine. For higher quantities, it can easily be automated. From prototypes to mass production, it demonstrates its superiority. In particular, you can process small to medium-sized components economically and with the highest precision. The machine has a compact footprint, with an integrated switching cabinet and cooling system. Connecting different solid-state lasers makes it possible to process a great variety of materials.

Proven package with integrated expertise.

The additive manufacturing method known as Laser Metal Deposition gives you the benefit of many years of experience in cladding and repair applications. With the TruLaser Cell 3000 plus LMD package, therefore, an established technology meets a proven series machine. That means you receive a tried and tested overall concept made up of machine, laser and technology. With the innovative variable beam forming, you adapt the laser beam to any processing task. The modular optic concept enables rapid changes of method. Moreover, various LMD processing nozzles enable quick changes between 3D processing, high deposition rates or filigree structures. The technology package LMD is used with the proven high-powered beam sources TruDisk or TruDiode.



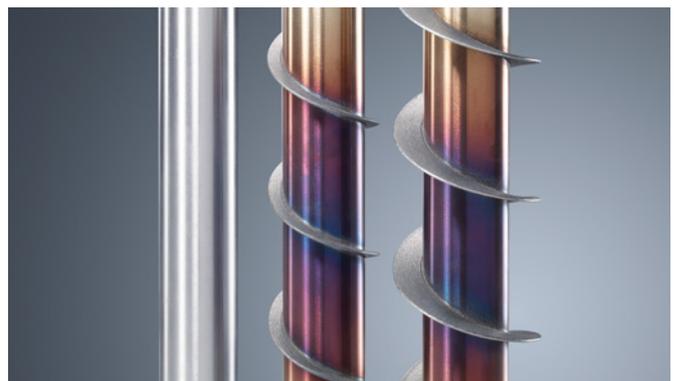
The cutting disks of a maize chopper, coated using LMD.

TruLaser Cell 3000 with LMD package: Your benefits at a glance.

- 1 Highly productive, reliable series machine.
- 2 Flexible use of three proven technologies.
- 3 Additive manufacturing of geometries.

Laser Metal Deposition (LMD).

Additive manufacturing opens up entirely new perspectives. With Laser Metal Deposition, you can take advantage of many of these benefits in your production. The method can be used for coating and repair applications, the generation of complete components, or for joining processes such as the bridging of gaps. It is often economically beneficial to locally reinforce components, e.g. to add a screw-on surface to a tube. You can also combine LMD technology with laser welding or laser cutting. The combination of additive and conventional production methods is also recommended. Thanks to additive cladding, a conventional cast or formed basic structure can be offered economically in diverse variants. Here you can choose from a broad range of materials in powder form, which can be combined with each other as required.



Screw conveyor with additive manufactured screw thread.