

## Trumpf Laser Hardening Manual

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Sumitomo TFPA 5000 ton steel hot forging press

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Forging, Ring Rolling, Open-Die Forging, Hammer Forging-Kihlsteel.se Volvo XC90 - Volvo Cars' steel story Laser Material Processing with Laserline Diode Lasers EN TruLaser Cell 8030 - Now even better TRUMPF TruMatic 7000 Combination Punch Laser with SheetMaster **General Motors-Grand Rapids Stamping Operations Punching tools setup for Trumpf Trumatic punch press machines** Intro to heat treatment of steel (hardening and tempering)

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Gestamp News - Gestamp in CarSymposium (Bochum, Germany, 2/11/16) **TRUMPF punching and punch laser processing : How the tool rotation device works TRUMPF laser systems: TruLaser Cell Series 1000 - Continuous productivity** Lecture 56 : Laser Surface Engineering with Laser surface hardening and laser surface melting **TRUMPF 3D-laser processing: TruLaserCell 8030 - rotary table** Trumpf Laser - TruFlow Resonator

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TRUMPF 3D-lasercutting: TruLaserCell 8030 Laser Hardening Trumpf Laser Hardening Manual

Trumpf Laser Hardening Manual In laser hardening, the skin of a carbon-containing workpiece made from steel or cast iron is heated up to just below the melting temperature - this is generally around 900 to 1400°C. Around 40% of the irradiated power is absorbed. Laser hardening | TRUMPF Laser hardening is the perfect solution for processing ...

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In laser hardening, the skin of a carbon-containing workpiece made from steel or cast iron is heated up to just below the melting temperature – this is generally around 900 to 1400°C. Around 40% of the irradiated power is absorbed. The high temperature causes the carbon atoms in the metal lattice to rearrange (austenitization).

~~Laser hardening | TRUMPF~~

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The low heat input associated with laser hardening predestines this technique for use in the processing of heavy-duty components with complex geometries. By focusing the heat input on specific areas of the component, distortion effects can be minimized.

~~Controlled laser hardening | TRUMPF~~

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The laser The standard equipment of the TLC 1005 includes a CO2 laser of the TLF series by TRUMPF. It is possible to use lasers with laser power between 2000 W and 12000 W. TLF stands for: TRUMPF - Laser - Frequency-excited. Page 146: Targeting Laser

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Laser-hardened bending tool With the technology package you can laser harden the areas of a bending tool that are subject to high stress with a precise temperature. This is standard with TRUMPF bending tool products to increase the service life, whilst also reducing the wear. 1 / 3

## ~~Laser hardening technology package | TRUMPF~~

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laser also enables the processing of irregular, three-dimensional workpieces. Screw conveyor created using laser metal deposition In laser metal deposition (LMD), the laser generates a weld pool on the component surface. Metal powder is ...

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