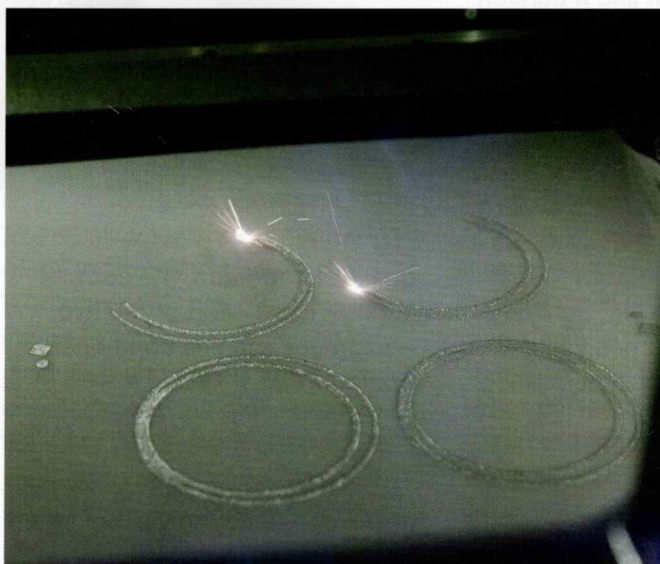


**TRUMPF GmbH + Co. KG,
Ditzingen, Germany**

High-technology company TRUMPF will unveil the latest generation of its TruPrint 3000 medium-format machine at the Formnext additive manufacturing trade fair in Frankfurt. Using powder-bed-based laser melting, the 3D printer can fabricate parts up to 400 millimeters tall and up to 300 millimeters in diameter. Designed to meet the quality and production-line requirements of various industries, the new TruPrint 3000 can process all weldable materials, including steel, titanium and aluminum. One of the most exciting developments is the ability to equip the new TruPrint 3000 with a second laser, which almost doubles its productivity while significantly reducing part costs. Two 500-watt

lasers work in parallel across the machine's entire build chamber. This makes production much faster and more efficient, regardless of the geometry and number of fabricated parts. Where required, each complete contour of even the largest parts can be scanned

by a single laser. This eliminates seams and guarantees optimum part quality. The Automatic Multi-laser Alignment option automatically monitors the lasers during the build stage to ensure they are perfectly aligned with each other at all times.



The new TruPrint 3000 can be equipped with a second laser that almost doubles its productivity (Picture: TRUMPF GmbH + Co. KG, Ditzingen, Germany)



1/ A 3D printed gimbal frame before (top) and after the "Trowalizing" process (Pictures: Walther Trowal GmbH & Co. KG, Haan, Germany)

**Walther Trowal GmbH & Co. KG,
Haan, Germany**

At this year's Formnext Walther Trowal presents the tub vibrator TRT 83/87 for finishing the surface of 3D printed components. Especially for smaller manufacturing batches this mass finishing machine creates very smooth and shiny surface finishes. The AM Post Process mass finishing machines were explicitly developed for the post processing of 3D printed components. They are specifically adapted to the surface roughness conditions created by the additive manufacturing process. For example, stair casting,

support structure remnants and sintered-on powder residues. Contrary to electro-chemical treatment systems the AM Post Process creates smooth and shiny finishes on the surface of components with complex, often bionic, shapes in just one or two process stages. The tub vibrator TRT 83/37, presented by Walther Trowal at the Formnext exhibition, was specifically developed for relatively small manufacturing batches. Generally, one or several work pieces are placed into the processing bowl filled with suitable grinding or polishing media. The vibratory energy induced into the bowl causes not only an intensive rubbing motion, but also creates a considerable pressure between the media and work pieces. Within relatively short cycle times this produces very smooth, homogeneous surface finishes.



2/ A 3D printed blisk segment (top) and after the "Trowalizing" process

The mold & die journal

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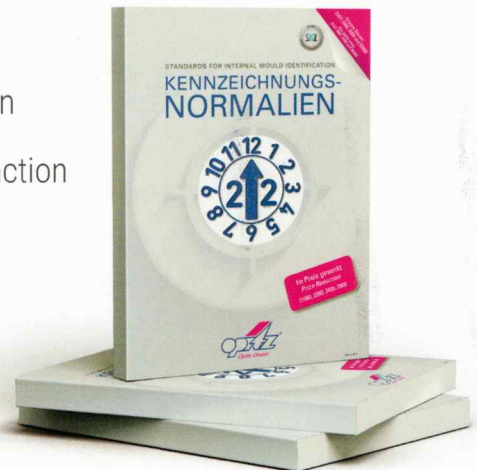
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