

Preform for TruPrint

Hybrid Manufacturing Realized

With the preform option, you can use the highly productive TruPrint 5000 3D printing system for hybrid component production. The use of preform blanks saves time and costs. At the same time, you benefit from the advantages of additive manufacturing.



Reduce parts costs, increase productivity

Combine conventionally produced preform parts with additive manufacturing to produce your components faster and more cost-effectively.



Hybrid series production

You can align the AM component on the conventionally produced mold quickly, repeatably and precisely – even automatically with Preform Advanced.



Cost-effective function integration

With the Preform option, you print only what is necessary, thus creating functional components more cost-effectively.



Simply repair applications

Repair existing geometries easily and sustainably.



Available for
TruPrint 5000



Contact us

Ask your sales contact person for a live demo or get more information via: [Additive Fertigung | TRUMPF](#)

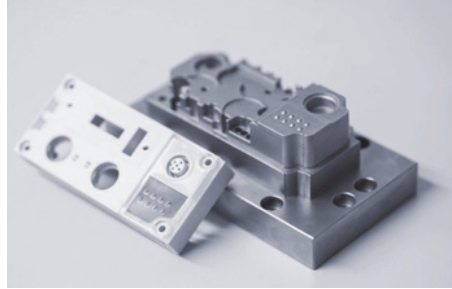


1 Preform Basic

With the Preform Basic option on the TruPrint 5000, you can produce hybrid components with a high degree of flexibility. With the help of sensors and augmented reality, users can quickly align the AM component on the prefabricated conventional base body in the user interface. The workflow is simple – alignment can be checked directly via the camera system. No additional laser exposures are required to verify the alignment. Manual adjustment during file preparation is not necessary.

Advantages

- Flexible and fast solution for prototyping, repairs and small series
- Less effort thanks to a simple workflow
- Cost- and time-efficient production
- High accuracy
- Individual and flexible component production
- Easy removal of components from the building platform

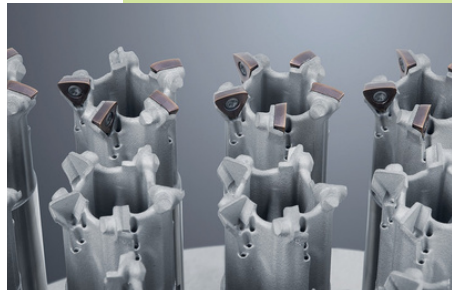


2 Preform Advanced

With the Preform Advanced option on the TruPrint 5000, you can produce hybrid components precisely and reproducibly. In addition to the simple Preform Basic workflow, with the Advanced version you benefit from fully automatic alignment – sensor-based and without user intervention. With the help of a specially developed measuring system, the positioning is calibrated using the working laser on special alignment bodies. The best prerequisite for highly accurate, consistent and reproducible results.

Advantages

- Highly automated, hybrid production of series components
- Cost- and time-efficient workflow
- Very high and repeatable accuracy
- Optimized & automated process chain
- Easy removal of components from the building platform



1 Preform Basic: Less than 5min per part



2 Preform Advanced: Less than 5min per build job



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