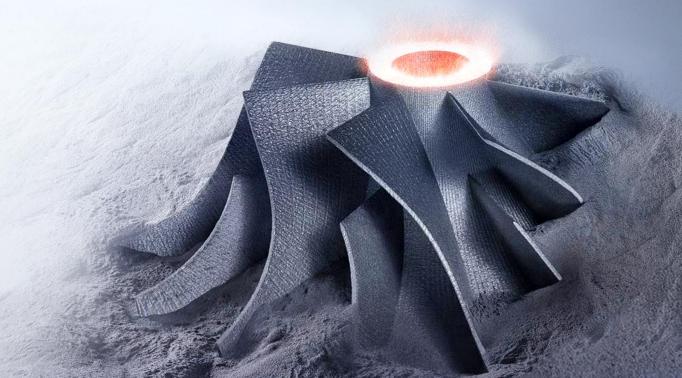


Industrial Additive Technologies –

the additive process chain with Laser Metal Fusion

Steffen Rübling
Application Engineer
Additive Manufacturing
Hannover Messe, 24.04.2018



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... a technology leader







Laser Technology /
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... an independent family company



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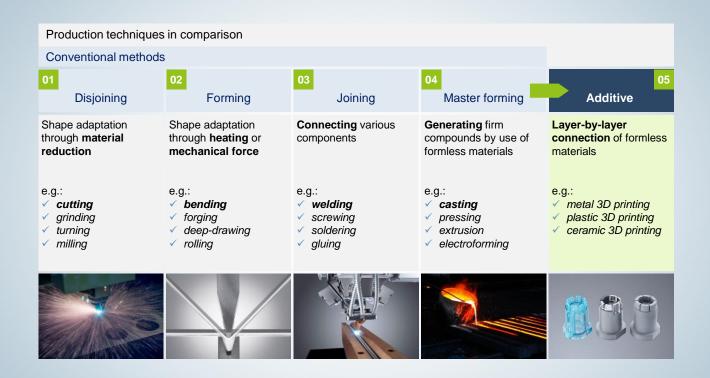


Additive Manufacturing LMD & LMF

Production Techniques in Comparison



Additive manufacturing as an extension to conventional methods

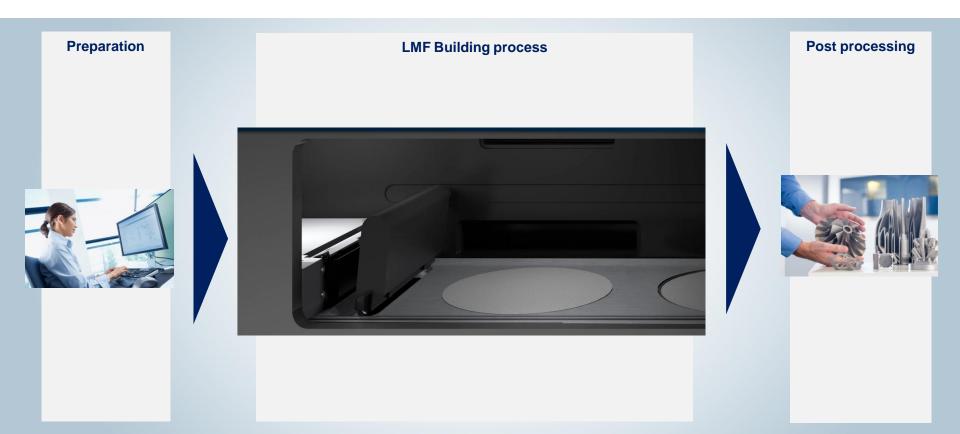


The way to the 3D printed part

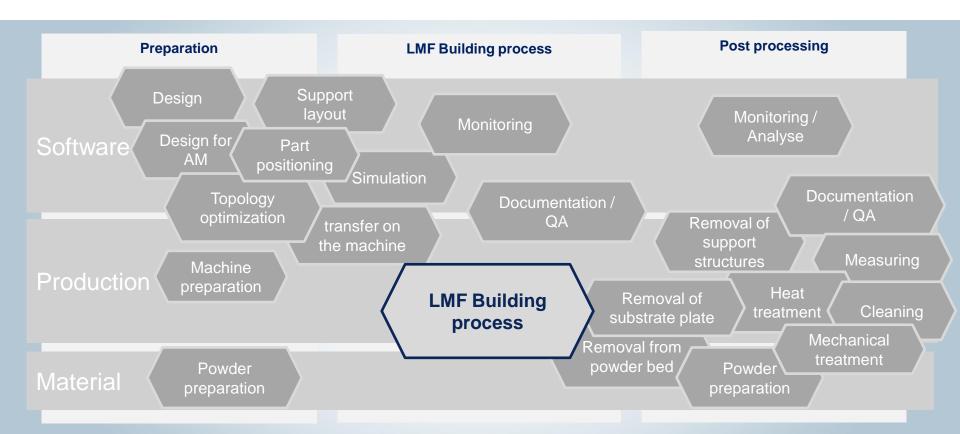








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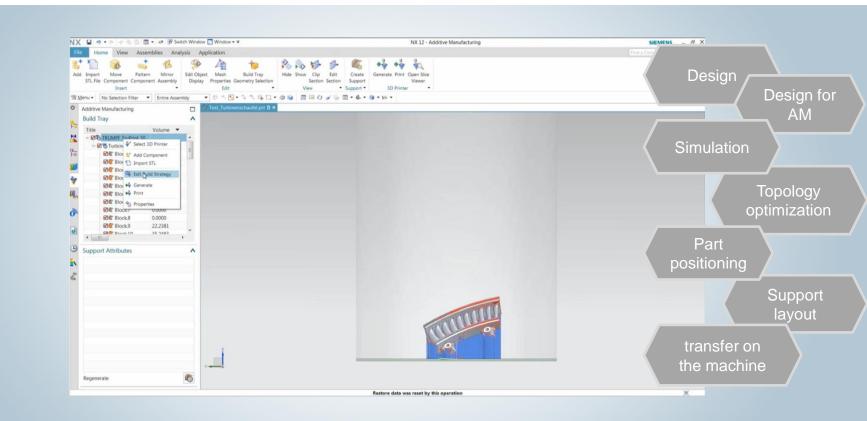


Preparation	LMF Building process	Post processing
Software		
Production		
Material		

Software

TRUMPF

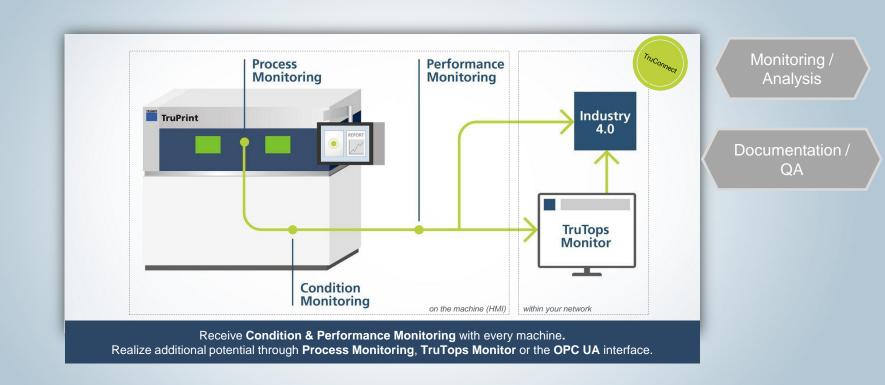
TruTops Print | Siemens NX



Software

TRUMPF

Monitoring & Analysis





Preparation	LMF Building process	Post processing
Software		
Production		
Material		

Production

TruPrint 5000







Preparation	LMF Building process	Post processing
Software		
Production		
Material		

Material

TRUMPF

Industrial Part and Powder Management



Removal from powder bed

Cleaning

Powder preparation

Removal of substrate plate



TRUMPF Industrial Additive Technologies

Product Portfolio



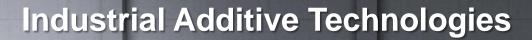


- TruTops Print with Siemens NX Industrial software solution for the entire CAD/CAM/CAE process chain
- TruTops Monitor Industrial monitoring solutions
 - Process Monitoring
 - Performance Monitoring
 - Condition Monitoring
- AXOOM Industrial open platform solution to organize the smart factory
- OPC UA interface to connect customer software suite





- Financing TRUMPF Bank with financial professionals who also understand your business
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