AM Consulting along the entire supply chain

Whether it's about getting started with the technology, identifying and developing suitable parts or optimizing your production - at TRUMPF Additive Manufacturing, you can always count on competent support along the entire AM process chain. Our comprehensive portfolio of training and consulting services, enables you to quickly learn and apply new methods and thus enter the additive manufacturing of your part optimally prepared. Become more economical, more efficient and of higher quality— we support you!
**01 Identify your potentials**

Learn about the Laser Metal Fusion (LMF) technology – also known as Powder Bed Fusion (PBF) – and implement additive manufacturing knowledge in your company. Identify initial applications to understand the potentials of AM parts and create a business case for cost-effective production.

**02 Develop your part**

AM compatible design is mandatory to fully realize the potentials of the technology. Therefore, it is important to know design methods for AM parts and thus to generate AM-compatible solutions. In addition, we provide support for material and powder selection and preparation of build job data. This includes generating the right support structures and, if necessary, the optimization of parameter settings.

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**AM design advantages:**

- integrated flexure joint
- 75 % less parts
- 62 % lower volume
- 10 % lower costs

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**The right support for each of your development phases**

**Individual Consulting**

Safe time and money with expert support

We support you individually in your entry into additive manufacturing. The focus is always on your company and your application. The goal is to provide you with know-how and implement your parts as quickly and efficiently as possible. We manufacture your individual AM part for you to better assess the quality and advantages of the LMF process for your application. The duration and scope of the project will depend on your requirements and will be agreed with you individually. Regardless of whether you want to set up your own production or outsource your production to a service provider – our experts are there for you.

**Sample Part Production**

Get first impressions of your AM part

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We support you in the production of your first sample part in our AM application laboratory, the prototype production up to production on your own machine. Learn about the application and the benefit of the monitoring systems and find out which quality assurance steps are possible to ensure the material properties in additive manufacturing. It is also important to know the correct further post-processing of your part, starting with the appropriate heat treatment, removal of the support structure, up to surface treatment.

Optimize your manufacturing process, together with us. Benefit from the continuous development of machine functions, software, materials and parameters. Learn about the main factors influencing part costs and increase the profitability of your AM production. This is how you successfully produce AM parts in series.

Advantages due to process optimization:
- Better surface quality
- Improved overhang buildability
- Increased build rate

Standardized Training
Deepen your knowledge with our training offers

Our training offers help you to further educate yourself in certain areas. The training courses provide you with the necessary knowledge about LMF technology and is then consolidated by practical applications. We offer training on various topics along the process chain such as part design, data preparation, system operation, monitoring and quality assurance. The training courses take place in our training center in Ditzingen or, if required, online or on-site.
**Individual Consulting**

Support and consulting along the process chain
Days and themes depend on your requirements

- Parameter settings
  - 1 Day
- Application support on-site
  - 2-3 Days
- Quality assurance + Post processing
  - 1 Day

**Standardized Training**

Identify your potentials
Develop your part
Produce your part
Establish and improve your process

- Basics and Part design
  - 2 Days
- Software course
  - Magics
    - 1.5 Days
- Operating course
  - 4.5 Days
- Monitoring
  - 0.5 days
- Software course
  - Build Processor
    - 1.5 Days
- Software course
  - TruTops Print
    - 1 Days

**Establish and improve your process**

- Parameter settings
  - 1 Day
- Application support on-site
  - 2-3 Days
- Quality assurance + Post processing
  - 1 Day

**Satisfied Customers**

"Due to high process reliability of our TRUMPF machines, we were able to optimize the construction parameters for our requirements very quickly together with the TRUMPF experts and thus achieve the required part quality."

**ANDREAS STIHL AG & Co. KG**

"The advantage of TRUMPF Consulting is the holistic way of thinking. Even at the identification stage, the complete process chain is considered, ensuring that all relevant factors for economical production are taken into account."

**RI Research Instruments GmbH**

Contact us: Consulting.AM@TRUMPF.com
For more information, please visit our website: www.trumpf.com/s/am-consulting