

## PRESS RELEASE

### Lighter and better with AM from BW

**Long process times, high production costs and extensive post-processing – these are often the current hurdles of 3D printing. In Hall 12.0 D95 at formnext, the experts at the joint booth “Lightweight Technologies from Baden-Württemberg“ will show how these challenges can be tackled and how one can not only produce components faster, but also optimize them – from functional integration in engineering through precise post-processing afterwards to the production via printing. And where additively manufactured components reach their limits, the companies also have a solution for you.**

One of the most important steps in the field of additive manufacturing is the correct engineering: **CADFEM GmbH** supports developers with their simulation software in the optimization of components, so that less misprints are needed and there is almost no waste, which reduces costs.

#### Getting faster to the finished product

Before the printing process can begin, the question arises which material is the correct one: **Rosswag Engineering** has received a certification from TÜV SÜD as being the first manufacturer of metal powders for additive manufacturing. Thus, thanks to a complete in-house process chain including the powder atomization, a complete AM material qualification can be carried out within a few weeks in order to provide new metal materials according to the particular requirements. The start-up **Q.big 3D GmbH** introduces a self-developed large-scale 3D printer, with which large-volume components can be produced very economically and quickly. The clou: The nozzle diameter can be varied during the printing and granule is used instead of filament. For example, outer surfaces can be printed with a fine nozzle diameter, whereas, for example, the inner structure of a component is printed with a larger diameter in order to save time and thus costs and which can provide more stability in the component. You will find more information here: [www.leichtbau-bw.de/november19en](http://www.leichtbau-bw.de/november19en)

#### Solutions where AM still has its limits

Where tolerances and the surface quality of additively manufactured components are not sufficient, **MiMplus Technologies GmbH & Co. KG** can offer a solution with the MIM process: here, the classical plastic injection molding process is transferred to the world of metals. Metal parts can be injection-molded into components with complex geometries made of different materials. With AddCasting **Schübel GmbH** offers a possibility to manufacture even small series of metal components with complex geometries such as undercut areas at low cost. Instead of a wax, the model component is 3D-printed using plastic. Subsequently, with this model, additional parts of the same geometry can be produced by precision casting – which is much faster than “classic” metal 3D printing and eliminates the need for upstream toolmaking.

The **INPECA GmbH | BÖLLINGER GROUP** manufactures prototypes of components with high complexity – so you can test and optimize new tools faster and shorten the time to market. Often the parts have to be reworked because they are not yet “ready” after the printing process. **Burgmaier Technologies GmbH & Co. KG** combines its process knowledge from the subtractive processing of workpieces with additive manufacturing in order to be able to offer a component from a single source. Due to the precise post-processing of the printed parts, high quality requirements in terms of dimensional accuracy and surfaces are possible. **Fabrikado GmbH** introduces the new version of its revised online shop for metal and plastic parts. There one can easily upload CAD models of components, choose between 3D printing, cutting and machining processes for the production as well as different materials – and instantly get the price calculated at every step.

## Images

*Qbig\_3D\_front spoiler.jpg:*



The start-up Q.big 3D GmbH will show a self-developed large-capacity 3D printer in hall 12.0 D95, with which large-volume components can be produced economically and quickly. The diameter of the printer nozzle can be varied during printing. In addition, instead of expensive filament granule is used.

Source: Q.big 3D GmbH. Reprint free of charge.

*MiMplus.jpg:*

MiMplus Technologies GmbH & Co. KG offers a solution for applications when tolerances and the surface quality of additively manufactured components are not sufficient. The MIM process transfers classic plastic injection molding to the world of metals so that components with complex geometries can be produced in metal injection molding.

Source: MiMplus Technologies GmbH & Co. KG. Reprint free of charge.



*SLM-Pulver\_Rosswag\_Engineering.jpg:*



Rosswag Engineering is the first TÜV SÜD certified manufacturer of metal powders for additive manufacturing. Thanks to a complete in-house process chain including powder atomization, a complete AM material qualification can be carried out within a few weeks.

Source: Rosswag Engineering. Reprint free of

charge.

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