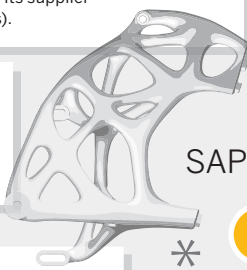# SAP Distributed Manufacturing – Powered by SAP Leonardo

Integrate Additive Manufacturing into the Supply Chain

1 Ordering: Made easy thanks to 3D printing
A company wants to optimize the weight of a component by using additive manufacturing and requests the appropriate design alteration from its supplier (in this case Airbus APWorks).

2 Design: Innovative design
The supplier Airbus APWorks makes use of the wide range of new design possibilities afforded by additive manufacturing to develop an optimized component design.

5 Procurement: All data in one system
When the design of the new component is finished, the customer receives all relevant data straight to their ERP system and can start the procurement process immediately. The component is manufactured by the EOS printer.
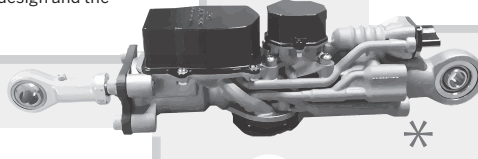
4 Printing: Finding the right parameters
To optimize the component quality and the process, the 3D printing company (here: EOS) is brought in. This company works with Airbus APWorks and Heraeus to identify the optimal printing parameters.

3 Material: The perfect alloy
The material manufacturer (here: Heraeus) adapts the alloy to match the requested material properties and prints samples.

SAP Distributed Manufacturing

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* A product by Airbus APWorks .

Pricing in Seconds

1 What does the component costs?
The customer contacts the supplier (here: MOOG Linear AMS) to enquire about the price of a certain component made of 3D printed metal. The 3D design and the material to be used are recorded.

2 Answer in a click
Through the direct integration with MOOG Linear AMS in SAP Distributed Manufacturing, the customer immediately receives information regarding whether the component can be made and if so, how much it will cost.

4 Quick order
If the customer accepts the quotation, they can order the product immediately thanks to SAP S/4HANA integration – the specifications are taken from SAP Distributed Manufacturing.

3 Service in the cloud
Does the customer have any queries? One of the manufacturer's sales engineers gets in touch straight away and, if necessary, recommends alternative options.

SAP Distributed Manufacturing

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* A product by MOOG Linear AMS.

How can you take full advantage of the opportunities presented by additive manufacturing with 3D printers? The key is creating seamless collaboration between suppliers and design and material producers. A cloud-based application for collaboration connects all processes – from quotation and purchasing to material selection and product design.

At the SAP exhibition booth, you can learn how to optimize your product using 3D printing and reduce the size of your spare parts inventory for the long term within a business network of specialist partners.

- Make use of the available expertise and capacity with the chance to scale up or down
- Exploit the potential of additive manufacturing without having to develop your own expert knowledge
- Reduce manufacturing, warehousing, logistics, and operating costs
- Integrate 3D-printed components into the value chain with ease

- Connect a wide range of processes, including quotation, purchasing, specification, design, manufacturing, logistics, and invoicing
- Ensure quick delivery, even at small quantities
- Prevent supply bottlenecks and downtime caused by faulty parts

These showcases are a co-innovation by:
- Airbus APWorks
- EOS
- Heraeus
- MOOG Linear AMS