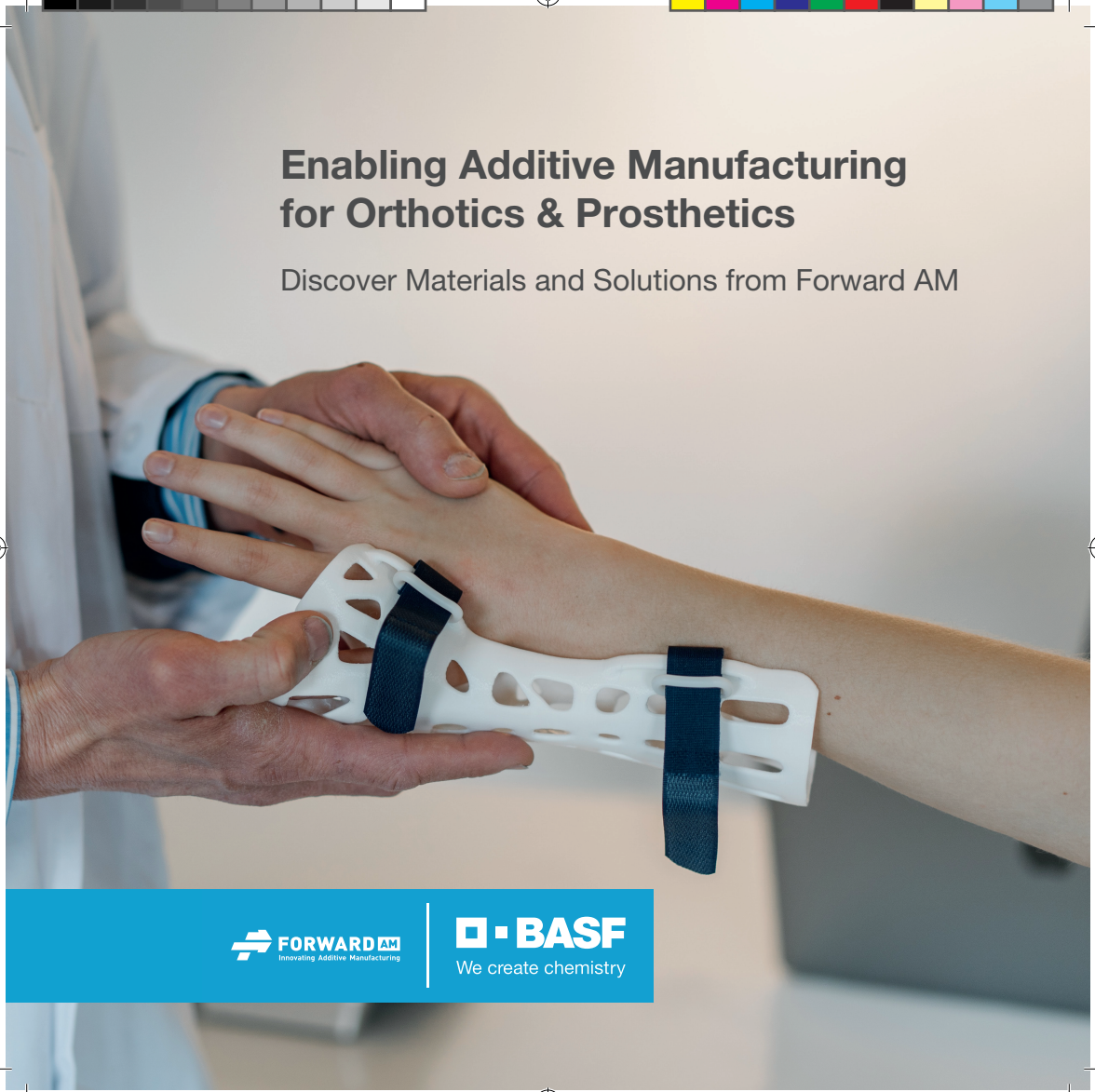
Enabling Additive Manufacturing for Orthotics & Prosthetics

Discover Materials and Solutions from Forward AM



FORWARD AM
Innovating Additive Manufacturing

BASF
We create chemistry

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They already trusted us:

SPENTYS
REINVENTING ORTHOPEDICS

HODEY
Der Spezialist für Rehabilitation · Orthopädie · Pflege

hp

INVENT
MEDICAL

PROTEOR

Additive Manufacturing and O&P share a multitude of common traits – individuality, reliability, adaptability.

Innovators in orthotics and prosthetics are increasingly thinking additive. Together with disruptive start-ups and major industry leaders we have realized projects that shape the future of patient care.

3D printing on industrial scale is at your fingertips. Let's make unprecedented comfort and radically new ways of manufacturing a reality – for both patients and O&P professionals.

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Prosthetic cover

Material: Ultrasint® TPU01 / Ultrasint® PA11
Technology: Multi Jet Fusion

Caring Craftmanship

Orthotics and prosthetics embody true craftmanship.
Combining these manual skillsets with Additive Manufacturing opens up new possibilities – such as almost limitless individualization options, significantly improved patient comfort, on-demand and on-site manufacturing at the point-of-care.

Leveraging Additive Manufacturing brings together the best of both worlds.

Arm orthosis

Material: Ultracur3D® RG 35
Technology: Digital Light Processing

At Forward AM, we drive the industrialization of Additive Manufacturing. We accompany customers from first idea to final printed part - on global scale, at highest quality.

We have established a global network of printing service providers to manufacture your 3D printed orthopedic devices. With the French printing service provider Sculpteo as part of Forward AM we have direct access to industrial-scale printing capacities covering the technologies Selective Laser Sintering, Multi Jet Fusion, Fused Filament Fabrication and Digital Light Processing.

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Additive Manufacturing holds tremendous potential for orthotic and prosthetic applications.

For patients

- new level of individualization
- unprecedented comfort
- faster availability of their O&P device
- reduced need for adaptation of their O&P device

For O&P professionals

- almost unlimited design freedom
- utilization of lattice structures, unique to Additive Manufacturing
- on-demand production reducing costly warehousing
- cost-efficient and flexible production of patient-specific devices

Quality and reliability – of utmost importance for O&P. And for us.

Orthopedic devices contribute to an improved quality of life, to independency and to self-determination. Replacing a part of the human body, complete ease of mind and material compatibility are essential. As material supplier, we at Forward AM have invested in testing selected materials for biocompatibility according to ISO 10993 (cytotoxicity, skin irritation, skin sensitization). In addition, we advise and support our customers in assessing their final orthopedic devices.

Our material portfolio carries polymer powders, filaments and photopolymers for all major 3D printing technologies. Ranging from rigid to robust and flexible materials, we have the right material in store for a vast array of orthopedic devices. Post-processing techniques such as surface smoothing, coating or drilling are easily possible - as well as smooth integration in established O&P workflows.

Please note that Forward AM is not supplying medical-grade materials. The risk assessment of the final printed part lies within the obligation of the manufacturer.

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Forward AM is in a unique position in the Additive Manufacturing industry. With our powerful ties to BASF, we have unparalleled access to raw materials in highest quality – and a strong backbone.

We are your one-stop-shop for Additive Manufacturing:

- one of the largest portfolios of high-performance materials across all major 3D printing technologies
- deep expertise in simulation and post-processing techniques
- a global network of trusted printing service providers

Let's talk!

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Sources pictures: Proteo, Spentys, Forward AM

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