

AUSSTELLER PRODUKTINFORMATIONEN

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International exhibition and conference
on the next generation of
manufacturing technologies
Frankfurt am Main, 15.–18.11.2016

EXHIBITORS PRODUCT INFORMATION

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International exhibition and conference
on the next generation of
manufacturing technologies
Frankfurt, Germany,
15 – 18 November 2016

Stand: 09.11.2016
As by: 9 November 2016

Firma/Company

Messe/Exhibition

formnext 2016

Adresse/Address

Halle/Hall

Telephone/Fax

Stand Nr./Stand No.

Ansprechpartner Presse/
Responsible for Press

eMail-Anschrift/
eMail-Address

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt

Erstpräsentation/
first-time presentation

Produktbezeichnung/product description

Mesago stellt die Produktinformationen der Aussteller der formnext 2016 zur Verfügung.

Die einzelnen Informationsbeiträge werden keiner inhaltlichen Prüfung unterzogen. Verantwortlich für den Inhalt ist der jeweilige "Ansprechpartner Presse" des Ausstellers.

Mesago provides product information of the exhibitors of formnext 2016.

The contributions of the exhibitors have not been reviewed by Mesago. The person in charge of the content of the text is stated as "Responsible for Press" by the exhibitor.

Firma/Company	3DCeram SAS	Messe/Exhibition	formnext 2016
Adresse/Address	27 rue du petit Theil 87280 Limoges	Halle/Hall	3.1
Telephone/Fax	33640152468 /	Stand Nr./Stand No.	3.1-J21
Ansprechpartner Presse/ Responsible for Press	Gaignon	E-Mail-Anschrift/ E-Mail-Address	richard.gaignon@3dceram.com

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **31.08.2016**

Produktbezeichnung/product description

CERMAKER industrial 3D printer dedicated to ceramic

The CERMAKER 3D printer was developed by 3DCERAM which markets it for several years. Based on SLA technology, it is suitable for the production of ceramic functional parts (single pieces or small series) which exhibit the same properties as those produced by conventional methods. Thanks to the large size of its platform (300mmx300mm) it allows to produce parts up to 20 cm in length. The printer resolution is 30 μm regardless of the working area size. The Link Free Support technology allows to produce parts with no connection between the supports and the parts. 3DCeram, which produces parts with 3d printing for over 10 years, uses CERMAKER printers for its on demand production service. The company also offers ceramic pastes and slurries, equipment (cleaning stalls, debinding and sintering kilns) to create a complete production line and services to help customers produce their first parts.

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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **31.08.2016**

Produktbezeichnung/product description

3DMIX ceramic pastes and slurries for 3D printing

3DCeram is launching a new range of ceramic slurries that fits a selection of approved 3D printers developed by partners. These slurries make the cleaning of the green part faster and consumption of ceramic suspension lower it also enables an easier filtering of uncured suspension. This offer enables customers to learn how to design parts and to understand the codes of 3D printing ceramic quickly. The new ceramic slurries completes the 3DMIX range composed of pastes dedicated to CERAMAKER 3D printers and custom formulation services. This service offers to characterize ceramics proposed by the client, formulate it and define the printing and sintering settings to obtain the requested properties. 3DCERAM offers on demand 3D printing production service, Ceramaker 3D printers, 3DMix ceramic feedstock. The company also offers training service and a hotline.

Firma/Company	3Dealise	Messe/Exhibition	formnext 2016
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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **31.08.2016**

Produktbezeichnung/product description

3D Sand Printing

3D sand printing is a revolution in the foundry industry. For the first time in history, sand moulds can be produced directly from the design, jumping the entire pattern making process step. Omitting one step of a three step process is significant in itself, but even more significant is the geometric 'freedom of design' enabled by the new technology. Draft angles are no longer relevant, unlocking a whole universe of new design possibilities. Our 3D sand printing service uses one of the largest and fastest printers currently available, which prints the size of a phone box (1800 x 1000 x 700 mm) every 24 hours. Mould parts can be stacked like Lego to create larger items, for example moulds for pump impellers of Ø2800 x 600mm and weighing 3 tons. The lead time for a sand print is typically a few days, and can be as little as 24 hours.

Firma/Company	Additive Industries b.v.	Messe/Exhibition	formnext 2016
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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **20.09.2016**

Produktbezeichnung/product description

MetalFAB1 is the first integrated metal additive manufacturing machine

MetalFAB1 is the first integrated metal additive manufacturing system designed for high end industrial applications in demanding markets like aerospace, medical, high tech equipment, tooling and automotive. Besides the 3D print process also stress relief heat treatment, automated build plate handling and storage are integrated in one industrial grade production system. MetalFAB1 has a modular architecture. This allows the user to start with a basic machine configuration with the option to enlarge the scope of the process enabling increased productivity. Moreover, modules can be added to allow the use of multiple materials in one machine without having to clean the powder system and running the risk of cross-contamination. Additive Industries believes strongly in an integrated process flow for industrial additive manufacturing. Multiple process steps are combined in one machine using automated handling to reduce manual labour, improve product consistency and quality as well as increasing operator safety. A robot connects all process steps and allows for fully automated handling of both new build plates and ready products.

Firma/Company	AICON 3D Systems GmbH	Messe/Exhibition	formnext 2016
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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **29.08.2016**

Produktbezeichnung/product description

PrimeScan

With the new scanner line PrimeScan, AICON 3D Systems provides an attractive entry-level solution for highly precise 3D digitization of industrial components. The PrimeScan is an entirely new development. The PrimeScan has a compact design: the base area equals a DIN A4 sheet, and the scanner weighs about 4 kg only. The working distance is short. Thus, it is suitable as desktop solution and for applications under cramped spatial conditions in industrial surroundings. Measuring fields between 50 mm and 1000 mm are available. Depending on the required resolution and precision, different camera resolutions are on-hand: two, five or eight megapixel. Altogether, 24 fixed configurations are available – exactly the right solution for every measuring task. The PrimeScan is equipped with either blue-light-technology or white-light-technology. The particularly powerful projector allows for the scanning of glossy and dark surfaces without pretreatment.

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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **29.08.2016**

Produktbezeichnung/product description

StereoScan neo

"See What You Measure" – AICON enters into a new dimension of fringe projection. Using the SWYM technology, it is now possible for the first time to visualize the results of a measurement directly on the object. The adaptive full color projection technique enables projection not only of the color patterns, which are necessary for the scanning process onto the object, but also of the generated measurement results. This, for instance, allows for the deviations from the CAD to be visualized in color immediately following the measurement on the surface of the scanned object. This procedure provides the user with totally new possibilities during the work-flow. In the tooling and molding industry or in the context of model making, deviations of the component surface can be measured and visualized quickly and precisely by using the SWYM technology. Based on the projected deviation images, corrections on the object can be made promptly and on site.

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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **29.08.2016**

Produktbezeichnung/product description

PartInspect M

For fast digitization, the PartInspect M comes with the own measuring chamber: The 3D scanner captures the measuring objects inside an enclosed housing. Therefore, the PartInspect M can be used at any user-defined location: in the production, in the laboratory or directly at the designer's workplace. The integrated turn-tilt unit provides fully automated digitization without any user's intervention. The white light scanner digitizes even complex surfaces completely and precise to detail. Irrespective of material (plastic, metal, composite material, etc.) or surface property, the system delivers high-precision 3D data. The contact-free scanning process even captures fragile or deformable objects (e.g. made of modelling clay or ceramic) quickly and at the required level of accuracy. Inspection of small batch series, random sample checks, reverse engineering or component measurements are typical application areas of the PartInspect M.

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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **12.08.2016**

Produktbezeichnung/product description

Freeformer

At formnext 2016, three Freeformers will demonstrate the potential of the industrial additive manufacturing of functional plastic parts. With this innovative system, one-off parts and small-volume batches can be efficiently produced from qualified standard granulate without requiring a mould. With Arburg Plastic Freeforming (AKF), inexpensive, conventional plastic granulates are the base material – one of the advantages compared to other additive manufacturing processes. The Freeformer is equipped with a three-axis part carrier and two stationary discharge units. Therefore, it can process two components at the same time. This means, for example, that parts can be produced in different colours, with special tactile qualities, or as a hard/soft combination. As an alternative, the second discharge unit of the Freeformer can be used to build up structures from a special support material. This makes it possible to achieve unusual or very complex part geometries.

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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **08.11.2016**

Produktbezeichnung/product description

atum3D Product Information

PRODUCTS Our products are comprised of hardware, software and resins, which are integrated to fit your needs. Based on the assessment of your requirements and infrastructure, atum3D combines our product building blocks to design the optimal solution for you, applying our in-depth knowledge and years of experience. With atum3D, it's possible to create ready-to-use components, thanks to our integral manufacturing line.

HARDWARE The first DLP Machine for both R&D and production Features include:

- Unparalleled tolerance levels – a round opening is truly round
- Fast, with high resolution – DLP market leading manufacturing speeds
- Cost effective – low investment and running costs
- Large build platform – combine many smaller components in a single run
- Interchangeable resin tray – proprietary tray design holds any resin
- Integral manufacturing line options – push start and forget
- Industrial grade – all hardware is designed to last consumables replacement is fast and easy

SOFTWARE Operator software | Firmware

- Automatic support generation – proprietary feature adds supports to component model
- One-to-many management – operate a grid of multiple machines from a single workstation

RESINS Wide range of resins with diverse properties

- Open platform – resin tray and hardware allow using any available resin
- Technical plastics – Similar to ABS, PU and many more plastic alternatives
- Biocompatible – resins certified for medical/dental use

SERVICES

Firma/Company	BigRep GmbH	Messe/Exhibition	formnext 2016
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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **05.09.2016**

Produktbezeichnung/product description

BigRep GmbH

BigRep is... ..the developer and manufacturer of the world's largest serial 3D printer. Profile: BigRep is the market and technological leader for large-scale serial 3D printing, aiming to revolutionize design, prototyping, and industrial production from the core. With a volume of more than 1m³, the BigRep ONE is the largest FFF (Fused Filament Fabrication) printer currently available on the world market, thus bridging the gap between 3D printers designed for modelling and industrial use. Thanks to the innovative extruder system and the revised spool holder, which can hold up to 10 kilograms of spools, the new third generation of the BigRep ONE is able to print large-sized objects up to 4x faster. The ever-growing BigRep team is mainly composed of mechanical engineers, whom not only contribute a significant part to the emergence of the "mechanical engineer of the future", but whom also work with passion to bring about the next industrial revolution. Management: René Gurka (CEO) Stephan Beyer (CFO)

Firma/Company	botspot GmbH	Messe/Exhibition	formnext 2016
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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **31.08.2016**

Produktbezeichnung/product description

Fullbody 3D Scanner

Humans, animals, objects, machines – there is nothing botspot's full body scanner could not scan. One scan takes less than 1/100th of a second, converting the collected data into a highly detailed, true digital double. This makes botspot's 3D scanner one of the fastest and best in the world. Thoroughly developed photogrammetric technology is the secret behind the excellent results, working touchless, fast and absolutely safe. No need for lasers! Berlin based botspot GmbH ranks among the leading international specialists for professional 3D scanners. botspot builds 3D scanners for many different applications and for all imaginable object sizes. Everything is possible. You can scan one single hair of a beard in order to develop the perfect razor, or you can monitor the production line of a car manufacturer. botspot 3D scanners generate pin sharp scans and render even the tiniest details. botspot's 3D scanners are being used worldwide. With the help of botspot's technology, international 3D specialists print out 3D objects, create animated characters for computer games or movies and benefit from many more applications. car industry, medical prosthetics, home appliances... The Botspot 3D scanner technology will significantly influence industrial production in the future. - Complete production processes can be quickly controlled and measured in 3D. - 3D-animations for the computer game- and movie industry can be created in a cheaper, quicker and better way than with the "old school" methods... - Cosmetic surgery: possible changes can be shown to the patient in realistic 3D before the actual surgery takes place. Prothesis can be adapted (and printed out) individually. – Car tires : With the help of botspot scanning technology, new tire profiles can be developed. - Skin cancer screening: 3D full body scans can be combined with analytical methods for detection of potential melanom

Firma/Company	Dassault Systemes Spatial Corp.	Messe/Exhibition	formnext 2016
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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **25.08.2016**

Produktbezeichnung/product description

3D MODELING SOLUTIONS FOR DEVELOPERS

Dassault Systemes Spatial is the 3D modeling company. 3D modeling is the core of what we do. Whether you are supplying 3D modeling software as a stand-alone solution, or as a value-add for your products, DS Spatial's robust 3D modeling engine, data translation, and visualization solutions allow you to focus on your IP and accelerate your time to market. By leveraging 3D software development toolkits from DS Spatial, application developers can focus their efforts on building key differentiation from competitors. Using DS Spatial software development toolkits results in greater quality, reduced costs, and accelerated time-to-market.

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Ansprechpartner Presse/ Responsible for Press	Antonio Grieco	E-Mail-Anschrift/ E-Mail-Address	marketing@egsolutions.com

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **13.10.2016**

Produktbezeichnung/product description

DScan

Structured light 3D scanners for the dental industry with Blue LED technology which allows faster and more accurate scanning. Designed for scanning all kinds of dental models, dies, impressions and verticulator, ensuring accuracy and reliability. Following its main features: - High Accuracy Up to 0.015 mm accuracy, tested in a metrological environment. - Customizable Acquisition Strategies Arches, dies, bridges, antagonists, wax-ups, impressions, implants. - Maximum Reliability High quality mechanical and electronic components. - Automatic Calibration Thanks to its special plate, axes and optics calibration is automatic in just 5 minutes. - Plug&Play Supplied with DentalCad software and an integrated PC already installed, DScan is fully Plug&Play. Only a monitor and a mouse are required to use the scanner. - Open System Datasets can be exported in open formats, which can be read using any CAD/CAM system. - Compact Size Thanks to its reduced size and weight, DScan can fit in any laboratory.

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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **13.10.2016**

Produktbezeichnung/product description

JScan

JScan is an extremely precise and high-performance scanner, simple and intuitive. The high accuracy of JScan and its technical features allow the perfect acquisition of objects such as buckles, heels, precious stones and small objects with complex and/or semi-reflective surfaces, thanks to its specific geometrical arrangement of the optics. Following its main features: - High Accuracy Up to 0.015 mm accuracy, tested in a metrological environment. - Maximum Reliability High quality mechanical and electronic components. - Automatic Calibration Thanks to its special plate, axes and optics calibration is automatic in just 5 minutes. - Plug&Play Supplied with Leios software and an integrated PC already installed, JScan is fully Plug&Play. Only a monitor and a mouse are required to use the scanner. - Open System Datasets can be exported in open formats, which can be read using any CAD/CAM system. - Compact Size Thanks to its reduced size and weight, JScan can fit in any laboratory.

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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **13.10.2016**

Produktbezeichnung/product description

DentalCAD

Software for dental laboratory dedicated to to design and modeling. Based on a customizable and easy to use proprietary technology. It is at the top of the class for functionality and accuracy. DentalCAD features a series of automatic tools able to suggest to the user an optimized result of operations used in the workflow. Following its main features: - Powerful Complete wax-up management Customizable anatomic and implant libraries Preset shapes for connectors generation Automatic margin line detection Mirror management - Easy to Use Step by step workflow Wizard interface Autosave - DSS Integration Direct import of Digital Smile System projects (libraries, shapes and real measurements) Aided 3D modeling with lips references Mockup workflow.

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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **13.10.2016**

Produktbezeichnung/product description

Leios

Simple and reliable software for processing 3D scans, mesh editing and reverse engineering. Leios provides an easy road, fast, powerful and convenient to go from 3D scanner to CAD, facilitating the development of 3D scans and editing of triangular meshes. With Leios you can capture data from any type of 3D scanner, to transform the point cloud into a NURBS mathematical model in a fast and easy way with complete control of each step and to analyze the results with powerful monitoring tools. Following its main features: - Streamlined Workflow Scan Data Mesh Elaboration Mesh modeling Reconstruction by Fitting Surfacing and Inspection Export - Hardware Optimization Leios is optimized for the latest cutting edge technology the market provides. - Faster Time-to-Market Approach Wizard approach dramatically shortens time to market, providing one-click functions for the most common uses. - Scanner Integration Direct integration with the most popular 3D scanners on the market with dedicated tools allow a rapid optimization of point clouds and meshes and full support for textures and huge raw datasets. - Sculpting Tools Direct sculpting on mesh for prototyping, archiving and improvement.

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PRODUKTINFORMATION/PRODUCT INFORMATION

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date of receipt **13.10.2016**

Produktbezeichnung/product description

Digital Smile System - DSS

Digital Smile System (DSS) is a software that allows dentists and technicians to realize the digital project of the aesthetical and functional smile rehabilitation through simple and automatic tools. Thanks to Digital Smile System, using a guided and intuitive path, the dentist will be able to present to the patient the preview of the prosthetic result and to provide the dental technician with all the necessary information for executing the job. Following its main features: - Pictures Automatic Alignment Thanks to the pictures automatic alignment system, it is possible to align frontal and intraoral pictures of the patient with just 2 clicks. - Measure System in mm The simplicity of the system calibration is allowed by the algorithm which converts pixels in millimetres with just 2 clicks. - Custom Calibration System It is possible to calibrate the system even without the eyewear starting from a known measurement. - PDF Project Report DSS records every step of the project, in the end of the workflow it draws up a PDF report with all pictures and actions realized by the operator. - Trial of Virtual Waxup on the Patient's Face The operator will be able to align waxup with patient's face in order to realize the mockup. Direct integration with Digital Smile System (DSS) software allows to import the rehabilitation project in a CAD environment and to realize the mockup in order to use it as reference for the final project realization. This feature's advantages are clear not only for dentists and dental technicians, who gets a

Firma/Company	EOS GmbH Electro Optical Systems	Messe/Exhibition	formnext 2016
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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **30.08.2016**

Produktbezeichnung/product description

Systems & Solutions for Additiv Manufacturing

EOS offers solutions to meet complex challenges in industrial 3D Printing / Additive Manufacturing that are geared towards specific industries and customers. The EOS solution portfolio is modular in structure, its elements are perfectly harmonised and can be combined according to needs. In addition to systems for Additive Manufacturing, the EOS solution portfolio comprises a wide range of materials, software and processes as well as extensive services and supplementary products.

Firma/Company	Farleygreene Ltd	Messe/Exhibition	formnext 2016
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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **31.08.2016**

Produktbezeichnung/product description

Sievgen 400-US

Sievgen 400-US - Farleygreene presents the next generation of AM sieving and powder handling:

- Highly automated - Intuitive touchscreen • User friendly – Onscreen instruction
- manual, tool free servicing • High throughput - Ultrasonics on both mesh and hopper • Full process inert atmosphere – monitored • Integrated conveying – all in one solution • Optimised process settings – Preprogramed for different materials • ATEX rated

Having taken the successes from previous projects Farleygreene has incorporated them into one ergonomic and simple to use package. It has been designed in keeping with the type of high end process production areas where it will be used, but also ensuring that the prime function of the system is not compromised in any way.

Firma/Company	Farleygreene Ltd	Messe/Exhibition	formnext 2016
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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **31.08.2016**

Produktbezeichnung/product description

Sievgen Design Service

Sievgen Design Service – Bringing next generation sieving to your plant. If you are looking to install the next generation sieving system, whether it be for a small service bureau or a large production facility then we can help you design and install to your exact requirements. We know we can do this, because we have • 40 years of sieve innovation – now specialising in the AM market • Innovation through partnership - we work with you, not just for you •

Engineering passion – we are obsessive about our machinery • Certified solutions - ATEX ratings, ISO 9001

Firma/Company	Hangzhou Shining 3D Tech Co., Ltd	Messe/Exhibition	formnext 2016
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Telephone/Fax	15372092005 /	Stand Nr./Stand No.	3.1-K29
Ansprechpartner Presse/ Responsible for Press	Alice Lee	E-Mail-Anschrift/ E-Mail-Address	lipingping@shining3d.com

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt 19.10.2016

Produktbezeichnung/product description

The EinScan-Pro Multi-Functional Handheld 3D Scanner

The handheld 3D scanner for all your needs The EinScan-Pro is your best choice for capturing real world data to convert into a digital 3D model. It can be used for consumer and commercial applications in manufacturing, engineering, design, development, testing, artwork archival, animation and even human form acquisition. The EinScan-Pro 3D scanner allows you to use physical objects to better conceptualize an idea or create a starting point for modeling in CAD (Computer Aided Design). The EinScan-Pro can capture textured and colored objects ranging in size from 0.03mm (.001in) up to 4 meters (13ft). The EinScan-Pro's comfortable, ergonomic design makes it the perfect choice for extensive, long-lasting projects. Weighing only 0.8kg (1.76lbs.) this light, handheld portable scanner can often create more-accurate and better-fitting parts when compared with from-scratch models from a CAD system. The EinScan-Pro scanning software allows users to create "open" models for reverse engineering in a CAD system or it can create "closed" watertight models that are ideal for 3D printing. Four Mode Scanning Versatility The EinScan-Pro multi-functional 3D scanner offers both portability and accuracy because of its four versatile scanning modes: Handheld rapid scan, Handheld HD scan, Automatic scan, and Free scan. An add-on Industrial Pack enables automatic scanning by matching the EinScan-Pro with a fully-automatic turntable or users can enable Free scanning by fixing the scan head to the tripod. Handheld HD Scan Handheld Rapid Scan Handheld HD Scan Automatic Scan No Scan Limits The EinScan-Pro includes accessories for good color texture capture for objects ranging in size from 0.03mm (.001in) up to 4 meters (13ft). Handheld 3D Scan The EinScan-Pro multi-functional 3D scanner offers both portability and high-accuracy because of

Firma/Company	Heraeus Deutschland GmbH & Co. KG	Messe/Exhibition	formnext 2016
Adresse/Address	Heraeusstr. 12-14 63450 Hanau	Halle/Hall	3.1
Telephone/Fax	06181-355706 /	Stand Nr./Stand No.	3.1-C20
Ansprechpartner Presse/ Responsible for Press	Dr. Jörg Wetterau	E-Mail-Anschrift/ E-Mail-Address	joerg.wetterau@heraeus.com

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **08.11.2016**

Produktbezeichnung/product description

Complex design of amorphous metals possible for the first time through additive manufacturing

Heraeus demonstrates additive manufacturing with amorphous metals for the first time. Amorphous metals are an innovative class of materials that make completely new high-tech applications possible. In addition, the technology group is expanding its portfolio of high-melting-point high-tech materials for 3D printing by introducing twelve new high-quality metal powders with improved flow properties. Tungsten and gold are among the elements included in the newly developed metal powders and special alloys. Thanks to additive manufacturing, bulk amorphous metals with new design possibilities will for the first time be broadly accessible to a mass market – in their long-awaited use as a structural material and in the near net shape manufacturing of high-strength components with complex geometries and sophisticated designs. Amorphous metals are shock-absorbing and scratch-proof, while still having very good elastic properties – making them an attractive option for injectors or casings for consumer electronics.

Firma/Company	Höganäs AB	Messe/Exhibition	formnext 2016
Adresse/Address	Bruksgatan 35 26383 Höganäs	Halle/Hall	3.1
Telephone/Fax	+46 42 33 80 00 /	Stand Nr./Stand No.	3.1-J11
Ansprechpartner Presse/ Responsible for Press		E-Mail-Anschrift/ E-Mail-Address	digitalmetal@hoganas.com

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **30.08.2016**

Produktbezeichnung/product description

Höganäs Digital Metal® 3D metal printing

Höganäs with its 3D printing technology, Digital Metal®, print in two different alloys of stainless steel - the 316L and the much harder 17-4PH. 17-4 PH enables production of components with high strength and hardness. The material is a hardening grade exhibiting considerably higher strength compared to the more commonly used austenitic 316L. As Höganäs always strive to be in the forefront, more materials to be used with their Digital Metal technology are under development. Next in line is titanium and copper.

Firma/Company	Insstek, Inc.	Messe/Exhibition	formnext 2016
Adresse/Address	Sinseong-ro154 Yuseong-gu 34109 Daejeon	Halle/Hall	3.1
Telephone/Fax	8,21023E+11 / +82 42 935 9649	Stand Nr./Stand No.	3.1-K69
Ansprechpartner Presse/ Responsible for Press	Eunhee	E-Mail-Anschrift/ E-Mail-Address	eunhee.park@insstek.com

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **01.09.2016**

Produktbezeichnung/product description

InssTek launches the world's first DED type 'Desktop Metal 3D Printer' at Formnext

InssTek, Inc. (www.insstek.com), which develops and produces metal 3D printers in South Korea, said they will unveil a desktop metal 3D printer, 'MX-Mini', to the Formnext exhibition in this Nov. The metal 3D desktop printer is a Directed Energy Deposition (DED) system that minimized the size & weight and maximized the work envelope. Also, the system is a Compact Model that has the same control algorithm and economic feasibility as the existing metal 3D printers in InssTek, Inc. 'MX-Mini', the desktop metal 3D printer, is developed for R&D and educational purposes. The system will be also practically utilized to apply it to industries such as aerospace and electric electronic in the future. Multi-materials can also be applied to the MX-mini in the same way and printed parts can have excellent mechanical properties compared to original components or specimens produced by conventional way such as casting, alloy forgings, and powder bed fusion. The below are major specifications of the system. - Work Envelope: 200 x 200 x 200 (mm) - Exterior size : 800 x 800 x 1200 (mm) - Weight : 300kg MX-Mini will make its first appearance at the Formnext 2016 from 15 – 18 November. Before that, Customer can place a pre-order through InssTek website (www.insstek.com) from October.

Firma/Company	Kegelmann Technik GmbH	Messe/Exhibition	formnext 2016
Adresse/Address	Gutenbergstr. 15 63110 Rodgau	Halle/Hall	3.1
Telephone/Fax	06106 8507 88 / 06106 8507 55	Stand Nr./Stand No.	3.1-D50
Ansprechpartner Presse/ Responsible for Press	Johanna Krimm	E-Mail-Anschrift/ E-Mail-Address	jkrimm@ktechnik.de

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **29.08.2016**

Produktbezeichnung/product description

Connected Prototyping

For more than 25 years Kegelmann Technik has been in the lead when it comes to the additive manufacturing of models, prototypes, tools and products. During the whole process starting with construction and design over to modelling and the close-to-series prototyping we are focussing 100% on process quality, flexibility and speed. The enormous range of innovative manufacturing technologies connected with the knowledge of our employees gives our customer two unique advantages: On the one hand the security that on every step of the product development process from your first idea up to series-closeness we will choose the best methods regarding quality, cost and utility. On the other hand the chances and possibilities which you will gain through the endless opportunity of combining our different manufacturing techniques.

Firma/Company	Lithoz GmbH	Messe/Exhibition	formnext 2016
Adresse/Address	Mollardgasse 85a/2/64-69 1060 Wien	Halle/Hall	3.1
Telephone/Fax	+43 1 934 6612 210 /	Stand Nr./Stand No.	3.1-H72
Ansprechpartner Presse/ Responsible for Press	Jasmin Wärter	E-Mail-Anschrift/ E-Mail-Address	jwaerter@lithoz.com

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **30.08.2016**

Produktbezeichnung/product description

Additive Manufacturing Systems for the Production of high-performance Ceramics

Lithoz provides industry and research with additive manufacturing systems for the production of high-performance ceramics. Lithoz CeraFab systems are reliable and user-friendly plug-and-play network printers that perform in stand-alone operation. They facilitate the production of high-performance ceramics with material properties found in conventional manufacturing processes. Through the elimination of tools and a minimal level of material consumption within the production process, it is now finally possible to eco-nomically manufacture prototypes and small batches of high-performance ceramic parts.

Firma/Company	Machineworks Ltd. - Polygonica	Messe/Exhibition	formnext 2016
Adresse/Address	Rutledge House, 78 Clarkehouse Rd. Sheffield S10 2LJ	Halle/Hall	3.1
Telephone/Fax	4,41142E+11 / 4,41142E+11	Stand Nr./Stand No.	3.1-F90
Ansprechpartner Presse/ Responsible for Press	Cristina Sesma	E-Mail-Anschrift/ E-Mail-Address	cristina.sesma@machineworks.com

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **21.08.2016**

Produktbezeichnung/product description

POLYGONICA

Polygonica is a polygonal modelling software toolkit from MachineWorks for processing polygon meshes. Polygonica Software performs a wide range of geometric operations on STL models such as automatic solid healing, self-intersection fixing, solid offsetting, solid simplification and other Boolean operations. Polygonica is built on the same Boolean engine that underpins MachineWorks Technology for CNC simulation. This technology has been refined and updated over 20 years of rigorous use in demanding industrial applications therefore the algorithms inside Polygonica have had heavy industrial use and have been extensively tried and tested. They are required to be robust and to offer outstanding performance to be implemented in industry. Polygonica's extremely complex algorithms have been wrapped to make them easy to use. Polygonica can be used in additive manufacturing and 3D printing, CAD/CAM/CAE, CFD/FEA meshing, reverse engineering, rapid prototyping, 3D movies, gaming, geo-exploration, urban modelling and other 3D digital applications.

Firma/Company	Materialise NV	Messe/Exhibition	formnext 2016
Adresse/Address	Technologielaan 15 3001 Leuven (Heverlee)	Halle/Hall	3.1
Telephone/Fax	/	Stand Nr./Stand No.	3.1-F28
Ansprechpartner Presse/ Responsible for Press	Kirsten Van Praet	E-Mail-Anschrift/ E-Mail-Address	kirsten.vanpraet@materialise.be

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt

26.08.2016

Produktbezeichnung/product description

Materialise Magics 3D print suite

At Formnext Materialise will present updates of the Materialise Magics 3D print suite. The suite will guide you from data preparation to production management and machine control. Visit software.materialise.com to find out more about our products.

Firma/Company	Materialise NV	Messe/Exhibition	formnext 2016
Adresse/Address	Technologielaan 15 3001 Leuven (Heverlee)	Halle/Hall	3.1
Telephone/Fax	3216660411 /	Stand Nr./Stand No.	3.1-F28
Ansprechpartner Presse/ Responsible for Press	Kirsten Van Praet	E-Mail-Anschrift/ E-Mail-Address	kirsten.vanpraet@materialise.be

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **29.08.2016**

Produktbezeichnung/product description

Materialise Magics

This is a smart, versatile data preparation software for 3D Printing. You can use it to: • Import all data types and formats • Repair and prepare files for all technologies • Edit and enhance data • Prepare build platforms • Rely on reports and measurements for quality control

Firma/Company	Materialise NV	Messe/Exhibition	formnext 2016
Adresse/Address	Technologielaan 15 3001 Leuven (Heverlee)	Halle/Hall	3.1
Telephone/Fax	3216660411 /	Stand Nr./Stand No.	3.1-F28
Ansprechpartner Presse/ Responsible for Press	Kirsten Van Praet	E-Mail-Anschrift/ E-Mail-Address	kirsten.vanpraet@materialise.be

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **29.08.2016**

Produktbezeichnung/product description

Materialise 3-matic

This is design optimization software that allows you to:

- Modify your design at STL level
- Convert your mesh back to CAD
- Create textures, patterns and perforations
- Create lightweight, conformal or porous structures
- Clean up rough topology optimization results for simulation (FEA) and printing

Firma/Company	Materialise NV	Messe/Exhibition	formnext 2016
Adresse/Address	Technologielaan 15 3001 Leuven (Heverlee)	Halle/Hall	3.1
Telephone/Fax	3216660411 /	Stand Nr./Stand No.	3.1-F28
Ansprechpartner Presse/ Responsible for Press	Kirsten Van Praet	E-Mail-Anschrift/ E-Mail-Address	kirsten.vanpraet@materialise.be

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **29.08.2016**

Produktbezeichnung/product description

Materialise e-Stage

Why loose so much time on manual support generation, if you can automate it? Materialise e-Stage allows you to:

- Reduce build and finishing time
- Decrease operation time by 90%
- Reduce resin consumption up to at least 15%
- Eliminate human errors
- Improve part quality
- Increase success rate of builds
- Optimized build process
- Scalable as your machine park grows

Firma/Company	Materialise NV	Messe/Exhibition	formnext 2016
Adresse/Address	Technologielaan 15 3001 Leuven (Heverlee)	Halle/Hall	3.1
Telephone/Fax	3216660411 /	Stand Nr./Stand No.	3.1-F28
Ansprechpartner Presse/ Responsible for Press	Kirsten Van Praet	E-Mail-Anschrift/ E-Mail-Address	kirsten.vanpraet@materialise.be

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **29.08.2016**

Produktbezeichnung/product description

Materialise Build Processor

Machine manufacturers can bundle their machines with a Build Processor to enhance machine communication. They choose a Build Processor because:

- It is the de facto standard for simplifying 3D printing machine communication
- The software is tailored to each machine
- The integration with the slice-based technology avoids immensely large files
- It is integrated with other software from the Materialise Magics 3D Print Suite

Firma/Company	Materialise NV	Messe/Exhibition	formnext 2016
Adresse/Address	Technologielaan 15 3001 Leuven (Heverlee)	Halle/Hall	3.1
Telephone/Fax	3216660411 /	Stand Nr./Stand No.	3.1-F28
Ansprechpartner Presse/ Responsible for Press	Kirsten Van Praet	E-Mail-Anschrift/ E-Mail-Address	kirsten.vanpraet@materialise.be

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **29.08.2016**

Produktbezeichnung/product description

Materialise Control Platform

Machine manufacturers, R&D institutes and anyone who wants to adapt the production process to their specific needs, can rely on the Materialise Control Platform. This modular, highly flexible, AM-specific platform allows you to:

- Monitor and store all real-time machine data
- Control, track and trace the complete production process
- Build your own IP or build upon Materialise know-how
- Easily expand, modify and develop new versions of your 3D printing machine
- Introduce new 3D printing machines to market faster
- Explore R&D applications

Firma/Company	Materialise NV	Messe/Exhibition	formnext 2016
Adresse/Address	Technologielaan 15 3001 Leuven (Heverlee)	Halle/Hall	3.1
Telephone/Fax	3216660411 /	Stand Nr./Stand No.	3.1-F28
Ansprechpartner Presse/ Responsible for Press	Kirsten Van Praet	E-Mail-Anschrift/ E-Mail-Address	kirsten.vanpraet@materialise.be

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **29.08.2016**

Produktbezeichnung/product description

Materialise Streamics

Materialise Streamics is a central AM production management system that enables the efficient implementation of your AM business, offering repeatable quality. Materialise Streamics enables:

- Central access to all key AM data
- Process simplification and control
- Optimal build preparation and scheduling
- Automation of file operations, incl. part labeling
- AM machine integration

Firma/Company	Materialise NV	Messe/Exhibition	formnext 2016
Adresse/Address	Technologielaan 15 3001 Leuven (Heverlee)	Halle/Hall	3.1
Telephone/Fax	3216660411 /	Stand Nr./Stand No.	3.1-F28
Ansprechpartner Presse/ Responsible for Press	Kirsten Van Praet	E-Mail-Anschrift/ E-Mail-Address	kirsten.vanpraet@materialise.be

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **29.08.2016**

Produktbezeichnung/product description

Materialise Robot

With Materialise Robot, operations can be performed automatically and reliably in the background, enabling users to operate faster and sustainably grow their AM business. Automate with the Materialise Robot: • Automatic CAD to STL conversion • Automatic part sorting based on printability • Automatic STL repair and optimization • Automatic quoting • Automatic quality checks (e.g. wall thickness)

Firma/Company	National IT Industry Promotion Agency	Messe/Exhibition	formnext 2016
Adresse/Address	Jeongtong, Deoksan10 Jincheon 27872 Chungbuk	Halle/Hall	3.1
Telephone/Fax	8,2102E+11 / 8225676286	Stand Nr./Stand No.	3.1-K30
Ansprechpartner Presse/ Responsible for Press	jihee hong	E-Mail-Anschrift/ E-Mail-Address	jihee8902@nate.com

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **03.11.2016**

Produktbezeichnung/product description

Korean pavilion participate on FORMNEXT 2016.

It is hosted by Ministry of Science ICT and Future Planning and Organized by National IT Industry Promotion Agency. We have slogan for Korean pavilion as "Team Korea Experience". Team Korea members are 6 companies that Carima, Former's Farm, Intelli Korea, A-Team ventures, Cure-M and Veltz3d. Company information Flowing CARIMA (Industrial 3D Printer DM250) Carima developed and manufactured the first DLP 3D printer in Korea. We have focused on manufacturing 3D printers for export, utilizing its optic technology developed by CK industry (Carima's predecessor). Since developing 3D printer master series on 2009, now we released desktop 3D printer DP110E, Jewelry IM-J printer. Finally, surprised the world with C-CAT technology that can print 1cm per minute with high resolution on 2015 year. Former's Farm (FDM 3D Printer - OLMO) Former's Farm has been designing and developing 3D printers professionally since 2013 motivated by stubborn goal "To design the best printer possible". Starting with the 3D printer "Pine tree" in October 2013, we have released a variety of 3D printers, such as Sprout, Sprout MINI and OLMO. We are well recognized as a 3D printer company manufacturing stable and reliable FDM 3D printers. We have proven ourselves with high quality printings including minute objects demanding extreme precision. We are a trustworthy 3D printer manufacturing company who consistently exceeds customers' needs on printing high quality, professional designs with ease with the help of our technology and experiences in the 3D printer industry. Intelli korea(CADian 2017 for AutoCAD & CADian3D 2015 for Rhino3D)

Firma/Company	Open Technologies s.r.l.	Messe/Exhibition	formnext 2016
Adresse/Address	Via Matteotti, 161-163A 25086 Rezzato (BS)	Halle/Hall	3.1
Telephone/Fax	/	Stand Nr./Stand No.	3.1-B89
Ansprechpartner Presse/ Responsible for Press	Emanuela	E-Mail-Anschrift/ E-Mail-Address	e.martello@scanner3d.it

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **22.09.2016**

Produktbezeichnung/product description

Cronos 3d

Three times as fast and twice more accurate than its predecessor, The new Cronos3d is a full Usb3 device defined by top-notch components and half a decade of improvements. The right choice of digitalization hardware and software for Computer Aided Inspection and Design may reduce inspection times by up to 90% on some cases while increasing reproducibility and repeatability by up to 50%, An unmatched help in all of the design stages. Open Technologies overcomes 3d scanning most popular dilemma: "Better, Faster, Cheaper choose any two", defining a whole new standard of measuring devices.

Firma/Company	Progold S.p.A.	Messe/Exhibition	formnext 2016
Adresse/Address	via Postale Vecchia, 26/A 36070 Trissino (VI)	Halle/Hall	3.1
Telephone/Fax	(+39) 0445 492631 / (+39) 0445 492601	Stand Nr./Stand No.	3.1-G30
Ansprechpartner Presse/ Responsible for Press	Daniele Contin	E-Mail-Anschrift/ E-Mail-Address	daniele.contin@progold.com

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **31.08.2016**

Produktbezeichnung/product description

Progol3D®

Progol3D®: the brand new service bureau for direct precious metal 3D printing of jewellery and watch components

Firma/Company	RangeVision	Messe/Exhibition	formnext 2016
Adresse/Address	Lenina Str. 5B 143400 Krasnagorsk	Halle/Hall	3.1
Telephone/Fax	74955327280 / 74955327280	Stand Nr./Stand No.	3.1-K21
Ansprechpartner Presse/ Responsible for Press	Andrey Zyabko	E-Mail-Anschrift/ E-Mail-Address	az@rangevision.com

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt

07.10.2016

Produktbezeichnung/product description

3D scanners (professional and desktop)

RangeVision 3D scanners are capable of scanning objects of different shapes and sizes simply by changing the scanner's field of view (FOV). Due to the use of the structured light technology, professional RangeVision 3D scanners provide highly detailed scans of any type of object, from jewelry to large automobiles, with accuracy up to 0,03 mm and resolution up to 0,043 mm.

Firma/Company	Sandvik Osprey Ltd.	Messe/Exhibition	formnext 2016
Adresse/Address	Red Jacket Works, Milland Road Neath SA11 1NJ	Halle/Hall	3.1
Telephone/Fax	+44 1639 634121 / +44 1639 630100	Stand Nr./Stand No.	3.1-B47
Ansprechpartner Presse/ Responsible for Press	Keith Murray	E-Mail-Anschrift/ E-Mail-Address	powders.osprey@sandvik.com

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **01.09.2016**

Produktbezeichnung/product description

Gas Atomised Metal Powders for Additive Manufacturing

With over 40 years experience in gas atomisation, Sandvik Osprey offers an extensive range of high quality, spherical metal powders for use in Additive Manufacturing. Our products are used in an increasingly diverse range of applications including automotive, dental, medical, tooling and aerospace.. Our extensive product range includes stainless steels, nickel based superalloys, maraging steels, tool steels, cobalt alloys, low alloy steels and binary alloys. Aluminium alloys are current in development

Firma/Company	SAS Synthene Matieres Plastiques	Messe/Exhibition	formnext 2016
Adresse/Address	Ferme de l'Eveche 60723 Pont Sainte-Maxence	Halle/Hall	3.1
Telephone/Fax	33344317805 / 33157674464	Stand Nr./Stand No.	3.1-B81
Ansprechpartner Presse/ Responsible for Press	Lesueur	E-Mail-Anschrift/ E-Mail-Address	wlr@synthene.com

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **23.08.2016**

Produktbezeichnung/product description

Vacuum casting resins

Vacuum casting resins for Rapid Prototyping, to be casted in silicones moulds : - easy to use
ABS simulations - ABS simulations with high thermal & mechanical properties - elastomeric
resins - UV stable water clear resins

Firma/Company	SENTROL Co., Ltd.	Messe/Exhibition	formnext 2016
Adresse/Address	Beotgot-ro (Gasan-dong)278 Geumcheon-gu 08511 Seoul		Halle/Hall 3.1
Telephone/Fax	-8205 / -9118	Stand Nr./Stand No.	3.1-H30
Ansprechpartner Presse/ Responsible for Press	YI HON SOK	E-Mail-Anschrift/ E-Mail-Address	hsyi@sentrol.net

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **24.10.2016**

Produktbezeichnung/product description

Metal 3D Printers (SLM Type)

Complicated 3D structures of industrial metal parts previously unavailable from the conventional cutting (SM) can be produced by the metal 3D printing method. In addition, the metal powder is reusable as only the melted portion of each layer is used. Industries that manufacture high value-added precision metal parts benefit most from metal 3D printers. 3D printing is increasingly applied in industries such as aerospace and automotive where both lightweight and high-strength are required. It allows forming complex shapes (such as undercut) not feasible with the conventional engineering. The molds produced by metal 3D printers with conformal cooling channels have become a norm. The improved cooling performance of the mold increases the production speed and quality, enhancing the performance of mass produced molds. In the medical field, customized implants are available from 3D printing, reducing side effects. Metal 3D printing applications are rapidly expanding.

Firma/Company	Sigma Labs Inc.	Messe/Exhibition	formnext 2016
Adresse/Address	3900 Paseo del Sol Santa Fe 87507	Halle/Hall	3.1
Telephone/Fax	3308424864 /	Stand Nr./Stand No.	3.1-J45
Ansprechpartner Presse/ Responsible for Press	Ron Fisher	E-Mail-Anschrift/ E-Mail-Address	ron.fisher@sigmalabsinc.com

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **06.10.2016**

Produktbezeichnung/product description

Sigma Labs Introduces PrintRite3D® INSPECT 2.0 In-process Quality Assurance Software

There is outstanding promise for additive manufacturing (AM) for critical metal parts in the aerospace, medical, automotive as well as other industries. However, basic challenges involving quality and geometry exist that threaten to hold back growth and cost-effectiveness. In-Process Quality Assurance™ (IPQA®) developed by Sigma Labs Inc., is a methodology for process control and quality assurance that addresses these concerns. In contrast to post-process quality assurance, IPQA® is designed to measure the attributes of the AM process in real time or near-real time it also incorporates the ability to sense process variations that may lead to defects. Sigma Labs has developed its IPQA® technology into a breakthrough hardware and software suite of products for AM known as PrintRite3D®, which enables serial production for metal AM technology to be realized sooner than would otherwise be possible. PrintRite3D® comprises a suite of software applications that address the three fundamental problems facing metal AM today: assuring the metal integrity or quality of the product assuring the as-built geometry of the product and increasing the productivity or speed of the AM process. At this years Formnext show, Sigma Labs will launch and showcase its next generation PrintRite3D® INSPECT 2.0 In-process Quality Assurance software for melt pool metallurgy real-time monitoring. The PrintRite3D® INSPECT™ software app for inspection of metallurgical properties processes raw data collected by the temperature and spectral sensors of the AM melt pool thermal history. Sigma Labs' proprietary software algorithms extract the relevant feature data of the melt pool, make reference comparisons to a known good baseline thermal cycle, and generates a layer-by-layer and part-by-part quality metric by which product acceptance decision can be made. This new INSPECT 2.0 software release includes new and enhanced features and functionality for process improvement and part validation. The new SCANVIEWER provides layer-by-layer 2D visualization displaying nominal and suspect regions. New feature data plots include melt pool heating rates, cooling rates and peak temperatures. Location mapping for Part-by-Part discrimination of off nominal process conditions with 2D and 3D imaging provide for production process optimization and anomaly detection.

Firma/Company	Sigma Labs Inc.	Messe/Exhibition	formnext 2016
Adresse/Address	3900 Paseo del Sol Santa Fe 87507	Halle/Hall	3.1
Telephone/Fax	3308424864 /	Stand Nr./Stand No.	3.1-J45
Ansprechpartner Presse/ Responsible for Press	Ron Fisher	E-Mail-Anschrift/ E-Mail-Address	ron.fisher@sigmalabsinc.com

PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **22.08.2016**

Produktbezeichnung/product description

PrintRite3D® In-process Quality Assurance Monitoring & Control

In-Process Quality Assurance™ (IPQA®), developed by Sigma Labs Inc., is a methodology for process control and quality assurance that addresses these concerns. In contrast to post-process quality assurance, IPQA is designed to measure the attributes of the AM process in real time or near-real time it also incorporates the ability to sense process variations before they cause defects. Sigma Labs has developed its IPQA® technology into a breakthrough hardware and software suite of products for AM known as PrintRite3D®, which enables serial production for metal AM technology to be realized sooner than would otherwise be possible. PrintRite3D® comprises a suite of software applications that address the three fundamental problems facing metal AM today: assuring the metal integrity or quality of the product assuring the as-built geometry of the product and increasing the productivity or speed of the AM process. The evolution of AM from prototyping to manufacturing in production runs is occurring in, and led by, aerospace. Yet a major problem for 3D metal production today is that traditional quality systems rely heavily on after-manufacture inspection techniques that lack strong statistical reliability in small lot manufacturing. Post-production non-destructive test instruments are either ineffective or cost-inefficient. The most important feature of PrintRite3D® is that it develops actionable quality and process control data of manufacturing information in real time and, when no flaws are detected, can provide manufacturers and their end-users with a part-by-part quality certification backed up by a file of supporting data. The PrintRite3D® hardware suite known as SENSORPAK™ is composed of photodiodes, non-contact pyrometer and a high-speed, data processing unit that can be either sold with an AM manufacturing machine unit by an OEM manufacturer or retrofitted on customers' sites. It is capable of measuring the true in-process state variables associated with an AM process. The PrintRite3D® software suite consists of the following applications: • PrintRite3D® INSPECT™ is software for in-process inspection of metallurgical properties layer-by-layer and part-by-part. It uses sensor data and establishes in-process metrics for each metal or alloy during the process. It provides manufacturing engineers with part quality reports based on rigorous statistical analysis of manufacturing process data. It allows for the

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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **01.09.2016**

Produktbezeichnung/product description

Simufact Additive

Simufact Additive is a powerful and scalable process simulation environment for the first-time-right optimization of Laser Powder Bed Fusion processes. The product's capabilities cover the simulation of all relevant process steps beginning from printing of the part, followed by the heat treatment process, the cutting process of the base plate, removal of support structures and heat & pressure combined processes. Simufact Additive primarily predicts the final distortion and residual stresses of 3D-printed metal parts. Future functional enhancements will cover further properties. The modelling is done based on CAD data in an innovative newly developed GUI environment aligned with the real process work flow. Simufact Additive offers an intuitive approach starting from defining the general process, via determining the part and support components, the definition of manufacturing parameters up to the analysis settings and finally results. The software helps to compensate the distortion, minimize residual stresses and optimize the process parameters.

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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **02.11.2016**

Produktbezeichnung/product description

Rapid prototyping/short series production

3D printing allows You to create physical objects, solely on the basis of the CAD file. Our printers allow to create models of thermoplastic materials (ABS, PLA, PA 12, resins). Thanks to rapid prototyping technology we can 3D print models of target material even in the early stages of production. Models strength is 75% of the injection molding objects. Printing precision is up to 0.1 mm. Models can be also post-processed (drilling, grinding, painting etc.). Rapid Manufacturing is the best solution for short series of production. Rapid Manufacturing allows to get final product in quantities from few up to few hundred. Our solutions allow to produce short series of detail much faster and much cheaper than additive technologies (eg. 3D printing). Our rapid manufacturing technologies: SELECTIVE LASER SINTERING (SLS) – producing 1 to over a dozen details VACUUM CASTING – producing few to several dozens details REACTION INJECTION MOULDING (RIM) – producing several dozens to few hundred details

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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt

02.09.2016

Produktbezeichnung/product description

Stratasys J750

The Stratasys J750™ 3D Printer delivers unrivaled aesthetic performance including true, full-color capability with texture mapping and color gradients. Create prototypes that look, feel and operate like finished products, without the need for painting or assembly, thanks to the Stratasys J750's wide range of material properties. With an astounding 360,000+ color combinations to choose from and multi-material capability, the Stratasys J750 allows you to bring even your most imaginative ideas to life.

Firma/Company	The TCT Group	Messe/Exhibition	formnext 2016
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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **23.08.2016**

Produktbezeichnung/product description

The TCT Group

Accelerating 3D Technologies. The TCT Group part of Rapid News Communications has a mission to accelerate the adoption of 3D technologies for design, development and manufacture across all industry sectors. The TCT Group has been a leading authority in the 3D technologies industry for over 20 years and, with global reach, continues to deliver comprehensive market leading events and media solutions. We deliver unrivalled access to thought leadership, super-user applications and cutting-edge research and up-to-date information and intelligence on 3D technologies (3D printing, additive manufacturing, CAD/CAE, metrology and inspection, as well as conventional manufacturing processes such as moulding, casting and CNC machining) and product development technologies across enterprise and industrial sectors. Through our events, print, digital and social media platforms The TCT Group ensures the global dissemination and access to business-critical insights, showcasing trailblazing technologies and how they are being utilised. The TCT Group is home to the market leading TCT Magazines (Europe & North America editions), TCT Show (UK), TCT Asia (Shanghai, China), TCT Asia – Event Insight (Asia), TCT @ CES (Las Vegas, USA), RAPID + TCT (multiple locations, USA) and formnext powered by TCT (Frankfurt, Germany).

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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **20.10.2016**

Produktbezeichnung/product description

trinckle paramate

trinckle believes in the potential of 3D printing technology to create amazing products that fulfill the individual needs of businesses and people. To release this potential, trinckle develops powerful software that makes product configuration, whether mechanical, ergonomic, or aesthetic, possible. trinckle's powerful platform, paramate, generates web-based product configurators for innovative companies, passionate about using 3D printing technology to offer truly custom products. paramate automates design processes, eliminating the need for CAD and 3D modelling expertise. Creating an amazing user experience is at the center of everything trinckle does. Its configurators are intuitive and simple to use. In addition to software, trinckle offers a fulfillment service, making it the ideal full service partner for entering the 3D printing market.

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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **06.10.2016**

Produktbezeichnung/product description

VGStudio MAX 3.0: Software for Quality Control in Additive Manufacturing

Volume Graphics develops software to non-destructively and holistically inspect additively manufactured parts with industrial computed tomography (CT). VGStudio MAX is our extendable high-end software VGMetrology is especially developed for performing metrology tasks. Our solutions help manufacturers overcome the challenge that Additive Manufacturing poses for quality control: to inspect all surfaces of an object, even if they might be inside the part or difficult to capture – and non-destructively at that. Our solutions go way beyond retrieving measurements. To confirm shape and size, a CT scan can easily be compared to a CAD file or GD&T blueprint. Moreover, a CT scan can be used to analyze porosity, wall thickness, and fiber orientation and even serve as a basis for simulations.

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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **22.08.2016**

Produktbezeichnung/product description

Xjet - Nano Particle Jetting

XJet's technology is redefining the metal additive manufacturing arena by bringing new levels of detail to the production of metal parts. XJet's patented NanoParticle Jetting™ technology makes use of solid metal nanoparticles within a liquid suspension. Delivered as sealed cartridges, these materials, as well as the support materials, are loaded easily by hand into the XJet system, eliminating the need to handle metal powders. XJet's system print heads deposit an ultra-fine layer of liquid droplets which contain stochastic metal-nanoparticles onto the system build-tray. The required support is generated automatically by the system. Inside the system's build envelope extremely high temperatures cause the liquid 'jacket' around the metal nanoparticles to evaporate. This results in strong binding of the metal with virtually the same metallurgy as traditionally-made metal parts. In addition, the metal part needs to undergo an easy sintering process, with the supports removed simply and with almost no manual intervention

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PRODUKTINFORMATION/PRODUCT INFORMATION

Eingangsdatum/
date of receipt **24.08.2016**

Produktbezeichnung/product description

Zare: Industrial Rapid Prototyping service bureau

ZARE [<http://www.zare-prototyping.eu/>] is a Rapid Prototyping service bureau specialized in Industrial Additive Manufacturing. ZARE guarantees short supply chain and assures extreme care to protect the confidentiality of the projects. Cutting edge technologies coupled with a profound knowledge of materials are our daily work tools. ZARE is the leader when it comes to rapid growth. It works alongside the customer in order to find the best possible solution for production requirements and the best balance between functionality, aesthetics and final cost, whilst ensuring FAST LEAD TIMES, HIGH QUALITY and CONFIDENTIALITY.