

3D METAL PRINTING OF TOMORROW

Available Today.



CREATOR[®]

3D METAL PRINTING FOR EVERYONE

The CREATOR® is the first affordable 3D metal printing machine, specifically designed for small and medium businesses. A full solution comprising a wireless control and an award winning CAD/CAM system.



DENTAL & MEDICAL

The CREATOR® is ideally suited to manufacture dental and medical products such as surgical instruments, complex mass and customized implants, crowns, caps, model castings as well as secondary structures.



JEWELRY

Allowing 3D printing of gold, silver, platinum and other precious metals which are essential for the jewelry industry. Every jewelry designer will be able to create a final product directly from a CAD file. Economically fabricated jewelry, timepiece components, and accessories made from precious metal powder.



AEROSPACE

Functional prototyping up to series production, the CREATOR® is able to create components that can dramatically reduce weight and part count while increasing functionality. Aircraft parts which previously were made from multiple components can now be manufactured in one step.



ENGINEERING

The CREATOR® enables tool-less prototyping of metal components and allowing complex geometries that were impossible with traditional manufacturing. Tooling can now be fabricated in only a few days with minimal post-processing required, thereby reducing development costs while increasing speed to market.



“ We built it for the future.
You get it now!



Diverse Materials

Stainless steel, tool steel, cobalt chrome, aluminium*, nickel-based alloys, titanium*, precious metals.



Wireless Controller

View and monitor the progress of your creation wherever you are on the latest tablet technology.



Maximum Efficiency

Shorter printing duration due to the innovative circular coating method.



Cloud Manufacturing

Active monitoring of key process parameters on multiple machines from any location.

* Several reactive materials will require a separate setup. Available Q3/2017



EXPLORE CREATION

A Journey into Expression

- Featuring Product Designer André Stocker -



08:30



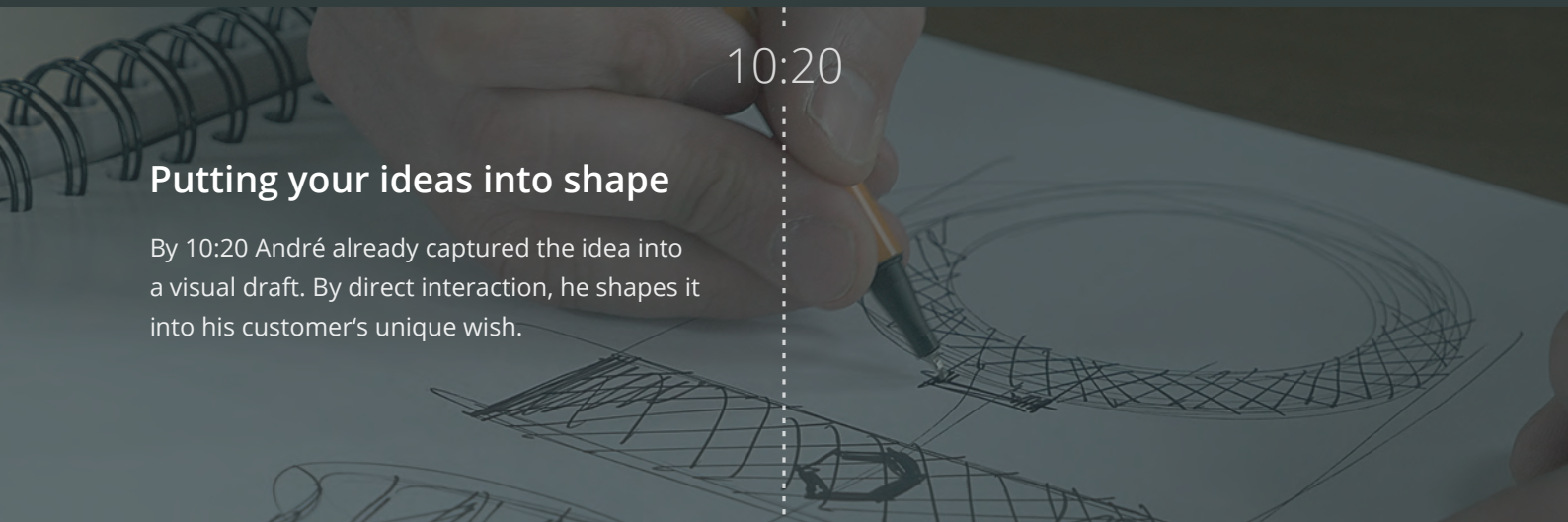
Sharing visions

Getting to understand the wishes of his customers is the biggest goal. Scribbling is the best way to visualize the ideas and get everyone to share the vision.

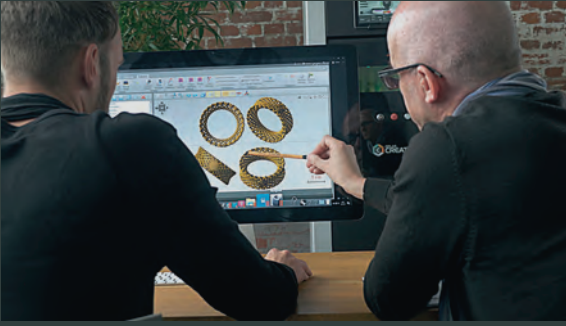
10:20

Putting your ideas into shape

By 10:20 André already captured the idea into a visual draft. By direct interaction, he shapes it into his customer's unique wish.



15:47



3D modeling

As a first step into the creation process, André transforms his sketches into a full 3D model. By sharing a high definition rendering, he allows his customer to enjoy a view of the final product before it is constructed.

17:05

Getting into production

With the help of the APP SUITE®, André transforms a virtual object into a producible part. In the 3D printing tab, a special program for the CREATOR is generated and sent to the machine.



08:10

The morning after

André opens the CREATOR's building chamber on the next morning and extracts the printed objects from the building platform. After minor handcraft finishing the final products are ready to be presented.

The creation is completed!



THE REAL BEAUTY RESIDES WITHIN

Portable Controller

The most intuitive graphical user interface running on a tablet. Monitor your CREATOR wherever you are.

Powder Reservoir

The well-sized powder reservoir can contain almost the doubled powder quantity.

Coater

Maximum productivity by a unique circular coater design.

Build Platform

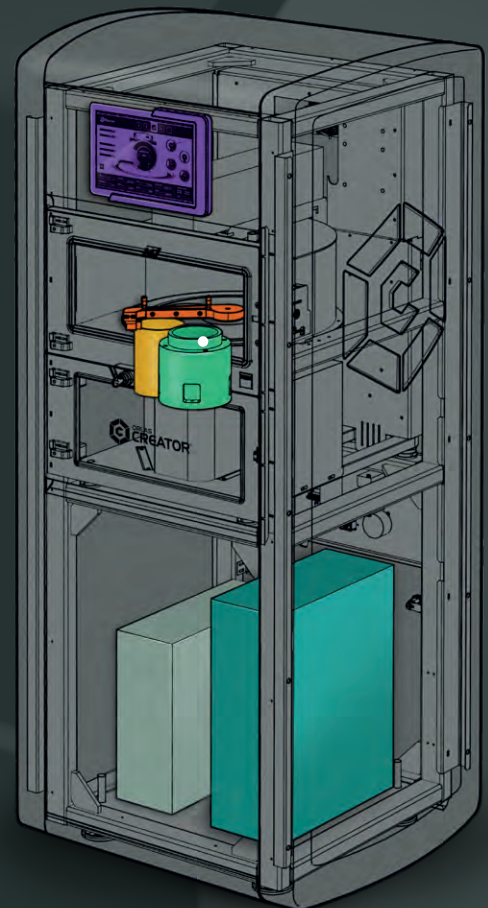
Simple and precise positioning of the building platform due to the zero-point clamping system.

Filter System

The integrated filter system cleans the oxygen-free atmosphere within the construction chamber

Laser Source

250 W power provided to print your creations. You are free to tune the power to your requirements.



General		Optic	
Building Volume	Ø 100 mm x 100 mm	Laser Type / Power	Yb Fibre Laser / 250 W
Reservoir Volume	Ø 110 mm x 200 mm	Wavelength	1070 nm
Coater	Rotation led precision coater	Lens	Precision F-Theta Lens
Gas Connection	Argon/Nitrogen	Scan Speed	Jog 20 m/s, Operation 6 m/s
Layer Thickness	20 – 100 µm	Spot Size	min. 40 µm
Electronic		Dimensions	
Power Supply	110 - 240 V (50 - 60 Hz)	System	717 x 858 x 1794 mm
Power Setting	max. 10 A	Weight	470 kg
Software		Installation Space	min. 900 x 900 x 2000 mm
CREATOR user interface, APP SUITE application „3D Printing“			

WHEN EXPERTISE MEETS CREATIVITY

At COHERENT I OR LASER, we are fully conscious of our strengths and proud of our achievements. And we are fully committed to continuing our hard work for your success.

The CREATOR® is presented as the latest development of an entirely new product family. And we are prepared and eager to spearhead the ongoing fast-paced journey into the future of the digital age.

Upcoming new products will merge existing and new innovations in unprecedented ways to help drive the ongoing transformation of industry. These complex components will let you, as a user, tap new possibilities for designing and developing your products.

Additive and subtractive production techniques are poised to play an expanding role and revolutionize both the industrial landscape and logistical chains.

” Together we are creating
an amazing future.





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