Custom orthotics through 3D Scanning with EinScan Pro 2X Plus

SHINING 3D®

SHINING 3D

Scanner

EinScan Pro 2X Plus

Overview

The EinScan Pro 2X Plus offers an enhanced Handheld HD Scan Mode and enlarged scan range, meeting demands for a wide range of applications. It is a professional 3D digitizing solution for versatile application in an easy way.

3D digitizing technologies are used in a broad range of different applications from Product Design, Engineering and Art to applications in the Medical Industry. A very popular and successful approach of using the technology is the deployment of custom orthotics. SHINING 3D has been working together with OT4, a young and innovative company from southern Germany to deliver a new experience of creating custom orthotics for patients and orthopedic technicians alike.

OT4, founded in April 2018, is a Munich-based orthopedics company specialized in the production of 3D-printed custom orthotics. Since then they have completed more than 1000 patient services and experiencing constant growth through championing the latest technology in their profession.

Custom Orthotics: The Service

OT4 is offering to their customers custom orthotics through 3D-Scanning with SHINING 3D´s EinScan Pro 2X Plus. Their 3D digital workflow covers engineering, modelling, printing service and everything in between. If necessary, the team also drives to the medical supply store and medical workshops to scan on-site.

Custom Orthotics: The Workflow

Previously, the imprints for the custom orthotics were made manually with plaster bandages taken directly on the patient´s skin surface. With the new digital method of 3D-scanning, the imprints can be captured with a high level of detail .

Custom orthotics: Advantages

The advantages of a digitized workflow are manifold. Compared to the old method of taking the impression for custom orthotics through applying plaster bandages, capturing the patient´s data via 3D-scanning is much faster and more hygienic through contactless data capturing. Additionally by using the digital way of data acquisition, a significant amount of trash (plaster bandages) and patient´s stress are reduced simultaneously.

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The workflow of creating custom orthotics through 3D-scanning is very simple.

1. The patient arrives at the orthopedic workshop with the doctor´s prescription

2. The diagnosis is used to create a treatment plan

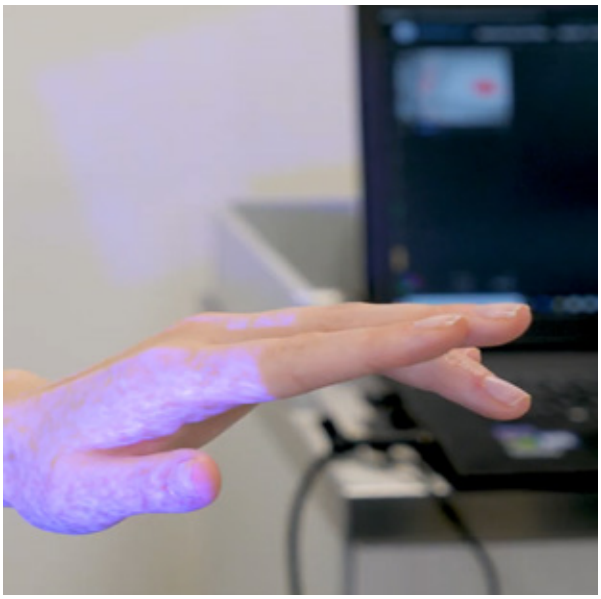
3. 3D-Scan is collected

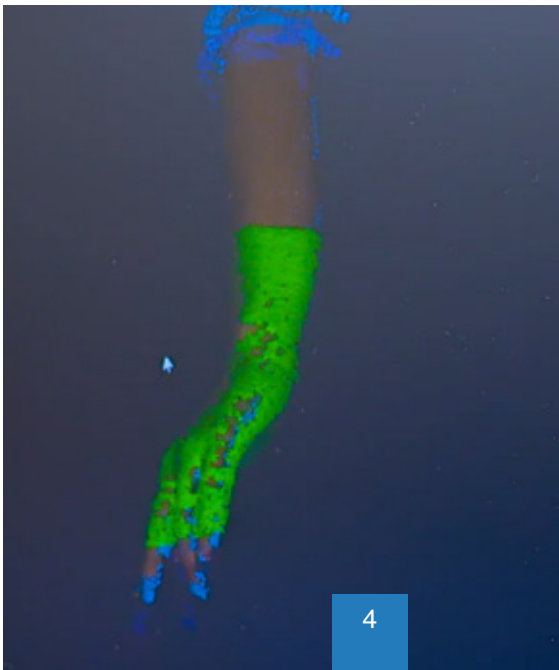
4. The captured data is transferred to OT4

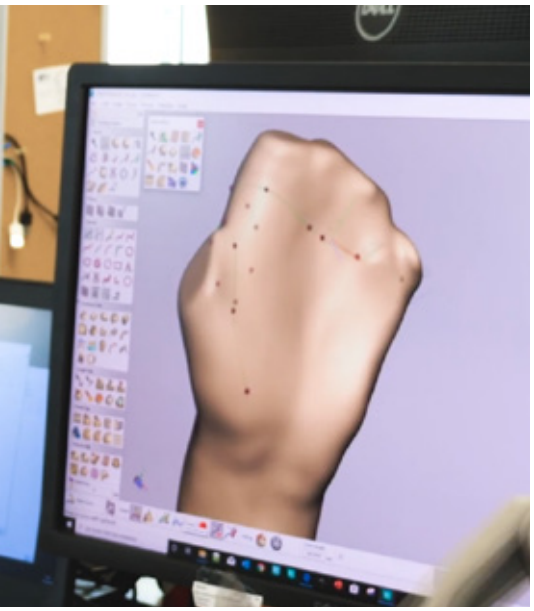
5. OT4 models the required splint digitally and manufactures the device with a 3D-Printer

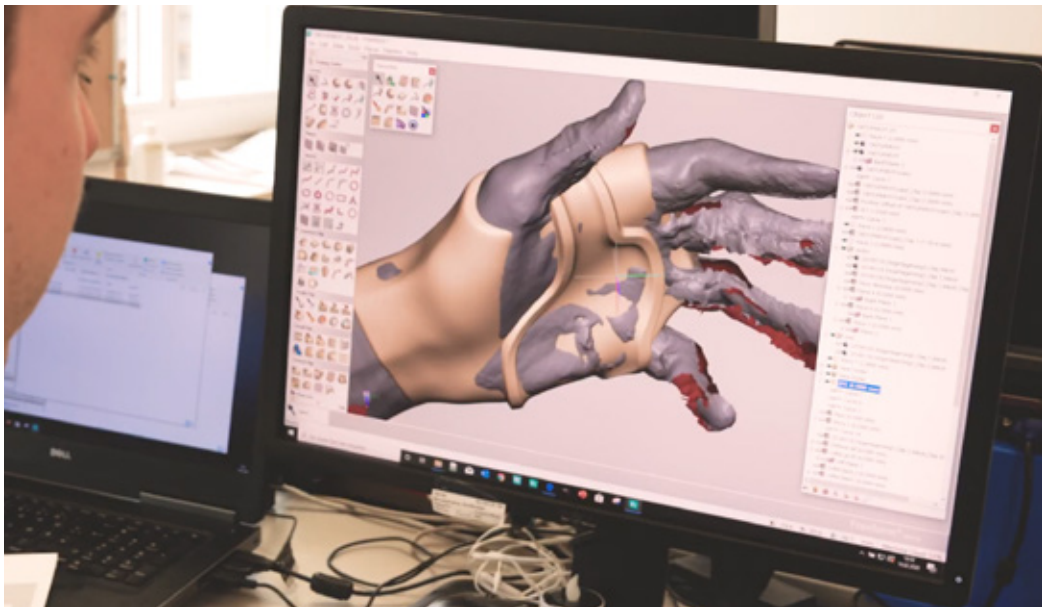
6. In a short period of time, the custom orthotic splint can be delivered to the patient

3D data of the patient is collected

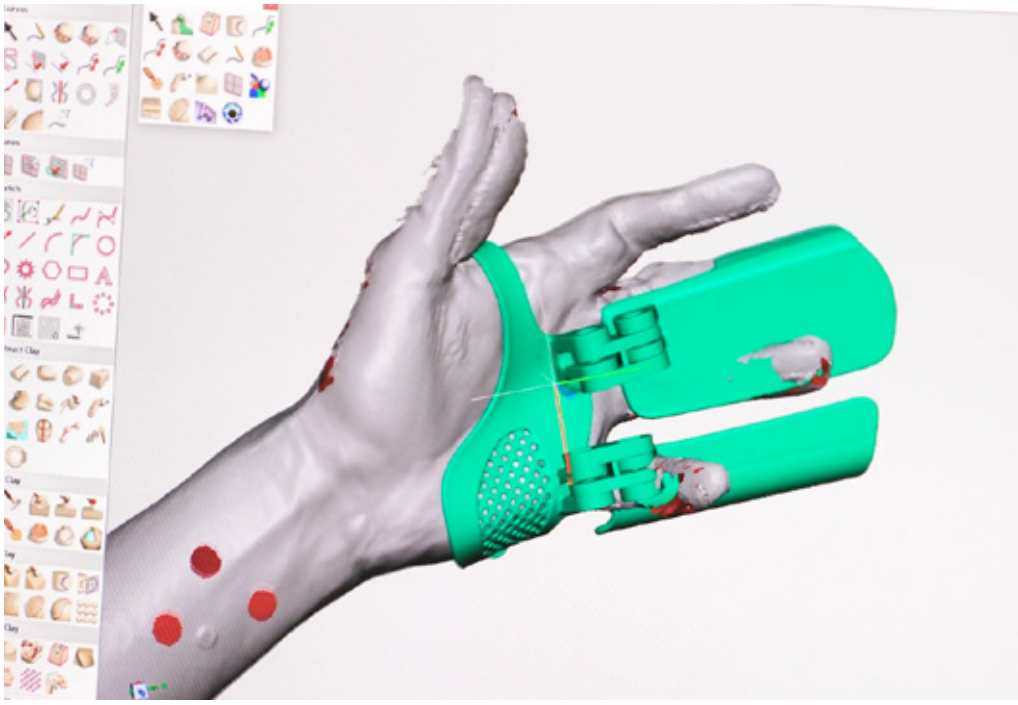


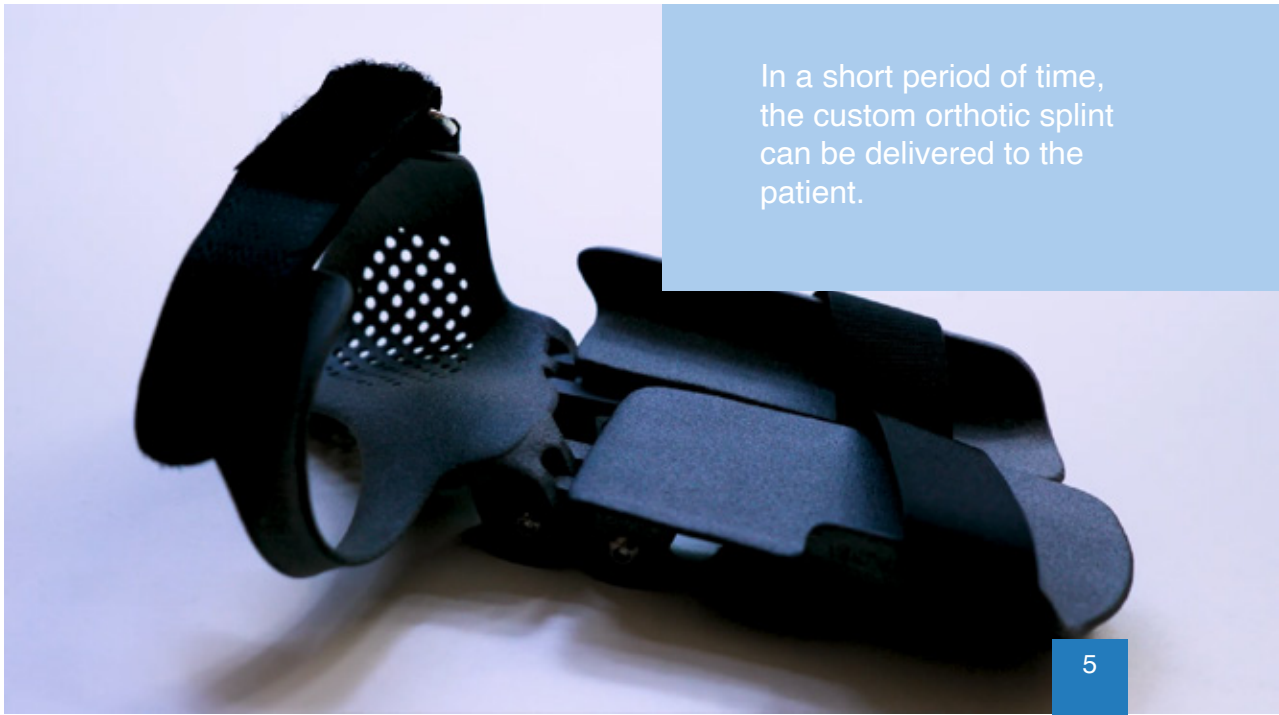






OT4 models the required splint digitally and manufactures the device with a 3D-Printer





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Custom orthotics: Why to choose EinScan

OT4 has chosen the EinScan Pro 2X Plus as their companion to create custom orthotics due to the high resolution full-color 3D data the Scanner is able to deliver. Being capable of extracting all the necessary information to create medical aids much more efficient than plaster bandages, it is the ideal tool for them to deliver high-quality products to their customers. The excellent results powering the construction of optimal orthotics in combination with the incredible price-performance ratio of EinScan have convinced OT4 to even become a distribution partner of SHINING 3D and to offer trainings and workshops to medical staff.

About SHINING 3D

SHINING 3D, founded in 2004, is pioneering independent research and the development of 3D digitizing and 3D printing technologies. SHINING 3D provides professional solutions covering “3D Digitizing – Intelligent Design – 3D Printing” for various industries including industrial manufacturing, healthcare & life sciences, product customization, and STEM education. SHINING 3D is well-positioned in the market and has the capacity to handle large sales volume, offer powerful 3D technologies, and provide strong support service. SHINING 3D’s mission is to enable flexible production of high performance, complex structural products, and make 3D imaging and manufacturing technologies accessible to all; from large multi-national corporations worldwide to at home hobbyist. As the leader among Chinese 3D printing companies, SHINING 3D has currently extended a strong international influence with customers in more than 70 different countries in Asia Pacific, Europe, North America, South America, Africa and the Middle East.

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