

Applications Guide & References

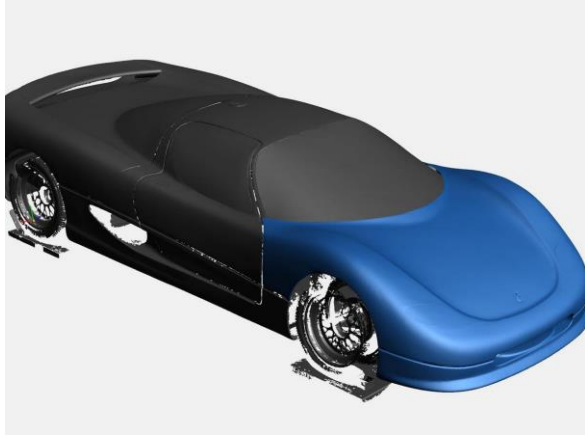


peel 3dTM

AFTERMARKET BODYWORK

For capturing the geometry in order to create a new custom design or restoration projects, we recommend the peel2CAD scanner.

[Monteverdi hai 650 F1 \(Facebook\)](#)



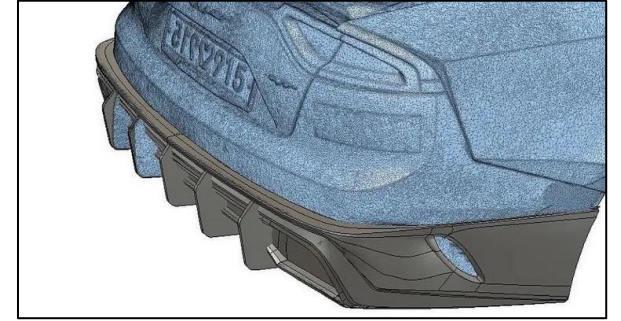
[Custom Body Kit \(IG\)](#)



[Restauration Cisitalia '47 \(IG\)](#)



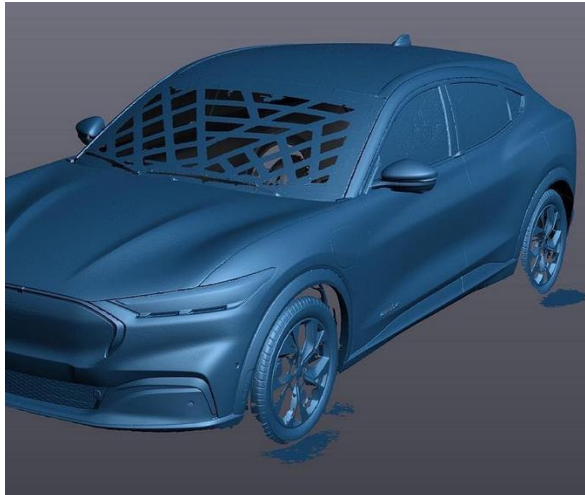
[CAD design over STL \(Instagram\)](#)



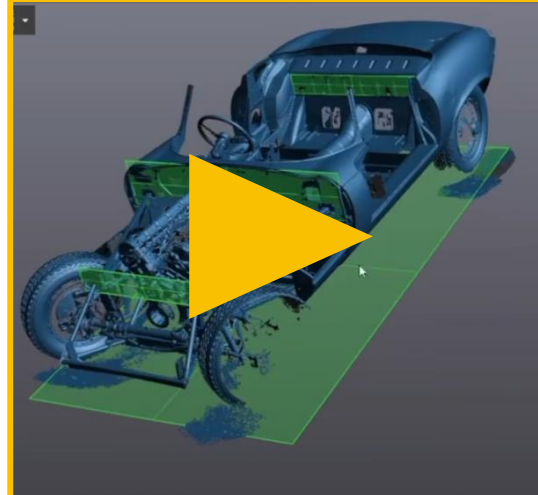
[Fiat 500 Front \(Instagram\)](#)



[Mustang Mach-E Exterior \(IG\)](#)



[Engine & Body \(Facebook\)](#)



[Evo X Front End \(Instagram\)](#)



[Ferrari Full Car \(LinkedIn\)](#)



AFTERMARKET MECHANICAL PARTS

Measuring mounting points to fit an existing part onto a new car or creating a better version of an existing part. The Peel2CAD-S scanner is very popular for small mechanical parts.

[Subframe & suspension \(YouTube\)](#)



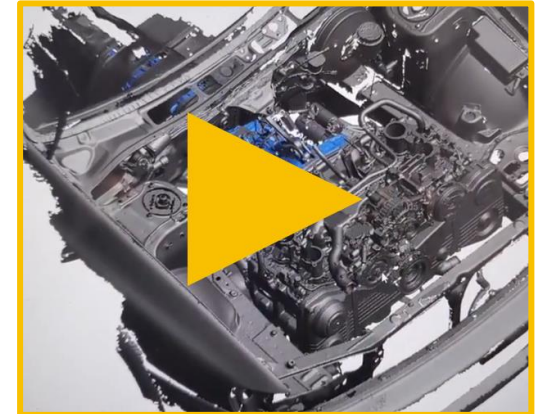
[Corvette Engine \(Instagram\)](#)



[Frame and components \(Instagram\)](#)



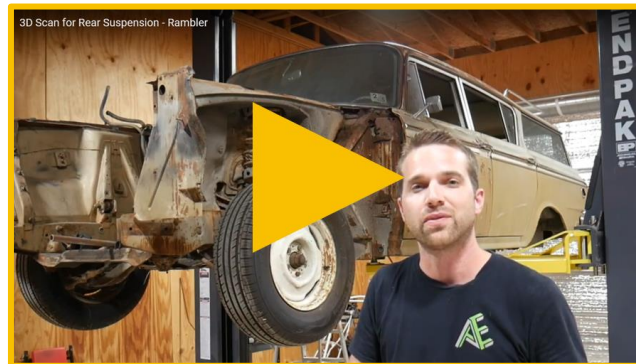
[Engine & Transmission \(Instagram\)](#)



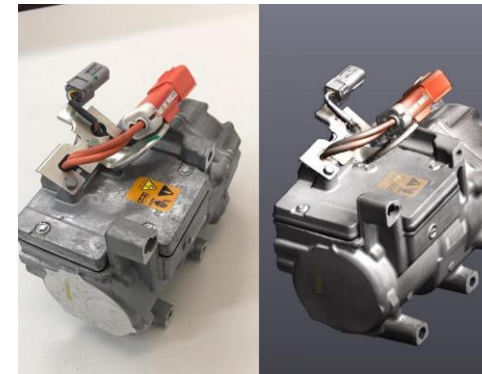
[Small component of Mustang \(IG\)](#)



[Rear Suspension Project \(YouTube\)](#)



[AC Compressor \(Instagram\)](#)



[Intake Manifold \(Instagram\)](#)



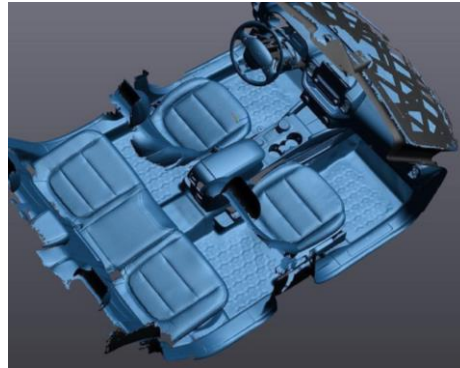
AFTERMARKET INTERIORS & UPHOLSTERY

End-users capture the environment they need to fit their new design to.
Eg: frame reinforcement, new engine, new stereo or accessories.

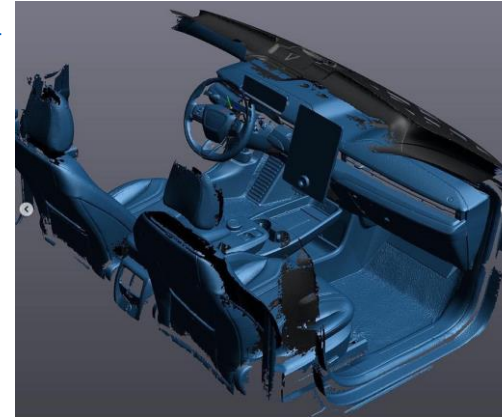
Cage Kit Design (Instagram)



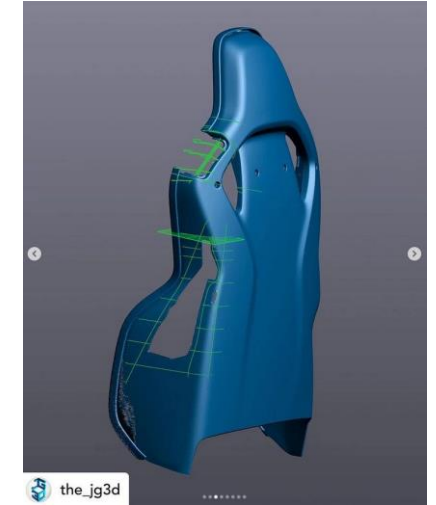
Bronco Interior with details (IG)



Mustang Mach-E Interior (IG)



Seat Modification 3d printed (IG)



Aeroworks Facebook Page

Custom Audio full process (IG)



Custom Audio process #2 (IG)



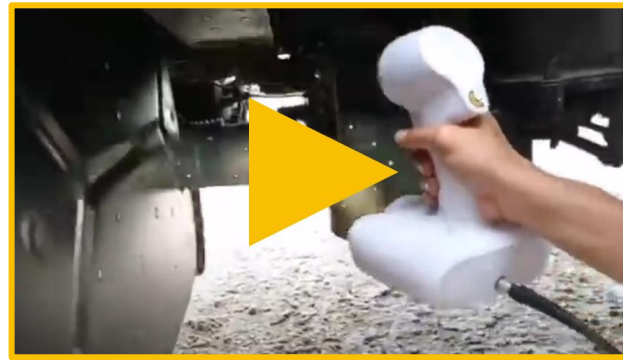
CUSTOM VAN AND TRUCK MODIFICATIONS

When creating a custom interior for a delivery van, camping van or even bigger vehicles like firetrucks or mining trucks, it is often impossible to get the 3d drawing from the manufacturer. With peel2CAD, you can get the geometry from the scan and import it into you CAD software to start designing directly.

[Minivan interior \(YouTube\)](#)



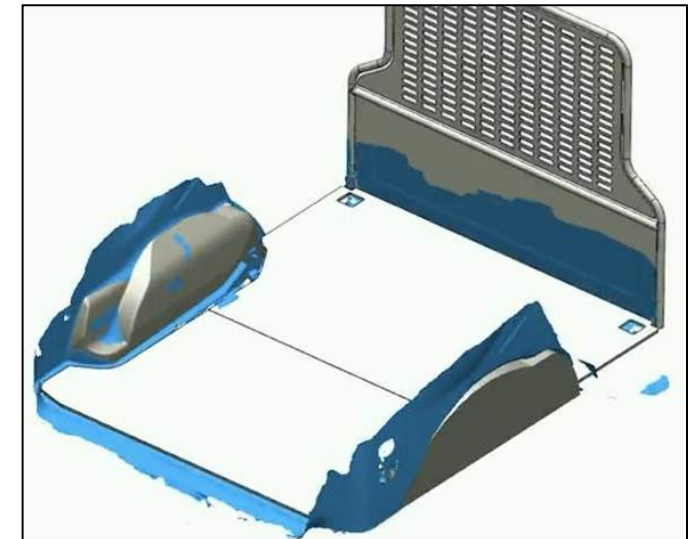
[Truck Exhaust \(Instagram\)](#)



[Qi Van System Short Video \(Twitter\)](#)



[Motorhead Garage \(YouTube\)](#)



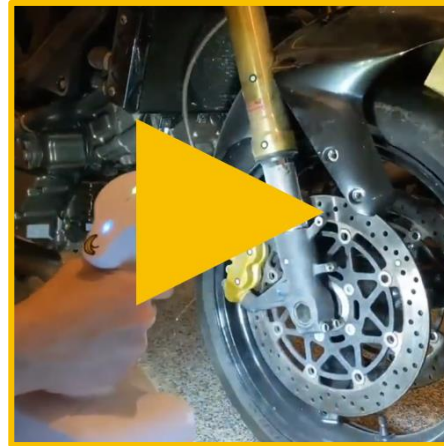
AFTERMARKET MOTOCYCLE

Scanning the shape, holes and general dimensions to design new mechanical parts.

[Roland Sands Design \(IG\)](#)



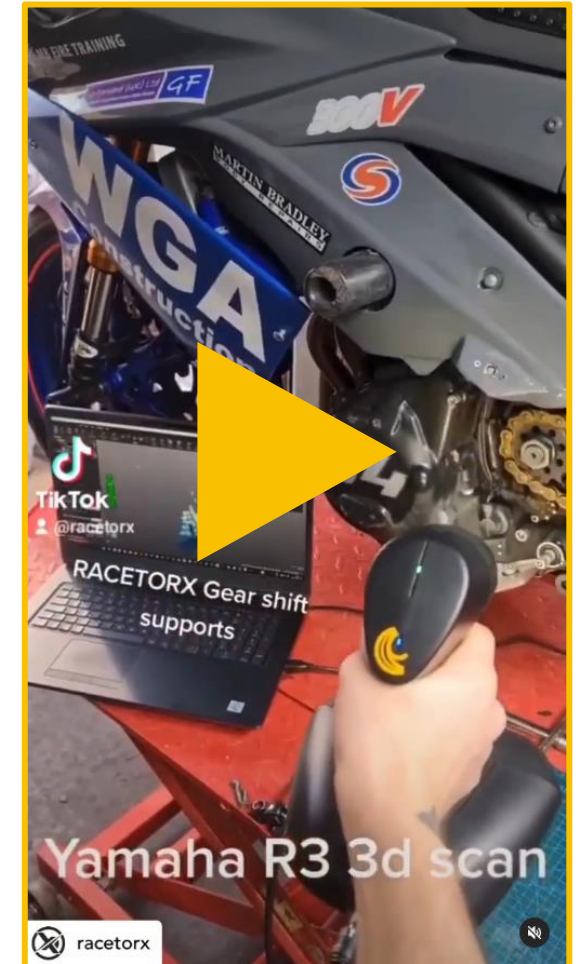
[Fender Redesign \(Facebook\)](#)



[Mechart Design \(Facebook\)](#)



[Gear shift support \(Instagram\)](#)



[RSD Ducati project \(Instagram\)](#)



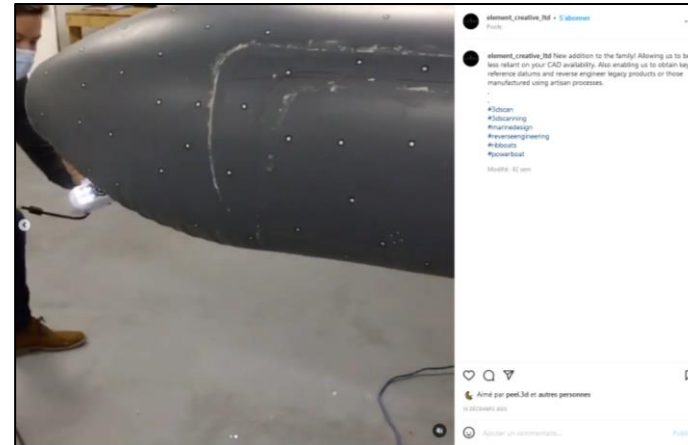
[Solidprint3d Exhaust Project \(Instagram\)](#)



BOAT ACCESSORY DESIGN

Creating custom accessories for boats and yachts. Creating digital copies of molds.

[3d scantocad \(Instagram\)](#)



[Element Creative \(Instagram\)](#)



[No Corners Cut Fabrication \(Instagram\)](#)



OTHER TRANSPORTATION

[Fighter Plane Reverse engineering
\(YouTube\)](#)



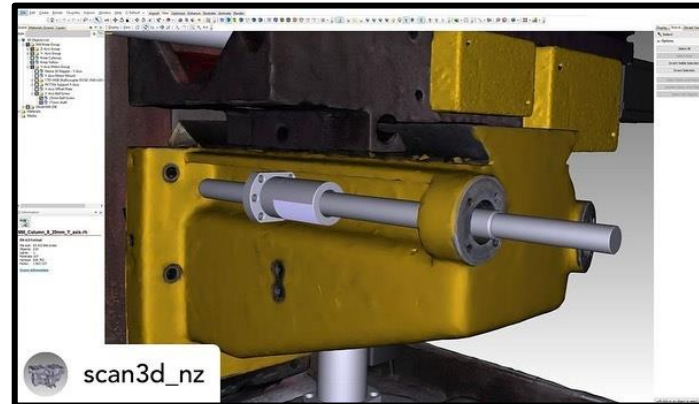
HEAVY INDUSTRY

Scanning old, worn or damaged parts for repair or to design a new part (as a copy or improved part). You can also measure an existing part to make sure a new designed component will fit perfectly. Some end-users are using peel3d for inspection (quality control) but only if the tolerance on the part is something like +/- 3 mm or more.

[Metal 3d Project \(LinkedIn\)](#)



[Custom part design IG post](#)



[On site video scanning \(LinkedIn\)](#)



[IG post Parametric Steel & Services](#)

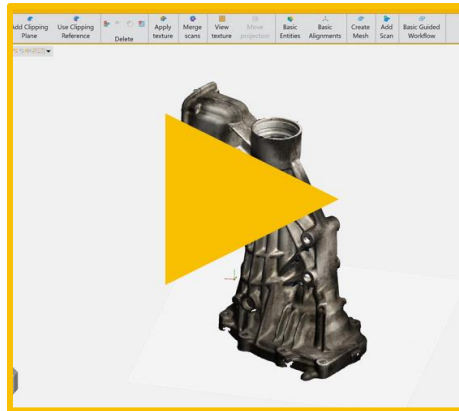


CASTING

For both small and big parts, the applications are repairing actual parts or creating a copy. Some will use it to compare part to part with peel2CAD. Given the precision of peel2CAD, this is doable when precision around +/- 3mm is required.



[Golden Dezin video \(Instagram\)](#)



[SolidPrint post \(Instagram\)](#)



[Mafoder Foundrey \(LinkedIn\)](#)



Peel 2

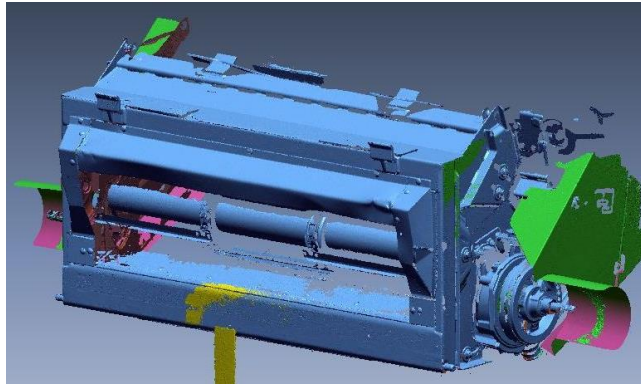


Peel 2-S

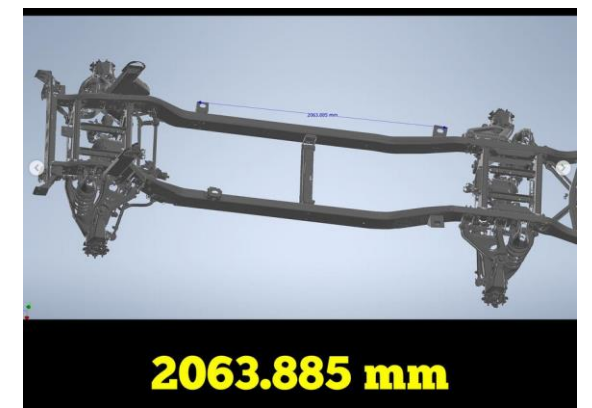
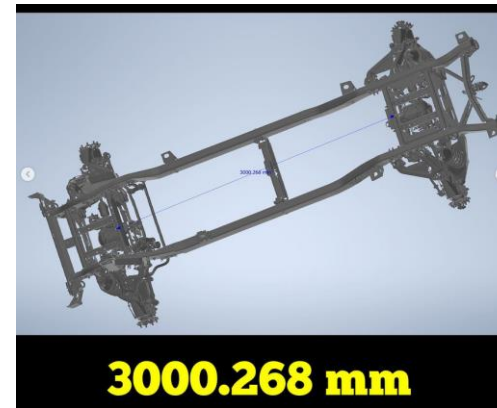


SCANNING LARGE PARTS

With peel2CAD, you can scan parts that are up to 5m or 6m long. By using targets and with the right technique (we can teach you!) you will keep the volumetric accuracy of 0,3mm per 1 m of the part scanned.



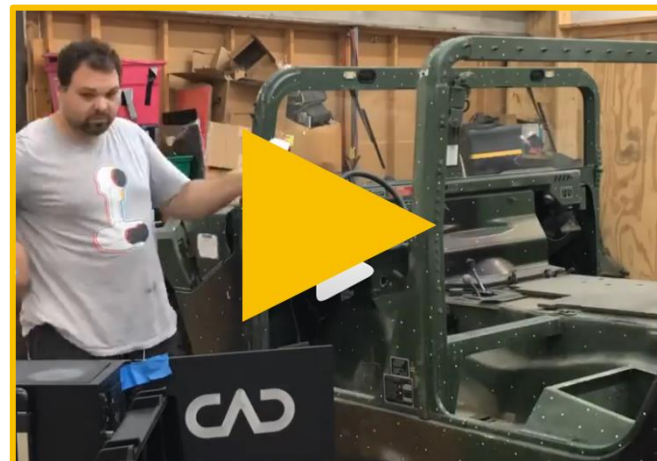
[Accuracy Test \(Instagram\)](#)



[Car Chassis \(Instagram\)](#)



[Hummer H1 Body \(Instagram\)](#)



PRODUCT DESIGN

Designers can start a design using an existing part, they can also measure a product to make a modified version of it. Prototypes can be digitized to create a 3D model (CAD) and for prototype production.

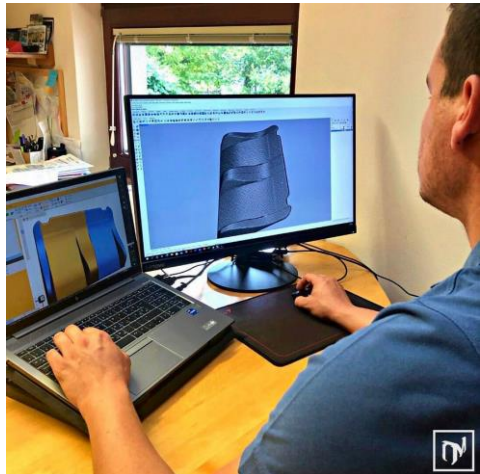
3D Design tool (YouTube)



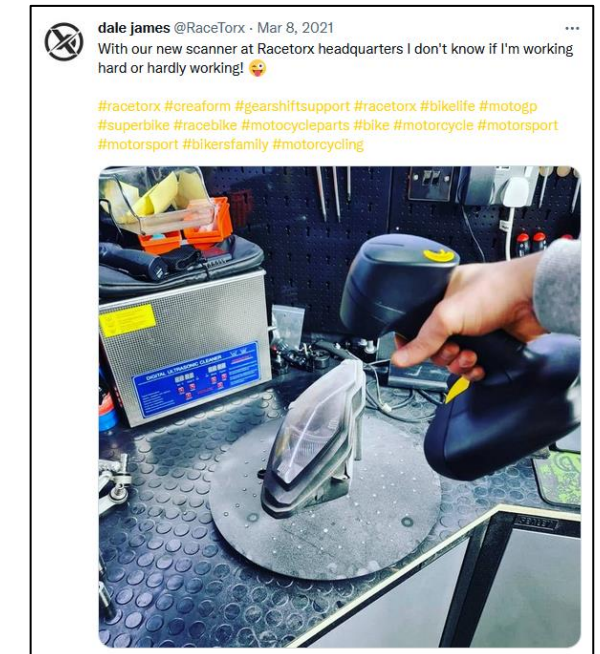
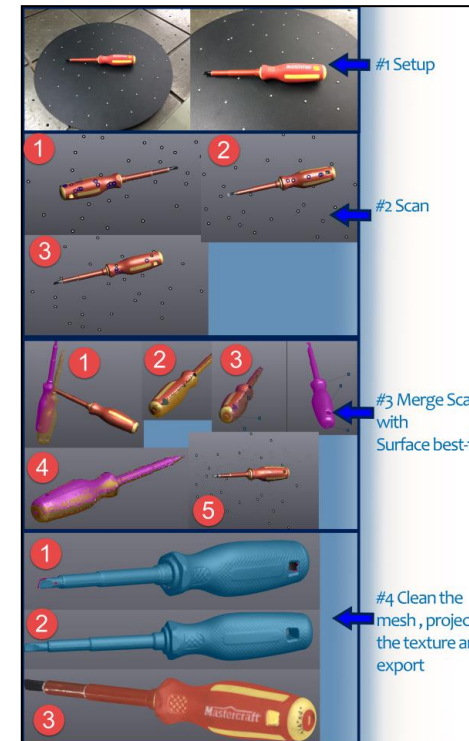
Shoe Post Treatment (Facebook)



Mezgec webpage



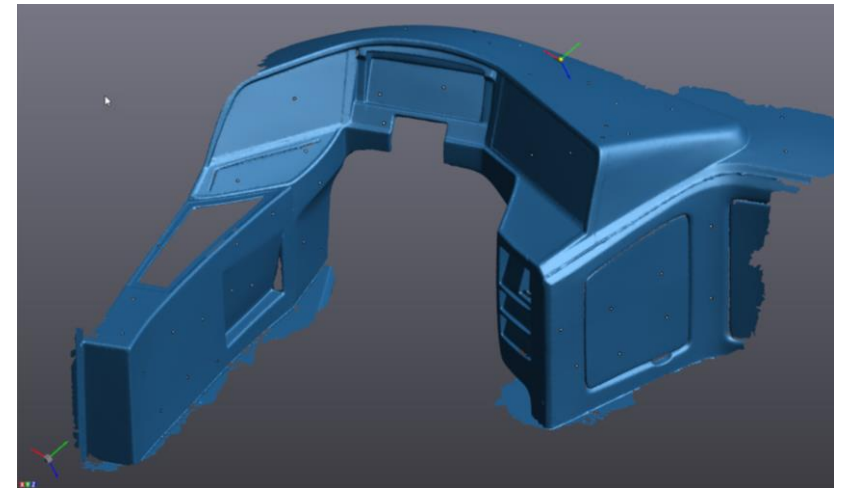
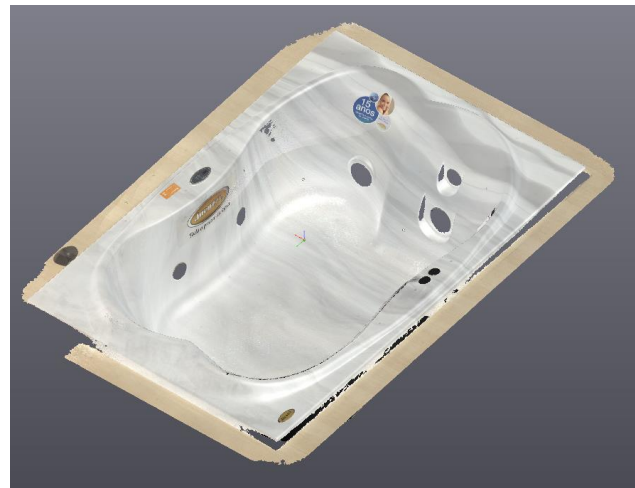
En Case (Instagram)



MOLD MAKING

Prototypes can be digitized to create a 3D model (CAD) and get ready for production. A digital archive library can be created to reduce physical stock of obsolete molds

[Carbon fiber fender \(Instagram\)](#)



FURNITURE DESIGN AND PATTERN MAKING

Patching out a 3D scan of furniture and then flattening them to 2D panels which can be sent to cutting machines.

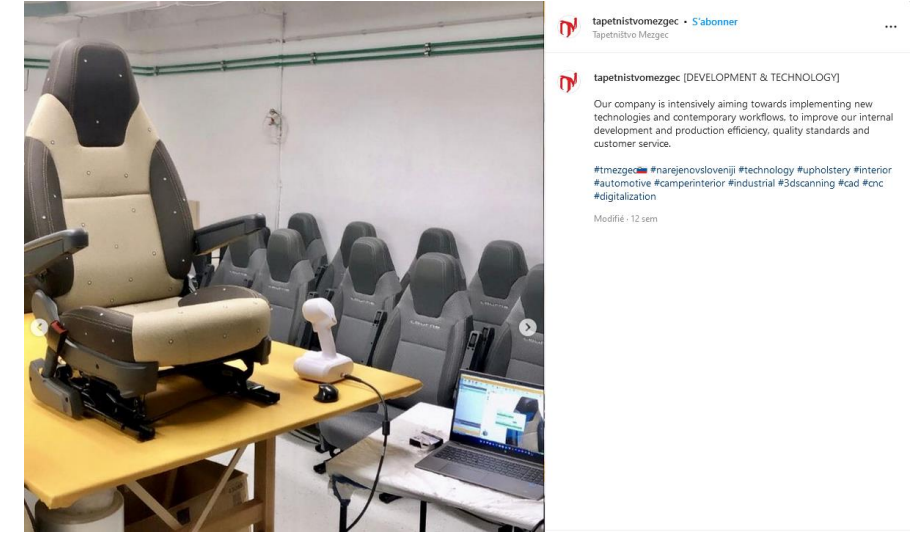
[Scanning a sofa with a peel1](#)



[Car seat with peel1 video \(Instagram\)](#)



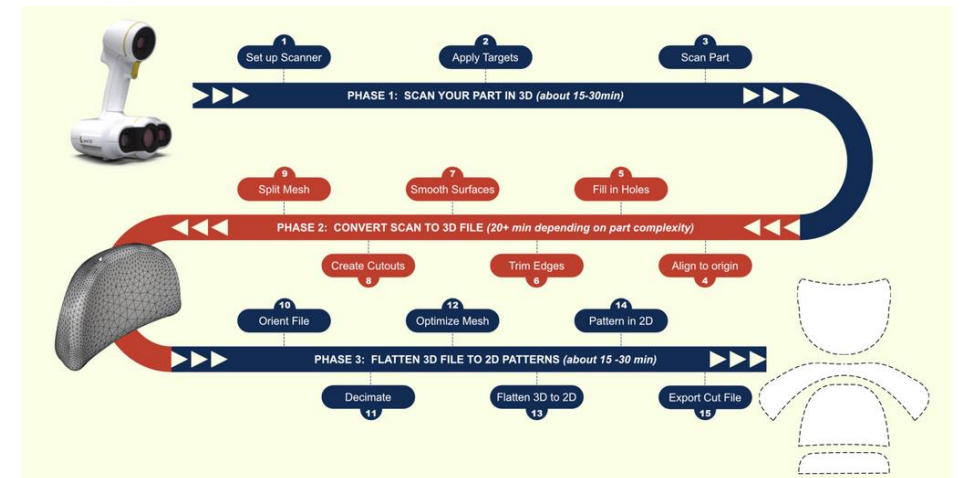
[Mezgec project \(Instagram\)](#)



[How to make perfect pattern with peel and ExactFlat \(Part 1 to 3\)](#)



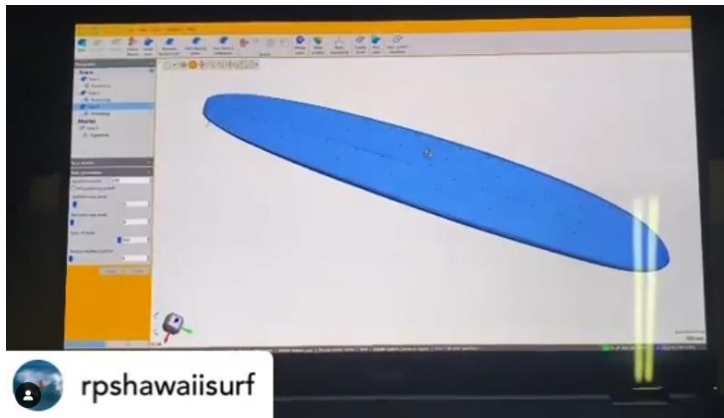
Partner Software: [ExactFlat](#)



SURFBOARDS & SUP (STAND-UP PADDLE BOARDS)

Manufacturers of surfboards often create a prototype manually. By scanning with a peel scanner, they can make sure the board is symmetrical, modify dimensions and prepare for manufacturing.

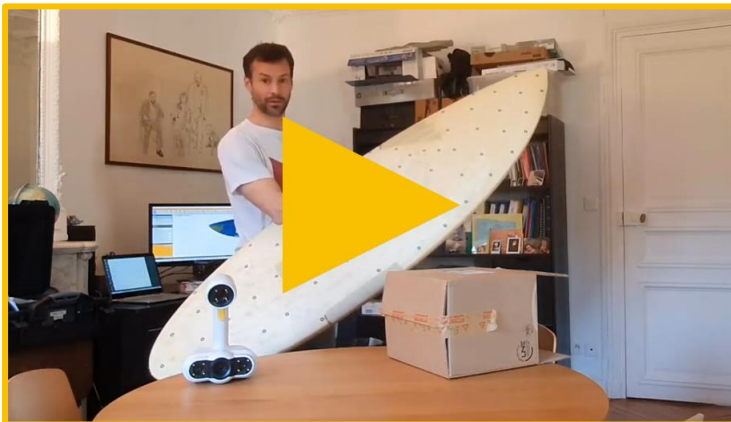
RPS Hawaii (Instagram)



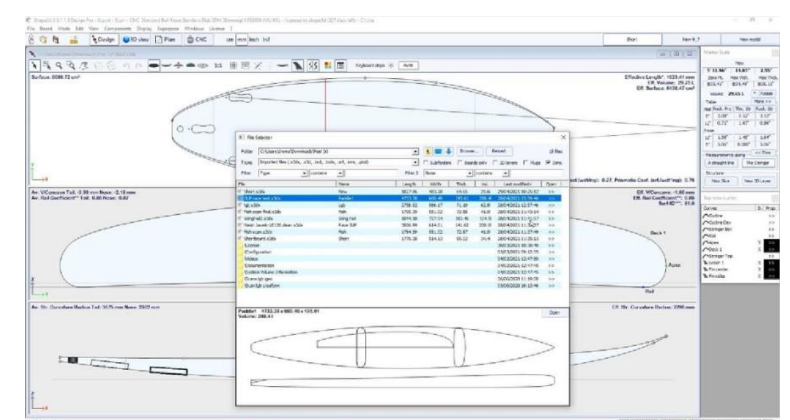
Paragon CNC (Instagram)



[Scan and import into Shape3d \(YouTube\)](#)

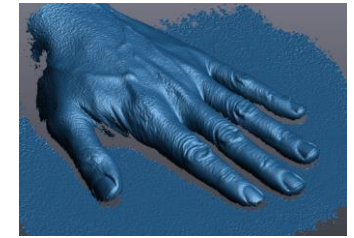


<https://www.shape3d.com/>



HEALTHCARE (ORTHOSES AND PROSTHETICS)

Scanning hands, arms, legs, feet, torso, heads etc. in order to create custom fit orthoses or prostheses. Peel1 is the recommended scanner unless color is needed. Then, it is peel2.



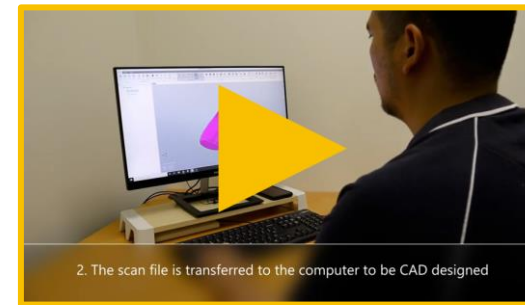
[Full Foot Scan with TechMed3d Msoft](#)



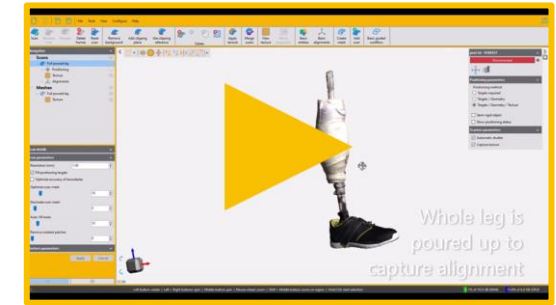
[Doctors without borders](#)



[The process of 3D printed orthoses](#)



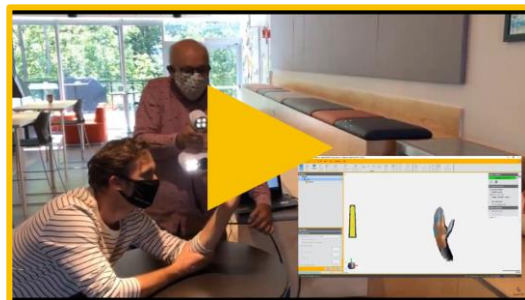
[Transtibial Prosthesis Design with peel2](#)



[Orthobroker Instagram Post](#)



[Scanning a hand with a peel2](#)



[Orthobroker LinkedIn Post](#)

[Activ Armor Twitter Post](#)

[Align Clinic Web page](#)

[Crispin Orthotics Web page](#)

[3D printing a prosthetic mold](#)

[AFO Mold Scanning \(LinkedIn\)](#)

Creaform manufactures a branded version of peel1 through an OEM agreement with these 5 companies. They offer added-value software for the O&P industry.

TECHMED: 3D

WillowWood

RODIN 4D

Hanger
Empowering Human Potential

ottobock.

HEALTHCARE (PLAGIOCEPHALY)

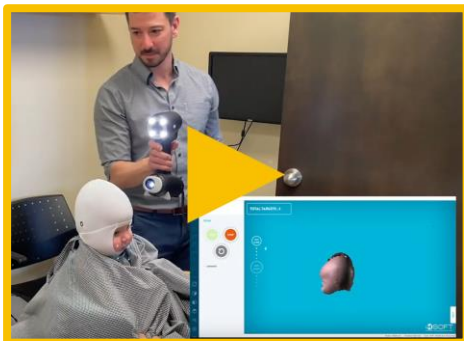
Plagiocephaly Clinics use the peel1 scanner (which is an FDA-approved 3D imaging device) to get an accurate 3d model of the baby's head. The STL is used in dedicated software to create a custom helmet.

Note: The peel1 scanner is not a medical device

References (link): [Orthokids](#) [London Orthotics](#) [Massons Healthcare](#)

Helmet therapy is used to gently correct the shape of babies' skulls over time. Sometimes when a baby sleeps in the same position, the soft plates may develop a flat spot or uneven appearance. This common condition is called [plagiocephaly](#), and it is not dangerous to your baby's brain. If the condition does not resolve on its own, your pediatrician may recommend repositioning, exercises or helmet therapy.

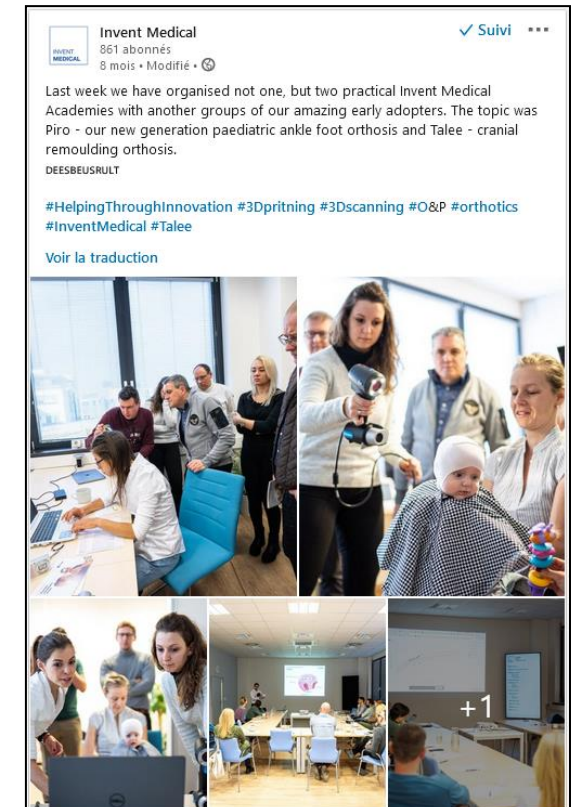
[YouTube video link](#)



[YouTube video link](#)



[Invent Medical \(LinkedIn\)](#)

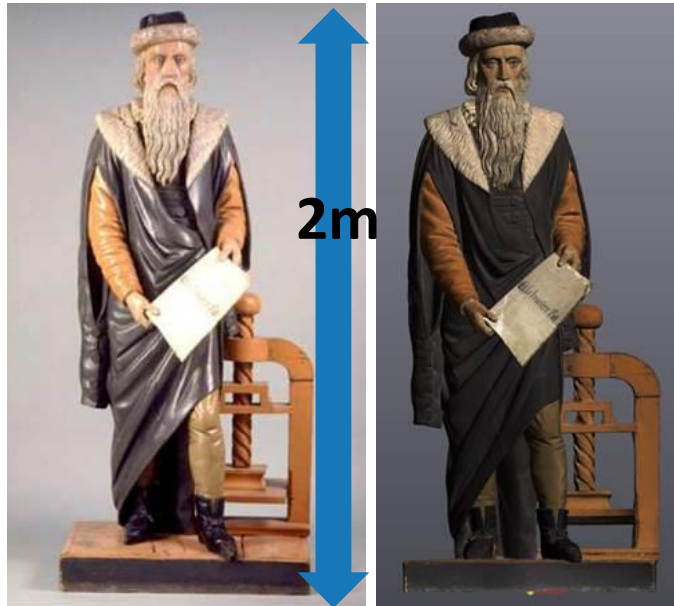
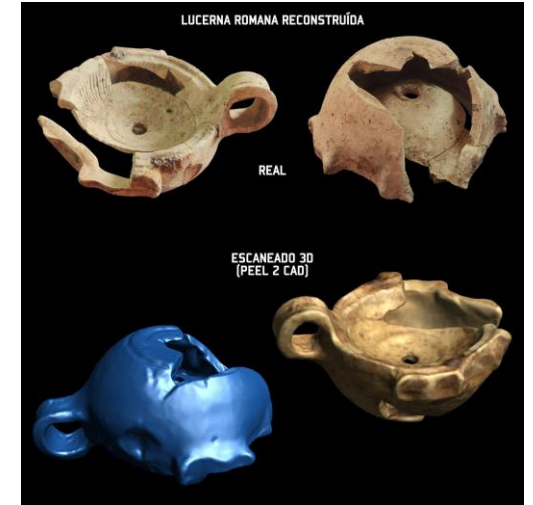


HERITAGE PRESERVATION

Scanning artefacts or scanning archeological sites directly gives a digital colour copy for preservation, reproduction or forensic investigation.



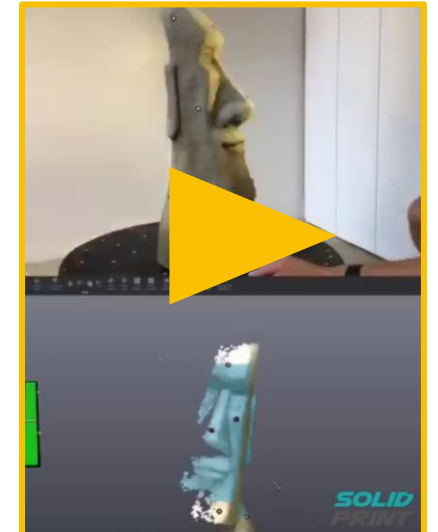
[On-site Archeology \(YouTube\)](#)



[University of Virginia \(Twitter\)](#)



[Moai Head Video \(LinkedIn\)](#)



ARCHITECTURAL

The peel3d is used to capture the architectural detail of old buildings in order to create a digital copy and manufacture a new component. This is used to replace broken or worn parts.



[Neoclassical Details \(Twitter\)](#)



[Church Portico Project \(YouTube\)](#)



[Lunarbunstudio IG post](#)



ART

Artists are using 3d scanning to bring their physical art into the digital world. They can make a smaller or bigger version or create digital archives.

[Movie FX Rod Maxwell on IG](#)



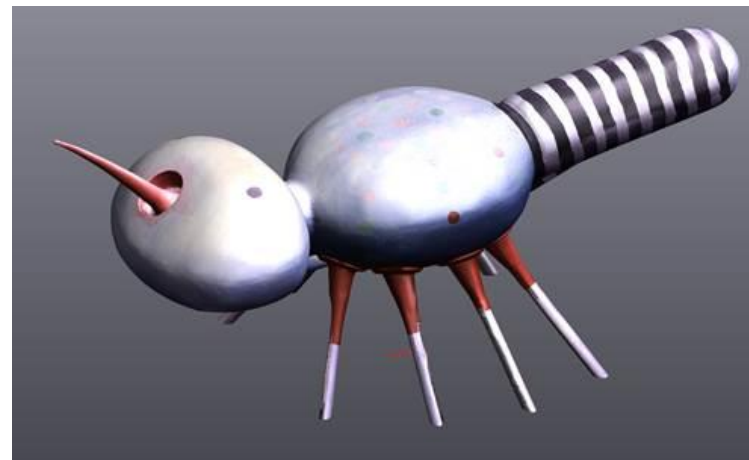
[Decorative Art \(Twitter\)](#)



[Lunarbunstudio IG post](#)

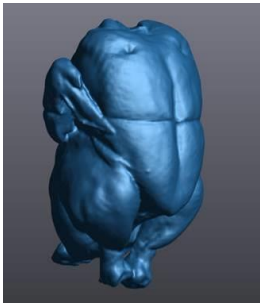


[Sculpture Scan Rod Maxwell on IG](#)



OTHER APPLICATIONS

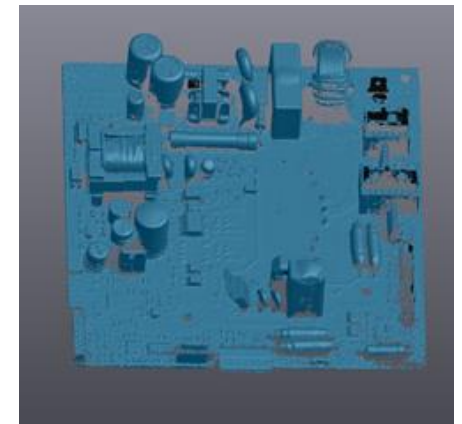
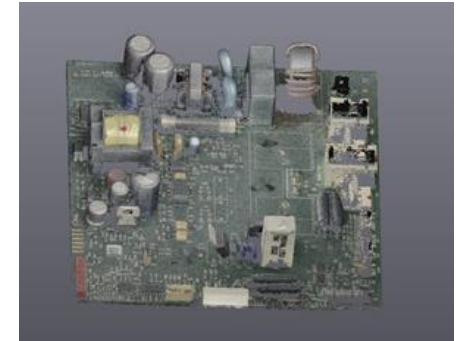
The sky is the limit ! There so many possibilities.



[Chemtron Fruit Scan Video \(IG\)](#)



[Undo Prototipos
Baby Seat
\(Instagram\)](#)



EXTRA: PEEL 3D CULTURE VIDEOS

[Peel3d ad by Solidprint UK \(Instagram\)](#)



[The Design Jungle \(YouTube\)](#)



[More and more videos can be found on our YouTube channel](#)

[Peel3d for engineers \(YouTube\)](#)



[Salvage to Salvage Unboxing \(IG\)](#)

