

*Print*3D

MEDICAL SUPPLY CHAIN SOLUTIONS
COVID-19 RESPONSE



OUR COMPANY

“Anatomics is an ISO-13485:2016 quality certified, vertically integrated, medical device company, with a 2300m2 advanced manufacturing facility recently opened by Australian Health Minister Greg Hunt in Melbourne, Australia. Anatomics was founded in 1995 and is known globally for its quality surgical products that are distributed to over 25 countries. Anatomics has pioneered numerous world firsts in reconstructive surgery and is registered with the TGA, FDA and EU as a medical device manufacturer. Internationally Anatomics is a product development partner, manufacturer and supplier in the UK, EU and USA to BBraun/Aesculap, Germany’s leading medical device and pharmaceutical company. As the COVID-19 pandemic spreads and disrupts supply chains, Anatomics is equipped to respond with a wealth of experience, capability and ingenuity to help doctors, nurses and hospitals through-out the world.”

- Mr Paul D'Urso Neurosurgeon & Founder of Anatomics

Print3D

MEDICAL SUPPLY CHAIN SOLUTIONS

- In response to the unprecedented COVID19 pandemic Anatomics has established Print3D Medical Supply Chain Solutions.
- Using 25 years of experience in advanced medical ISO13485:2016 quality manufacturing Anatomics is now assisting hospitals, medical staff and medical device companies to maintain the supply of urgently required medical consumables and devices.
- Anatomics will endeavour to urgently design, manufacture and deliver medical devices and components that are in short supply to you.
- Please follow our instructions below so that we can help you to continue to deliver care and save lives.

ORDERING PROCESS

Submit Enquiry

- 1 Complete the enquiry form below with brief description and quantity of the required device(s).

Additional information

- 2 Anatomics will require specifications in the form of at least one of the below options:
 - A Photograph(s) of the device
 - A CT Scan of the device
 - A CAD file(s) of the device
 - A link to a product catalogue with the device specification
 - A sample part(s)

Review

- 3 Anatomics will urgently determine if and when we can manufacture & deliver.

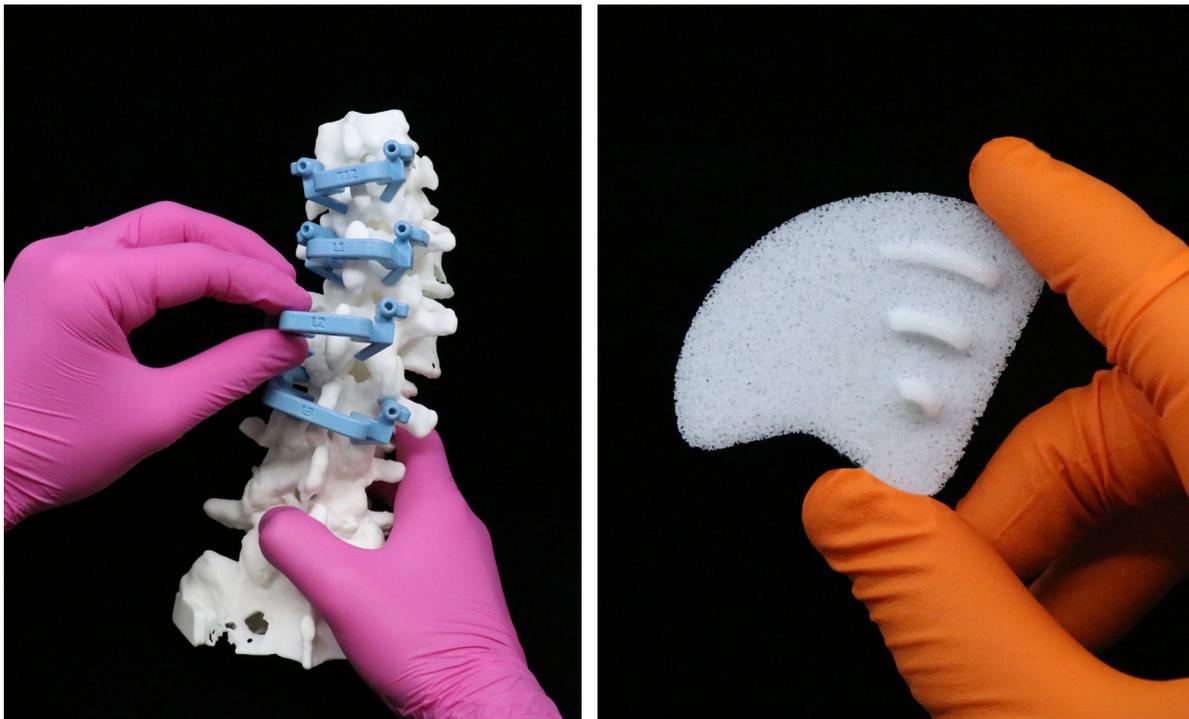
Billing & Delivery

- 4 If the manufacturing is feasible Anatomics will urgently issue an invoice requiring immediate payment online. Anatomics will deliver globally via express courier.

Thank you for the interest in the fight against COVID-19, please provide us with more information below so Anatomics can help your business during crisis. Please check your email for further instructions about uploading additional information.

PRINT3D MEDICAL SUPPLY CHAIN SOLUTIONS

Anatomics has manufactured medical devices continuously for 25 years primarily in the extremely difficult and demanding sector of patient-specific implants for craniofacial reconstruction and have become world renowned in the field, having pioneered the technology in 1995. These devices are fabricated on demand to match an individual patient's defect as defined by a surgeon supplied CT scan and present numerous manufacturing challenges to ensure consistently high-quality products produced in short lead times. The "custom quality surgical" systems and processes Anatomics developed have been adapted and applied in more recent years to the development of high-volume "off the shelf" products for neurosurgery and other reconstructive specialties. This experience allows Anatomics to nimbly pivot from low volume, bespoke production to high volume production as required. Anatomics specific production capabilities, capacity and resources are outlined below.



(Left) 3D-Printed CT Scan with CAD Custom Guides, (Right) Anatomics Off-the-shelf StarPore Implant



Anatomics Manufacturing Facilities, Bentleigh East, VIC.

OUR MANUFACTURING CAPABILITIES

Anatomics' TÜV SÜD certified ISO 13485:2016 facility includes:

- High-end additive manufacturing
 - EOS Selective Laser Sintering with biocompatible Nylon 12
 - Stratasys FDM technology with tough, UV resistant ASA
- Desktop 3D printing
 - Resin-based
 - Filament-based
- Extrusion and moulding of medical grade HDPE parts
- Moulding of permanently implantable PMMA parts
- Moulding of temporarily implantable silicone and polyurethane parts
- Moulding of porous polyethylene permanent implants
- High pressure steam cleaning for medical devices
- Class C cleanroom facilities for medical device finishing and packaging for sterilisation
- Ethylene oxide gas sterilisation
- Laser cutting and etching of plastics
- 4th axis CNC machining of plastics
- Through a long-standing partnership with the CSIRO the proven capability to supply permanently implantable 3D printed titanium alloy parts is available
- Unused factory space of approximately 1000sqm to expand production, storage and/or assembly facilities as required.



Anatomics Manufacturing Facilities, Bentleigh East, VIC.

OUR DIGITAL CAPABILITIES

Anatomics' digital and logistical capabilities include:

- Translation of medical CT scanner data (DICOM) and surface scanner data to CAD and 3D printing formats
 - For patient specific/patient matched devices
 - For reverse engineering of hospital components that may be in short supply
- Web-based ordering portal for upload of medical scan data
 - 3D scans, drawings, specifications can be uploaded
 - Devices and parts can then be reverse engineered and manufactured in short or long production runs on demand
- An Italian company reverse engineered and 3D printed ICU ventilator consumables for emergency use on COVID-19 patients (see <https://www.3dprintingmedia.network/covid-19-3d-printed-valve-for-reanimation-device/>). Anatomics is ideally suited to provide a similar solution.
- 3D printing files can then be made available on Anatomics' portal for other facilities that may require the same solution
- Salesforce platform for customer and order tracking
- Medical CAD/CAM design
- Haptics-based 3D volumetric modelling
- Medical device packaging and labelling
- Established distribution to all major Australian hospitals
- Preferred supplier to Victorian, NSW and Queensland public health services with tender agreements with HPV, HealthShare NSW and QTenders.



OUR ANATOMICS TEAM INCLUDE:

- Biomedical Engineers
- Medical Imaging experts
- Industrial Designers
- Surgical Implant Technicians
- Product Development Engineers
- Quality and regulatory experts
- Dentists
- Surgeons
- Software Engineers
- Customer service specialists
- Product sales specialist staff based in Melbourne, Adelaide, Brisbane, Sydney and Perth.

SOLUTION POSSIBILITIES: Let Us Know What You Need

Anatomics' expertise in product design, CAD and additive manufacturing allows designs of items to be adjusted as required.

Surgical goggles/eyewear: The frame is manufactured from Nylon 12 with clear PETG inserts for vision and eye protection. The PETG inserts are removable for replacement and cleaning. The nylon frames are durable to withstand repeated automated cleaning and can be sterilised via high-temperature steam multiple times. Anatomics has also developed a full-face shield with the same materials and reusability concept.

Anatomics can also manufacture other pandemic related items:

- Medical equipment consumables/spare parts that cannot be sourced due to supply chain disruptions
- Full-face shields with cleanable/sterilisable frames and replaceable shields
- Reusable, durable face mask frames
- Adapters for protective mask filters
- Hands-free door openers
- Hand sanitiser dispensers

EXAMPLES OF OUR SOLUTIONS



Anatomics Full-Face Shield, Prototype Sample Image.

EXAMPLES OF OUR SOLUTIONS



Anatomics Door-Opener, Prototype Sample Image.

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