Covid-Response
Digital Inventory Catalogue

Last Updated 4/2/2020

COVID response

Bringing 3D Printing to the fight with COVID-19

covid.3yourmind.com

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Legal Disclaimer

3YOURMIND will not become a contracting party in regard to the production and delivery of parts. 3YOURMIND is only providing the platform for coordination and streamlining of supply chains.

All parts that are shown here are collected as a courtesy to increase transparency of 3D parts that have been used in a medical facility or are in some phase of certification / testing. 3YOURMIND has documented, to the best of their current knowledge, the source for this information and can provide further contact details upon request. This is done as an attempt to minimize risk by showing 3D parts that have had some level of practical use by medical professionals.

However, all items that are produced, all 3D files that are accessed should still be regarded as prototypes and are produced at the risk of the final 3D supplier and the hospital or medical centers that places the order.

The partnership with TÜV SÜD to analyze parts with the AM Part Identifier also represents part recommendations intended to minimize risk, but not to eliminate medical risk or convey a full certification process. If desired, that certification process can be requested directly from TÜV SÜD, outside of the COVID response platform.

Face Masks

Decathlon Diving Mask, Charlotte Valve

Decathlon Diving Mask, Dave Valve

Source: https://www.isinnova.it/
Hospital Validated: Used in Chari Hospital, Italy
Part Description: 2 connectors printed in 3D by FDM to transform a Decathlon diving mask (EasyBreath model) into a non-intrusive respirator NOTE : Unfortunately, printing technologies are different and printers can have different results. It exists the model of a reinforcement jacket for the Charlotte valve (Here)and valve file with stronger nerves. (Here)
Production Equipment Requirements: Technology: FDM Printer: Post-Treatment requirement: Material: PLA

3D Printing Specifications

        PLA filament 1.75 mm
        Nozzle temperature: 205 – 210 ° C
        Build Plate Temperature: 35-50 ° C
        Layer thickness: 0.2 mm
        Supports: only touching the build plate.

        Orientation: Charlotte leaning on the terminal plane (as shown in the images), Dave leaning on the larger diameter vertically.

Assembly Requirements

To be added to a Decathlon snorkeling mask.

Care Instructions

End User Instructions

Link to Published Description:

https://www.3dprintingmedia.network/isinnova-shares-3d-printed-adapter-to-turn-snorkeling-mask-into-a-non-invasive-ventilator/

Prague, Reusable Decathlon Diving Mask

Picture: Jlndrichuv Hradec Hospital Czech Republic

Source: www.ec-covid.eu	
Validation: Inspired by the Italian project from Brescia Lombardia (Isinnova), using Decathlon diving masks in hospitals as a breathing mask for artificially lung respirators, a group of volunteers (idea created and led by a team David Miklas a Martin Hřeben) of the Czech Technical University ČVUT created a 3D printable DIY emergency solution for Doctors and Nurses. Being tested in Helios Clinic, Berlin.	
Part Description: Adapter to configure a Decathlon diving mask for use with a Czech, military grade particle filter (P3R).	

Production Equipment Requirements:
    Technology:
    Printer:
    Post-Treatment requirement:
    Material: PET-G	

3D Printing Specifications	
Assembly Requirements	

- Documentation for DIY production of Mask is available here: https://www.ec-covid.eu/downloads/easybreath.en.pdf
- Base product is the Decathlon Scuba Diving Mask Easybreath Subea, Item number 8526111, in any color version (older type) which is usually available locally for approximately 20-26 €.
- Adapter for the mask to be printed on any 3D-printer with a free license for non-commercial purposes STL printing file download here: www.ec-covid.eu printing material PET-G.
- A military grade reusable (after regular sterilization) Czech particle filter (P3R). This particle filter exceeds more then 500x the respective norm EN 143/A1 (at normed flow 95 l/min) for appr. 30 days, when sterilized for min 45 minutes at 60 °C.life to 10 years. Official name Particle filter:details and ex stock availability click here:www.ec-covid.eu
- Standard O-rings appr. 40 x 1.5-2mm for sealing off the connections please check fit yourself.

- **Disclaimer:** The solution is of course not certified by medical standards - users or patients must sign a waiver in local language
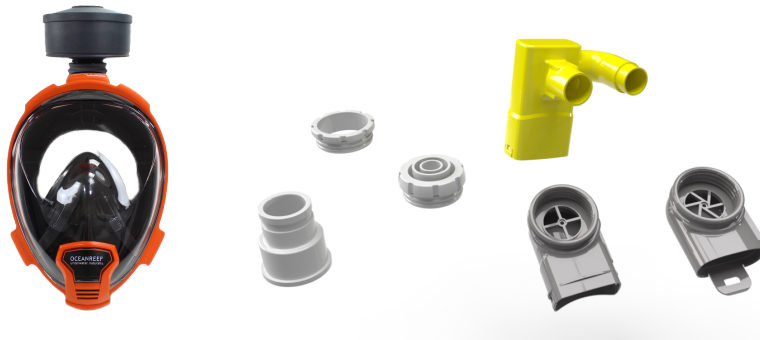
Care Instructions

End User Instructions

Link to Published Description:
https://www.ec-covid.eu/downloads/easybreath.en.pdf

Ocean Reef Diving Mask, Aria for Charlotte

Source: https://www.isinnova.it/, https://oceanreefgroup.com/covid19#9	
Hospital Validated: Has not completed testing & certification process yet, but is based on project done with Decathlon masks at hospital in Chari Hospital, Italy	
Part Description: Adaptor is designed to be used with Ocean Reef mask and two other components available in their general catalogue products to create the full working ventilation mask.	

Production Equipment Requirements:
    Technology: FDM
    Printer:
    Post-Treatment requirement:
    Material: PLA	

3D Printing Specifications
    PLA filament 1.75 mm
    Nozzle temperature: 205 – 210 ° C
    Build Plate Temperature: 35-50 ° C
    Layer thickness: 0.2 mm
    Supports: only touching the build plate.
    Orientation: Charlotte leaning on the terminal plane (as shown in the images), Dave leaning on the larger diameter vertically.	

Assembly Requirements These adaptor's designs are available for download, but we want to clarify that the printed pieces of plastic will only serve as a connection, but not guarantee proper functionality. In fact, our design requires 2 more components (which we mold and use on various of our catalogue products). We have opened up to this open source solution understanding that, if this solution is found to be functional, our internal production might not be able to meet necessity/demand.	

RP95-3D Respirator

Source: From The Czech Institute of Computer Science, Robotics and Cybernetics	
Hospital Validated: FFP3 class safety half mask with interchangeable external filters	
Part Description: The CIIRC RP95-3D is a personal protective equipment – half-mask – with a P3 replaceable external filter which has been certified as a kit according to EN 140:1999 norm. It meets the same or higher degree of protection as a FFP3 class respirator.	

Production Equipment Requirements:
    Technology:
    Printer: HP MJF 3D printers (MJF 4200 and MJF 5200)
    Post-Treatment requirement:
    Material: PA 12	

3D Printing Specifications	
Assembly Requirements	

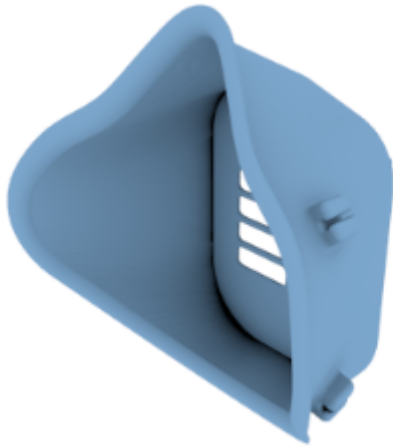| |
|---|
| ● SIGMA P3 filter needed |
| **Care Instructions** |
| **End User Instructions** |
| **Link to Published Description:**
 https://www.fabbaloo.com/blog/2020/3/27/3d-printable-respirator-design-receives-certification

 https://www.radio.cz/en/section/curraffrs/czech-researchers-develop-top-grade-respirator-for-3d-printing |

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Stopgap Face Mask (2 pieces)

Source:
https://3dprint.nih.gov/discover/3dpx-013429

Hospital Validated:
The design has undergone review in a clinical setting and is recommended when fabricated as instructed.

Part Description:
It consists of two main components (the mask body and the filter cover) and contains features for attaching two elastic straps and receiving a patch of filter material.

Production Equipment Requirements:
 Technology: Powder Bed Fusion, MJF
 Printer: HP MJF → 300/500 Series, 4200, or 5200 Series
 EOS P110 or older, P396 or older, P770 or older
 3D Systems ProX 500/ ProX 6100 sPro 60 sPro 140 sPro 230
 Post-Treatment requirement:
 https://3dprint.nih.gov/sites/default/files/models/supplemental_documentation/Stopgap%20Face%20Mask%20%28SFM%29%20-%20MJF%20Manufacturing%20Guidance%20for%20-%20Rev%20A_0.pdf
 Material: HP PA12 CB, PA2200

3D Printing Specifications

HP MJF →
https://3dprint.nih.gov/sites/default/files/models/supplemental_documentation/Stopgap%20Face%20Mask%20%28SFM%29%20-%20MJF%20Manufacturing%20Guidance%20for%20-%20Rev%20A_0.pdf

EOS →
https://3dprint.nih.gov/sites/default/files/models/supplemental_documentation/Stopgap%20Face%20Mask%20%28SFM%29%20-%20EOS%20Manufacturing%20Guidance%20-%20Rev%20A.pdf

3D System:
https://3dprint.nih.gov/sites/default/files/models/supplemental_documentation/Stopgap%20Face%20Mask%20%28SFM%29%20-%20SLS%20Manufacturing%20Guidance%20for%20-%20rev%20D_0.pdf

Assembly Requirements

Care Instructions
https://3dprint.nih.gov/sites/default/files/models/supplemental_documentation/Stopgap%20Face%20Mask%20%28SFM%29%20-%20Instructions%20for%20Use_Rev%203_0_0.pdf

End User Instructions

Link to Published Description:

Protective Face Shield

RC3 - Prusa Research Face Shield

Source: https://www.prusaprinters.org/prints/25857-prusa-protective-face-shield-rc2	
Hospital Validated: two verifications with the Czech Ministry of Health.	
Part Description: Headband for attaching a PET visor for protection	

Production Equipment Requirements:
    Technology:
    Printer:
    Post-Treatment requirement: Disinfection, more details:
    https://www.prusa3d.cz/COVID19/
    Material: PETG	

3D Printing Specifications Supports are not necessary. Print with at least 3 perimeters, about 30% infill. Ideally, print it from PETG.	
Assembly Requirements https://prusa3d.com/downloads/others/PrusaFaceShield_assembly.pdf	

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Care Instructions Disinfection (being verified): IPA (min 75%), ethanol (min78%) and virucide solutions. Disinfect at least for 5 minutes
End User Instructions
Link to Published Description: **https://www.3dnatives.com/en/prusa-medical-shields-covid-19-200320205/**

Stratasys Face Shield

Source: https://go.stratasys.com/lp-face-shield.html	
Hospital Validated:	
Part Description: Headband for attaching a PET visor for protection	
Production Equipment Requirements: **Technology:** **Printer:** F370. F450, F900, FDM printer, HP MJF, Laser Sintering **Post-Treatment requirement:** **Material:** PLA	
3D Printing Specifications	
Assembly Requirements - 1 Visor - 1 Shield - 1 #33 Rubber band (or other fastener) Attach the shield to the visor by placing the holes on top of the three mounting points on the visor. Rotate the visor counter-clockwise or the shield clockwise until the shield is in-place. Attach the #33 rubber band to the rear-side of the visor. Place the rear of the visor on the back of your head and slide the visor over your head until the front of the visor is on your forehead and the shield covers your face.	
Care Instructions	
End User Instructions	
Link to Published Description:	

HP Face Shield
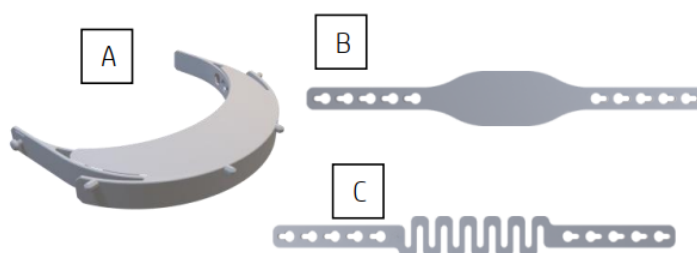
Source: https://enable.hp.com/us-en-3dprint-COVID-19-containment-applications	
Hospital Validated:	
Part Description: Headband for attaching a PET visor for protection 3 parts to print.	

Production Equipment Requirements:
    Technology:
    Printer: HP MJF
    Post-Treatment requirement: Sterilization
    Material: HP 3D High Reusability PA 12
    ULTRASINT® TPU01 or ESTANE® 3D TPU M95A	

3D Printing Specifications	
Assembly Requirements 0. Use the hole punch to make the holes in the acetate sheet. Normally you can use a standard office hole punch as shown above. Make the holes at approximately at 38mm/1.5in from each of the short edges of the A4 acetate. For better accuracy, use the template provided below. Try first with one sheet. Once validated and properly assembled, repeat with the rest of sheets to prepare them for assembly. Ordered lists of steps: 1. Take part B and attach it to part A through the pins on the sides, perpendicular to it.	

This will help the face shield to stay in place without falling.
2. Take the string part (C) and attach it the same way as in the first step, through the same two pins on
each end of part A.
Additional flexibility of this part to facilitate putting the face shield on and taking it off.
3. Assemble the acetate sheet to the structure inserting the pins through the holes.

| **Care Instructions** |
| **End User Instructions** |
| **Link to Published Description:** |

Carbon Face Shield

Source: **https://www.carbon3d.com/dls-face-shield-instructions/**
Hospital Validated: Already being tested at Stanford Hospital and with Kaiser Permanente.
Part Description: Face shield

Production Equipment Requirements:
    Technology: DLS Technology
    Printer: Carbon M2 or L1 printer
    Post-Treatment requirement:
    - IPA or a Smart Part Washer™ with VF 1 solvent (in process of validating DPM)
    - UV curing box (needs be at least 190 mm by 108 mm size to fit the bracket) such as:

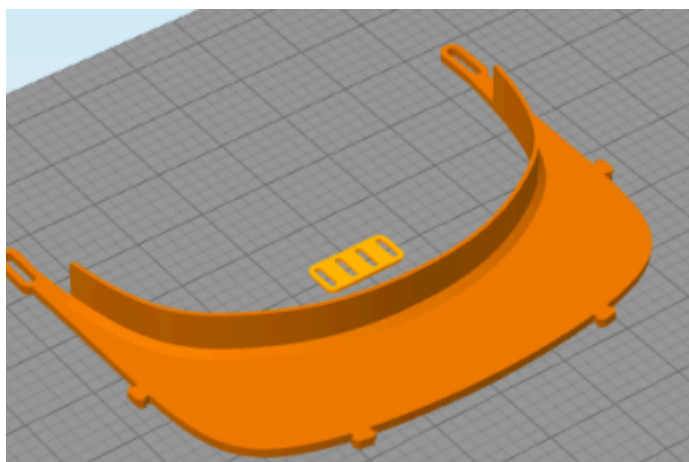| |
|---|
| APM LED UV-Cube II
Dymax ECE 5000
Opticure LED Cube
Dreve PCU 90

Material: DPR 10 (preferred) and UMA 90 |
| **3D Printing Specifications** |
| **Assembly Requirements**
https://www.carbon3d.com/dls-face-shield-instructions/ |
| **Care Instructions** |
| **End User Instructions**
● Cleaning and Disinfecting of Face Shields
Both the transparent film and the head bracket of the face shield should be disinfected before and after use. We advise disinfecting with a chemical disinfectant known to be effective against COVID-19 like Isopropanol (70%).
If wiping techniques are not possible, the head band can also be soaked in bleach and soap-water and subsequently wiped prior to use.
● Do not soak the headband in isopropanol or organic solvents. |
| **Link to Published Description:**
https://www.3dprintingmedia.network/carbon-joins-covid-19-relief-efforts-with-3d-printed-face-shields-swabs-and-more/ |

Budmen Face Shield

Source: https://budmen.com/	
Hospital Validated:	
Part Description: Face shield (2 parts)	

Production Equipment Requirements:
    Technology: Material Extrusion
    Printer:
    Post-Treatment requirement:
    Material: PETG (recommended) / PLA	

3D Printing Specifications
3D Print both the face-shield.stl and strap-lock.stl. Orient both 3D models to print flat on the build platform. We recommend printing both models with as large a layer height as possible to expedite the print time

Assembly Requirements
Bill of materials:
1x 3D Printed IC3D Budmen Face Shield V1 (bracket)
2x 3D Printed Strap Locks
18" Elastic Band (1/2" wide works well)
9" Foam Pad, any closed-cell foam safe for skin contact works (Weatherstrip or towel works for makeshift)
9x12" Clear PETG Sheet (Shield), thickness range 0.010" to 0.030" works well
Cut / drill holes using the DXF template printed at 100% scale
Acetate sheets also work

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Instructions: Loop each end of the elastic band through the middle holes of each strap lock (leave about 2") Thread each end into the holes of the Face Shield Bracket Loop each end of the elastic band through the outer holes of each strap lock to create the adjustment feature Attached foam pad via adhesive backing Contact cement works well if needed Attached Shield using the middle holes first on the Face Shield Bracket Slip the edge of the Shield into the slot on the Bracket, then secure outer hole Repeat for the other side
Care Instructions
End User Instructions
Link to Published Description:

Avid Face Shield

|	
Source: https://enable.hp.com/us-en-3dprint-COVID-19-containment-applications	
Hospital Validated:	
Part Description: Avid Face Shield	

Production Equipment Requirements:
    Technology: HP MJF
    Printer: 52XX , 42XX
    Post-Treatment requirement: None // Cleaning : Sand Blasting
    Material: PA 11, PA12	

3D Printing Specifications The best part quality can be achieved by placing the parts in the horizontal orientation. https://s843062548.t.en25.com/e/er?s=843062548&lid=6462&elqTrackId=c74c700e0901410a9fb1922533dc220e&elq=00000000000000000000000000000000&elqaid=4271&elqat=2	
Assembly Requirements	

1. Align one of the side holes on the plastic film with one of the side pins on the frame. Keeping the hole looped over the side pin, loop the middle hole over the middle pin, then the other side hole over the remaining side pin. Embossed lettering should be readable. You can bend the frame to ease fitting.
2. Once the sheet is attached to the frame, bend the front of the frame to slot together the interior straps, keeping the bend in place. Pull the interior straps to ensure pins are properly slotted and locked into place.
3. Fit the face shield to the user's forehand, and secure the strap behind the head using adjustable slot locations. Readjust to ensure a snug fit.

Link to Published Description:

Door Openers
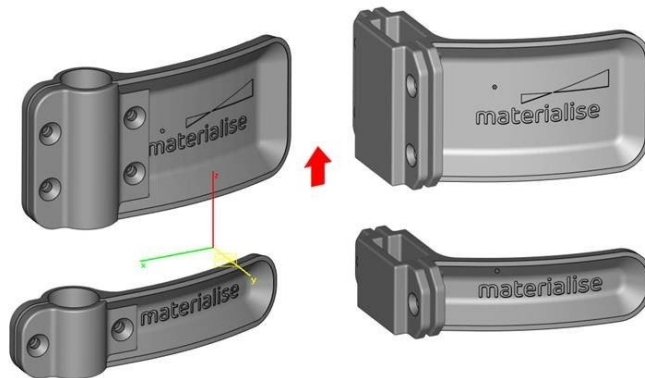
2020 © Materialise

Materialise Hands Free Door Opener,

Cylindrical Narrow

Source: https://www.materialise.com/en/hands-free-door-opener/technical-information
Hospital Validated: Not required, used in various hospitals but only confirmed for long term use with medically confirmed plastic.
Part Description: Two component piece to extend a door handle so that doors can be opened with an arm / clothing rather than using the door handle.
Production Equipment Requirements: 　　**Technology:** FDM 　　**Printer:** 　　**Post-Treatment requirement:** 　　**Material:** PLA
End User Instructions ● Optimal for doors of an average weight, like household doors ● Suitable for both curved and non-curved handles ● Fits cylindrical handles between 16 and 22 mm ● Requires one M4 x 12 screw and one M4 x 16 screw
Link to Published Description: https://3dprintingindustry.com/news/materialise-supports-global-coronavirus-containment-efforts-with-3d-printed-hands-free-door-opener-169119/

Materialise Hands Free Door Opener, Cylindrical Wide

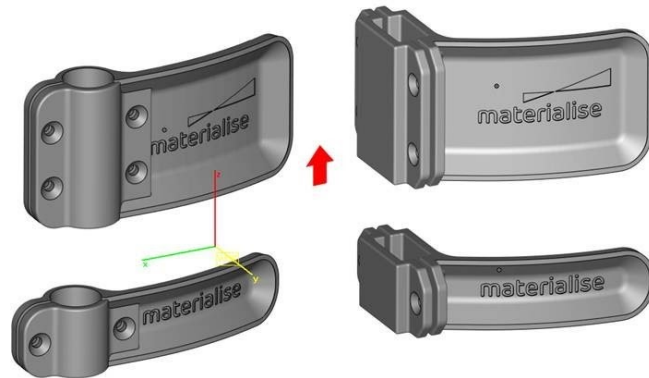| |
|---|
| **Source:**
https://www.materialise.com/en/hands-free-door-opener/technical-information |
| **Hospital Validated:**
Not required, used in various hospitals but only confirmed for long term use with medically confirmed plastic. |
| **Part Description:**
Two component piece to extend a door handle so that doors can be opened with an arm / clothing rather than using the door handle. |
| **Production Equipment Requirements:**
    Technology: FDM
    Printer:
    Post-Treatment requirement:
    Material: PLA |
| **End User Instructions**
● Optimal for doors of an above-average weight, including fireproof doors with hydraulic pumps
● Suitable for non-curved handles
● Fits cylindrical handles between 16 and 22 mm
● Requires two M4 x 12 screws and two M4 x 16 screws |
| **Link to Published Description:**
https://3dprintingindustry.com/news/materialise-supports-global-coronavirus-containment-efforts-with-3d-printed-hands-free-door-opener-169119/ |

2020 © Materialise

Materialise Hands Free Door Opener, Rectangular, Narrow Vertical

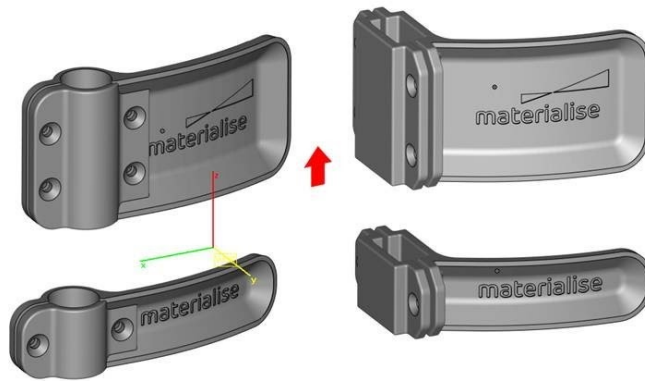| |
|---|
| **Source:**
https://www.materialise.com/en/hands-free-door-opener/technical-information |
| **Hospital Validated:**
Not required, used in various hospitals but only confirmed for long term use with medically confirmed plastic. |
| **Part Description:**
Two component piece to extend a door handle so that doors can be opened with an arm / clothing rather than using the door handle. |
| **Production Equipment Requirements:**
      Technology: FDM
      Printer:
      Post-Treatment requirement:
      Material: PLA |
| **End User Instructions**
   ● Optimal for doors of an average weight, for example household doors
   ● Suitable for both curved and non-curved handles
   ● Fits rectangular, horizontal handles with a height between 11 mm to 20 mm and a depth of at most 25 mm
   ● Requires one M4 x 12 screw and one M4 x 16 screw |
| **Link to Published Description:**
https://3dprintingindustry.com/news/materialise-supports-global-coronavirus-containment-efforts-with-3d-printed-hands-free-door-opener-169119/ |

Materialise Hands Free Door Opener, Rectangular, Wide Vertical

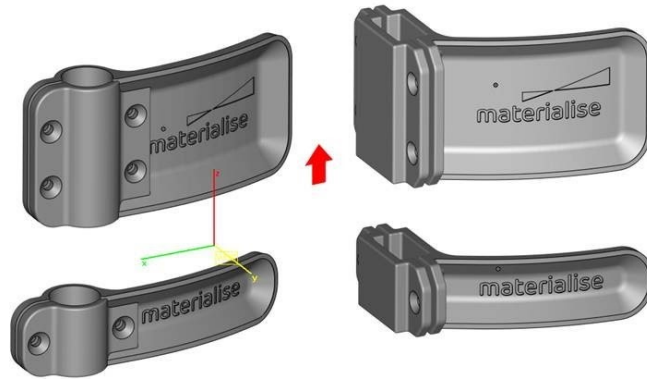| |
|---|
| **Source:**
https://www.materialise.com/en/hands-free-door-opener/technical-information |
| **Hospital Validated:**
Not required, used in various hospitals but only confirmed for long term use with medically confirmed plastic. |
| **Part Description:**
Two component piece to extend a door handle so that doors can be opened with an arm / clothing rather than using the door handle. |
| **Production Equipment Requirements:**
　　　Technology: FDM
　　　Printer:
　　　Post-Treatment requirement:
　　　Material: PLA |
| **End User Instructions**
● Optimal for doors of an above-average weight, including fireproof doors with hydraulic pumps
● Suitable for non-curved handles
● Fits rectangular, horizontal handles with a height between 11 mm to 20 mm and a depth of at most 25 mm
● Requires two M4 x 12 screws and two M4 x 16 screws |
| **Link to Published Description:**
https://3dprintingindustry.com/news/materialise-supports-global-coronavirus-containment-efforts-with-3d-printed-hands-free-door-opener-169119/ |

Wrist Cover

HP - Wrist Cover

Source: **https://enable.hp.com/us-en-3dprint-COVID-19-containment-applications**	
Hospital Validated:	
Part Description: Designed to cover the skin between a glove and the end of a lab coat sleeve, avoiding exposure.	

Production Equipment Requirements:
     Technology: HP MJF
     Printer: HP MJF
     Post-Treatment requirement: In order to clean/sterilize this device, autoclave cannot be used.
 If this device has been produced with HP 3D High Reusability PA 12 material, it is recommended to sterilize using a formaldehyde solution.
 	
 If this device has been produced with ULTRASINT® TPU01 or ESTANE® 3D TPU M95A material, then it is recommended to sterilize by submerging it in a dissolution of bleach in water. The specifics used are: a pill of Sodium Dichloroisocyanurate (81%) dissolved in 8 liters of water. The device should be submerged for 5 minutes and then dried.
     Material: HP PA12, ULTRASINT® TPU01 or ESTANE® 3D TPU M95A	

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End User Instructions
- This device does not replace PPE. USE ALWAYS with gloves and medical gown. This is a supplementary device that should always be used on top of homologated PPE.

Link to Published Description:

Connector

Parc Taulí - Connector "Y" for the standard Suction Secretions

Source: http://www.tauli.cat/institut/planificacio-quirurgica-impressio-3d/covid-3d/cataleg/#3dpt005	
Hospital Validated: The clinical utility of this piece has validated Park Been table with PLA for FDM.	
Part Description: Standard "Y" connector	
Production Equipment Requirements: **Technology:** **Printer:** FDM **Post-Treatment requirement:** **Material:** PLA	
End User Instructions	
Link to Published Description:	

Parc Taulí - Connector "Y" for airway tube of 18 mm

Source: http://www.tauli.cat/institut/planificacio-quirurgica-impressio-3d/covid-3d/cataleg/#3dpt007	
Hospital Validated: The clinical utility of this piece has validated Park Been table with PLA for FDM.	
Part Description: Connector "Y" for airway tube of 18 mm	

Production Equipment Requirements:
     Technology:
     Printer: FDM
     Post-Treatment requirement:
     Material: PLA	

End User Instructions	
Link to Published Description:	

Parc Taulí - 18-22 mm straight connector for air tube
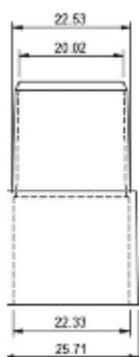
Source: http://www.tauli.cat/institut/planificacio-quirurgica-impressio-3d/covid-3d/cataleg/#3dpt008
Hospital Validated: The clinical utility of this piece has validated Park Been table with PLA for FDM.
Part Description: 18-22 mm straight connector for air tube
Production Equipment Requirements: Technology: Printer: FDM Post-Treatment requirement: Material: PLA
End User Instructions
Link to Published Description:

Parc Taulí - Connector straight double conical tubes for oxygen 10mm diameter

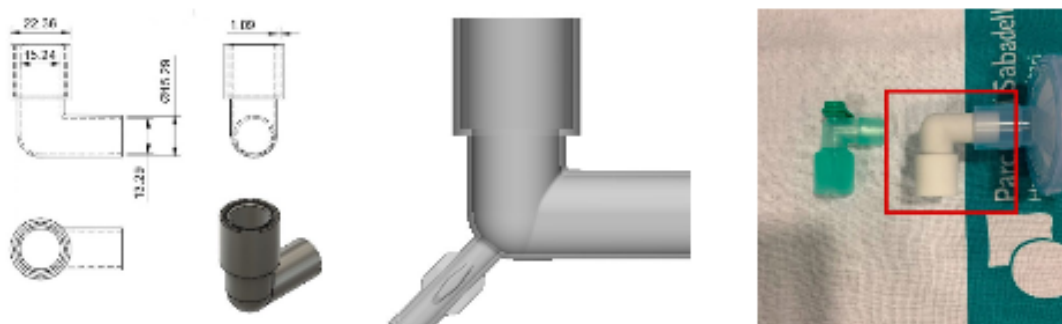|	
Source: http://www.tauli.cat/institut/planificacio-quirurgica-impressio-3d/covid-3d/cataleg/#3dpt013	
Hospital Validated: The clinical utility of this piece has validated Park Been table with PLA for FDM.	
Part Description: Connector straight double conical tubes for oxygen 10mm diameter	

Production Equipment Requirements:
    Technology:
    Printer: FDM
    Post-Treatment requirement:
    Material: PLA	

End User Instructions	
Link to Published Description:	

Parc Taulí - Elbow for 15-22mm tube connection port for airway pressure measurement

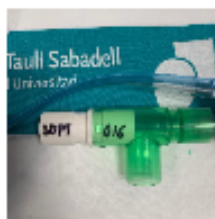|	
Source: http://www.tauli.cat/institut/planificacio-quirurgica-impressio-3d/covid-3d/cataleg/#3dpt014	
Hospital Validated: The clinical utility of this piece has validated Park Been table with PLA for FDM.	
Part Description: Elbow for 15-22mm tube connection port for airway pressure measurement	

Production Equipment Requirements:
    Technology:
    Printer: FDM
    Post-Treatment requirement:
    Material: PLA	

End User Instructions	
Link to Published Description:	

Parc Taulí - Straight connector 15-18 mm air pipe

Source: http://www.tauli.cat/institut/planificacio-quirurgica-impressio-3d/covid-3d/cataleg/#3dpt016
Hospital Validated: The clinical utility of this piece has validated Park Been table with PLA for FDM.
Part Description: Straight connector 15-18 mm air pipe

Production Equipment Requirements:
  Technology:
  Printer: FDM
  Post-Treatment requirement:
  Material: PLA

End User Instructions
Link to Published Description:

Parc Taulí - 18-22 mm with 5.5 mm connector port side oxygen

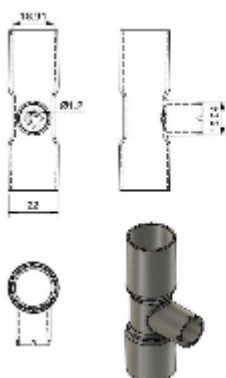|	
Source: http://www.tauli.cat/institut/planificacio-quirurgica-impressio-3d/covid-3d/cataleg/#3dpt018	
Hospital Validated: The clinical utility of this piece has validated Park Been table with PLA for FDM.	
Part Description: 18-22 mm with 5.5 mm connector port side oxygen	
Production Equipment Requirements: 　　**Technology:** 　　**Printer:** FDM 　　**Post-Treatment requirement:** 　　**Material:** PLA	
End User Instructions	
Link to Published Description:	

Parc Taulí - Intentional viricobacteria filter drain plug for 18-18 mm with 15 mm T

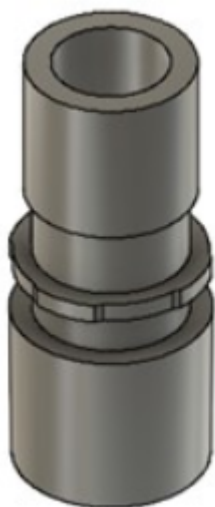|	
Source: http://www.tauli.cat/institut/planificacio-quirurgica-impressio-3d/covid-3d/cataleg/#3dpt019	
Hospital Validated: The clinical utility of this piece has validated Park Been table with PLA for FDM.	
Part Description: Intentional viricobacteria filter drain plug for 18-18 mm with 15 mm T	

Production Equipment Requirements:
    Technology:
    Printer: FDM
    Post-Treatment requirement:
    Material: PLA	

End User Instructions	
Link to Published Description:	

Parc Taulí - Straight connector for 15-22mm airway tube

Source: http://www.tauli.cat/institut/planificacio-quirurgica-impressio-3d/covid-3d/cataleg/#3dpt024	
Hospital Validated: The clinical utility of this piece has validated Park Been table with PLA for FDM.	
Part Description: Straight connector for 15-22mm airway tube	

Production Equipment Requirements:
    Technology:
    Printer: FDM
    Post-Treatment requirement:
    Material: PLA	

End User Instructions	
Link to Published Description:	

Parc Taulí - Tap connector for 15mm tracheotomy

Source: http://www.tauli.cat/institut/planificacio-quirurgica-impressio-3d/covid-3d/cataleg/#3dpt025	
Hospital Validated: The clinical utility of this piece has validated Park Been TPU95A table and FDM technology	
Part Description: Tap connector for 15mm tracheotomy	

Production Equipment Requirements:
     Technology:
     Printer: FDM
     Post-Treatment requirement:
     Material: TPU95A	

End User Instructions	
Link to Published Description:	

European and US Initiative for 3D Part Order Coordination

There has been an outpouring of innovation and desire from the 3D printing community to provide solutions to slow the spread of COVID-19. However, for medical applications in hospitals, there is still a high level of certification which has put up a hurdle to clear before AM can start saving lives.

In response to this need, 3YOURMIND has set up covid.3yourmind.com, a dedicated order management platform where we will match hospitals, clinics, suppliers of medical equipment and other active parties in the effort to restrict the advance of COVID-19 to 3D print services and additive manufacturing services in OEMs who have offered to create medical goods. The parties using our platform will get into a direct contractual relationship. The platform tries to match supply and demand and introduces parties to each other.

We are also working to establish a digital inventory of parts that have:
- ◢ Been used by a doctor on humans
- ◢ Are in process of approval
- ◢ Were developed by machine manufacturers

We are working with TÜV Süd along with individual hospitals to try to establish a larger inventory of parts and evaluate potential parts. The goal is to structure available information and minimize risk (not eliminate). All responsibility for the ordered parts will still lie with the orderers, i.e. individual hospitals.

Evaluate Parts	Get Supplies
If you have designed and want to submit innovative printing ideas.	If you need parts to be printed to support COVID response.
ampi-wirvsvirus.3yourmind.com	**covid.3yourmind.com**