

AGEDESIGN AHAMS

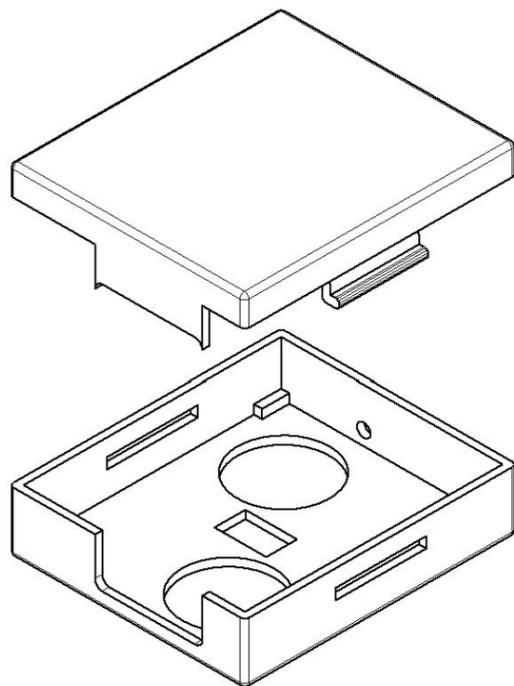
Technical sheets
and executive references



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Integrated sensor

Integrated sensor



Mode of use

- The sensor functions when combined to the bracelet or the hub.
- The sensor activates through the app and the data collected are stored and visible through the app only.
- The LED provides feedback on charging status and on its activation.
- The sensors placed into a non-removable 3D printed case are a photoplethysmograph and a bio-impedance sensor.

Attachments

3D files:

Base case_v26ago.stl
Base case_v26 ago.igs
Tappo case_v26ago.stl
Tappo case_v26ago.igs

Technical Sheets:

1475807-LiPoBattery.pdf
1678381-LiPoBattery_Holder.pdf
CYBLE-222005-00.pdf
MAX86150-ppg.pdf
IUAV_ecg.pdf
luav_Ecg_protocollo_v002.pdf
luav_ecg_BOM_v101.pdf
TopComponents.png
BottomComponents.png
IUAV_ecg.brd
IUAV_ecg.cmp
IUAV_ecg.crc
IUAV_ecg.crs
IUAV_ecg.brd
IUAV_ecg.dri
IUAV_ecg.drl
IUAV_ecg.gpi
IUAV_ecg.l15
IUAV_ecg.ly2
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IUAV_ecg.sol
IUAV_ecg.stc
IUAV_ecg.sts
PartList

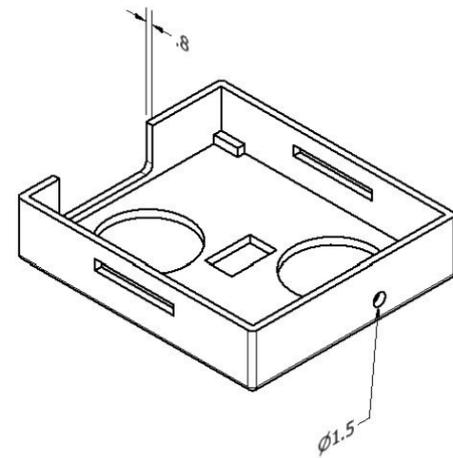
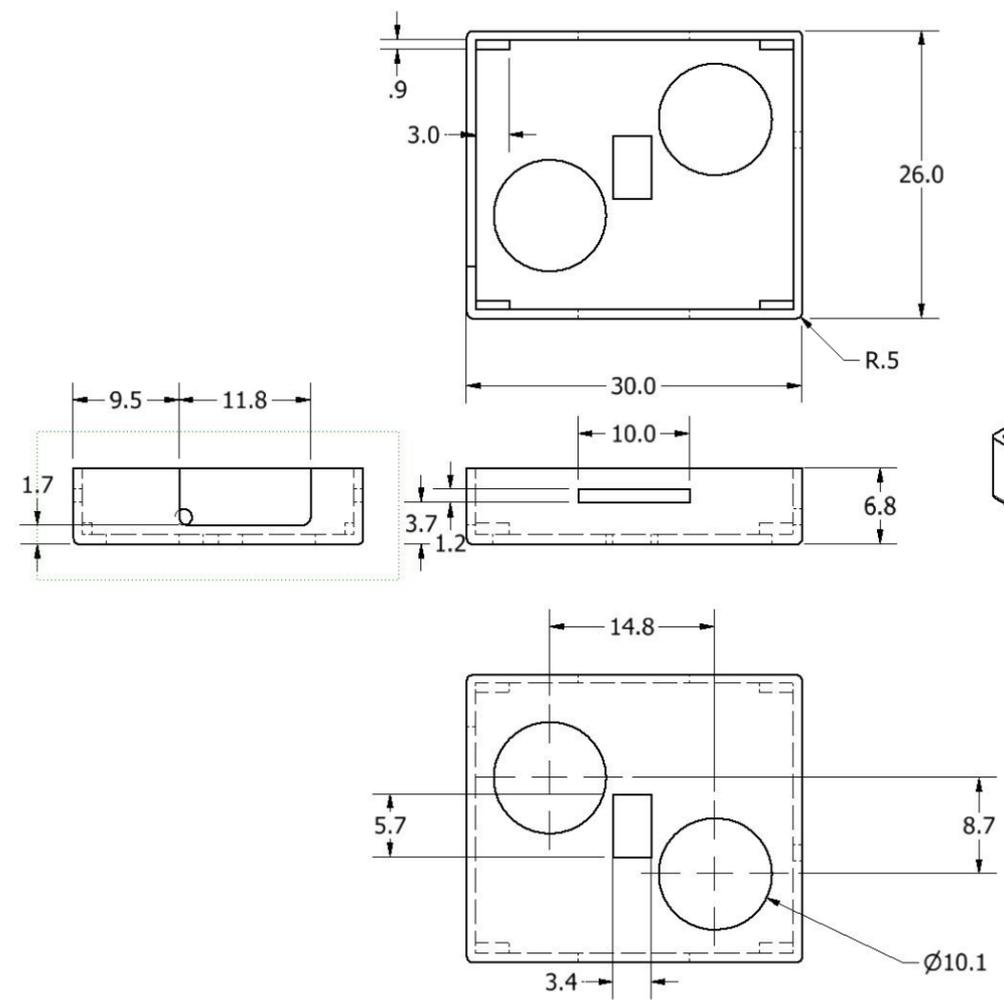
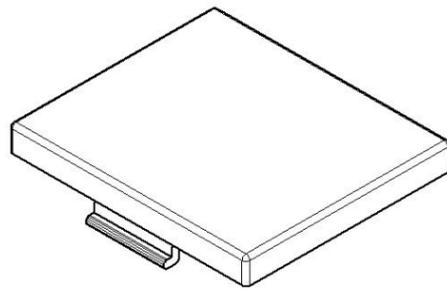
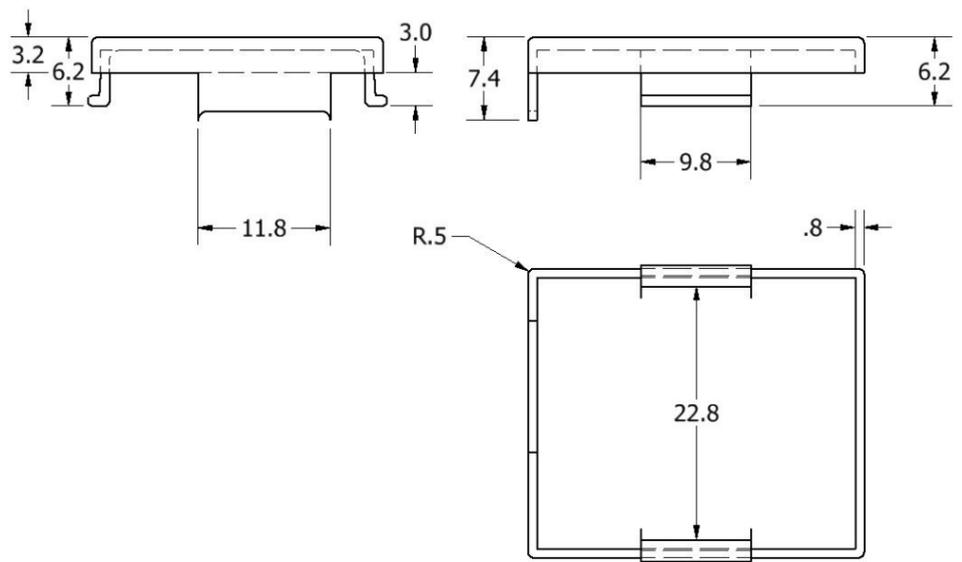
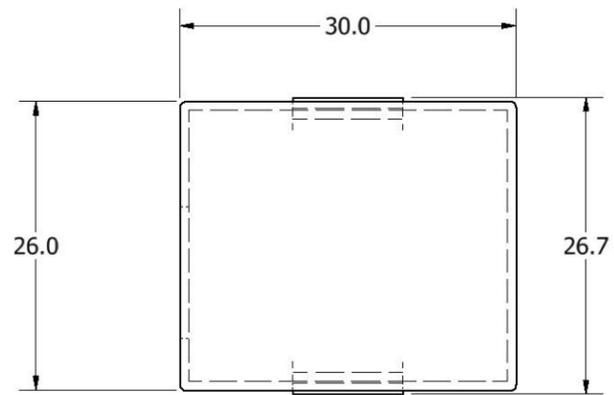
Materials

3D printed ABS



Integrated sensor upper and lower shells

Technical drawings with quotes in mm



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Wristband



Smart wristband



Mode of use

HEARTBEAT MONITORING

- Place the sensor on the wristband with the sensors side on the inside
- Wear the wristband verifying the sensors touch the skin
- Open the application and start the measurements or check the previous records

DEHYDRATION MONITORING

- Place the sensor on the wristband with the sensors side on the inside
- Wear the wristband verifying the sensors touch the skin
- Open the application and start the measurements or check the previous records

Attachments

3D files:
Bracciale.stl
Bracciale.igs
Passante.stl
Passante.igs
Perno chiusura.stl
Perno chiusura.igs

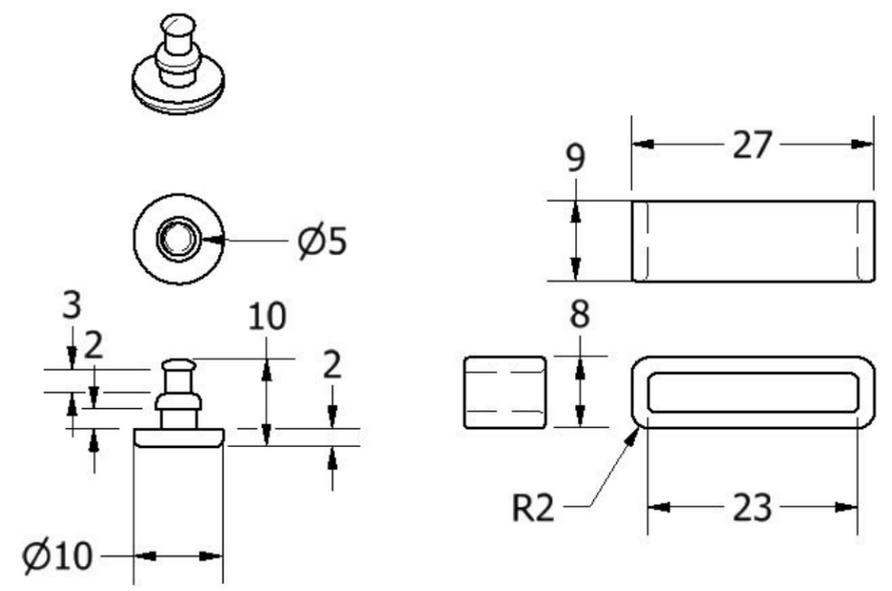
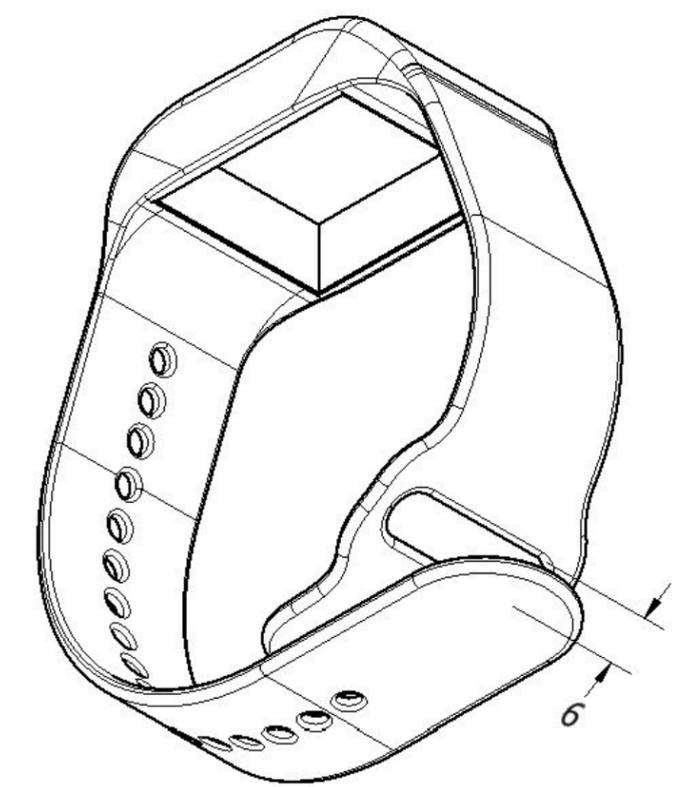
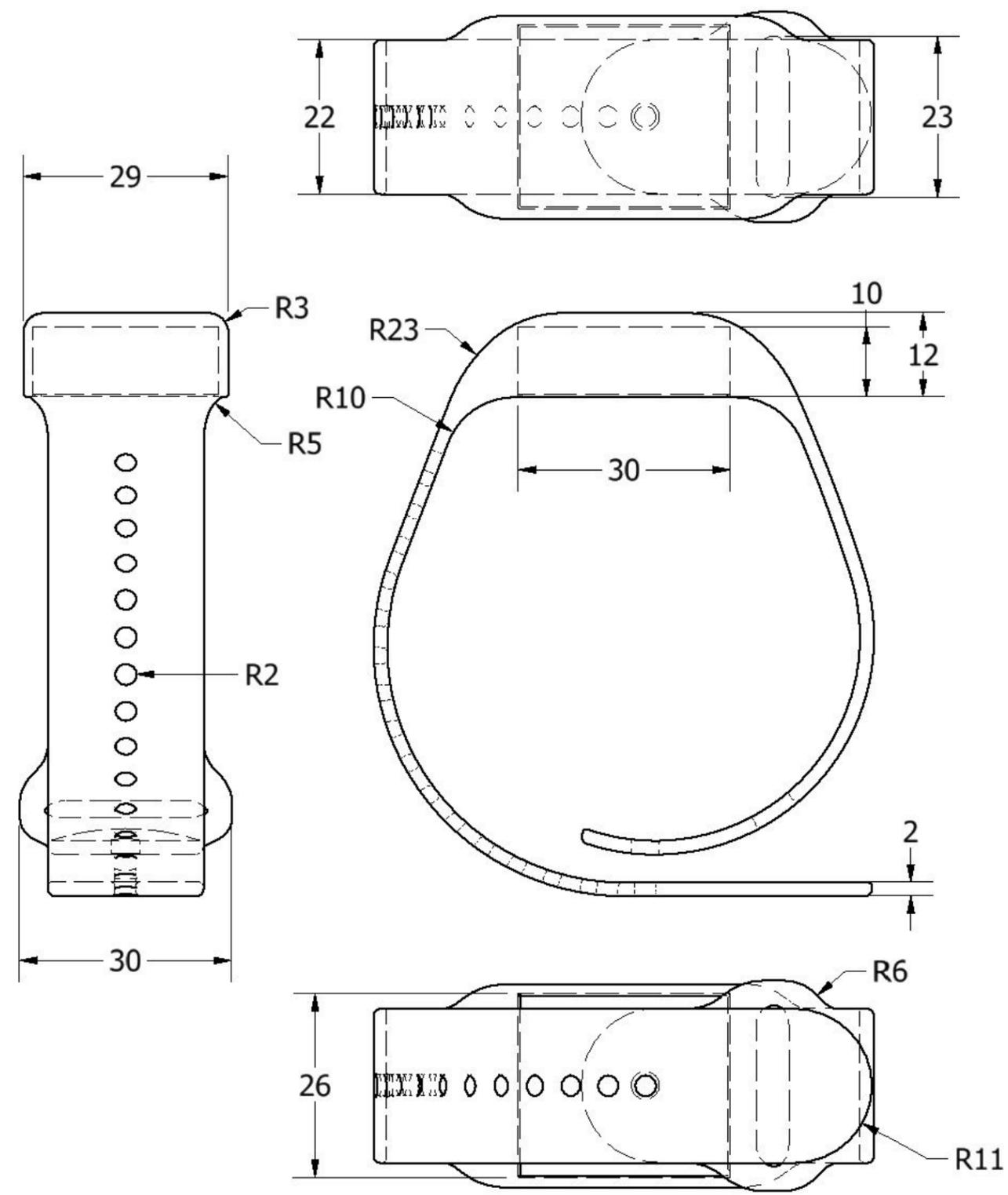
Materials

3D printed silicon



Smart wristband

Technical drawings with quotes in mm



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HUB



HUB



Mode of use

PULSEOXIMETER

- Place the case with the sensor into the HUB, with the sensors positioned on the top
- Select the pulse oximeter function on the App
- Insert the finger into the hub, placing it on the sensor

Mode of use

HEARTBEAT

- Place the case with the sensor into the HUB, with the sensor positioned on the top
- Select the heartbeat monitoring function on the App
- Place the index fingertips on the plaques located at the side of the hub

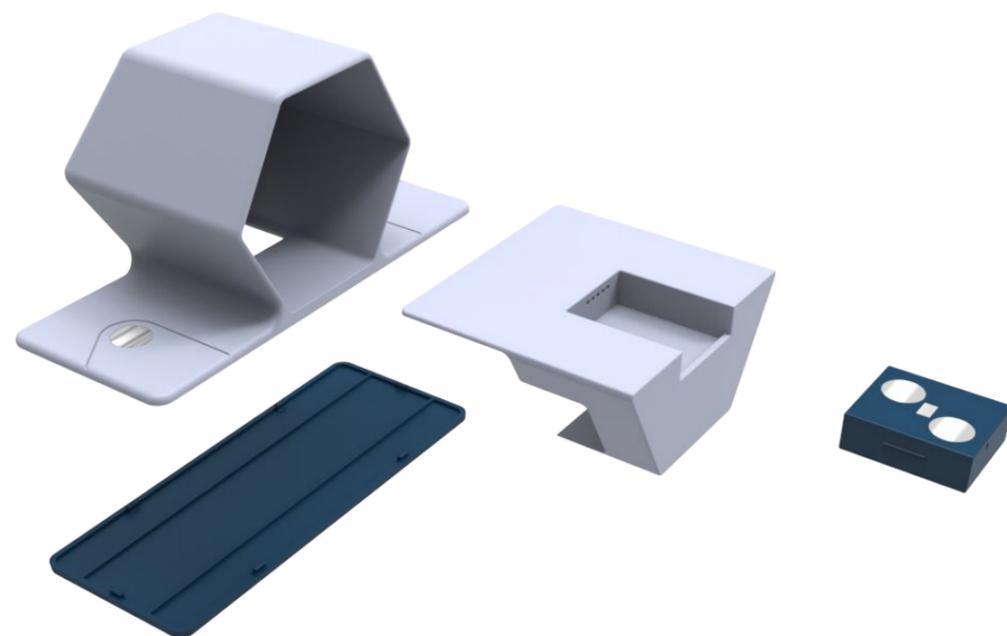


Attachments

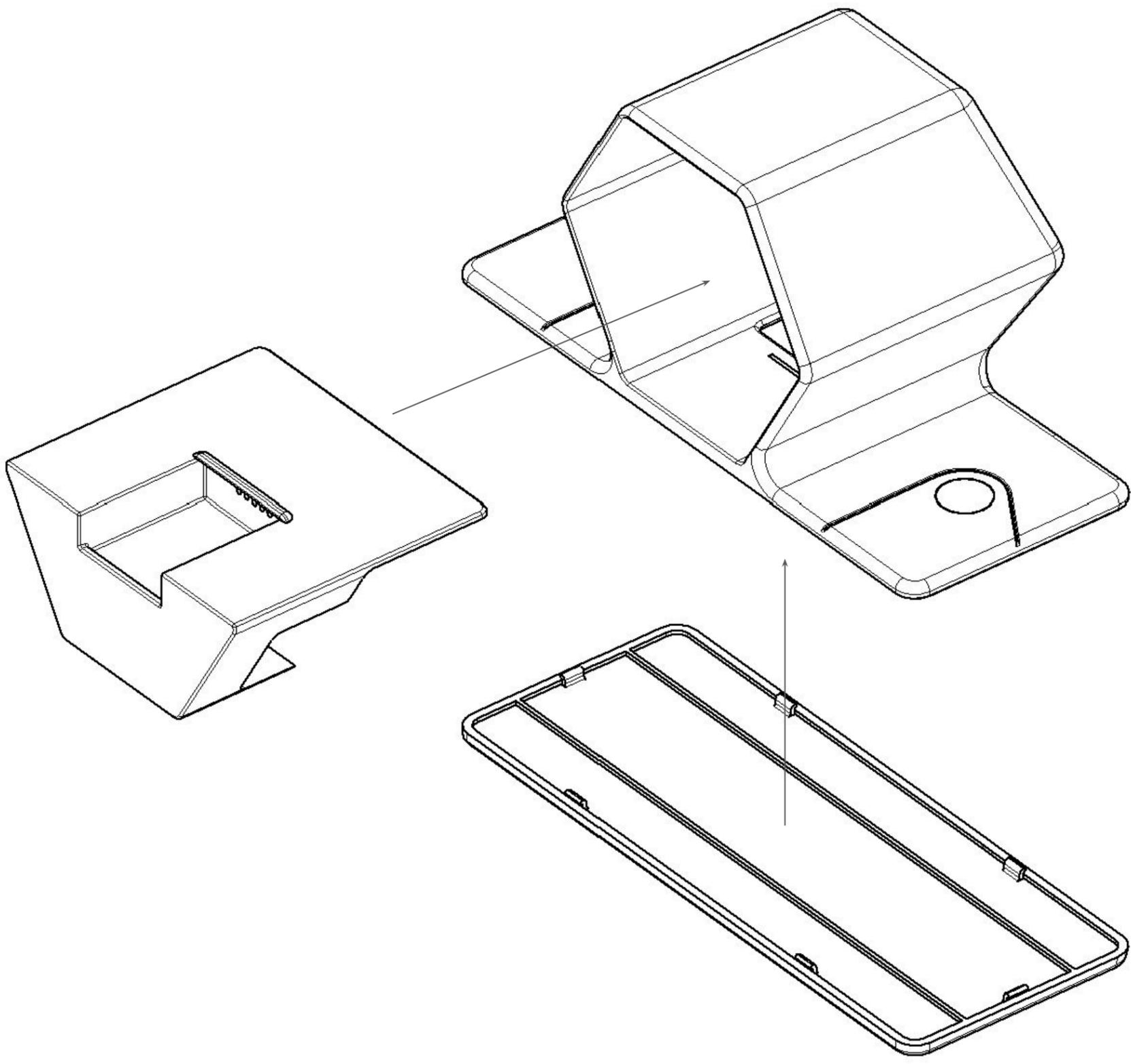
3D files:
Hub base_v3.stl
Hub base_v3.igs
Hub parte interna_v3.2.stl
Hub parte interna_v3.2.igs
Hub scocca esterna_v3.stl
Hub scocca esterna_v3.igs

Materials

3D printable ABS

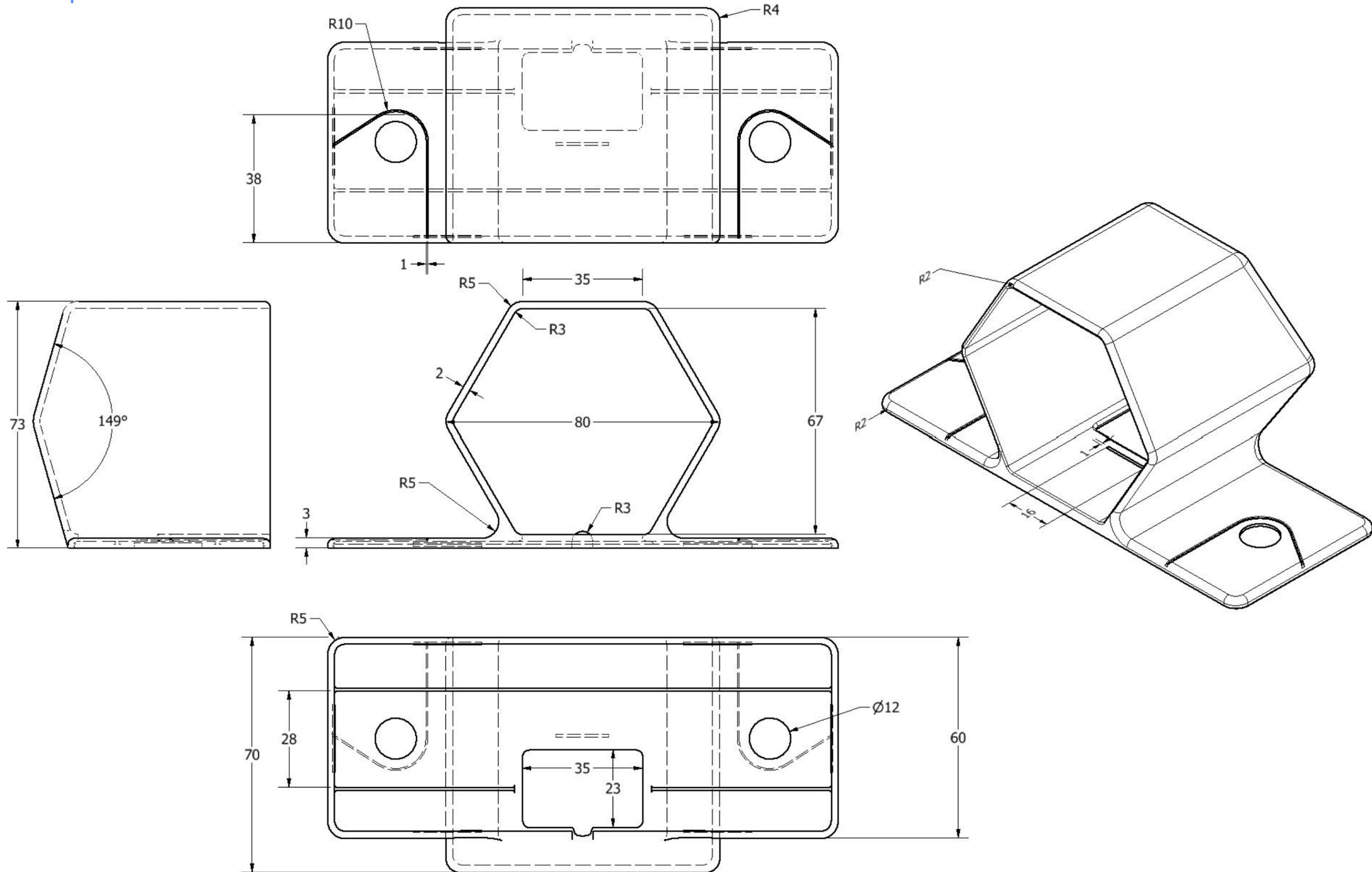


HUB Exploded

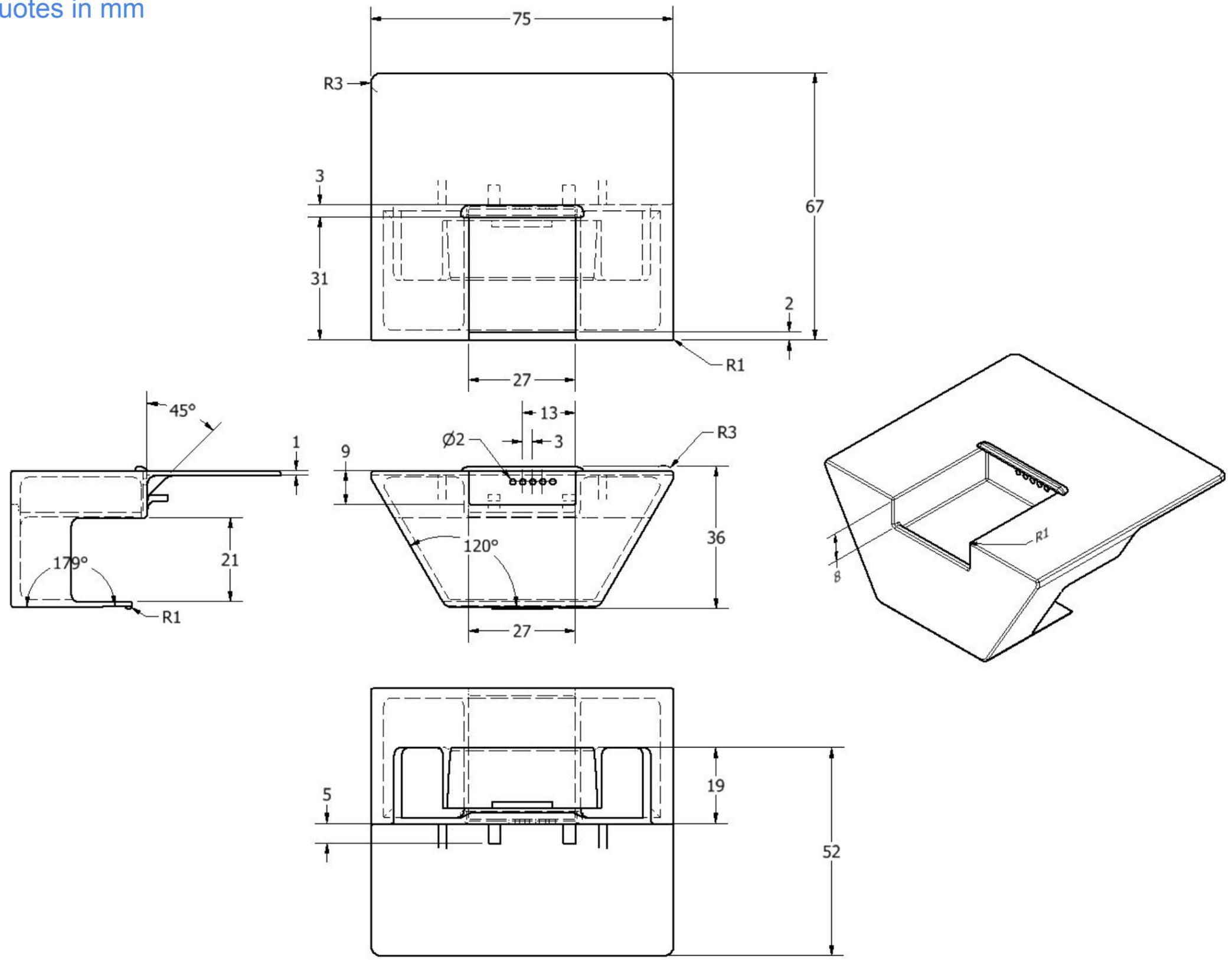


HUB Upper shell

Technical drawings with quotes in mm

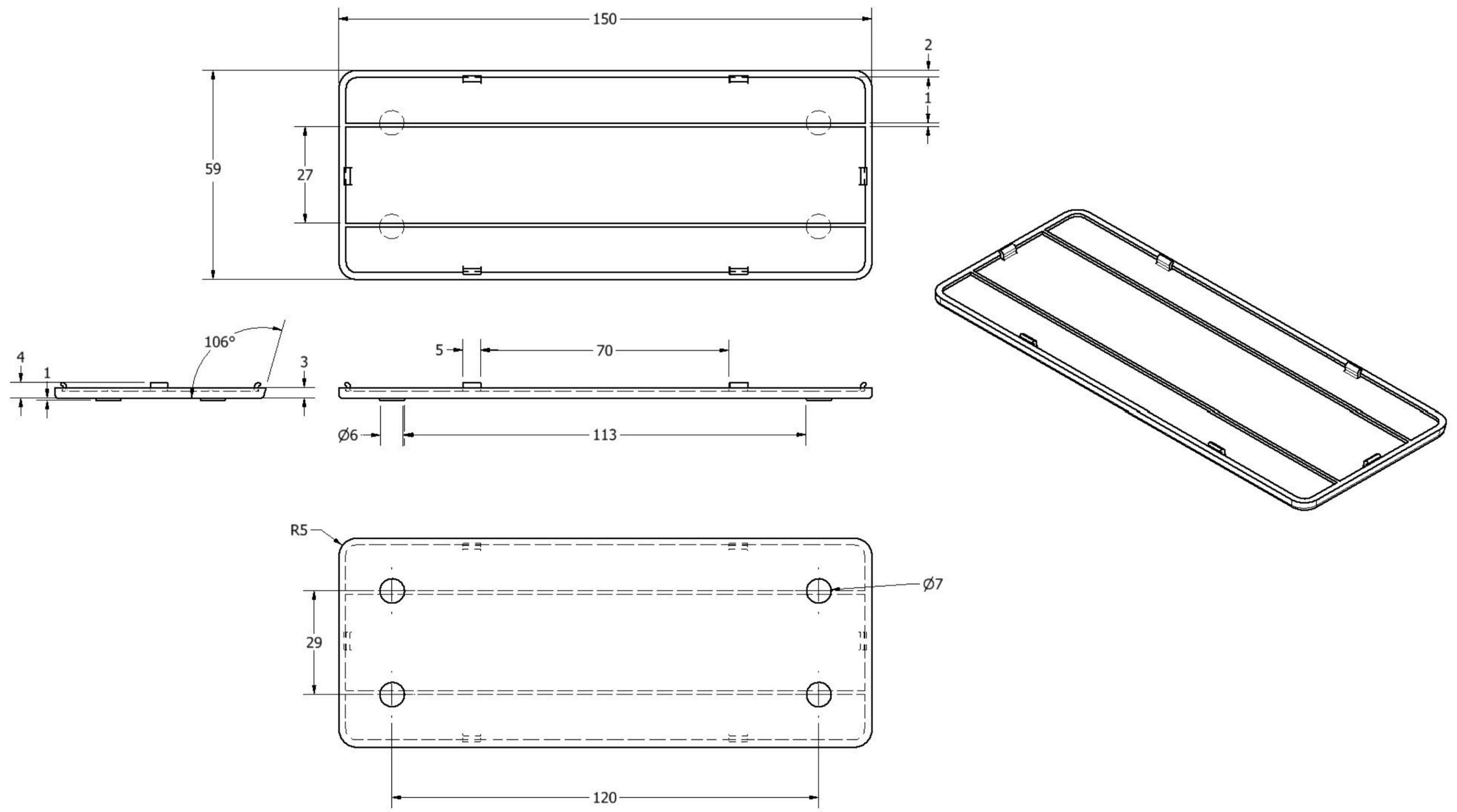


HUB inner component
Technical drawings with quotes in mm



HUB bottom shell

Technical drawings with quotes in mm



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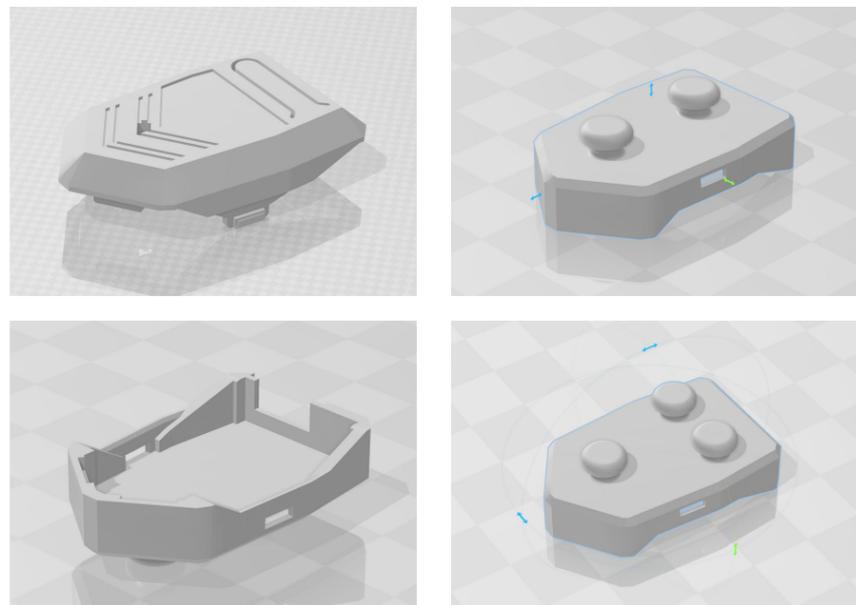
Smart Suit



IMU sensors



Technical drawings with quotes



Mode of use

- The IMU sensors are placed into the properly designed cased, made in 3D printing technique.
- The case is not-removable, and the sensors need to be charged and connected to the app only.
- To place the sensors on the suit, insert the pins on the holes in the textile, and assure them on the clothing by clipping the safety backpart



Attachments

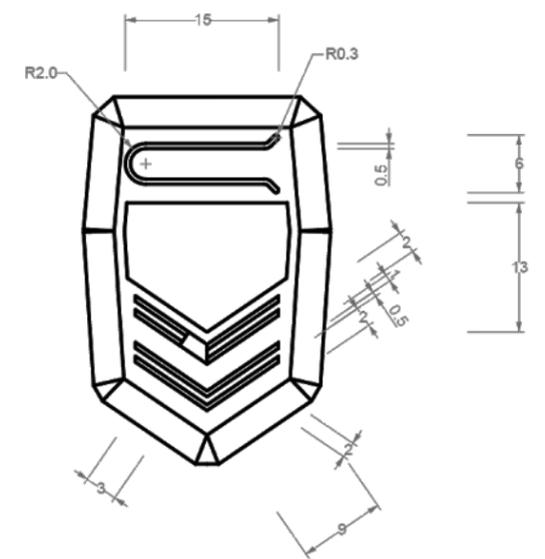
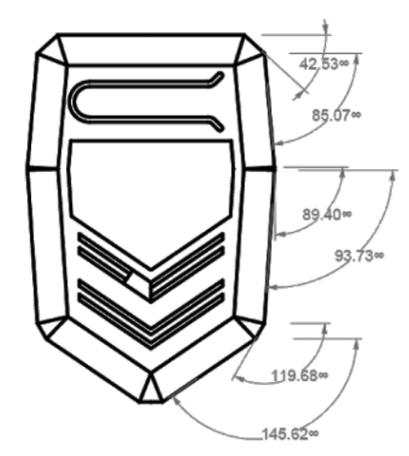
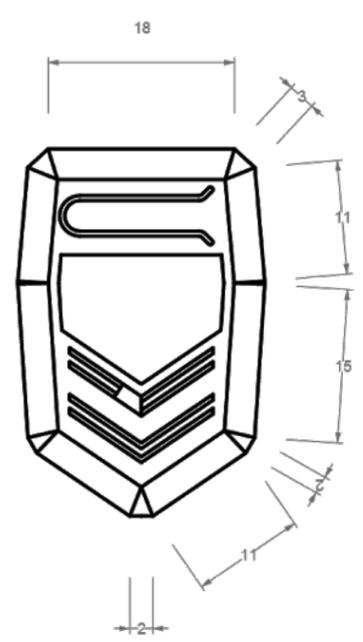
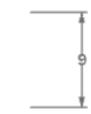
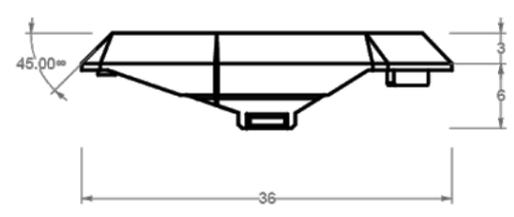
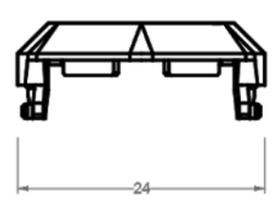
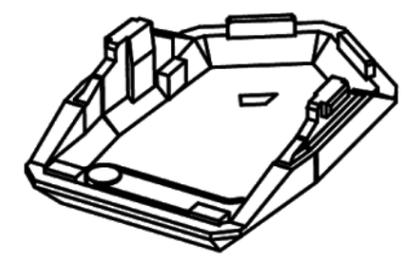
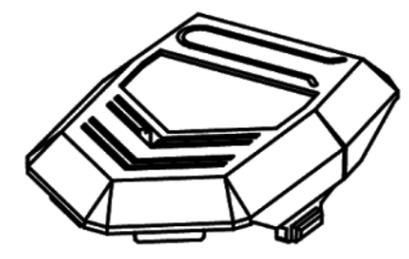
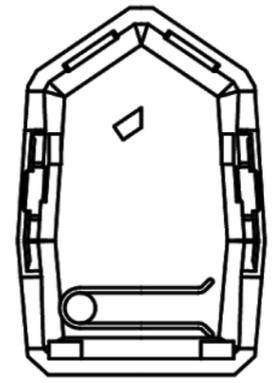
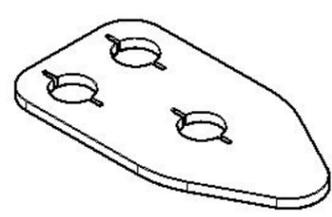
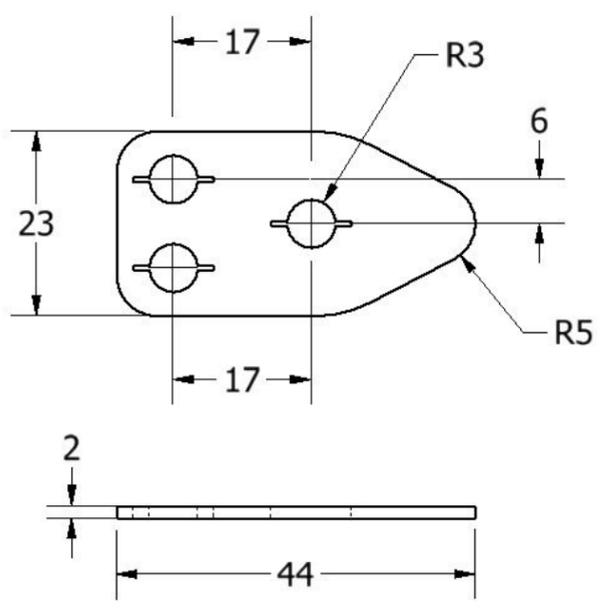
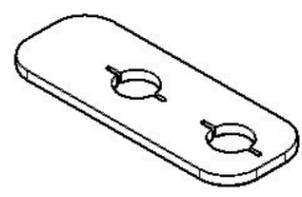
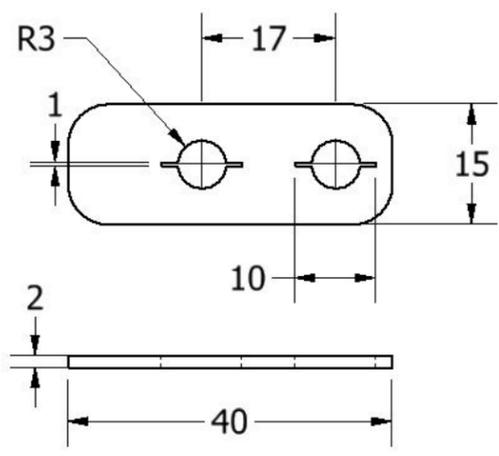
3D files:
case_top.stl
case_inferiore_3agganci.stl
case_inferiore_3agganci.stl
placca 2 fori_diam6.stl
placca 3 fori_diam6.stl

Technical sheet:
MetaMotion RPSv0.5.pdf

Materials

3D printed ABS

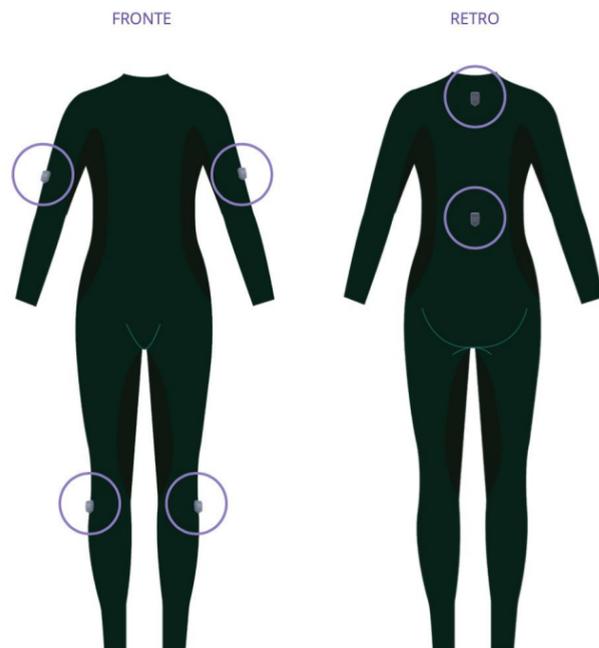
IMU sensor shells and fixing plaques
 Technical drawings with quotes in mm



Smart suit



Technical drawings



Mode of use

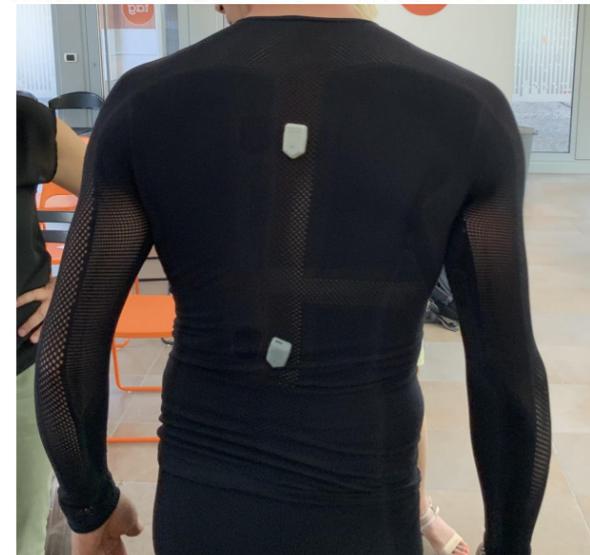
- Place the sensors on the desired spots
- Wear the trousers and the t-shirt for the physical activity
- Switch on the Application and start a exercise session



Attachments

Drawings sent to Cifra.srl for prototype production:

- file pdf. Drawings x Cifra_donna.pdf
- file pdf. Drawings x Cifra.pdf
- file pdf. WKS_table-fiber.pdf

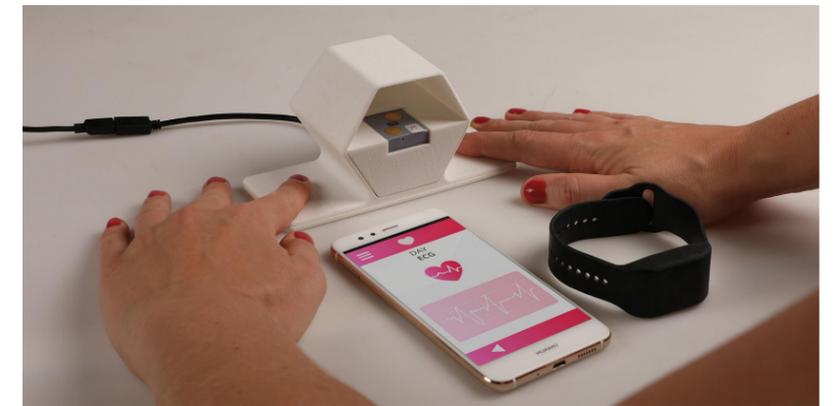
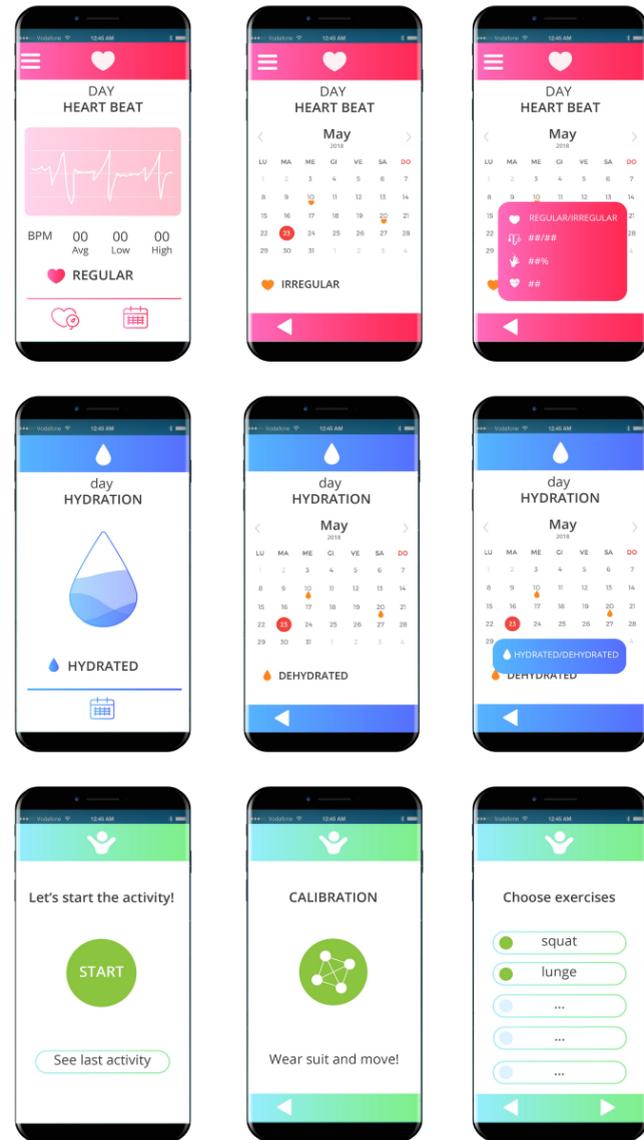
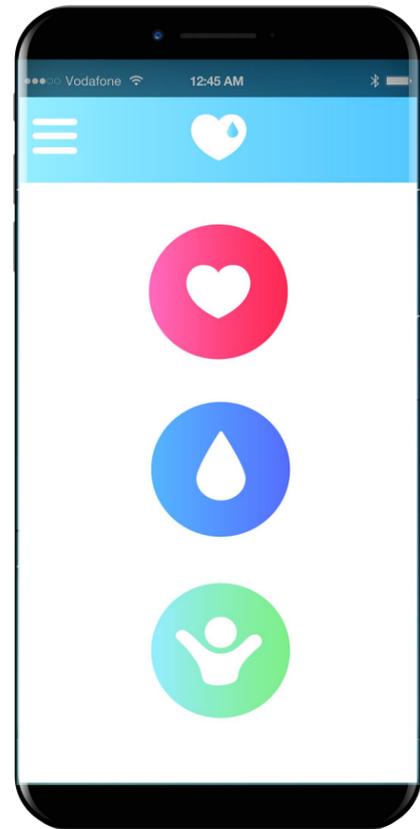


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Smartphone Application



Smartphone Application



Attachments

- WIREFRAME.eps
- AgeDesignApptaly.apk
- AgeDesignExerciseFinal.apk