GAMES FOR HEALTH EUROPE 2025

GETINGE Vessel Harvesting Gaming System VASOVIEW

CHRIS HEGER

COO - Bestronics Development Project Manager - Vasoview

BESTRONICS

Development

Our Mission

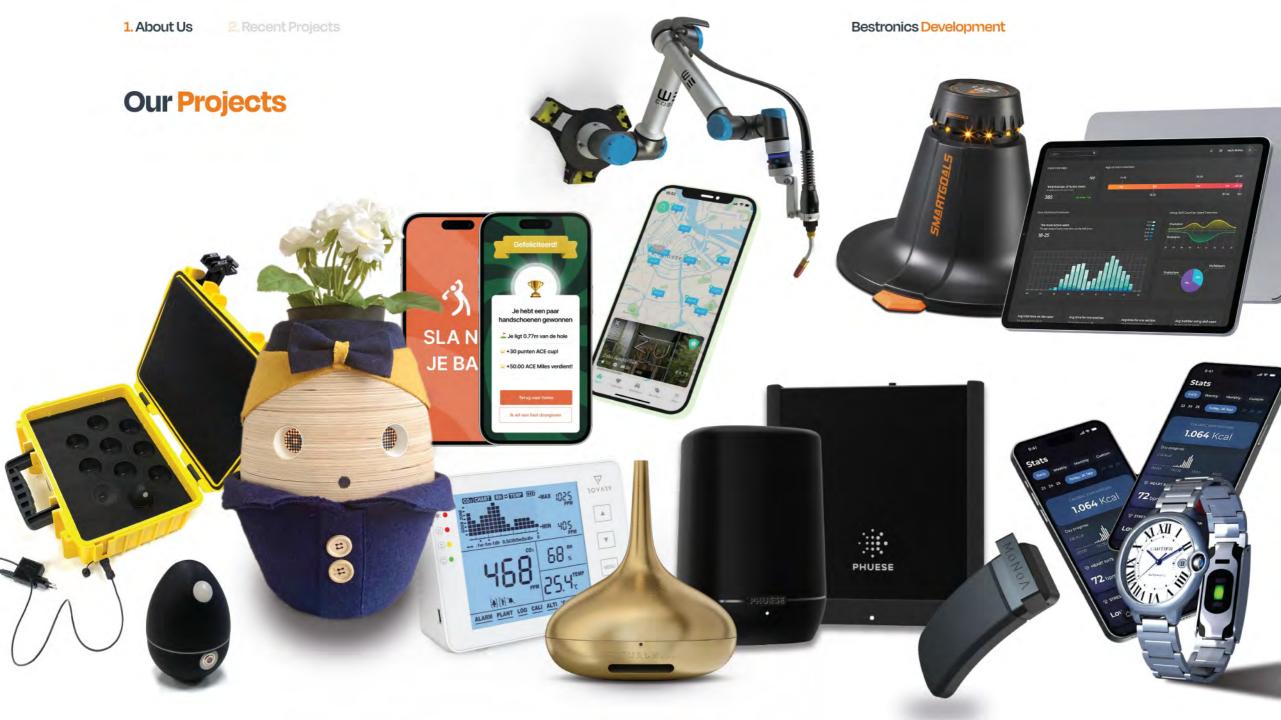
Our aim. The ethics that guide us everyday.

We design, develop and manufacture smart products and IoT systems. From idea to production and beyond.

International tech talents under one roof in Europe's biggest ecosystem for innovation: Brainport.







Our Team

37 Designers & Engineers.











Mechanical & Industrial Design Team



Web, App & Cloud Team

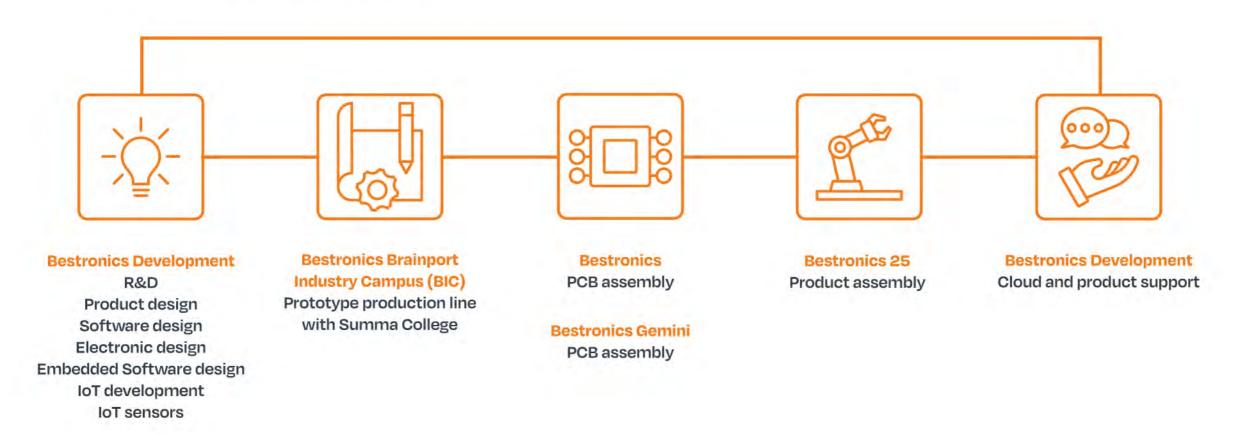


Innovation & Project Management

Bestronics Development

Our Company

Part of Bestronics Group



MISSION Design and produce a game controller for Getinge

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Challenges

From surgical procedure to joystick

CAPTURE AIL Define movements & sensors/methods to capture them **SHOUID RELLIKE THE** Mimic the tissue resistance ONE TIME USE INTO LASTING Surigat tool is used once. Training tool will be used many times. **NO PRODUCTION** VOLUM ES TRANSPORT, TRANSPORT, Walking Sars Trucks, Planes, FedEX, Customs, Sales reps.

DESIGN

From a one time use product to a long lasting game controller

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A_1 Circular movement of the complete tool.

B_1 Circular movement of handle B, this will rotate Tool B (grippertool).

C_1b

Circular movement of main handle and handle B, in ralation to the camara. (The image of the tissue stays stable, all the tools move.)

D 1

With the knob on the main handle, tool A can be slided in and out. (Tool A is the half cirular shape to 'guide' or follow veins)

D_2

With the knob on handle B, tool B (the gripper) can be opened and closed. when pushed back, the heating is activated. This way brached veins can be seperated.

A 2 Pivotal movement of the complete tool arround central pivot point (2 dimensional).

A 3

Linear movement of the complete tool over longitudinal axel of the metal shaft.

A 4 Translation of position of the complete tool (without pivoting).

B 2

Linear movement of handle B. This will make Tool B (grippertool) slide in and out the metal shaft.

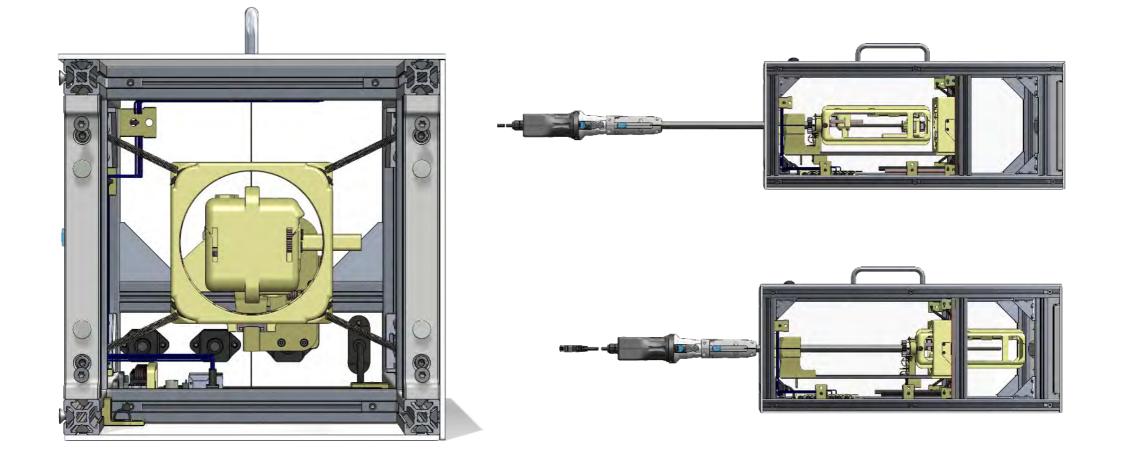
C_1a

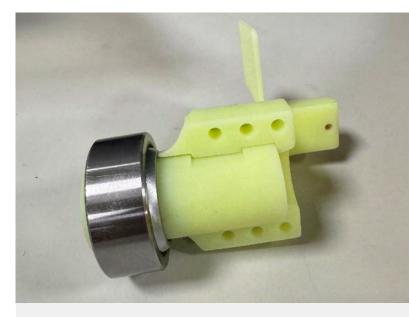
Circular movement of the camera handle, in ralation to the main handle. (The image of the camara turns, tissue and tools stay at same

SENSORS

5 - TIME OF FUGHT SENSORS **3** - INDUSTRIAL ROTATION SENSORS 2 - SPRING RUTTONS

location)









3D PRIMING

- BRITTLE
- NOT STRONG E NOUGH TO HOLD SCREWS
- MATERIAL DETERIORATES FROM SWEAT
 - LOOSES ITS COLOUR

INTEGRATE SENSORS

- ORIGINAL PARIS HAVE NO ROOM FOR SENSORS, BUTTONS, CABLES, ETC.
- KEEP THE OUTERSHAPES
- FIT IN SENSORS & CABIES
- MAINTAIN RUNCTIONALITY
 - INDUSTRIAL GRADE SENSORS

TRANSFORM

- MS COERTS TO TRANSFORM MOVEMENTS INTO OTHER MOVEMENTS THAT CAN BE MEASSURED
- LIM IT CERTAIN MOVEMENTS
 - ADD RESISTANCE TO MOVEMENTS

CABIES

SENSORS AND BUTTONS NEED CABIES FOR POWERAND DATA.

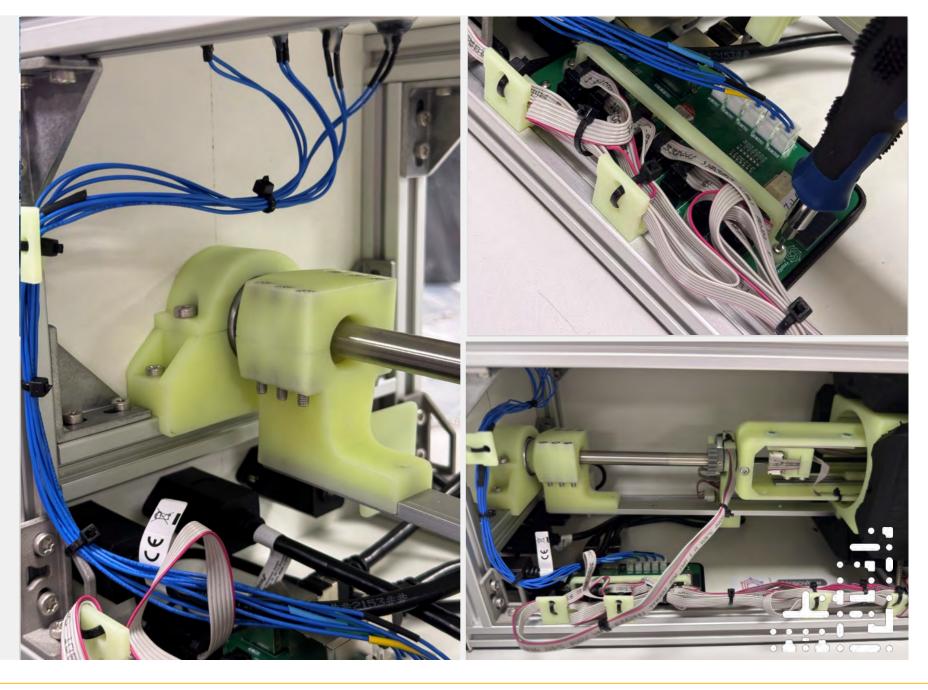
MANY CABIES THROUGOUT THE DEVICE AND INTO A LOT OF PARIS.

> CABIES CANNOT GET ENTANGIED.

CABIES CANNOT PUTTENSION ON CONNECTIONS OR PUILON SENSORS.

CABIES NEED SPACE TO MOVE WITH THE DEVICE.

CABIES NEED TO MOVE OUT OF THE WAY WHEN EXECUTING MOVEMENTS.



PRODUCTI



372 PAGES IONG ASSEMBLY DOCUMENT

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1.4.1. 2020 CORNER BRACKET MODIFIED SUB-ASSEMBLY A-S000359_01

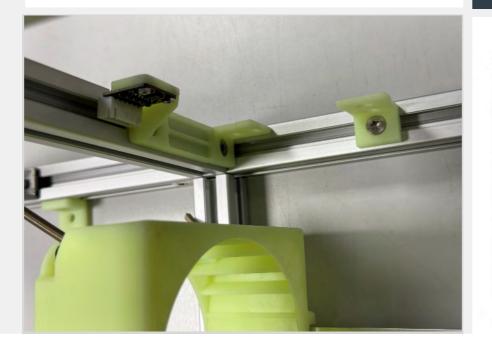
Components

ITEM	COMPONENT	QUANTITY	PART NUMBER
1.5.1	CORNER BRACKET DOUBLE 20X20 MODIFIED	1	P-S000360_00
1.5.2	SOCKET HEAD BOLT M4X8 TX	3	F-S900041
1.5.3 M4 SPRING T-NUT 2020		3	F-S900186_00





VeséView Gaming System www.bestronics.dev





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Stappen	Gereedschap	Beschrijving	Foto's	
		Plaats 2x HEX NUT M2 (F- S900018) in GEAR SLIDER (S000587_00)		
	<u>Torx</u> TX6	Leg AMT2238-V BACK (P- S000104) og GEAR SLIDER (S000587_01). Zet het geheel vast met 2x ROUNDED BOLT M2X6 TX (F- S900065_00). Drasi 2x ean met Torx TX6		
		Kiik AMT223B-6350S ASSEMBLY (P-S000246) op AMT223B-V BACK (P-S000104)		

VasoView Gaming Bystem www.bestronica.dec

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TRANSPORT The misery called shipping

TRANSPO

WAIKING WITH THE DEVICE THROUGH HOSPITAIS

> SAIES REPS DRIVING THROUGH THE COUNTRY

TRANSPORTING AILOVER THE WORLD: CARS, FORKILFTS, TRUCKS, BOATS, PIANES BAGGAGE HANDELING WAREHOUSE HANDELING CUSTOM S

IT TOOK US A FUIL YEAR TO GET IT TO A IEVEL TO SURVIVE SHIPPING.

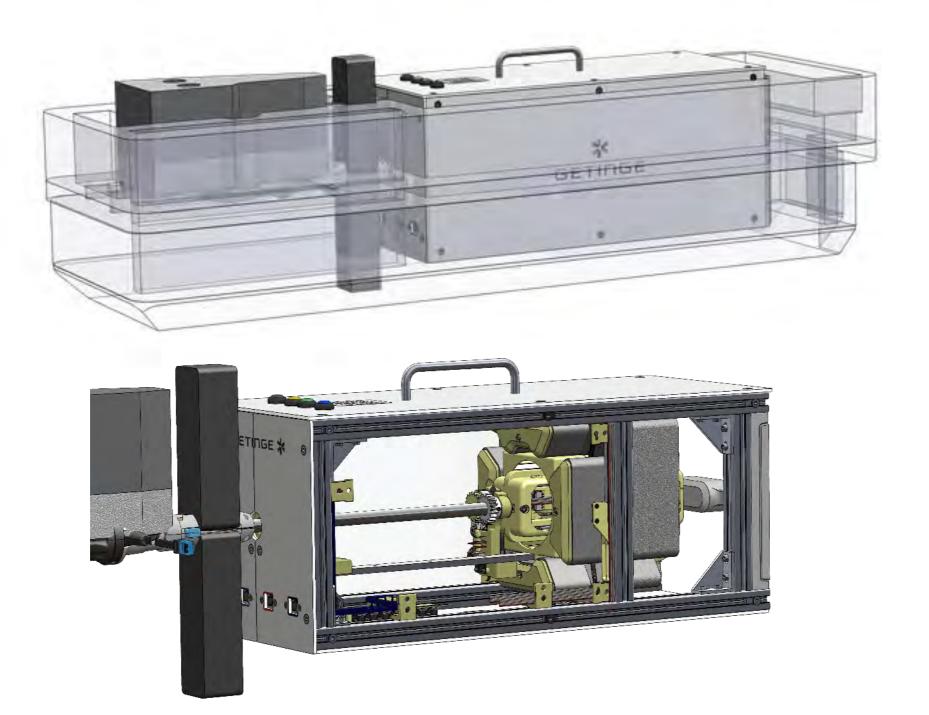












THANK YOU!

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2025