INVENT
MEDICAL

# Invent Medical

## Global Leader in 3D Printed O&P

piro

Visit Web

## Supramalleolar & Ankle Foot Orthoses

5 Stiffnesses of Strut

+- 5° PF / DF Shim

Adjustable heel (SVA)

DUO: AFO & SMO coming soon

Spring

*AFO with a replaceable strut*

# Step Forward

Piro is different. Very different. These are the thinnest, lightest, and most comfortable AFOs and SMOs ever made.

Piro uses the latest technologies and smart engineering to offer unparalleled comfort for your patients.

100% custom made **from measurements or a scan of the cast.**

**www.piroafo.com**

## YOUR PATIENTS WON'T WANT ANYTHING ELSE

Start with a 3D scan of a cast, plaster model, CAD model, or patient measurements. Then configure the device online using our software. During the testing period, 98% of patients and caregivers preferred Piro over a traditional SMO/AFO. The revolution is here. Trusted by 1,000+ O&P facilities and hospitals in 40+ countries.

## PIRO TYPES

Flex

Fusion TW

Active

NEW

DUO

V2

Spring
*Replaceable Strut*

Dynamic
*Tamarack / Pivot*

Control

V2

Rehab

Night

*Patented & patent-pending solution.*

## PIRO BENEFITS

**Comfortable**
Thin, lightweight, and breathable design

**Sleek Design**
Better fit in shoes, improved acceptance

**The Most Custom**
Custom thickness, flexibility & symbols

**Quality Guarantee**
Use Piro risk-free with full product warranty

## WHAT CUSTOMERS SAY

"Family was very happy with Piro fit and function, they work so much better for footwear. **Clinically, I was very impressed!**

We had **improved hindfoot** control compared to the competing SMO's. The malleoli modifications **fit perfectly** and was improved as well. I will definitely be recommending the Piro's due to the amount of control and how l**ow profile** they are in comparison."

**Alisha Simons,** *Hanger Clinic*

"Piro did an amazing job making a really challenging fit happen. The patient had not tolerated other braces due to heat and weight, but has been able to comfortably use Piro device with **great results**. They felt this was the **lightest brace** they have tried. Their contractures have already reduced about 15-20 degrees!"

**Casey Parham,** *ForMotion Clinic*

"I was meeting with a physical therapist for delivery of bilateral SMOs and she immediately said "**Oh thank goodness they are Piros.** Nothing can compare to how good Piro is." Again, thank you for such a high quality product!"

**Emily Heslop,** *Carolina Ottobock.care*

"It was probably the **nicest pair of articulating AFO's I have seen** in 30 years!! The PT was so impressed she wanted a sample AFO."

**David Paolino,** *New Beginnings Orthotics and Prosthetics*

# Piro Flex: The Most Advanced SMO

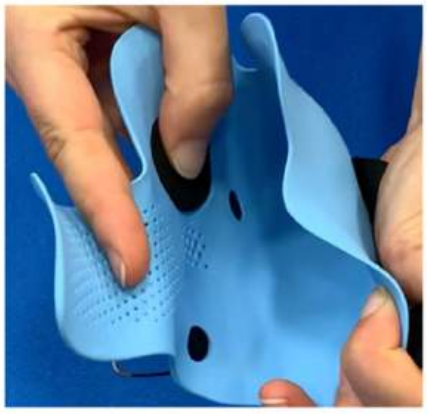
Piro Flex is designed for smaller patients with low-tone pronation.
Its low-profile design makes it the least obtrusive SMO while still providing effective support. As a result, it is quickly becoming preferred by therapists for managing pronation in patients with low muscle tone.

The very **flexible design provides all around compression**, while ensuring the ML stability your patients need.

It is unlike any SMO you have seen - it offers **unparalleled comfort, integrated dorsal wrap** (say bye to losing the pad!), variable-thickness design, soft trim lines, breathable areas and **perfect fit**.

**Soft heel** for proprioceptive feedback built into the stabilizer is groundbreaking.

Either scan a cast or **take 10 measurements.** Then order within 2 minutes.



100% custom ultra thin design: fits foot & shoe

Flexible TPU material for comfort & compression

Integrated dorsal wrap: no more lost chips

Soft heel providing a proprioceptive feedback

Low profile chafes and various strap versions

Available in toe walking version

# Piro Spring: 3D-Printed AFO for Real-Time Gait Optimization

**Piro Spring represents a new generation of custom-made pediatric ankle-foot orthoses that adapt to children's growth and changes in their gait.**

Built on a modular **3D-printing concept**, it allows clinicians to adjust resistance and alignment in real time using interchangeable components during both initial fitting and follow-up visits.

This flexibility is especially valuable in pediatric care, where biomechanics evolve quickly due to growth, muscle tone, strength, and motor development. Instead of a rigid design, Piro Spring offers a more individualized solution that can be continuously fine-tuned—similar to the shift from exoskeletal to endoskeletal prosthetic systems.

**Clinical observations indicate that real-time adjustments of stiffness, SVA, and ankle angle can improve gait mechanics, symmetry, and efficiency while reducing compensatory movements.**

At the same time, it enhances clinical efficiency and reduces the need for remakes, supporting a more responsive and adaptive model of care.

Custom stiffness

Adjustable PF/DF

Adjustable heel

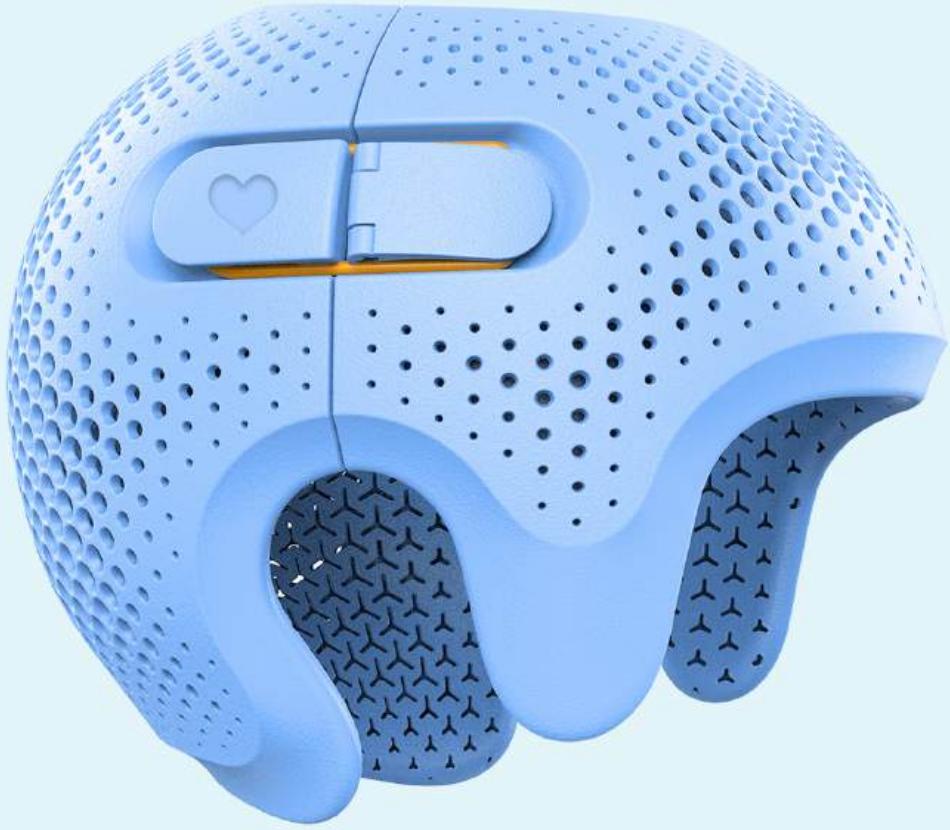
Proprioceptive heel

Watch the video to learn more.

talee

Cranial Remolding Orthosis (CRO)

Visit Web



# Leading The Way

8 years ago, Talee introduced its 3D printed breakthrough design that set the new gold standard for Cranial Remolding Orthoses globally.

Today, Talee continues to lead the way with non-stop improvements, refined design, smart innovations, and an advanced app.

Talee's comfort, clinical effectiveness, and award-winning aesthetics make it the top choice for patients, referrals, and practitioners.

Your patients deserve more, don't settle for less. Join our growing list of satisfied providers.

**www.taleetop.com**

*Patented solution.*

## #1 SOLD 3D PRINTED CRANIAL ORTHOSIS WORLDWIDE

Talee is based on more than **30,000** successfully treated babies.
Our partners provide Talee at 900+ locations in **over 40 countries.**

Over the years of its market presence, Talee has undergone hundreds of iterations. Many improvements were inspired by our own clinical facility working closely with our dedicated in-house development team, and others were inspired by caring clinicians like yourself. Also available in post-op version.

### Less Sweating
Talee is the most breathable CRO

### Comfortable
Designed as light and thin as possible

### Frequent Updates
Dedicated in-house development team

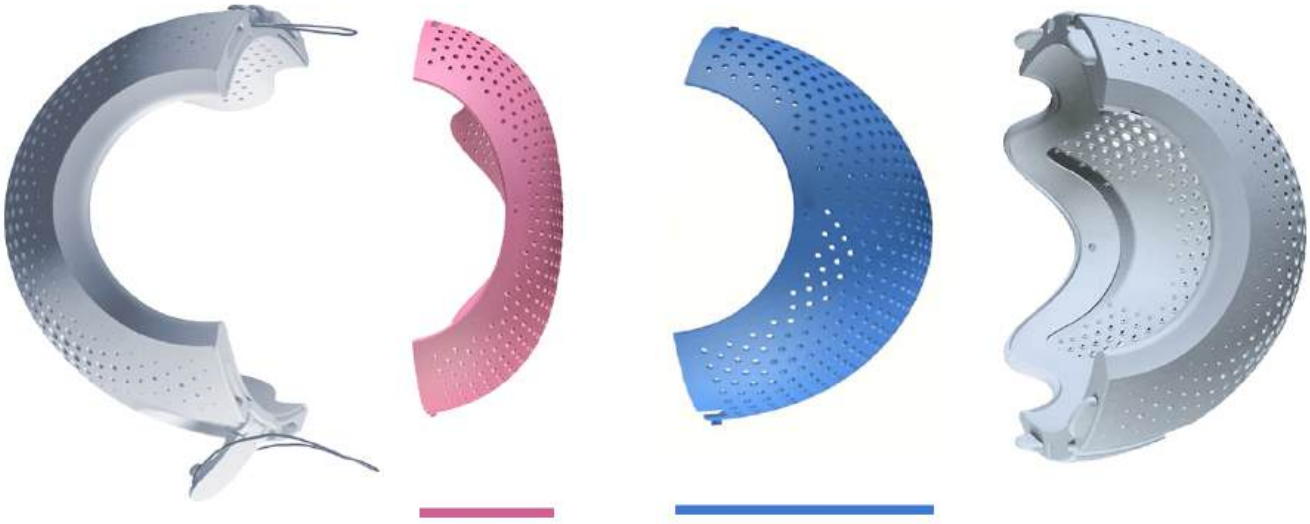
### Effective For All
Suitable for all head shapes and deformities

# The Revolutionary 2 in 1 System

With its innovative two-stage design and replaceable inner layers, Talee delivers effective treatment for a wide variety of deformities across all head shapes.

It offers the **most space for growth in a single orthosis** combined with the **best stability** and ease of use.

Less adjustments means saving more of your clinical time and improved results means greater parent satisfaction!



Front piece | First stage | Second stage | Rear piece

**First stage:**

Temporary inner layer
(for the first few weeks)

Correcting symmetry and
providing more contact and stability

**Second stage:**

Final inner layer
(until end of treatment)

Enables more growth into
desired final head shape

2 in 1 is the patented system of our second generation 3D printed CRO.

**Available in 2 versions. With bi-valve or one-side opening.**

## FUN CUSTOMIZATION

Choose the color, add text, and pick out a symbol.


## 2 OPENING OPTIONS

Bi-valve that opens on both sides or a one-side with a flexible hinge.


## EFFORTLESS REPORTS

Motivate parents with powerful reports created in a few clicks.


## TREATMENT VISUALISATION

Data-driven precise treatment. Software to understand all details.

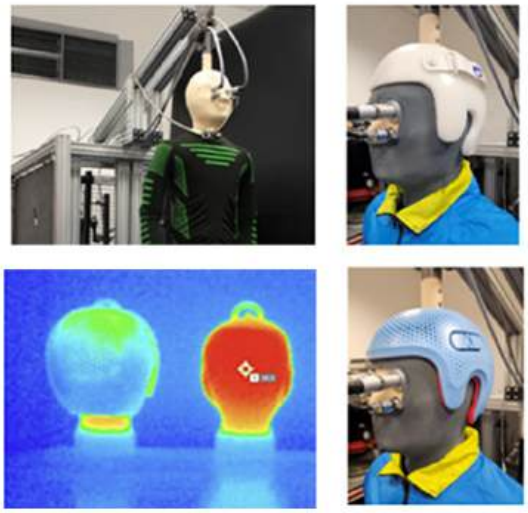
## MOBILE APP

iPhone app for parents with articles, tips & tricks, and more.



## PROVEN TO BE BREATHABLE

Study confirms Talee offers significantly more breathability.



# FiT.

## Test, Preparatory and Definitive Socket

FiT PETG

FiT TT

FiT TT+

Comfortable **bio-responsive preparatory and definitive** socket 3D Printed based on a fast **fully digital scan-to-print workflow**.

It is a **cost-efficient** adjustable socket, that is especially suitable for patients that do not require large offset and are K1-K3.

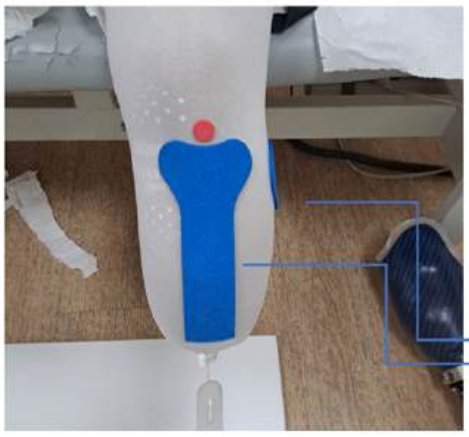
Available in **lock and valve version**. Rigorously optimized and tested for 400kg.

Print it yourself or outsource it to us:
Receive the FiT from a C-fab in days or **print it in-house in under 3 hours.**

- Preparatory / Definitive
- Light-weight
- Optimized reinforced distal end
- Flexible inner option
- Lock or valve
- Adjustable (grind / thermoform)
- Customization option
- Cost & time efficient
- Scan to print
- Seamless digital workflow

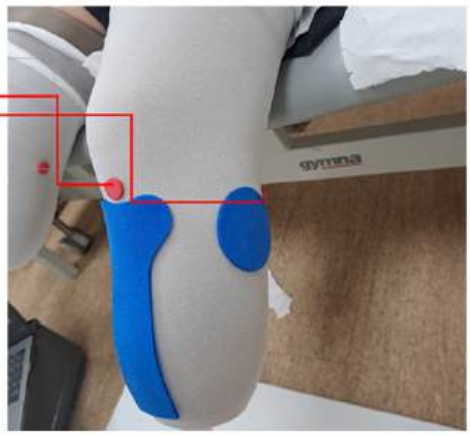
## FIT SOCKET SYSTEM: PRE-SCAN PADS

Perform volume modifications directly on the patient instead of in plaster or CAD. Finalize the trimline on the check socket. Lose time, not control:



MPT, M/L hamstrings

Pads for buildup on sensitive areas



## FIT SOCKET SYSTEM: WORKFLOW

Utilize your traditional process (scan patient/ scan cast/ CAD model) or the new FiT seamless fast workflow for 3D printed check sockets:

3D scan

Automated modification

Automated design

3D print

## WHAT CUSTOMERS SAY ABOUT OUR PROSTHETIC SOLUTIONS

"Augo is another piece of the puzzle in our modular system for optimal and individualized treatments. Customers particularly appreciate the overall quality, the dynamics in the socket and the cushioning elements."

**Martin Brehm,** *Sanitätshaus Klein*

"Augo is one of the best prosthetic sockets I have ever used. My patient was especially pleased with the proximal brim, making everything in daily life more comfortable. He also said that it is easier to get down on his knees than ever before."

**Fredrik Dahll,** *Blatchford Ortopedi*

augo

Transtibial Prosthetic Socket

Visit Web

**Augo Flex Control**
Volume adjustable socket with a flexible inner
*(Click Reel)*

# Comfort. Control. Trust.

The most comfortable and advanced 3D printed socket with a smart, two-material design is now even better:

**We are introducing Augo 2nd Generation** based on everything we learned so far.Augo is now **even lighter, more comfortable and easily adjustable** with modular pads and bioresponsive design.

Augo is systematically engineered and optimized for maximum reliability and performance.

**www.augosocket.com**

# THE SOCKET PATIENTS TRUST AND LOVE

NEW

**COMFORT FLEX**

Bio-responsive

Lightweight shell

Adjustable pads

2 layers

NEW

**CONTROL FLEX**

Bio-responsive

Lightweight shell

Volume adjustable

2 layers

SOON

**AIR FLEX**

Pneumatic system

Lightweight shell

Volume adjustable

2 layers

**STANDARD**

Custom inner relief areas

**COMFORT**

Flexible brim

Custom inner relief areas

Simple & Comfortable

**CONTROL**

3 panel design

Adjustable volume (Reel)

*Patented & patent-pending solution.*

# Smart Inside Out

Finally - a perfect, comfortable, and reliable 3D printed prosthetic socket.
Augo is very different from the sockets you've seen before.
Works with many locking, vacuum, elevated vacuum and hybrid systems.


Also available in volume adjustable design (adjustable inserts, Click Medical system or electropneumatical system)

**Semi-flexible**
Significantly better fit & comfort

**Comfortable**
Flexible brim and soft custom pads inside

**Lightweight**
Design is optimized by algorithms to keep light

**Tested for 500 kg**
Mechanical testing & computational analysis

# Your Socket. Your Process.

Augo adapts to the way you work. Whether you prefer a conservative, plaster-free, end-to-end digital CAD-free approach, or an in-house printed check socket: Augo offers you a seamless, fast and accurate workflow option.

A 

**Plaster model** Traditional
Check socket -> Fill with plaster -> 3D scan the model

B 

**Plastic Check socket** No Plaster
Check socket -> 3D scan (outside and inside)

C 


**CAD model** No Plaster
Upload your 3D model from your preferred CAD software

D

**Vytruve** No Plaster In-house
Upload scan of your Vytruve check socket (outside and inside)

E 

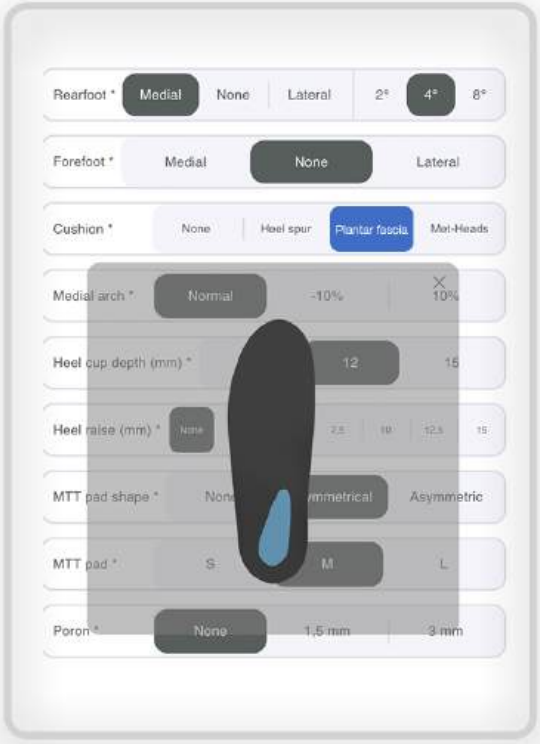
**FiT socket** No Plaster No CAD In-house
Easily scan FiT socket **only from the outside** with the unique Digital Transfer Process to capture all modifications and changes

All workflows transfer your final **trim-line, shape and alignment** to produce the **definitive 3D printed Augo TT socket.**

# 8sole

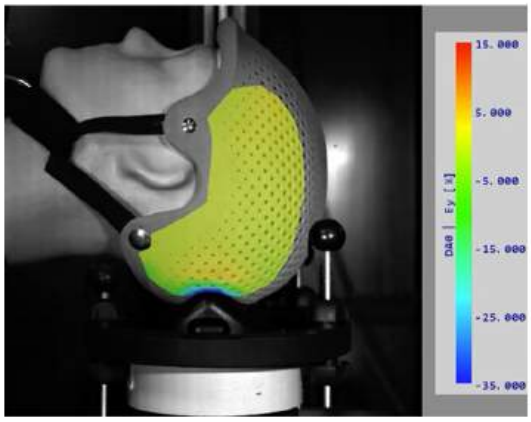
## 3D Printed Foot Orthotics

NEW


- TPU 3D printed insoles
- Order in 3 minutes on iPhone
- Great fit in shoes
- Seamless mobile scanning
- Corrective & Comfortable
- Available as UCBL too

# talee
protect




Talee Protect is the most advanced patient-specific cranial protective orthosis that combines 3D-printed precision engineering with proven impact absorbtion. Custom-made for each patient from a 3D scan. Data-driven optimized design. **NEW:** option for chin protection, ear protection and many custom add-ons.

## TWO VERSIONS

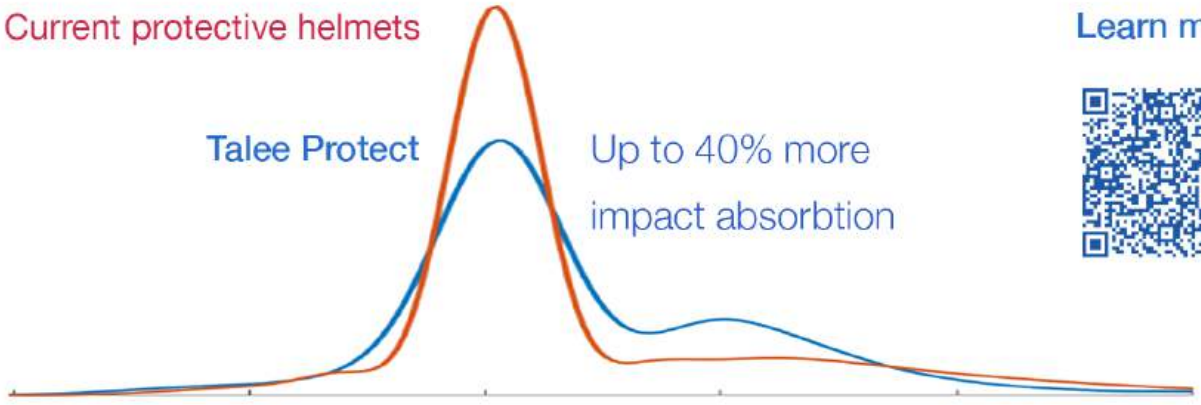
### Flexible Design
Designed for patients with seizure disorders, self-injurious head banging, or a high risk of head injury due to poor balance.

### Rigid Design
Designed for skull defects or conditions such as post-craniectomy, post-trauma, congenital defects, and post-operative cranial surgery (e.g. craniotomy or reconstruction).

**Comfortable**
Unique breathable design

**Great Fit**
100% custom perfect fit

**Safe**
Rigorously tested




Learn more:

Chart comparing average impact force (lower = safer)

# Get Started

The first step is a free short online training - you will learn all about the product, process and software.

**Fill out the online form to receive online training access and the pricelist.**

O&P: Re Invent

Lower Limb Prostheses

O&P: Re Invent

Cranial Remolding

Talee Training

O&P: Re Invent

Lower Limb Orthoses

Piro Training

Augo Training

# O&P: ReInvent

**DO NOT MISS**

Join us for the **international O&P summit** focused excusively on 3D printing, digital workflows, and other cutting-edge technologies in cranial orthoses, onkle foot orthoses, and prosthetic sockets.

**Visit www.opreinvent.com to:**

**Watch 2025 edition content online.**
More than 30 speakers and 100 participants from 18 countries attended the conference.

Register for the next in-person edition.
May 17-20, 2027 in Ostrava, Czechia

# About Invent Medical

Invent Medical is an independent family business and the global leader in 3D printing for Orthotics and Prosthetics. Each year, we deliver tens of thousands of custom devices to over 1000 clinics and hospitals.

Our mission is: **Helping through innovation**. We leverage cutting-edge technology to create the new generation of custom orthotic and prosthetic devices to improve patients' lives. We are your trusted partner for the new era of O&P.

We believe in systematic, responsible approaches to development. Our products are tested for millions of cycles and are meticulously optimized and fine-tuned for 5+ years before being launched. Then, we keep listening for feedback and never stop improving. That is why our products are the most-advanced 3D printed O&P products worldwide and with an extensive warranty.

**35+ Years**
Experience in O&P field

**Team of 100+**
Clinical, technical, and development

**ISO Certified**
ISO 13485 compliant

**11 Locations**
Manufacturing sites on 5 continents

**Invent Medical Deutschland GmbH**

Im Gewerbepark C 25
93059 Regensburg
Germany

www.inventmedical.de

**Invent Medical Group s.r.o.**

Technologicka 376/5
708 00 Ostrava
Czechia

www.inventmedical.com

Fill out the form to get started

Co-funded by the European Union