



ORTHOPUS

HANDITECH
SOLUTIONS
FOR
EVERYONE

CATALOG
2021

OUR STORY

According to the WHO, only 1 in 10 people in need have access to assistive technology around the world. To respond to this problem, **ORTHOPUS develops quality and affordable solutions for motor disabilities.**

We design **two ranges of solutions for the upper limb** : prostheses for transradial amputations and disarticulations of the wrist, and assistive robotic solutions for people in wheelchairs with limited mobility.

In line with the values of the Social and Solidarity Economy, ORTHOPUS has a social mission : to provide new solutions for disabled people and generalize access to technical aids.

In a world where healthcare is too often synonymous with inequalities, we propose a new model based on solidarity.

ORTHOPUS was founded in 2018 by David Gouaillier, doctor in robotics and co-creator of the NAO humanoid robot. The crew, based in France in Nantes, the city of Jules Verne, is composed of experienced engineers in mechatronics, embedded systems and robotics.

We use our technological expertise to design our devices in frugal innovation. **Our purpose : to meet user needs in the simplest, most effective and sustainable way possible.**



TECHNICAL AIDS AFFORDABLE **FOR EVERYONE**

*"Health innovations should be commons
and be accessibles for everyone."
David Gouaillier*

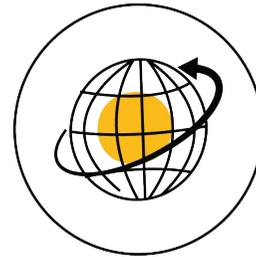


AT FAIR AND SOLIDARITY PRICES

We offer our solutions at reduced costs to allow a maximum of people to be equipped.

We use low-cost industrial manufacturing processes inspired by frugal innovation and we apply moderate margins.

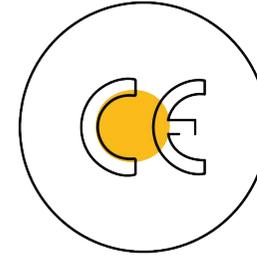
The price calculation of our solutions is completely transparent : full details are available on our website (base materials, assembly, transport, R&D investment, margin).



OPEN SOURCE DISTRIBUTED

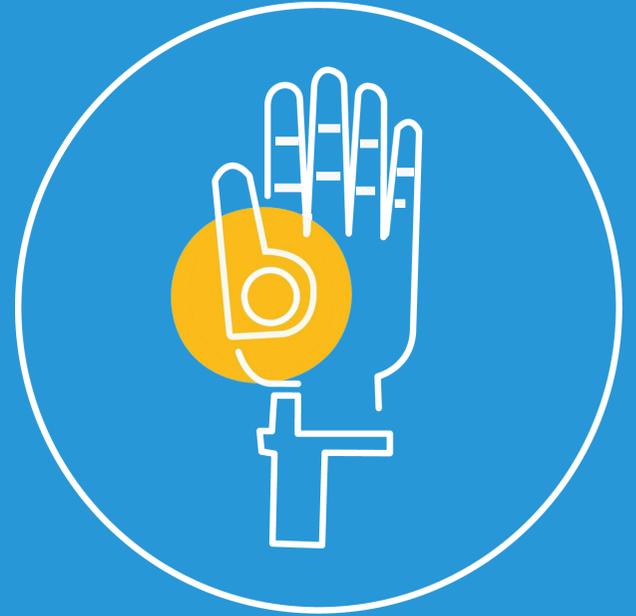
All the technical documentation of our solutions is freely available on the Internet : source files, assembly instructions, list of required parts, their prices and where to order them. By sharing our medical devices with as many people as possible, we want to promote their replicability throughout the world. **It is also an ethical choice to help unleash cutting-edge technology and evolve manufacturing and distribution methods for a more open healthcare**

Go to github.com/orthopus



MEDICALLY CERTIFIED

ORTHOPUS **complies with the new 2017/745 European regulation on Class I Medical Devices.** This certification guarantees users security and comfort.



SOLUTIONS
AVAILABLE

UNIVERSAL WRIST

98,50 €
HT

Adapted to upper-limb amputations including disarticulation of the wrist, this mechanical wrist fits directly into a socket and connects quickly to a large number of tools.

A solution to use all the tools of everyday life

Our wrist comes with a tool holder to connect all the elements necessary for the user's daily life, such as the work hook and the articulated cosmetic hand. Future standard of the market, it is available in two versions to adapt to both metric and imperial systems.

Quick connect/disconnect

The universal wrist is equipped with two levers to connect and disconnect a tool, or to lock (prono-supination) rotation as required.

Robust, for all types of activities

Combined with the work hook, this robust and easy-care wrist makes intense manual work such as carrying heavy loads possible.

One solution : many possibilities

Our universal wrist works with a tool holder available in both industrial and DIY versions. The plans accessible to all allow users to quickly make or have made tools for everyday life thanks to 3D FDM printing.



Technical features :

Weight	93g (with tool holder)
Sizes	Ø53x18 mm
Materials	Stainless steel + Aluminium
Made in	France

12 positions available :
rotation following the forearm axis

Comes with an inox tool holder :
that allows the users to connect all kinds of tools for everyday life.

11,50 €
HT

Disconnection lever : to remove a tool after its use

Locking lever : to quickly lock the rotation

ORDERING INFORMATION:

REF OR0109 Wrist alone - **M**

REF OR0109 Tool-holder - **AM** + **Thread**

M12 - **01**

½"-20 - **02**

M10 - **03**

To find the reference of the solution you would like to order, combine informations noted in blue. For example the tool-holder M10: OR0109-AM-03 / or for a wrist alone: OR0109-M.

NB : To have a complete and functional wrist, it is necessary to be equipped with the wrist and the tool holder.



WORK HOOK

141 € HT

Functional, simple to use, easy to maintain and extremely robust, this cable-operated Work Hook makes manual work possible under all conditions.

Proven effectiveness

The invention of the work hook for amputees in its current form dates back to 1912. This tool is recognized as the most popular and widely used upper limb prosthesis in the world. Its sturdiness, light weight and proven effectiveness make it a functional tool that is highly appreciated by users.

Mechanical actuation

A harness put on by the user allows the working hook to be activated by body movements and thus manage the gripping force.

A wide variety of daily uses

This Work Hook allows the users to grab a multitude of objects (paper, coin, pen, etc.) to move or use them. Its serrated ends make it easy to grip thin or small items. It is also ideal to carry out heavy loads (water bottles, a bag) or to do intense manual works such as drilling into a wall.

Solid and durable

Made in reinforced aluminum, our Work Hook is easily disassembled for easy maintenance. It is a tool that is designed to last a lifetime.



Technical features :

Weight	112g
Lenght	145mm
Material	Reinforced aluminium
Made in	France
Compatibility	Universal wrist





Elastic

The hook comes with a set of elastics bands to vary the gripping force.

Silicone grips

Supplied with the hook, they can be used according to the user's preferences to ensure a stable grip on smooth or slippery objects.



ORDERING INFORMATION:

	+ Thread	+ Side
REF OR0112	M12 - 01	Left - L
	½"-20 - 02	Right - R
	M10 - 03	

To find the reference of the solution you would like to order, combine informations noted in blue. For example for a left M12 work hook: REF OR0112-01-L

COSMETIC ARTICULATED HAND

170,50 €
HT

Discrete, this elegant prosthetic hand imitates the shape and aspect of the missing limb while rebalancing the body.

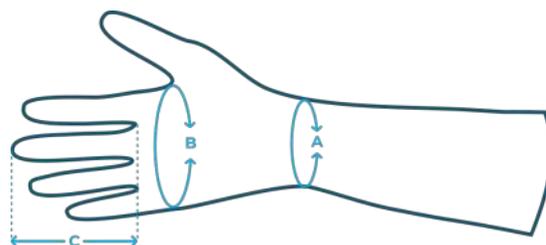
Articulated and easy to use

This prosthesis offers the possibility to manually bend the fingers to facilitate the gripping of small and light objects. It requires no special training.



How to choose the size ?

To accurately determine the correct cosmetic hand size, take the patient's measurements using the following diagram and measurement table :



Technical features :

Glove material	Silicone
Made in	China
Compatibility	Universal wrist

	SIZE	A WRIST GIRTH (cm)	B PALM GIRTH (cm)	C MIDDLE FINGER LENGHT (cm)
Adult Man	S	15.5	18	7.5
	M	17	21	8
	L	19.5	23	8
	XL	19	23	9
Adult Woman	S	14.5	17.5	7
	M	15.5	18	7.8
	L	15.8	19	8
Child	S	12	14.5	5.2
	M	13	15.5	6.5
	L	13	16.5	7.5

Articulated fingers

Allows the gripping of light objects

Silicone glove

Can be cut at the suitable length after the tool-holder fixing

Threaded rod

To attach a tool holder and clip the hand on a socket



ORDERING INFORMATION:

	+ Thread	+ Size	+ Side	+ Color
REF OR0105	M12 - 01	Child S - CS	Left - L	<i>See next page</i>
	M10 - 03	Child M - CM	Right - R	
		Child L - CL		
		Woman S - AFS		
		Woman M - AFM		
		Woman L - AFL		
		Man S - AMS		
		Man M - AMM		
		Man L - AML		
		Man XL - AMXL		

To find the reference of the solution you would like to order, combine informations noted in blue. For example for a M10 left woman size M in darkest color: OR0105-01-AFM-L-18

18 different skin colours

To adapt to all skin tones, the aesthetic hand exists in 18 colours.

A color chart is available on request, please contact us.



18



17



16



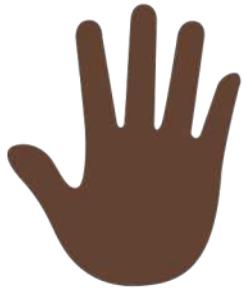
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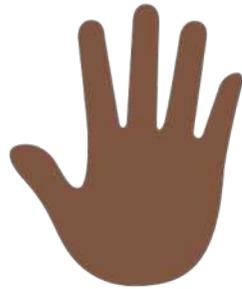
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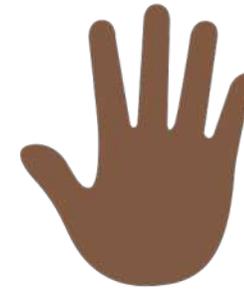
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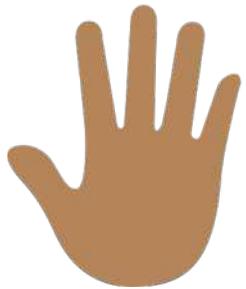
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08



07



06



05



04



03



02



01

PURCHASE

OUR PRODUCTS



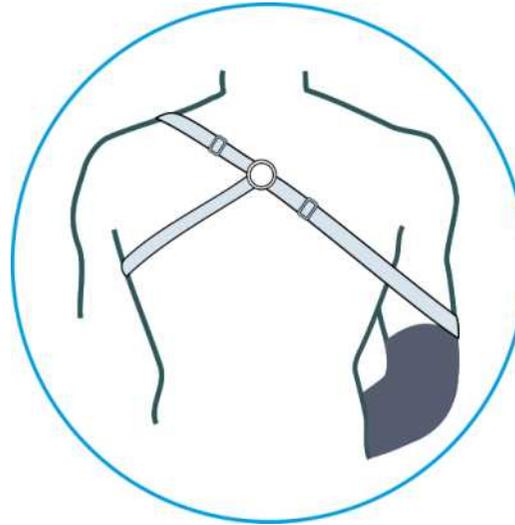
WRITE TO DAVID AT
SALES@ORTHOPUS.COM

SOLUTIONS TO COME **BEGINNING OF 2022**



MECHANICAL ARM

For transhumeral amputations or disarticulation of the shoulder, compatible with all our passive hand prostheses.



BODY HARNESS

This body harness allows to control mechanical upper limb prostheses opening and closing, thanks to movements of the body.



MYOCOACH

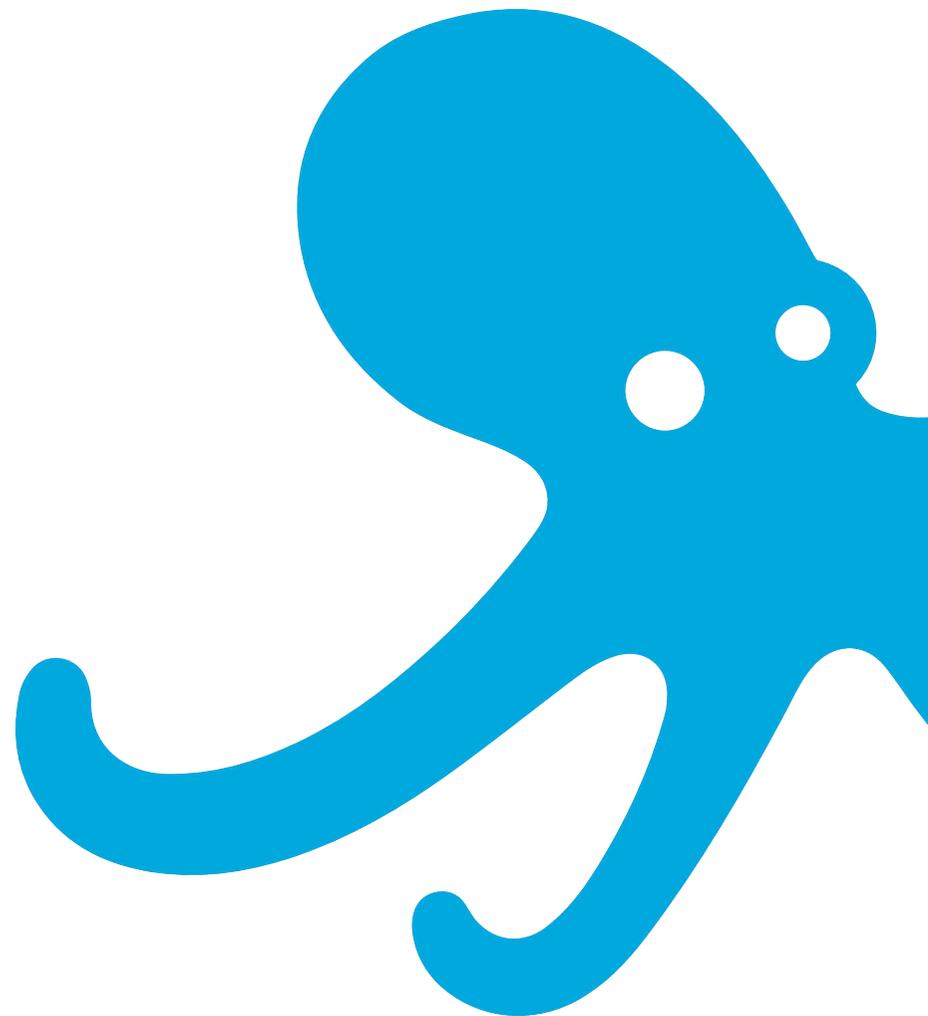
Dedicated to persons with upper limb amputations and P&O practitioners, this device allows to train arm muscles contraction.

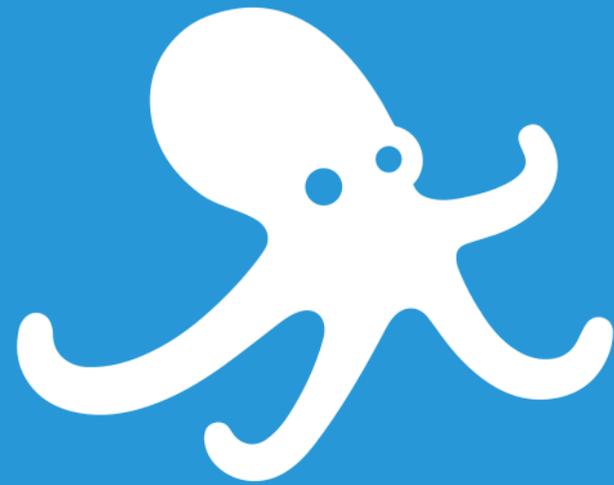


AND ALSO:

Our research and development team is working on other technical aid solutions for the upper limb, including a myoelectric hand prosthesis.

**Would you like to be informed of our progress on future ORTHOPUS' medical devices?
Subscribe to our newsletter on orthopus.com/en/contact**





orthopus.com