

**RB 3D**  
we multiply your capacity



Hv3

**HERCULE V3**  
AVAILABLE IN 3 SIZES

[www.rb3d.com](http://www.rb3d.com)

## POSSIBLE USES:



- ▶ Transport position



- ▶ Hands-free load carrying



- ▶ Being mobile while carrying loads or tools



# Hv3

## HERCULE V3 THE MOBILE STRENGTH ASSISTANCE SOLUTION

### INNOVATIVE DESIGN

RB3D evolved the codes of building exoskeletons with the new HERCULE Version 3. Its innovative design is protected by 2 patents.

More slender and with a higher level of finishing, HERCULE V3 has powerful and compact legs and a front platform that can be adapted for a wide range of uses.

If you find that the load carrying tasks are too strenuous, Hercule V3 is made for you!

1

Battery charger connection

2

Core ARM8 and real time software

3

Last generation Li-Ion battery

4

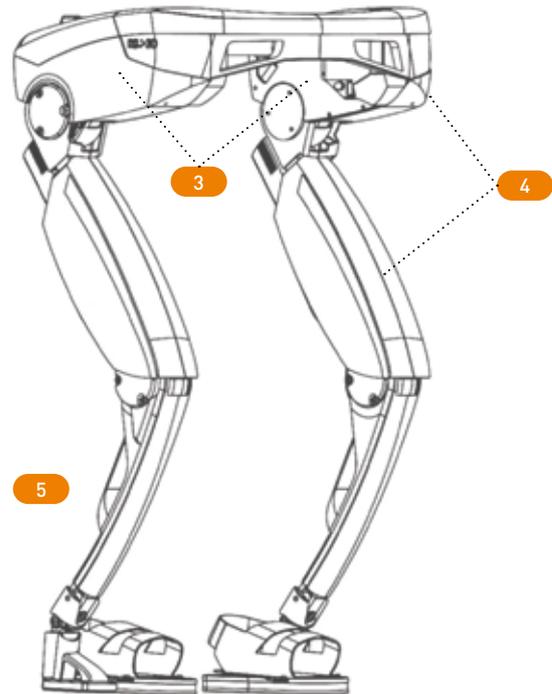
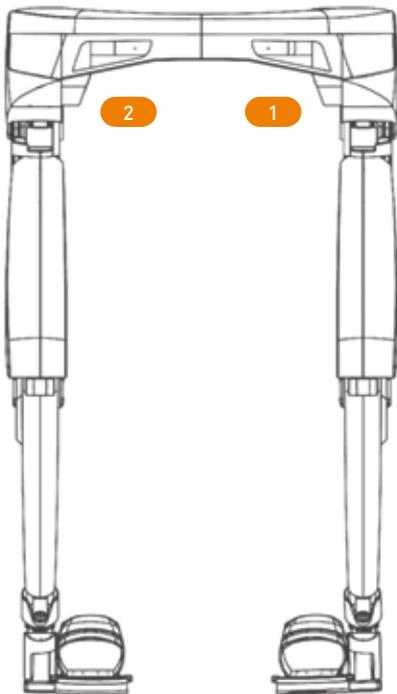
Reversible electrical actuators

Technology under license of



5

Structure in Aluminium 7075 T6



## HOW TO USE IT

HERCULE V3 is designed to be set/removed in less than one minute thanks to 2 status : DRESS/UNDRESS and ACTION.

HERCULE V3 allows walking on smooth or uneven soils, even inclined up to 10°, as well as go up or down stairs.

HERCULE V3 allows to reach the ground with additional arms thanks to its ability to stay in squat position. In addition, it allows the user to fit the exoskeleton while being seated.

## OPEN AND SCALABLE DESIGN

HERCULE V3 is protected against dust but not against water ingress. Thus its main use has to be in indoor conditions, in a dry and non corrosive ambience.

We can deliver Hercule V3 without its control/command software, as a mechatronic platform for research and development use.

The front part of Hercule can support various kinds of accessories like specific arms, supports, etc..

HERCULE V3 is available in 3 sizes : M, L, XL.

## ERGONOMICS AND USER FRIENDLINESS



Ergonomical Human-machine interface on top of front platform.



Ergonomic backpack harness with quick release fastener.



Flexible foot attachment system, for easier walking. RB3D patent.

## TECHNICAL DATA

Weight, with batteries	30 kg
Dimensions (size L) mm	H : 1100 L : 650 P : 400
Design	14 degrees of freedom amongst which 4 are motorised
Autonomy	4h in nominal use
Payload	40 kg
Max walking speed	5 km/h

## SIZES

**HEIGHT**  
(user weight between 60 and 100 kg)

1,66 to 1,73 m	M
1,73 to 1,78 m	L
1,78 to 1,88 m	XL



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## RB3D, INNOVATION AND STRENGTH ASSISTANCE

Thanks to our know-how we design innovative cobotic solutions, to fulfill handling and manipulation needs, in various industrial fields. Our cobots and soon, our exoskeletons will give you the power and stamina to increase your efficiency and achieve strenuous works without MSD risks.

ERGONOMICAL STUDY, ENGINEERING SOLUTIONS  
DESIGN, MANUFACTURING, INSTALLATION