

# **CARRYSUIT® SPECIFICATION**

The CarrySuit® is a passive exoskeleton that relieves the arms and upper body when holding and carrying heavy objects. It consists of a rigid frame around the upper body. This frame connects to the user's hip and torso via a textile user interface. The size of the frame and interface can be adjusted to the user. Loads are connected to the frame via an exchangeable load connection and an adjustable strap. Through the CarrySuit®, a large part of the weight is transferred directly to the hips, relieving the arms and upper body.



Maximum payload50 kgMaximum payload per side25 kgTotal system mass5.6 kg

Dimensions (packed) 50 cm x 10 cm x 25 cm Size of the system 64 cm x 27 cm x 47 cm

Adjustable lengths textile interface

Back length 45-60 cm Shoulder straps 0-30 cm Hip circumference 75-120 cm

Adjustable lengths scaffold

Back length 43.6 – 51.8 cm Hip width 32.5 – 45.7 cm

Lifetime in years 2

List Price CHF 1690 without taxes

(around € 1550)

Attachment of different payloads possible with an exchangeable load connector. More information available on our website.

### CARRYSUIT® APPLICATIONS

The CarrySuit® supports all work that requires holding and carrying of heavy loads. Use cases include applications in construction, relocation, warehousing, logistics, and others.



For all inquiries, please contact Auxivo AG

www.auxivo.com

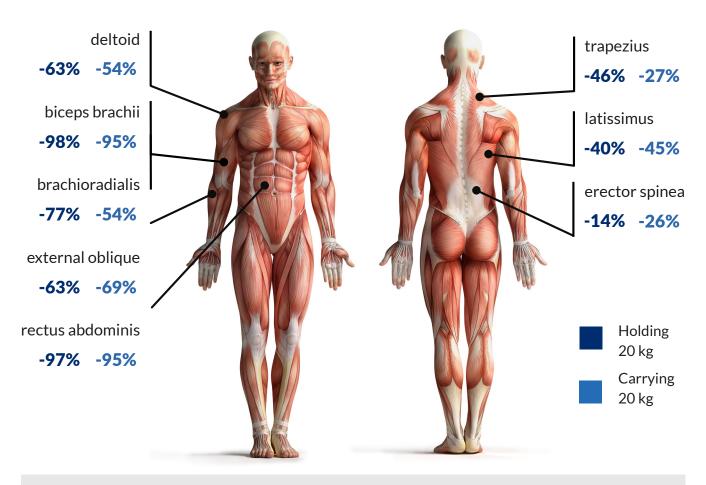
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#### CARRYSUIT® BIOMECHANICAL PERFORMANCE

The CarrySuit® exoskeleton transfers the weight of the payload to the user's hip, bypassing critical joints like the wrist, elbow, shoulder, and spine and relieving the muscles in the torso and upper extremities. The level of load reduction was quantified through a series of experiments in a biomechanical laboratory.

#### MUSCLE LOAD REDUCTION



<sup>\*</sup>Results represent the average reduction for 8 participants. Individual reductions may vary and depend on the particular person and the task performed while using the CarrySuit®.

## **HEART RATE REDUCTION**

