

## LIFTSUIT® 2.0 SPECIFICATION

The LiftSuit® 2.0 is a lightweight textile exoskeleton that supports the back and hip muscles when lifting objects or working in a forward-leaning position. It features integrated elastic elements that store energy to support the user and reduce the workload.



Size	S/M + L/XL	
Size selection	User selects LiftSuit® 2.0 size based on user's T-shirt size (S/M/L/XL)	
	S/M	L/XL
Mass overall	0.9 kg	1 kg
Dimension (packed)	Approx. 39x39x11 cm	Approx. 39x39x11 cm
Dimension (coat rack)	Approx. 100x30x15 cm	Approx. 110x40x15 cm
Back height	40 cm	46 cm
Chest	72-94 cm	87-115 cm
Hip	69-100 cm	86-120 cm
Thigh	49-63 cm	57-73 cm
Load reduction	Up to 35%	
List Price	CHF 900 without taxes (around € 850)	

## LIFTSUIT® 2.0 APPLICATIONS

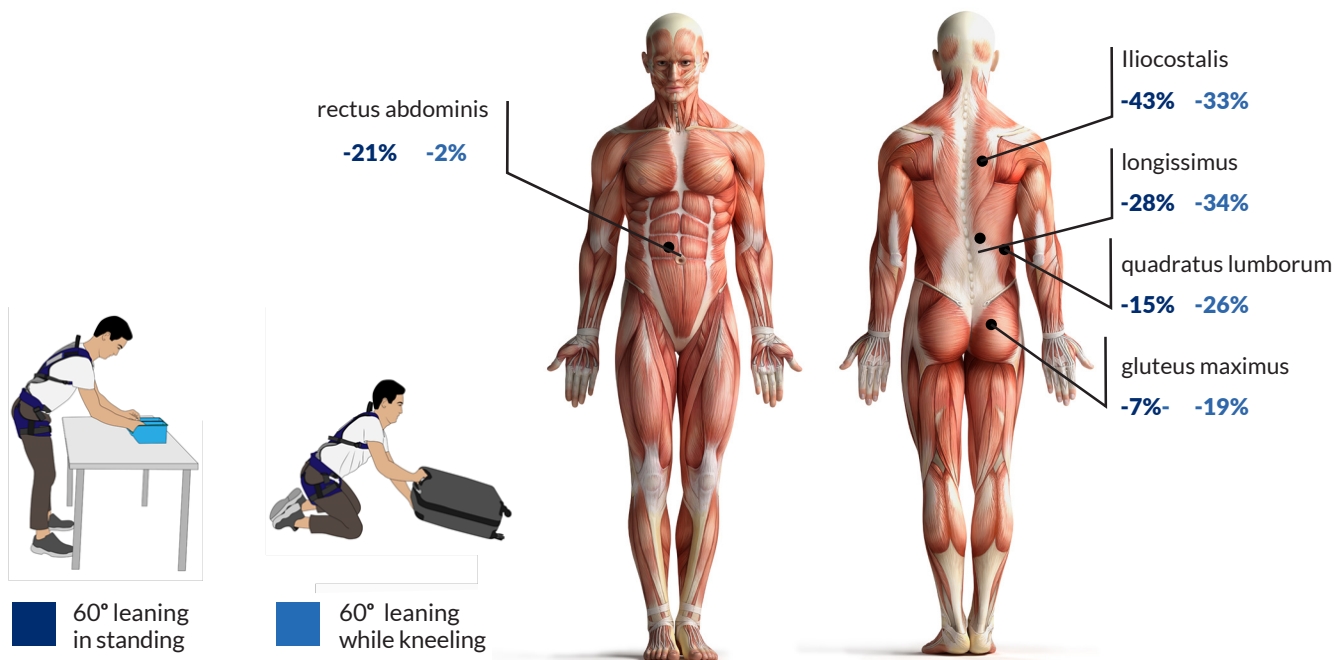
The LiftSuit® 2.0 supports all work that requires frequent lifting of objects from below hip level or working in a forward-leaning position. Use cases include applications in logistics, construction, warehousing, healthcare, agriculture, and others.



## LIFTSUIT® 2.0 BIOMECHANICAL PERFORMANCE

The LiftSuit® 2.0 supports back- and hip muscles when lifting objects from below hip level or while remaining in a forward-leaning position. It functions as a layer of artificial muscles outside the body. This way, it reduces the load on its users' muscles. The level of load reduction has been quantified through a series of experiments in a biomechanical laboratory.

## LOAD REDUCTION WHEN WORKING IN FORWARD LEANING POSITIONS



\*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 LiftSuit® 2.0.

## LOAD REDUCTION WHEN LIFTING LOADS REPETITIVELY



**No Exo** Repetitive lifting of 6 kg  
Heart rate (HR)= 122 bpm  
Working heart rate (WHR) = 58 bpm



**Liftsuit** Repetitive lifting of 6 kg  
HR = 117 bpm (↓4bpm)  
WHR = 54 bpm (↓7%)

