



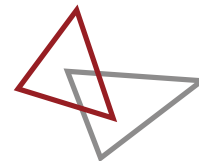
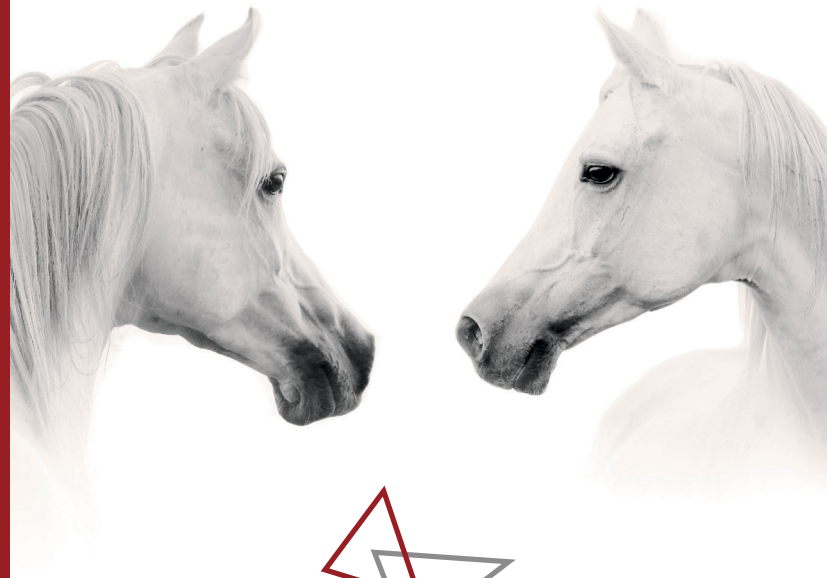
#### SIZE CHARTS

SIZE	XXS	XS	S	M	L	XL
<b>A</b> Chest	74-82	80-88	86-96	95-105	100-110	110-120
<b>B</b> Waist	60-68	66-74	72-80	78-86	84-92	94-102
<b>C</b> Back Length	30-33	33-36	36-39	39-42	42-45	45-47
CO2 Cartridge	45g	45g	50g	50g	74g	74g



"REPLACE ONLY WITH CERTIFIED SPARK CARTRIDGES"

Manufacturer :  
Smart Rider LTD  
Mishmar Hanegev 8531500, Israel



# SPARK

EQUESTRIAN AIR BAG  
SPARK M2  
USER'S GUIDE

\*Read carefully before use \*Suitable for 30kg and up

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## 1. ABOUT THE SPARK AIR VEST



The SPARK Air vest uses an advanced safety technology developed for motor vehicles.  
In case of fall, the vest is inflated by a CO2 cartridge



The SPARK Air Vest is a lightweight safety system designed to protect riders during a fall.



The SPARK Air bag must be used only for equestrians, and has an adjustable belt.



The SPARK Air Vest is certified by Alienor Certification (2754), 21 rue Albert Einstein, 86100 Châtelleraut, France.

The product conforms to EU 2016/425 regulations standard and is certified by expert assessment to be in compliance with Critt Sport Loisirs protocol AMC-011 and GEG-01.  
Visit

<https://smartrider.co.il/spark-air-bag-french/>  
for the declaration of conformity.



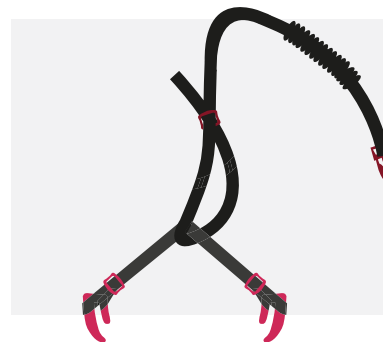
To ensure safe and effective use of the product, please read these instructions thoroughly before using the SPARK Air Vest.

Any contamination, alteration or misuse of the protector, can dangerously reduce the performance of the protector.

## 2.1 SAFETY INFORMATION GENERAL

- The SPARK Air Vest offers special protection and supreme comfort, but be aware that no safety vest can guarantee full and complete protection – therefore, we recommend combining airbag products with a body protector certified with EN 13158 when refer to equestrian.
- The SPARK Air Vest is to be used for equestrians no other purpose
- The jacket must be properly fitted to provide protection to the rider
- The SPARK Air Vest only provides protection in its inflated state
- Keep the inflatable area clear of other objects, like bags or accessories, that could prevent the proper functioning of the device and compromise the protection it provides
- Do not make any modifications or take apart any of the components in the vest, Except as required to reassemble.
- Remove sharp or pointed objects (including pins and pens) from the jacket before wearing
- Keep away from open flame, including lit cigarettes
- Visually inspect the jacket before use to ensure there is no damage
- The Air Vest should be inspected by authorized distributor after every impact event Or after 10 inflations.
- Bring to an authorized distributor for a maintenance check once a year, even if the Air Vest has had fewer than 10 inflations
- The SPARK Air Vest has a lifetime of 5 years from the production date attached to each vest
- The SPARK Air Vest has a 1 year warranty for material and workmanship

- The SPARK Air Vest and SPARK cartridges, should be storage and used below 45°C and above 0°C.
- Before riding, the user must attach the SPARK Air Vest's operation strap to the saddle, and connect it with the buckle to the key ball operation system. Please adjust the operation strap as tight as possible while still allowing free movement.



## 2.2 SAFETY INFORMATION KEY BOX

- The SPARK CO2 cartridge cannot be reused – once it has deployed, it will no longer inflate the Air Vest and provide protection
- If there is a hole in the SPARK CO2 cartridge, it is unusable and must be replaced
- If there are any signs of corrosion on the SPARK cartridge, replace it immediately
- Keep SPARK cartridges out of reach of children

### 3.1 JACKET DETAILS BEFORE INFLATION

- 1 INTERIOR POCKET CONTAINING THE CO2 CARTRIDGE
- 2 CARTRIDGE
- 3 KEY BOX
- 4 KEY BALL
- 5 OPERATION STRAP
- 6 ELASTIC ADJUSTABLE STRAP
- 7 RE-ASSEMBLING TOOL
- 8 INSIDE BELT



## 3.2 JACKET DETAILS AFTER INFLATION

In the event of a fall, the key ball is pulled out, which causes the SPARK cartridge to instantly inflate the airbag.

Inflated cushioning is strategically placed in five areas to provide protection to the neck, chest, and back.

- 1 BLOWN-UP COLLAR FLAP
- 2 TWO BACK CUSHIONS
- 3 HIP CUSHIONS
- 4 SIDE CUSHIONS
- 5 CHEST CUSHIONS



## 4. HOW IT WORKS

Before riding, the user attaches the SPARK Air Vest's operation strap to the saddle.

If the rider falls or is thrown from the horse,

the operation strap pulls the key ball from its key box.

When activated, the key box punctures the seal on the SPARK CO2 cartridge. The released gas then inflates the air cushions within the vest, creating a protective buffer for the user and providing some shock absorption.

The key ball requires considerable strength to be pulled out. This ensures that the Air Vest does not inflate in the course of normal riding, including standing on pegs.

Riders can disconnect their Air Vest from the saddle quickly thanks to its One-Click Release feature.

## 5.1 REASSEMBLING YOUR AIR VEST JACKET

### OVERVIEW:

- 1 Set a key ball in the key box, using the tools supplied with the Air Vest
- 2 Unscrew and remove the used CO2 cartridge
- 3 Make sure the air cushion has deflated
- 4 Install a new SPARK CO2 cartridge
- 5 Put the cover back on the key box



## 5.2 REASSEMBLING YOUR AIR VEST JACKET

### DETAILED STEPS:

- 1 Get the hexagon wrench, and an unused SPARK CO2 cartridge of the appropriate size. If you're not sure of the right size, check the size table or consult an authorized dealer.
- 2 Insert the Hexagon wrench into the bottom of the key box. Release the metal bottom cover.
- 3 Set the key ball into the hole of the key box. If it does not fit, you may need to loosen or tighten the Bottom cover using the hexagonal wrench
- 4 Unscrew and remove the used SPARK cartridge.
- 5 Make sure the air cushion has completely deflated. Spread the jacket face-down on a flat surface and press down on each cushion to remove all the gas. To avoid damaging the product, do not roll up or fold the jacket.
- 6 Verify that the key ball is set properly and the bottom cover is well tight.
- 7 Remove the Hexagon wrench from the key box.
- 8 Install a new, unused SPARK CO2 cartridge in the key box. Screw it in tightly but be sure not to over-tighten.
- 9 Replace all air cushions and fasten them in place.
- 10 Slide the One-Click Connector through the hole of the key box cover and close the cover.

## 6. FITTING YOUR AIR VEST JACKET

To ensure proper use and full protection, the Air Vest must be fitted properly.

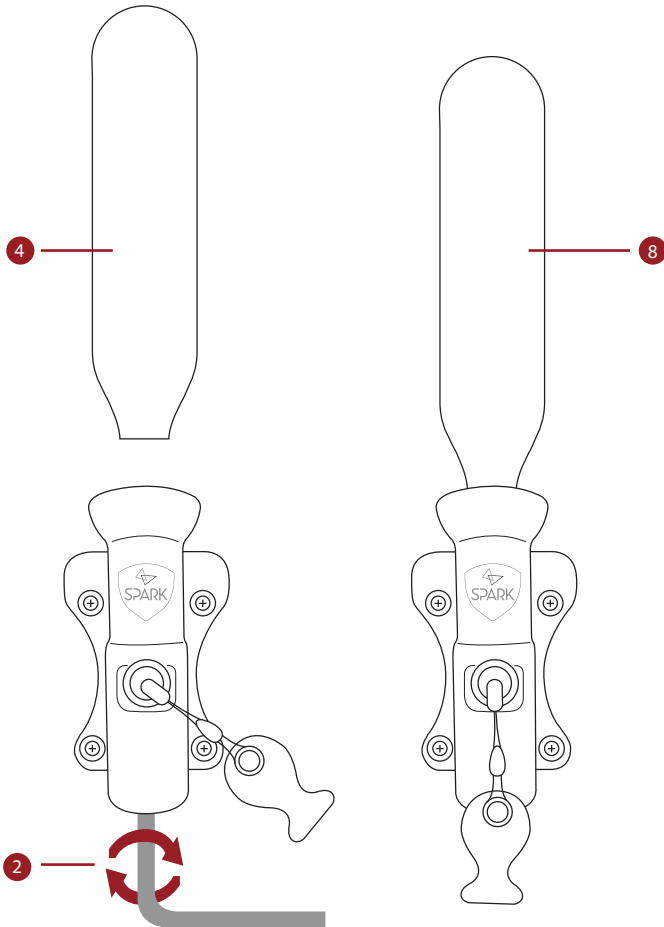
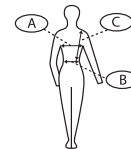
Using a tape measure, consult the size chart below to confirm that you are using the Air Vest of the correct size.

When worn correctly, the Air Vest should be long enough to provide protection to the hips once deployed but should not be long enough to touch the saddle while riding.

The Air Vest is to be worn as outerwear. As such, it must be able to fit comfortably over your riding clothes.

The waist size can be adjusted using an adjuster located inside the vest.

SIZE CHARTS						
SIZE	XXS	XS	S	M	L	XL
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CO2 Cartridge	45g	45g	50g	50g	74g	74g



## 7. CARE INSTRUCTIONS

To ensure the longevity and effectiveness of the product, follow these care instructions carefully.

### 7.1 CLEANING THE AIR VEST JACKET

Do not wash or launder the SPARK Jacket or the all-in-one air bag.

Do not submerge in water

If the Air Vest gets wet, dry it in the shade.

To remove stains: wipe with a wet towel or hang the air vest and spray water on its surface, taking care not to get the key box wet.

### 7.2 STORING THE AIR VEST JACKET

Avoid high temperatures, including direct sunlight or leaving the Air Vest in a hot vehicle.

Keep out of rain or extreme moisture and humidity.

Hang up the jacket instead of folding or rolling it up.

If you must store it folded or flat, do not store any items on top of the Air Vest.

### 7.3 REPAIRING OR REPLACING THE AIR VEST JACKET

Consult an authorized dealer about repairing or replacing your Air Vest if:

- The jacket or inner fabric become frayed or torn  
Inner tubing is exposed
- The key box or SPARK gas cartridge are cracked or rusted
- The adjustable operation strap is scraped or frayed.
- The material undergoes any considerable deterioration or discoloration

