

## Comparison Chart for harness type/ light weight models

	Advantage	LV	SV2	MLV
Back airbags deployed	 Back Deployed	 Back Deployed	 Back Deployed	 Back Deployed
Front Style	 Buckles or Zipper	 Buckles	 Buckles	 Buckles
<b>NEW Inflation Speed</b>	<b>About 0.09 second</b>	<b>About 0.18 second</b>	<b>About 0.18 second</b>	<b>About 0.18 second</b>
Weight	1Kg (34.3oz)	900gr (31.7oz)	810gr (28.6oz)	1.1Kg (38.8oz)
Design: Harness Type	<b>Designed by Olympic champion riders</b> introduced in 2010 Quieter deployment no button design and sound insulated key box	Introduced in 2009 for Equestrian competition	Introduced in 2009 for Equestrian competition	Introduced in 2009 for Equestrian competition and Power Sports. Includes reflective stripes for increased night visibility.
Key-Box Cover (cartridge pocket)	Padded in back. <b>Additional sound insulation in front.</b>	No padding in back. Standard cover of C02 cartridge.	No padding in back. Standard cover of C02 cartridge.	Padded in back. Standard cover of C02 cartridge.
Key-box type	B-type (heavy duty)	Y-type Light Weight	Y-type Light Weight	B-type (heavy duty)
Available Options (may add at any time)	Back protector Chest protector Side paddings	Back protector w/harness Chest protector w/harness Side paddings w/harness	Back protector w/harness Chest protector w/harness Side paddings w/harness	Back protector Chest protector Side paddings
Material	600D (Polyester), Ripstop (Nylon), Air mesh (Polyester)	600D (Polyester) Ripstop (Nylon) Air mesh (Polyester) <i>New and improved</i>	600D (Polyester) Ripstop (Nylon) Air mesh (Polyester) <i>New and improved</i>	500D(Nylon), Ripstop (Nylon), Air mesh(Polyester) <i>New and improved</i>
Available colors	<b>Buckles:</b> Black, Red, Royal Blue, Navy Blue <b>Zipper:</b> Black	Black, Red, Royal Blue Navy Blue, Purple	Black, Red, Royal Blue Navy Blue, Purple	Black Reflective, Yellow Highly Reflective
Available sizes	<u>Group size</u> XSmall: From 3XS-2XS (Kids) Small: From 2XS-XS Medium: From S-XL Large: From XL-3XL Extra: From 3XL-5XL	<u>Group size</u> Small: From 2XS-S	<u>Group size</u> Medium: From S-XL	<u>Group size</u> Medium From S-XL Large: From XL-3XL
<b>Co2 Cartridge</b>	<b>50cc or 60cc</b>	<b>48cc</b>	<b>48cc</b>	<b>60cc</b>
Hip Airbag type	Pocket telescopic, no snaps.	Flip down, snaps.	Flip down, snaps.	Flip down, snaps.
Neck Airbag type	Large	Large	Large	Large
Side and tail bone Airbags	Has been lowered to protect upper side hips, bridge covers tail bone.	Crosses side rib cage, tail bone cushion.	Crosses side rib cage, tail bone cushion.	Crosses side rib cage, tail bone cushion.



The CE certification indicates that the product has met the requirements made by the European Union (EU) import and technical standards for a particular industry.



## Hit-Air is the World's Finest Line of Equestrian Airbag safety apparel

Mugen Denko, the manufacturer of Hit-Air, has distanced themselves from the mass-marketed body armor safety apparel.

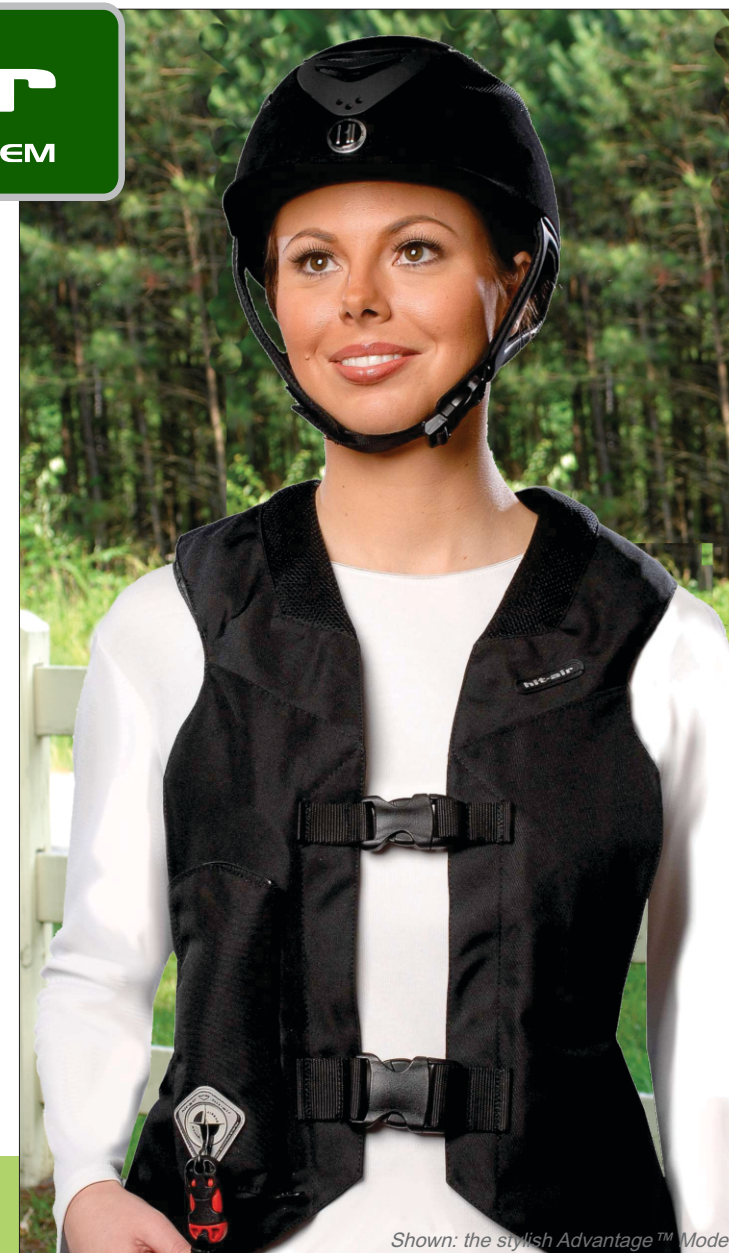
They offer an exclusive range of equestrian airbag safety apparel that appeal to those who appreciate the best in safety, comfort and style

The Time is now for cutting Edge equestrian apparel that incorporates the innovative solutions of air bag technology to advance the highest level of safety without compromising comfort and fashion.

All Hit-air models are designed to provide protection for the neck, back, chest and hip (tail bone). These models are especially light weight, cool and more comfortable than the competing brand. It is also much quieter when deployed than the competing brand, making it much less likely to spook the horse during an unintended deployment.

As soon as the rider is thrown from the horse, the airbag inflates and protects rider's neck, back, chest, sides and hip.

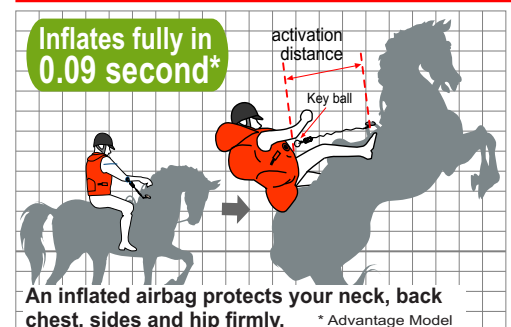
- Shock-buffering protection system will be activated immediately after the distance from the rider to the horse exceeds the "activation distance", when the key ball is pulled out from the key box to release CO2 gas into the neck, chest, body, back and hip airbags to inflate them in as little as 0.09 sec for Advantage Model and 0.18 sec for SV2 and LV, lessening the effect of impact on rider's body.
- Even before the airbag is fully inflated (in 0.09 second to 0.18 second), it is quite effective for shock buffering.
- After the airbag is fully inflated, the gas is released slowly through a gas release valve and the feeling of tightness will begin to subside.



Shown: the stylish Advantage™ Model

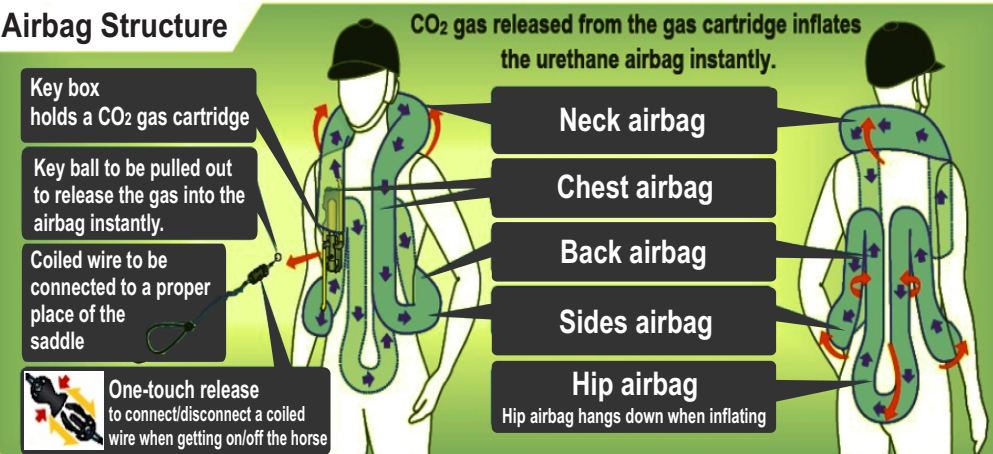
## AIRBAG SYSTEM

### Shock Buffering Protection System



An inflated airbag protects your neck, back, chest, sides and hip firmly. \* Advantage Model

### Airbag Structure



- Key box holds a CO2 gas cartridge
- Key ball to be pulled out to release the gas into the airbag instantly.
- Coiled wire to be connected to a proper place of the saddle
- One-touch release to connect/disconnect a coiled wire when getting on/off the horse



# Advantage™



## Product Features Comparison

The new Advantage™ model is a culmination of more than a decade of experience in airbag technology by MUGEN DENKO, LTD.

The **attention to detail** is unmatched by any other brand of airbag apparel.

The neck airbag, where the most serious injuries occur, inflates first, followed by (in only fraction of a millisecond) the torso and hip airbag. The **neck airbag is also significantly larger** than the leading competitor's neck air bag.

The key box where the CO2 cartridge is deployed is **protected from dust and dirt and provides sound insulation** to minimize spooking the horse during a deployment.

The vest is also more comfortable because the **hip air bags are concealed** inside a special dual pocket making it unnecessary to have a long "duck tailed" style that can be uncomfortable in the saddle.

The Advantage™ is also more versatile because it has an additional optional CE back protector and waist side cushions.

The new Advantage™ is also cooler to wear because of the open design. With all of these advantages, it is also **more affordable costing hundreds of dollars less!**

Other colors



Red Royal Blue Navy Blue

## Overlay of the Hit Air Advantage™ Blue, and the other manufacturers' model (black)



Hit Air Telescopic Airbag (un-inflated)

**Hit Air Low profile telescoping hip airbags** that slides inside the body of the vest. This makes the hit-air more comfortable in the saddle.



Option Velcro(soft) (for Chest padding) Option Velcro(soft) (for Back padding) Waist adjuster Inside waist adjustment belt (Velcro)

**hit-air**  
Weight: 34.30 oz or .972 kg



### Neck Protection



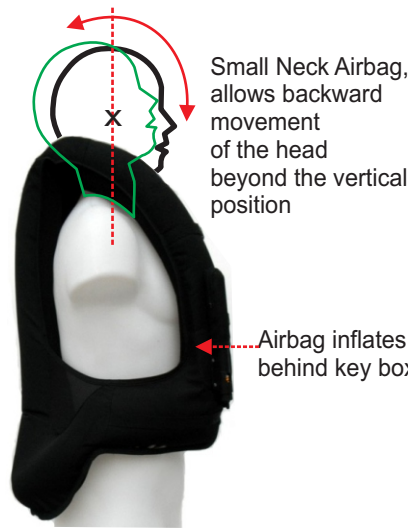
Larger Neck Airbag keeps the head vertical, fully support of the Neck

Airbag inflates behind key box

Deployment speed of airbag **0.09 sec**

Key box with Co2 cartridge completely enclosed with dust and debris cover

**Other Manufacturers' Model**  
Weight: 38.60 oz 1.094 kg



Small Neck Airbag, allows backward movement of the head beyond the vertical position

Airbag inflates behind key box

Key box with Co2 cartridge exposed to dust and debris

## The Hit Air Advantage

	Hit Air Advantage	Other Manufacturer
Complete Neck protection	●	○
Airbag inflates behind key box	●	●
Dual hip airbag protects hip (back and sides of hips)	●	○
Optional chest protector (for western riders)	●	○
Optional CE back protector (for western riding)	●	○
Optional side padding (for western riding & maximum protection)	●	○
Adjustable size to fit over different clothing thickness	●	○
Comfortable on the saddle, no butt friction	●	○
Affordable Pricing (hundreds cheaper)	●	○
Versatility for English and Western riding	●	○

## Optional Protectors

## ACCESSORIES

Additional protectors are recommended for people that has had previous injuries or for those practicing very risky disciplines like training young horses, etc.

Easily attachable to the Hit-Air Vests & Jackets

CE Back Padding LW (Light Weight)	Harness Back Padding	Separate Chest Padding	Honeycomb (HC) chest protector	All-in-One Chest Padding	Harness Side Padding
The world's lightest (115g) back protector meets the European Safety Standard (CE Marking)!	Synergy between CE back padding and the Hit-air system will produce a greater shock buffering effect	Attaches via Velcro for additional protection before and after inflation.	Light and flexible chest padding fits closely with the chest. The honeycomb structure absorbs the shock to the chest.	Attaches via Velcro for additional protection before and after inflation.	It disperses the shock of impact of a fall from a horse and reduces injury of the sides. To be attached to the side belt of the harness type all-in-one airbag.
<b>Fits:</b> Advantage™ Advantage Kids™ MLV With stand alone harness: SV2, LV	<b>Fits:</b> Advantage™ Advantage Kids™ MLV With stand alone harness: SV2, LV	<b>Fits:</b> Advantage™ Advantage Kids™ MLV, FR-2, KM Kids With stand alone harness: SV2, LV	<b>Fits:</b> Advantage™ Advantage Kids™ MLV and FR-2 With stand alone harness: SV2, LV	<b>Fits:</b> Advantage™ MLV and FR-2 With stand alone harness: SV2, LV	<b>Fits:</b> Advantage™ Advantage Kids™ SV2, LV and MLV
MSRP: \$40.00	MSRP: \$40.00	MSRP: \$40.00	MSRP: \$45.00	MSRP: \$40.00	MSRP: \$25.95

## ACCESSORIES

<b>Hit-Air Replacement Cartridge</b> CO2 compressed gas cartridges. MSRP: 30cc: \$18.00 ea 48cc: \$20.00 ea 50cc: \$20.00 ea 60cc: \$22.00 ea	<b>Hit-Air Saddle Strap</b> To attach the coiled wire to the horse. Attaches to the stirrup bar. Lengths: Small: 16.7" Medium: 18.7" Large: 20.6" MSRP: \$12.95	<b>Hit-Air Coiled Wire</b> One Coiled Wire is included with each Hit-Air. Additional units are available for those who have more than one horse. MSRP: \$19.95	<b>Replacement tool and bolt (includes owner's manual)</b> For cartridge replacement. MSRP: \$8.95	<b>Hit-Air Buckle Extender</b> Adds up to 7" to the chest belt and up to 6.25" to the waist belt. Comes in pairs. Only for SV2, LV, MLV and Advantage MSRP: \$27.95	<b>Hit-Air Buckle Type Key Ball Set</b> Replacement for a set of a key ball and a buckle type female connector MSRP: \$15.00	<b>Loop Setter for Coiled Wire</b> Accessory part for the Coiled Wire MSRP: \$15.95

