



hit-air

SHOCK BUFFERING SYSTEM

Horseback Riding

Horseback Riding Airbag System
New airbag structure!
High-speed development model
Deployment in about 0.15 second

The New

Advantage

H-Model

Before

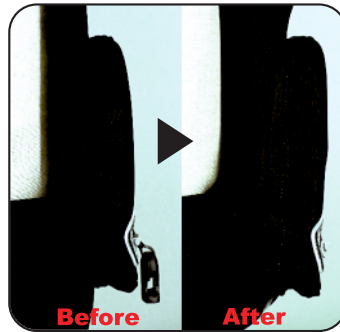
After



Weight 34.3 oz

Weight 1 kg

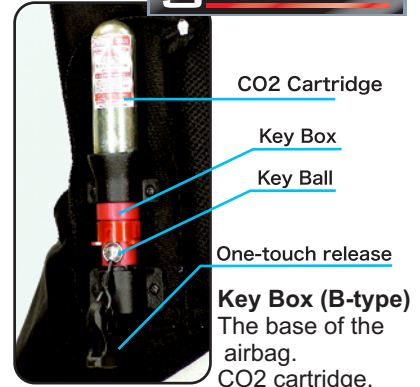
The airbag behind Key Box



Before

After

S-SYSTEM



CO2 Cartridge

Key Box

Key Ball

One-touch release

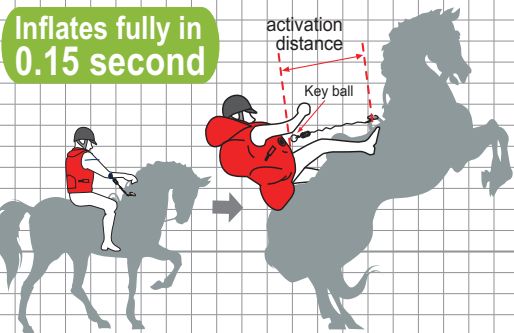
Key Box (B-type)
The base of the airbag.
CO2 cartridge.

Wearable airbag

In a fall, the shock buffering protection system will be activated instantly after the distance from the rider to the saddle exceeds the "activation distance", when the key ball is pulled out of the key box to release CO2 gas into the neck, chest, back and hip airbags to inflate them and to absorb the impact on rider's body

An inflated airbag protects your neck, back, chest, sides and hip firmly.

Shock Buffering Protection System



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

CO2 gas released from the gas cartridge inflates the urethane airbag instantly.

Neck airbag

Chest airbag

Back airbag

Sides airbag

Hip airbag

Hip airbag hangs down when inflating

Contact: info@hitairequestrianUSA.com Phone: (877) 989-3282

MUGEN DENKO JAPAN

Chest Padding



All-in-one Chest padding

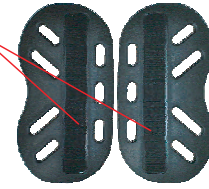


Separate Chest padding

All-in-one Chest padding



Separate Chest padding



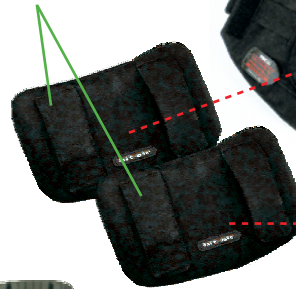
Velcro (male)



Side Padding

H-M H-L H-X
CO₂ CO₂ CO₂
R50cc R60cc R60cc

Belt loop



Back Padding



SPIDI Back padding Z53

Velcro (male)



SPIDI Back padding Z53



Haeness Back padding

Material: 600D Polyester, Polyester Mesh, Ripstop Nylon
Airbag tube: Polyurethane
Color: Black / Blue / Red / Yellow (Reflective)
Size (EU, US):
H-M: Medium / S-XL,
 Co2 Cartridge 50cc, Weight: 2.2 pounds / 1 kg
H-L: Large / XL-3XL
 Co2 Cartridge 60cc, Weight: 2.6 pounds / 1.2kg
H-X: Extra / 3XL-5XL
 Co2 Cartridge / 60cc, Weight: 3 pounds / 1.4 kg



Other colors

Blue



Red



Yellow (Reflective)



Advantage



hit-air

The Advantage Comparison

air-bag system

Horseback Riding

SHOCK BUFFERING SYSTEM

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 most 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 airbag.

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 an unintended deployment.

The vest is also more comfortable because the **hip air bags are concealed** inside a special 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!**

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



Hit Air Telescopic Airbag (deflated)

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)



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 **0.15 sec**

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



Other Manufacturers' Model

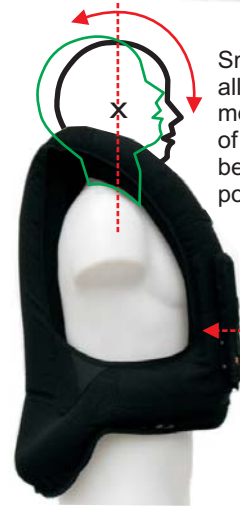
Weight: 38.60 oz 1.094 kg



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

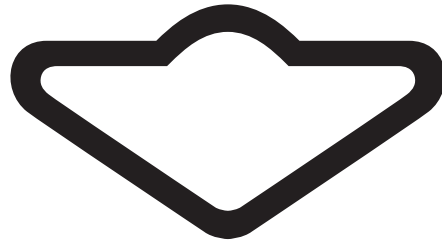


The Hit Air Advantage



Other Manufacturer

	Hit Air Advantage	Other Manufacturer
Complete Neck protection	●	○
Airbag inflates behind key box	●	●
Dual hip airbag protects hi (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)	●	○
One size adjustable to fit Small to XL (Medium)	●	○
Comfortable saddle, no butt friction	●	○
Affordable Pricing (hundreds cheaper)	●	○
Versatility for English and Western riding	●	○



hit-air air-bag system

www.hitairequestrianusa.com

Airbag Set Up



On the horseback, hold both sides of the female part of the "one-touch release" into which insert the male connector.



Coiled Wire
Side of the Saddle

