



# **independence gliders for real pilots**

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## **Owner´s manual Groundhandling-glider “Trainer”**

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# WARNING:

The independence "Trainer" was developed only for groundhandling exercises, it is not allowed to fly with this glider!! Groundhandling with the "Trainer" is an extremely dangerous activity that can and often does result in serious injury or death. The designer, manufacturer, distributor, wholesaler and retailer cannot and will not guarantee your safety when using this glider. You alone must judge the conditions, including weather, wind, congestion. Paragliders require careful and consistent care. Overtime, solar radiation, dirt, dust, grease, water, wind, stress, and other variables will degrade the performance and safety of the glider, thereby increasing the risk of injury or

## **I. Dear independence customer**

It is our pleasure to welcome you to the world of Independence pilots. The new groundhandling-glider "Trainer" was developed only for practising on the ground! It is strictly prohibited to fly with this glider!!

The "Trainer" offers you the possibility to play with it in the wind and practise on the ground, what will improve your glider control clearly. To ensure your best possible training success and fun we provide this manual.

## **2. Important information:**

**It is most important that you read this manual before using your new "Trainer".**

**The independence "Trainer" was designed only for groundhandling-exercises (practising on the ground)! It is strictly forbidden to fly this glider!!**

**The independence "Trainer" does not have a DHV, AFNOR, DAEC, CEN or any other certification!**

You are not allowed to use the independence "Trainer" without reading this manual first.

You have to wear a authorized harness and a helmet while groundhandling with your "Trainer".

Fly market GmbH & Co. Kg is not liable for any compensation resulting from using the independence "Trainer"

**Using the independence "Trainer" is on your own risk!**

## **3. Target Group:**

The independence "Trainer" is a special groundhandling-glider, which was designed only for exercises on the ground. The thereby improved canopy-control is very helpful for paragliding-students. But also more experienced pilots who like to improve their skills will have lots of fun with the "Trainer".

## **4. Constructioun and development of the "Trainer":**

The "Trainer" consists of 25 cells, of which every second is attached to a line.

We have used the best and up to date technical equipment to develop the "Trainer". 3D models were built on the computer and tests were simulated before production. All parts are tailored by computerised cutting machines and printed with inscriptions. Our development team has more than 15 years of experience in developing and producing paragliders.

## 5. Material Data:

The canopies of our gliders are made of Porcher Marine Skytex Ripstop Nylon material with an €77 coating. A filament net is woven into this material which prevents ripping and increases the tensile strength along the seams. The polyurethane coating makes the material water proof and UV-resistant. The material used for the lines is Edelrid HMA Aramid, these are made of a special Aramid formula and have been tried in multiple snapping and load tests.

## 6. Technical Data:

Size		Trainer
Size factor	%	100
Surface area flat	m <sup>2</sup>	11,47
Wingspan flat	m	7,47
Aspect ratio	A/R	4,86
Weight	kg	3,2
Number of cells		25
DHV	cat.	no certification!

## 7. How to check your glider:

Every glider delivered is tested and measured by us. Nevertheless we advise you to check your glider for the following criteria.

Check:

- the seams where the lines attach, and the canopy for any damage.
- that all the lines have been sewn correctly and are free of damage
- that all the line locks have been screwed up properly and the plastic inlets are tight
- that all ribs and V-attachments are free of rips

Every fault no matter how small must be checked and repaired by a professional.

## 8. In use:

As already mentioned earlier in the text, the “Trainer” was designed only for groundhandling. **You are not allowed to fly with it!!** It offers the possibility to practise on the ground and improve thereby the pilot´s skills of canopy control.

The smaller surface of the “Trainer” has got clear advantages compared to a normal paraglider: The canopy can be controlled much easier, what enables groundhandling even in a little bit more windy conditions.

But TAKE CARE: If you use the “Trainer” in strong wind conditions, even the small surface of the “Trainer” can cause so much lift, that you can take-off unintentionally. Because the “Trainer” is not made for flying, and moreover it´s not allowed to fly with it, you have to stop the groundhandling immediately when the wind gets too strong! Up to which wind speed you can use the “Trainer” can not be answered universally valid, because it depends on several points such as pilot´s skills, the pilot´s weight and characteristics of the area where you use it. Using of the independence “Trainer” is completely on your own risk!

## 9. Care and storage:

A maintained and properly used glider will last a long time. In order to maintain your "Trainer's" condition for a long time we would like to give you the following advice:

- In time the UV rays will damage the material of the paraglider. Therefore don't leave the "Trainer" out in the sun unnecessarily.
- When you pack your paraglider make sure that it is not always folded in the same way.
- Put the cloth bag that comes with the glider underneath it when folding it up to ensure that the material of the glider is not damaged.
- Curl up the lines as little as possible with no sharp kinks.
- Store your glider in a dry place. In case it gets wet lay it out to dry as soon as possible (but not in the sun).
- Store the paraglider well away from chemical gases or fumes.
- Clean your paraglider only with clean water and do not use brushes or hard rubbing.
- Do not use chemical detergents.
- Small cuts in the material, if they are not anywhere along the seams, can be mended provisionally with sticky material. Other damage like large cuts, cuts along the seam, ripped line loops, torn or damaged lines must only be repaired by an authorised dealer.
- Insects in the cells should be removed alive, not just for animal care reasons, but the insect secretion is acid and can damage the fabric.

## 10. Single line length "Trainer"

