



SYSPA AERO SYSTEMS



YATRI PASSENGER HARNESS

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YATRI PASSENGER HARNESS - INSTRUCTION MANUAL

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1. INTRODUCTION



YATRI PASSENGER Harness is a product that is designed and developed by Syspa Aero Systems to meet the demands specifically expressed by our paragliding pilots. This paragliding harness is very light, and it was designed to optimize comfort for passengers in tandem flight. It has many adjustment possibilities, and so it is suitable for all types of individuals. YATRI is a simple and lightweight harness, designed for maximum comfort and simplicity of use. It is easy to carry around when not in the air.

1.1 Specifications

Name	Yatri Passenger Harness
Maximum Passenger Weight (kg)	115
Harness Weight (kg)	2.8
Suspension points height (cm)	47
Certification	EN 1651

1.2 Protection

The airbag provides excellent protection in case of impact. The advanced structure based on semi-rigid compartments makes it possible to achieve more than 70% of total protection even without complete inflation, which occurs only during the launch phase by springs embodied in the chamber. Chest-straps and leg-straps prevent the passenger from sliding out of the harness.

When folding the harness, make sure that the padded section around the airbag inflation valve does not suffer any tight folds which could eventually impact its correct functioning. The airbag protection system is also covered with reinforced fabric which helps reduce damage caused by any abrasion to which the harness may be subjected.

1.3 Comfort

The two red handles on the main harness straps make it simple and obvious even for the most inexperienced passengers to adopt the correct position in flight after launch. These handles can also be used by supporting staff before the flight to give support.



2. BEFORE USING THE YATRI HARNESS

2.1 Harness Adjustment

The YATRI harness provides many adjustment possibilities ensuring that the passenger flies in the best possible position. To adjust the harness to the best possible position, we suggest that the passenger hangs in the harness from a suitable point of support, simulating flying position.

The left attachment point needs to go to the left side of the tandem bar and right attachment point needs to go to the right side of the tandem bar through carabiners. Lock and check properly before the flight.

The first adjustment procedure regulates the angle between the thighs and the back (depth of seat). This angle can be varied by adjusting the straps running through the lateral trimmers. The lateral straps help you adjust the sitting angle, and they provide leg support on long flights.



Leg adjustment to regulate distance between thighs and back (seat)

By adjusting the back (using the trimmers higher up on the side), the pilot adjusts the inclination of the torso with respect to the vertical axis in flight. A good flying position, improving control of the glider, is obtained by positioning the face at about 15 cm from an imaginary line between the two karabiners.

Shoulder-strap adjustment enables the harness to be adjusted to the pilot's height. The adjustment buckle is situated low down, near the rear edge of the seat. The shoulder-straps also support part of the torso weight to improve comfort.

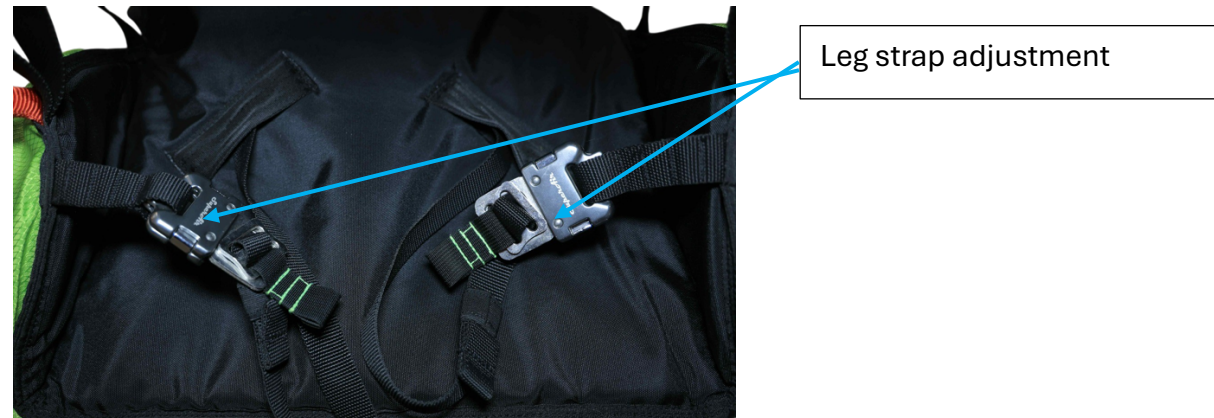


The chest strap adjusts the distance between the two karabiners, and it can be set between 37 and 48 centimeters. When the chest strap is tighter, stability is greater. We recommend a length of about 40-42 cm. A wider distance does not improve glider performance, and a smaller distance can accentuate the effects of a “twist” following an asymmetric collapse.



There is also a small elastic clip at the extremity of the padded shoulder-straps. This prevents the shoulders from slipping out of the straps during the launch run. The plastic clip also includes a useful whistle that can be used in emergency situations.

The fact that the leg straps are attached to the harness relatively high up ensures great freedom of movement for the passenger's legs. YATRI is fitted with an adjustment buckle that is easy to adjust in accordance with the passenger's body shape.



Please note, all the adjustments must be performed symmetrically on both sides for perfect adjustment and better comfort during the flight.

3. FLYING WITH YATRI HARNESS

3.1 Pre-flight checks

For maximum safety, use a complete and consistent system of pre-flight checks and repeat the same mental sequence every flight.

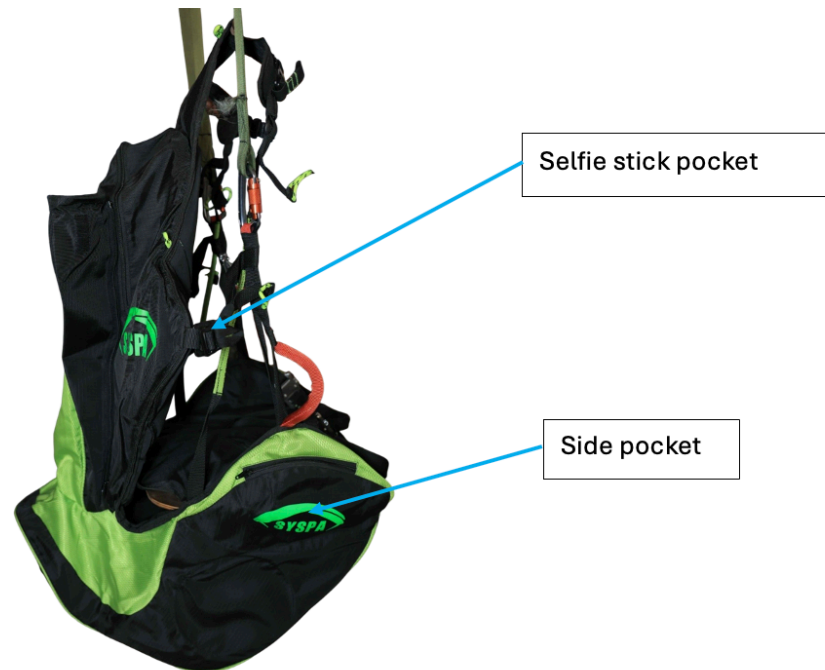
Check that:

- all buckles are fastened. Take particular care in the case of dust and some times snow. Always clean off dust or snow or ice before fastening buckles.

- pockets and zips are closed.
- Passenger is connected to the harness and both carabiners are attached to the tandem bar and locked.

3.2 Pockets

Yatri Harness has a Selfie Stick Pocket on the right side to keep the selfie stick which is very easily accessible to the passenger or pilot both. Two side pockets are also placed to keep other items required during the flight by the passenger.



Yatri harness also comes with a large back pocket to store large personal belongings of the passenger.



3.3 Landing with Yatri

Before landing, slide your legs out and off the seat surface, so that you take up a standing position. Never land in the seated position; it is very dangerous for your back even if you have an airbag, which provide exclusively passive protection. Standing up before landing is an active safety precaution, and it is much more effective than passive forms of protection.

4. LIFE SPAN AND MAINTENANCE

The Yatri harness is designed to take high loads and stress. Proper maintenance will maximize the lifetime of the product. The maximum operational lifespan of Yatri harness is **3 years or 400 flights**, whichever occurs earlier, from the date of first use. To ensure continued airworthiness and safety, the harness must undergo a **detailed inspection by a qualified professional at intervals not exceeding 6 months**.

Please check the harness for any signs of damage, wear- tear before each flight. The harness should be periodically inspected for signs of wear, and damaged components must be repaired or replaced by the manufacturer. Any repairs performed by anyone else will deem the harness uncertified. Only original parts should be used. Spares can be ordered from the manufacturer.

- Keep the harness clean of dirt, oils and corrosive substances.
- Take particular care that no dirt gets into the mechanics of the buckles and that all moving parts of the buckle are running freely. If necessary, the buckles can be lightly oiled.
- Avoid excessive exposure to UV, heat and humidity.
- Always pack the harness dry, and store in a cool, dry environment.
- Never drag the harness across the ground.
- If the harness is dirty, clean it only with water and a brush. Chemical cleaners will damage fabric and webbing.
- Avoid high temperatures (for example: inside a closed car in summer).
- Avoid unnecessary long exposure to sunlight. Ultraviolet radiation destroys the structure of the material.
- Avoid contact with saltwater or acid liquids.

5. INSPECTION

For inspection, visually check the stitching, webbing and all structurally important areas. Pay particular attention to the webbing around the hang point area under the karabiner, as this is where abrasion is most likely.

For the back protector, pay particular attention to all the stitching, to the outer material, and the thickness. The protector should not remain squashed or deformed. Any damaged parts should be repaired or replaced by the manufacturer. Any repairs performed by anyone other than the manufacturer will deem the harness uncertified. Spare parts can be ordered from the manufacturer.

6. WARRANTY

The manufacturer, Syspa Aero Systems, takes the greatest care in design and production of its products and offers 1 year warranty from the date of purchase against workmanship defects.

You are required to complete the warranty form within 14 days of purchase and share it back with the manufacturer over email. Only a fully completed warranty form will be accepted to validate the warranty.

7. SAFETY

Please read this manual before using the harness. Paragliding is a potentially dangerous sport that can cause serious injury and even death. The use of YATRI PASSENGER harness is undertaken with the full knowledge that paragliding involves risks. Inappropriate use of your equipment will increase these risks. The pilot takes exclusive responsibility for all risks associated with the use of this equipment.

Please note that no protector can offer 100% protection against injuries, and in particular, the back protector can not be guaranteed to prevent injuries to the spine. The YATRI PASSENGER's protector is not removable. It can only offer protection if it is correctly positioned and fixed in place. .

Any kind of physical modification to the harness can seriously reduce the performance of the protector and the safety of the harness and will invalidate the certification.

8. ENVIRONMENTAL RESPONSIBILITY

Paragliding is a nature-dependent activity, and users are expected to operate in an environmentally responsible manner. Care shall be taken to avoid littering at launch and landing sites, and all waste materials must be removed and disposed of appropriately. Users should respect local ecosystems by minimizing disturbance to wildlife, vegetation, and natural habitats.

Flights should be planned and conducted in compliance with local environmental regulations, ensuring that sensitive areas and protected zones are avoided wherever applicable.

9. RECYCLING AND END-OF-LIFE DISPOSAL

At the end of its service life, when the harness is no longer considered airworthy or safe for use, it must be disposed of in an environmentally responsible manner. Wherever possible, **metal components** such as buckles, carabiners, and fittings should be separated and recycled through authorized recycling facilities. **Textile components**, including webbing and fabric, should be disposed of in accordance with local waste management regulations and, where available, directed to designated textile recycling or disposal facilities. Users are encouraged to follow applicable local guidelines to minimize environmental impact.

10. MANUFACTURE'S DETAILS

Yatri Passenger Harness has been designed and developed by Syspa Aero Systems, India. The manufacturer can be reached out to at the below address:

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