

# NOVA



ITUS  
Product Presentation



## ITUS - Optimised to the core

The ITUS is a completely versatile and lightweight reversible harness with a seat board, airbag and SAS-TEC protector.

If required, the rucksack can be completely detached.

Always on board: an extra portion of safety.







## Multi-talented to the max

As a versatile reversible harness, the ITUS can be used in any situation - hike & fly, local soaring, cross-country and travelling the world. To help you achieve your daily goal, it has some clever features. For example, using a zip, the rucksack can be completely detached from the harness. The result is a lightweight harness with a seat plate that is comfortable in the air as well as superlight and compact on the ground.

**Please note:** more varieties of ITUS compatible rucksacks will soon be available for retro-fitting.

This means the packing volume is flexible depending on the equipment or intended use. Simply zip on the required size... and you are ready to go! Therefore you never carry more weight that is necessary and you have exactly the storage space you need.

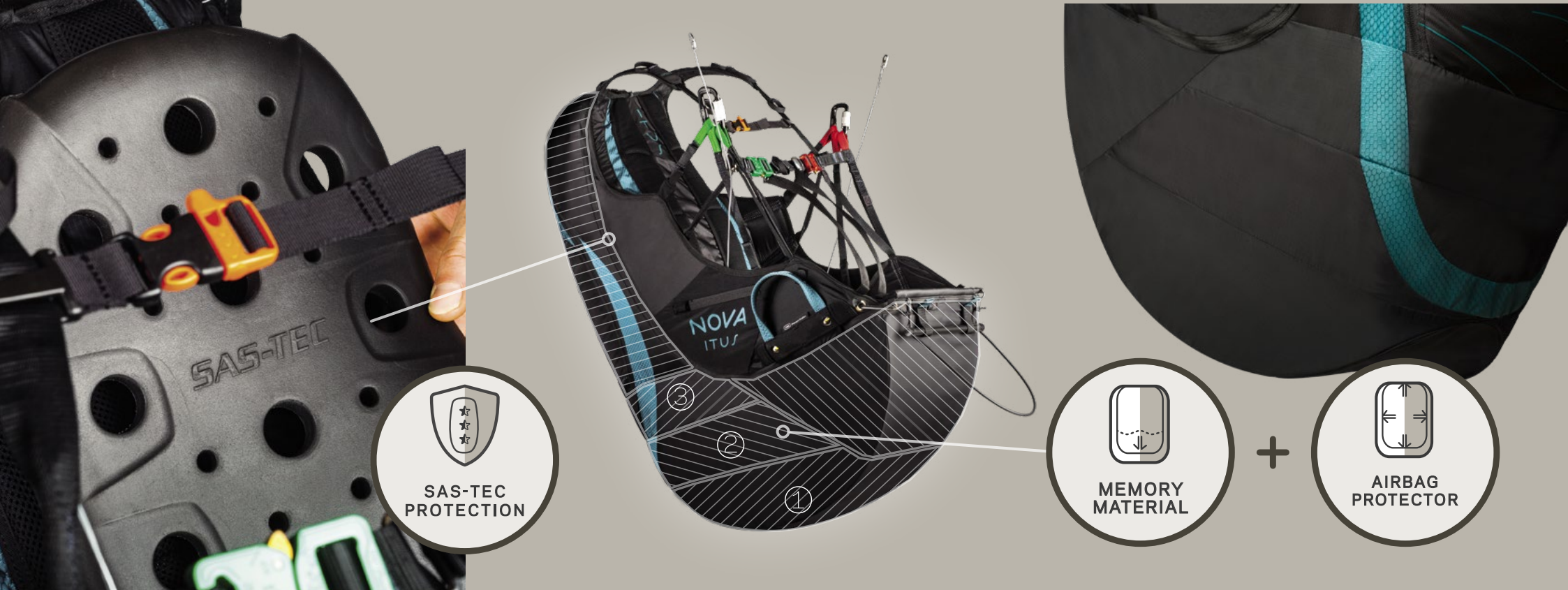




## Everyday in perfect form

The carry comfort of the ITUS was extensively tested and cleverly optimised: the SAS-TEC protector of the harness simultaneously serves as the back section of the rucksack. When using the ITUS as a rucksack, the characteristic of the protector to distribute the pressure over a wide area has the same effect as the carrying system of a trekking backpack. Even with a fully stuffed rucksack, the load will not push uncomfortably into the back. There is also an ergonomically shaped, padded hip belt which helps to relieve the strain on the shoulders when carrying. Drinking bladder, hiking poles, jacket and other small items are always at hand in the convenient pockets. Once in the air it remains comfortable - with a robust honeycomb seat board, breathable padding on the back and sufficient storage space within reach for instruments, gloves, muesli bars, etc.





## Designed in every detail

One of the main features of the ITUS is safety. The materials and handling of the harness were extensively tested during daily use, on the G-Force Trainer and in a test environment. The results are impressive - even while the harness is being unpacked, the airbag fills itself... not just when in flight. This is achieved with a 3-chamber system supported by Nitinol wire and a polycarbonate plate. Both memory materials persistently return to their original form, but remain flexible when packing. This facilitates the small packing size of the ITUS and already protects the pilot during take off. The additional SAS-TEC protector distributes the pressure of hard objects, such as stones on a slope or a bottle in the storage compartment, over a larger area in the event of a fall onto the back. This reduces the risk of severe back injuries.



## Directional parachute compartment

During the design phase, particular attention was focused on the deployment of the parachute. For good reason - an unimpeded rescue deployment is essential for pilot safety. To ensure easy operation even under difficult conditions, our test pilots and developers did countless laps with the ITUS in the G-Force Trainer. At the highest g-load, the deployment of the rescue was tested under consideration of all possible deployment directions. As a consequence, the inner container was adapted. Due to the new design, the pulling force is distributed over the entire front of the rescue. This makes it easier to deploy and prevents the rescue from getting stuck in the compartment - regardless from which angle you pull it.





## Clicksafe closing system

Our Clicksafe system with colour-coded buckles means with one glance you can be certain that you have hooked in correctly. The main hang points and buckles are green on the right side and red on the left side.



## Remove the rucksack and wash

Anyone walking or hiking up hills will come to the point where after a few hot days they may want to clean the rucksack part of the reversible harness. With most harnesses this isn't easy without getting the protection or the integrated parachute wet. And getting the latter damp would be dangerous as keeping it dry is essential for a reliable deployment in case of an emergency. Thanks to the detachable rucksack of the ITUS, it is perfectly possible to wash it. In this case please hand wash it with water and mild soap. The rucksack is not suitable for machine washing or tumble drying.



## Detaching the rucksack

Using the zip, the ITUS can be easily and flexibly converted:

- \_ reversible harness including a practical rucksack
- \_ lightweight harness + a separately usable rucksack

In addition, in a few easy steps the SAS-TEC protector can also be removed to save weight.

If the rucksack is detached from the harness, a cover with zip serves to close the open side of the harness. Velcro fasteners ensure the correct placement of the individual parts and provide additional support.



# ITUS

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SAS-TEC PROTECTION



Carabiner attachment points



Drinking bladder outlet



Smart hiking details



Colour-coded Clicksafe system

Radio pocket



TUBE CONTAINER



3D-optimised rescue compartment



Integrated carbon speed-bar



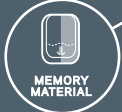
Hiking pole pockets



AIRBAG PROTECTOR



Pre-inflated 3-chamber airbag



MEMORY MATERIAL

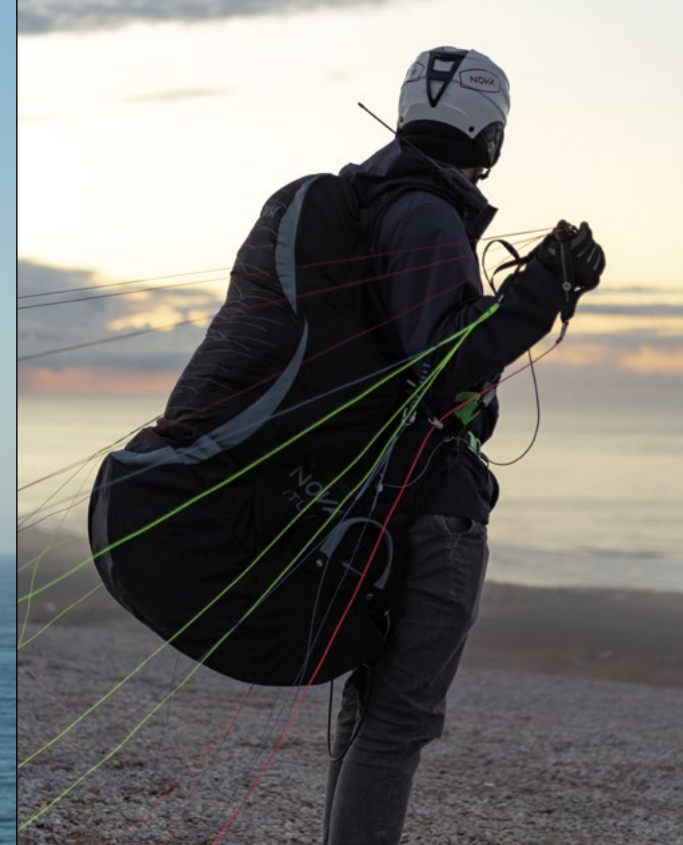


Zip pocket



USB cable outlet with power bank pocket

# NOVA



## Target group

The ITUS is ideal for all pilots who want maximum flexibility in terms of equipment weight and packing volume - without compromising on comfort and safety. Just the opposite: during the design of the ITUS it was tested beyond the stipulated certification measures. The EN standard for harnesses only stipulates that the release force for the parachute must be between 2 and 7 daN - testing deployment in different directions is not required. With the ease with which the chute can be deployed in any direction, the ITUS clearly exceeds the certification standards. Those who feel particularly strongly about safety will value the ITUS during hike & fly, vol biv and cross-country flights. Whether the pilot has a lot of experience or it is their first day on the training hill.





## Delivery contents

- \_ SAS-TEC protector
- \_ 2 NOVA Foras carabiners
- \_ Carbon speed-bar
- \_ Manual
- \_ Cover (when the harness is used without the rucksack)
- \_ parachute handle + optimised deployment bag



# FAQ

## **NOVA tests parachute deployments even at higher g-forces. What does this mean?**

In an emergency, the pilot often has to throw their rescue when the wing is turning violently with correspondingly high g-forces. The current EN tests do not include deployment tests with high g-forces. NOVA voluntarily and intensively tests its harnesses using the G-Force Trainer – with differently sized parachutes, different pilot sizes, different lengths of connection bridles, in several deployment directions and until our testers black out...

## **Why is it possible to detach the hiking rucksack from the ITUS?**

Due to the detachable backpack, the ITUS is suitable for both reversible and light harness fans. It is also very useful that the rucksack can be washed separately without risking getting the parachute wet. For all those who like to transport their equipment in a quick packing bag or similar, the ITUS without the rucksack is almost a kilo lighter!

## **Memory materials – what are they?**

The airbag of the ITUS contains Nitinol wire and a polycarbonate plate, which ensure that the airbag fills with air before take off. Both materials can be squashed (e.g. when packing), but they always return to their original shape. As if they could remember... This is why they are called “memory materials”.

## **Can the ITUS be used for ground handling?**

Yes, it is suitable for ground handling. The airbag fills immediately after unpacking – and therefore also protects whilst on the ground. If you like it especially light, you can remove the ITUS rucksack and even remove the SAS-TEC protector.

## **Why does the ITUS feature a Get-up system?**

The advantage of the Get-up system is ease of use as well as its light weight. Compared to the T-lock system, the ITUS requires only two clicks to close the harness instead of four. In combination with the colour-coded buckles, closing the harness is therefore as simple and straightforward as it can be.

## **How does the seat geometry work on the ITUS?**

The ITUS permits an upright as well as a slightly reclined seating position. Adjustment is easy and can be performed in the air. In order to avoid mis-adjusting the seat geometry, the ITUS is equipped with built-in strap limiters.

## **How should you store the ITUS?**

Generally harnesses should not be stored in damp, wet or hot conditions. The harness should never be exposed to hazardous substances like solvents, paints, battery acid and their gases, etc.





## Technical Data



SIZE		S	M	L
Pilot height	cm	<165	165-180	>180
Reversible harness weight*	kg	3,4	3,7	3,9
Harness weight**	kg	2,4	2,7	2,9
Weight hiking rucksack	g	690 g	690 g	730 g
Weight cover	g	45 g	45 g	45 g
Weight SAS-TEC protector	g	280 g	280 g	280 g
Volume hiking rucksack	l	77	77	87
Certification (EN & LTF)	PH 288.2019 (EN & LTF)			
Maximum clip-in weight	120 kg (EN & LTF)			
Energy absorbtion value		28 g	28 g	28 g
Colour	NOVA Skyblue			

\* Harness incl. rucksack, SAS-TEC protector, carbon speed-bar, NOVA Foras carabiner

\*\* Harness incl. cover and NOVA Foras carabiner



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