

## GRASSI SPA

Founded in 1925 as a family-owned company producing technical textiles, we are now a large international company that has demonstrated over the years its ability to evolve and create opportunities while remaining at the forefront of sustainable innovation in technical clothing with style, comfort and passion. In recent years, we have been developing new projects in the technical clothing sector, through the use of both innovative materials and fabrics and Smart Textile solutions that make garments increasingly technological. This is to ensure maximum safety and at the same time comfort and wearability. At our Italian headquarters, in Lonate Pozzolo, near Malpensa airport, all our Research and Development activities are carried out, including quality control, raw material procurement, planning and control of the processing phases, styling area, model and sampling development, sales activities, logistics and shipping. Our headquarters are flanked by our production units in Romania, Albania and Tunisia for a total of about 1,400 employees. In addition to this, we must not forget our important partnerships with leading companies in Italy and abroad that help us, with their skills and technologies, to create our high-performance garments as required by an increasingly demanding market.

*At Techtextil 2024, GRASSI will present the following innovative product inside the Innovation Forum organized by SMI-TexClubTec in hall 12.1 booth n. B31C.*

### **High Visibility Vest integrated with Sensing AI Technology to reduce rescue time during working activity**



Nowadays the Digital Transformation has changed the concept of business in any industrial sector bringing the companies face huge changes in international market.

These changes touched also the most expert companies operating in the technical textile sector and in the world of protection and workwear.

As Digital Transformation pioneer in technical clothing sector, in recent years, Grassi SpA has designed smart garments that represent a real interconnection system as well as provide the traditional high technical quality.

Therefore Grassi innovations offer not only a garment with high technical and protective performance, but also a real advanced service.

The new smart clothes designed by Grassi SpA are able to collect the environmental signals coming from the surroundings and the position of worker. The user protection is the main aim for Grassi SpA and for this reason the designed sensor system monitors environmental and motion parameters for the entire duration of a working activity carried out in dangerous or isolated environments (high temperatures, presence of harmful gases, mountains, etc) to minimize external intervention times in case of workplace accidents.

An application of this sensor system is Grassi high visibility vest integrated with AI Sensing Miniaturized Technology. This device in only 5 cm is able to record data related to position and motion of worker and environmental parameters as temperature, humidity and hazardous gases. These data are recorded in real time, sent to a platform with a Wifi/Bluetooth connection and also stored into the device. Visual and audible alarms are triggered alerting the operator about the danger and alarm signal is sent through smartphone at the company safety responsible dashboard app for worker rescue.

The Smart High Visibility Vest that Grassi Spa is designing put their base on the definition and management of a continuous interconnection and a continuous information exchange: an active correlation between the garments wearer, the used clothes and the surrounding must be created.

This is just a taste of the great potential of IoT and smart solutions universe applied in Grassi production for the next future.

**Contact details:**

[www.grassi.it](http://www.grassi.it)