


# SATTO®

REDEFINING REPAIRABLE

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## Fast, Ultra-Strong and Long Lasting

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SATTO® Solutions is a **cutting-edge brand developed by SA Group**, a trusted name in the aviation industry.

SATTO® offers innovative, **certified systems for repairing damaged or broken plastic and composite components in aircraft interiors**, supporting airlines, MROs and leasing companies worldwide in reducing costs, downtime and environmental impact.

Currently, there are two officially approved SATTO® Repair Centers in the world:

- One in the **United Kingdom**, at the headquarters of Cabinair Group
- One in the **United States**, at the SATTO Repair Center USA headquarters in Miami.

Designed to meet the needs of a fast-moving and sustainability-focused industry, SATTO's philosophy - "**repair instead of replace**" - is already embraced by major airlines.

In the following sections, you will discover more about the SATTO system, its benefits and the solutions it brings to aviation interior maintenance.

## On-Wing or In Workshop Repairs




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# SUSTAINABILITY

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# There Is No Planet B

**Repair over Replacement**
SATTO® Solutions embraces a sustainability-first approach by prioritizing repair over replacement for aircraft cabin components. By extending the life of existing materials, we reduce the demand for new raw materials, thereby lowering waste generation and minimizing the environmental impact of manufacturing new parts.

**Waste Reduction and Circular Economy**
Our innovative repair processes contribute to the circular economy, allowing damaged or worn components to be refurbished and reused instead of ending up in landfills. This practice not only reduces waste but also promotes resource efficiency by giving a second life to plastic and composite materials.

**Sustainable Materials**
Whenever possible, we opt for eco-friendly resins and materials in our repairs. This commitment to using sustainable materials ensures that our repairs align with global efforts to reduce the use of harmful substances in the aviation industry.



**Minimized Carbon Footprint**
Through localized repair services and a strategic supply chain, SATTO® Solutions helps reduce the carbon footprint associated with the transportation of replacement parts. By offering quick turnaround times on repairs, we help airlines avoid the need for airfreighting new components, which significantly reduces greenhouse gas emissions.

**Compliance with Environmental Regulations**
We operate in full compliance with environmental regulations such as REACH, MSDS and other global standards aimed at reducing hazardous materials in aviation. This ensures that our processes and materials are both safe and environmentally responsible.

**Lifecycle Extension**
SATTO® Solutions contributes to prolonging the lifecycle of aircraft interiors, enabling airlines to keep their cabins in optimal condition for longer without frequent replacements. This approach supports sustainability goals by reducing the need for constant new production.

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# PLASTIC REPAIR

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# Restore And Renew

**SATTO® (SA20–21) is the repair system for non-structural plastic (monolithic) components/parts within the aircraft cabin.**

These interior components include (but are not limited to): seat shrouds, rub strips and arm caps, single piece panels, fairings, plastic, extrusions, decorative panels, non-structural seat components, seat meal tray tables, shrouds and kick panels.

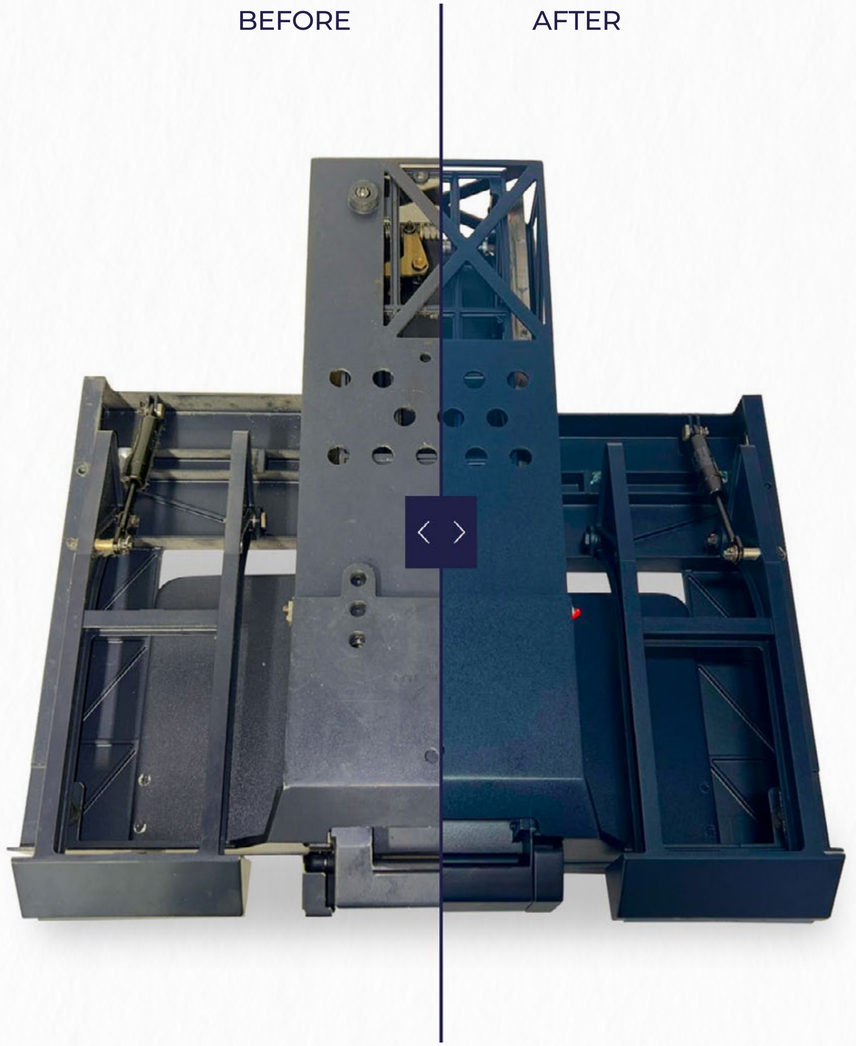
The most common damage to these components are **cracks** (particularly on fairings, panels, caps, shrouds, etc), i**mpact or erosion damage, chips and scratches, missing tabs/inserts** – even completely sheared parts.

Areas particularly vulnerable to damage can be reinforced using a doubler with the SA20-21. Doublers strengthen and support the repaired area so that no further damage is likely to these areas of the component.

Doublers can be moulded to shape using a vac-former. SA20-21 can also be used with OHYA-13-1 (a thermal-sensitive, reusable moulding block) where a component has missing pieces.



*Scan to Discover More*




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**Convenient Packaging**
Coming in a two-bottle kit, the system is ideal for use both in workshop and on-wing. No specialised tooling is required simply standard workshop tools. This packaging approach is not only practical but also ensures that you have sufficient supplies for extensive repair work.

**Proven Effectiveness**
The reliability of SATTO® SA20-21 is strengthened through extensive trials and rigorous testing, confirming its excellent performance. With every purchase, customers are also furnished with an Engineering Order.

**In-Depth Information Resources**
To increase your understanding of SATTO® SA20-21, comprehensive documentation including Material Safety Data Sheets, Test Results, and Technical Data Sheets is easily accessible. These resources provide detailed insights into the product's characteristics, safety protocols and usage procedures.

## Training and Support

To enhance the product lineup, comprehensive training and assistance are available.

This support is tailored to ensure users can maximize the benefits of SATTO® SA20-21, improving the quality and efficiency of their repairs.

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# COMPOSITE REPAIR

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# High Quality Repairs




The SATTO® range of solutions includes its latest innovation, the SOLLUX system – a rapid solution for repairing cabin interior composite components of the aircraft.

This system is designed to offer a smart solution for the most common damages in aircraft interior composites, such as **crushed or cracked exteriors, delamination or blistering due to moisture ingress, impact damage and surface chipping or scratching.**

## SA 30-30

### The SA500 Light Emitter

The SA500 Light Emitter, specifically designed for use with SOLLUX® products, cures SA10-10 in an astonishing three minutes. The device features a quartz crystal emitter bulb in its radiant head, enhanced with gold inducer caps to amplify the radiant output. It also boasts a dual cooling system, ensuring efficiency and longevity.

## SA 10-10

### SA10-10 for Complex Repairs

For more complex repair needs, SA10-10, a pre-preg material offers unlimited working time and cures via a light source, not heat. This material can be applied in layers, up to three at a time, providing a swift and effective alternative to traditional repair systems. SA10-10 is conveniently supplied in three-yard lengths to accommodate various repair sizes.

## SA 500

### SOLLUX Resin and SA30-30

SOLLUX steps in as an all-inclusive, adaptable repair system. It features a resin provided in a user-friendly one-shot semkit. Notably, the SA30-30 component of this system cures rapidly, setting within just 15 minutes – an ideal solution for on-wing repairs, such as addressing simple cracks and dents in the composite.

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### Adeshive Bonding Advantages

Adhesive bonding offers substantial benefits for repairing these components, as it preserves fibre integrity and avoids the stress concentrations caused by drilling. Traditional adhesive bonding can indeed lead to extended aircraft downtime due to its curing period, which ranges between 2-28 days at room temperature.

### Versatile Application

Whether it’s on-wing or in a workshop setting, the SOLLUX Rapid Repair Systems are adept at handling a range of repairs – from inserting placements and fixing cracks and dents in overhead bins to repairing crushed sidewalls. These systems ensure fast, flawless results, minimizing downtime and maximizing repair efficiency.

## Training and Support

To ensure optimal use of the SOLLUX system, comprehensive training and assistance are provided.

This support is designed to equip users with the knowledge and skills necessary to efficiently utilise the repair system, ensuring high-quality repairs and maximizing the system’s benefits.

Our dedicated team of experts is committed to guiding you through every step of the process, from initial setup to advanced repair techniques.

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# COMPLEMENTARY PRODUCTS

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# Valuable Add-Ons




### OHYA-13-1 Moulding Blocks

For performing intricate repairs, such as replacing missing tabs, clips, and edges, consider one of our complementary products: OHYA-13-1 moulding kit. This kit enables you to create a mould from an undamaged part and then use it with the damaged component, applying SATTO® to the mould for a precise and effective repair.

### MAGNA-13-1 Magnaclamp®

Our MAGNA-13-1 Magnaclamp offers dual-strength magnetic clamping, extending its utility beyond simple edge repairs. These unique clamps are engineered to withstand the bonding forces of SATTO® systems, ensuring they remain easy to remove after use. The compact and lightweight design prevents distortion during the curing process, a notable improvement over traditional clamps. Additionally, MagnaClamp® features adjustable strength capabilities, easily enhanced by rotating the paired pieces to decrease or intensify the clamping force.

### SA20-10 Bond Primer

The SA20-10 Bond Primer is a specialised liquid solution designed for cleaning and priming aircraft interior components, particularly painted surfaces. This primer effectively prepares surfaces for SATTO® application, facilitating strong adhesion while eliminating the need for sanding, sweep blasting or solvent wiping.

### Doublers

Our range of plastic doublers is specifically designed for repairs requiring additional reinforcement. These doublers undergo a stringent 12-second combination burns test, ensuring their reliability and safety. Available in various sizes and thicknesses, they come in packs containing 40 to 80 pieces, tailored to suit diverse repair requirements.

### VAC-13-1 Mini Vac Former and VAC-13-2 Standard Vac Former

The VAC-13-1 Mini Vac Former and the VAC-13-2 Standard Vac Former are used to form dou-blers that ensure a robust, enduring repair. Both models feature heavy-duty vacuum motors that provide precise suction, resulting in durable, perfectly moulded doublers. Whether you require portability or a more stationary solution, our vac formers are designed to meet your plastic repair requirements.

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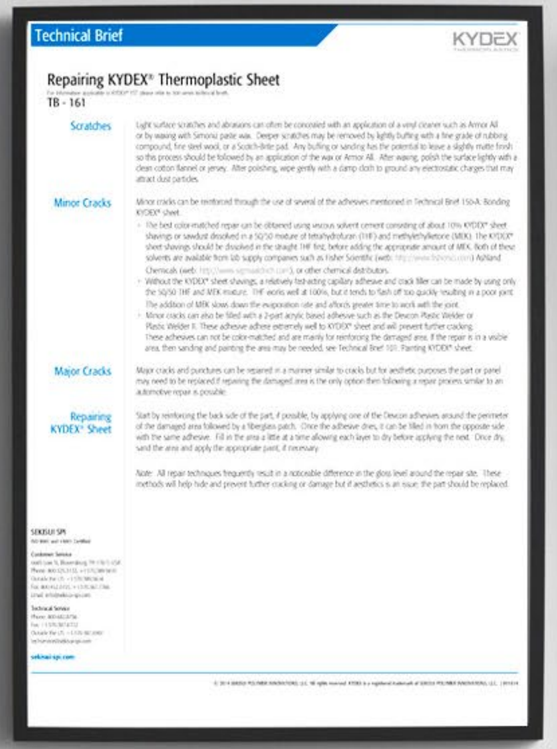



# APPROVALS

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Boltaron Thermoplastic Sheets
REPAIRING AIRCRAFT INTERIOR PLASTICS
SATTO
repairing
boltaron


Boltaron Thermoplastic Sheets
REPAIRING AIRCRAFT INTERIOR PLASTICS
repairing
boltaron


Technical Brief
KYDEX
Repairing KYDEX® Thermoplastic Sheet
TB - 161
Scratches
Minor Cracks
Major Cracks
Repairing KYDEX® Sheet


Technical Brief
KYDEX
Repairing KYDEX® Thermoplastic Sheet
TB - 161
SATTO® (SA20-21) Repair Kits
Repair Procedure
SATTO Contact Information
SATTO
5th Avenue
Letchworth, Hertfordshire, SG6 2TS



# APPROVED REPAIR CENTERS

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## UK | Ireland

**SATTO® Repair Center UK - Cabinair Group**

Aerospace Interiors Centre, Blackhorse Road,
Letchworth, Herts, SG6 1HB, UK

## US

**SATTO® Repair Center USA**

3011 NW 75th Avenue, Suite B Miami, FL 33122,
USA

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# PARTNERS

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# Partners who trust SATTO® Solutions



Aegean Airlines



Ethiopian Airlines



Swiss Int. Airways



United Airlines



Qatar Airways



British Airways



Eastern Airlines




All Nippon Airways



Turkish Airlines




KLM



Lot polish



Airfrance



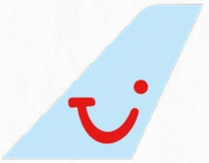
Lufthansa



Gulf Air




Easyjet



TUI Group



Ethiad

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### SATTO® Repair Center UK - Cabinair Group

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