



# INDEX

- About Company
- Mission
- Core business
- Ground support equipment
- GSE hydraulic benches
- ATR SYNCHRONIZED JACKS JACK
- Tooling
- Contouring and drilling templates
- Contouring and drilling templates
- Maintenance and control of industrial and airport equipment
- After-sales assistance

# ABOUT COMPANY

**SIA Srl**, with over 40 years of experience,  
has developed solid KNOW HOW in the sectors:

- **Engineering**
- **Design and Production**
- **Maintenance and Assistance**

We operate in various industrial fields, including:

- Precision mechanics;
- Aviation equipment;
- Hydraulics & Pneumatics;
- Electric;
- Calibration and Climatic Tests;
- Process automation;

# MISSION

Our mission is to design, develop, and provide innovative, high-quality solutions for the aerospace industry, contributing to the safety, efficiency, and sustainability of global air transportation. We are committed to supporting our clients with cutting-edge technologies, addressing the challenges of the industry through continuous improvement and a forward-looking approach. The company stands out for its excellence in aerospace engineering, maintenance, and post-sales support services, ensuring precise and reliable management of every phase of our products' lifecycle. We operate with a strong commitment to innovation, reliability, and sustainability, aiming to reduce environmental impact and enhance operational efficiency. In our work, we are guided by a passion for technological innovation, quality, and continuous improvement, with the goal of being a strategic partner of choice for companies in the aerospace sector and for our clients worldwide.

# CORE BUSINESS



**GROUND  
SUPPORT  
EQUIPMENT**



**TOOLING**

# GROUND SUPPORT EQUIPMENT

In its thirty years of experience, SIA Srl has developed expertise in the design and construction of Ground Support Equipment (GSE). These equipment are used for functional testing and aircraft services. Specifically, within the GSE sector, SIA's production is divided into:

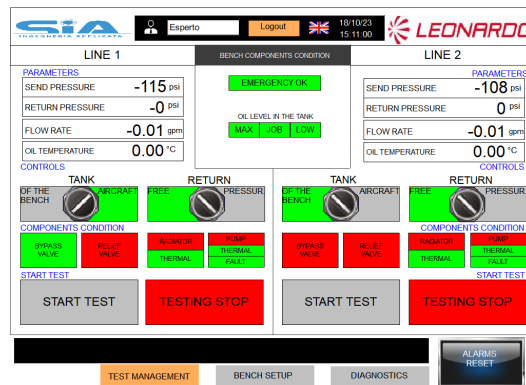
- Fluid Test Benches:** To verify the operation of the hydraulic actuators of the tailplanes, flaps, landing gear, brakes, etc., using a specific type of hydraulic fluid, Skydrol, in compliance with military specifications MIL-H-8446.
- Service Equipment:** Pneumatic tire inflation systems, shock absorber recharging, supply of air conditioning to the fuselage.
- Jacks:** Front and lateral lifting of aircraft under maintenance.

SIA Srl is capable of designing and constructing hydraulic or mechanical jacks. These equipment have been supplied for both civil and military programs, such as the C27J Aircraft, ATR 42/72.

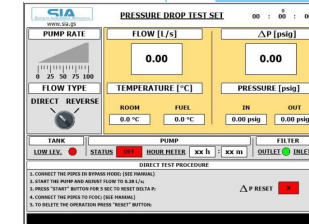


# GSE HYDRAULIC BENCHES

## Some achievements



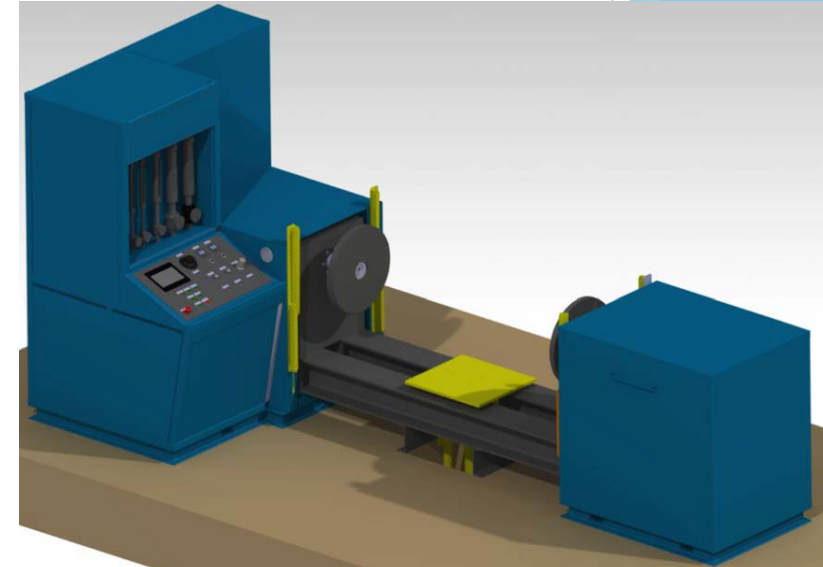
MIL-H hydraulic bench for C27J aircraft



Hydraulic bench for carrying out fuel flushing tests on the FCOC exchanger of the C27J aircraft.



Skydrol hydraulic bench for ATR 42/72 double-line aircraft

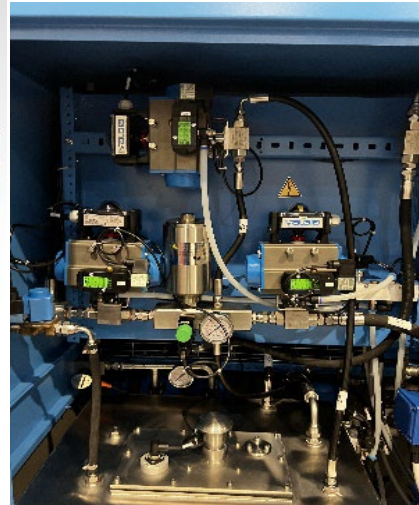


- BANCO PROVA VALVOLE -				
- SELEZIONE SIZE VALVOLE -				
VALVOLE SELE	SIZE	Q <sub>1</sub> L	Q <sub>2</sub> L	DELTA
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CH 2	20.00	5.00	3.30	
CH 3	20.00	5.00	3.30	
CH 4	20.00	5.00	3.30	
CH 5	20.00	5.00	3.30	
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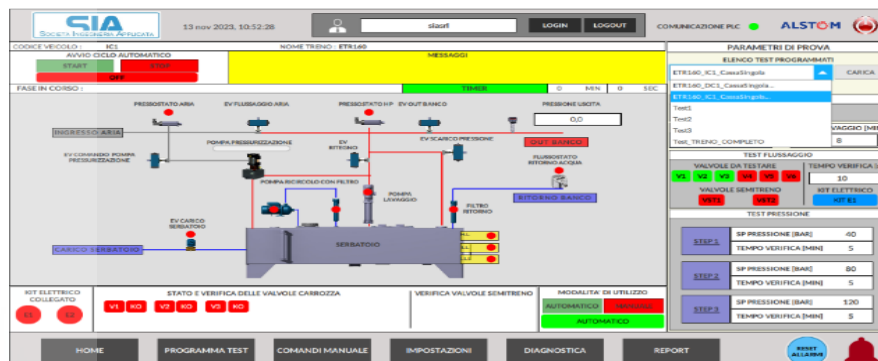
Machine for testing and testing pneumatic valves.



# FLUSHING AND SEALING MACHINE FIRE EXTINGUISHING SYSTEM



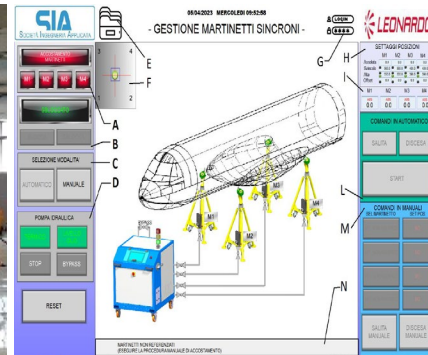
Machine designed for cleaning and pressure testing of the fire extinguishing system of the train carriage



# ATR SYNCHRONIZED JACKS JACK



ATR 42/72 automatic lifting system consisting of four hydraulic jacks and an electro-hydraulic console  
Console equipped with hydraulic power unit and PLC for control and management.



# TOOLING

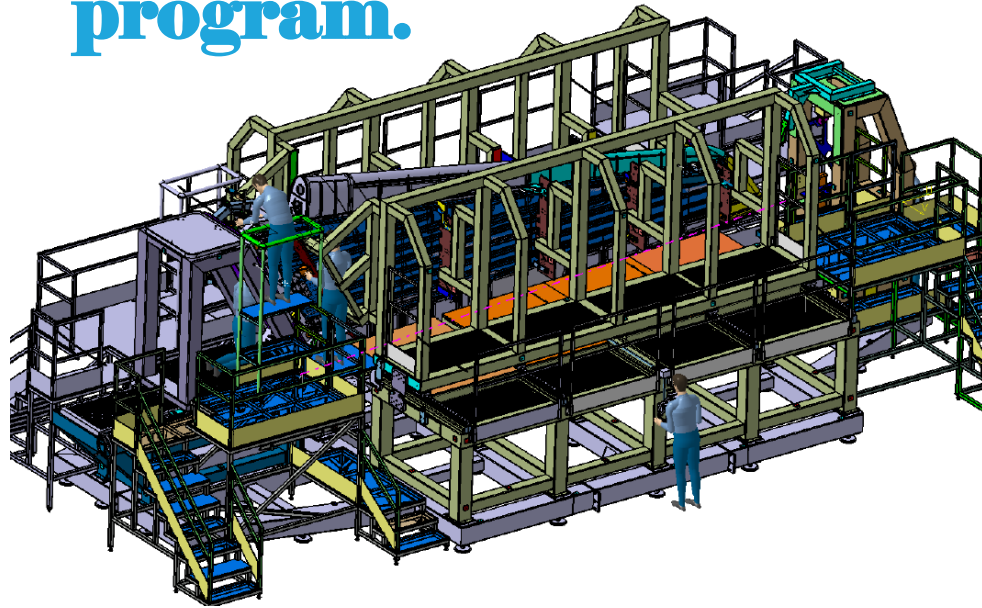
SIA Srl designs, builds, installs and carries out MRO&U of equipment for the installation and handling of aeronautical parts during the production and assembly phases. In particular, it has gained significant know-how in the following programs:

Airbus A220, Vertical VA-D2, Bombardier C-Series aircraft, B787.

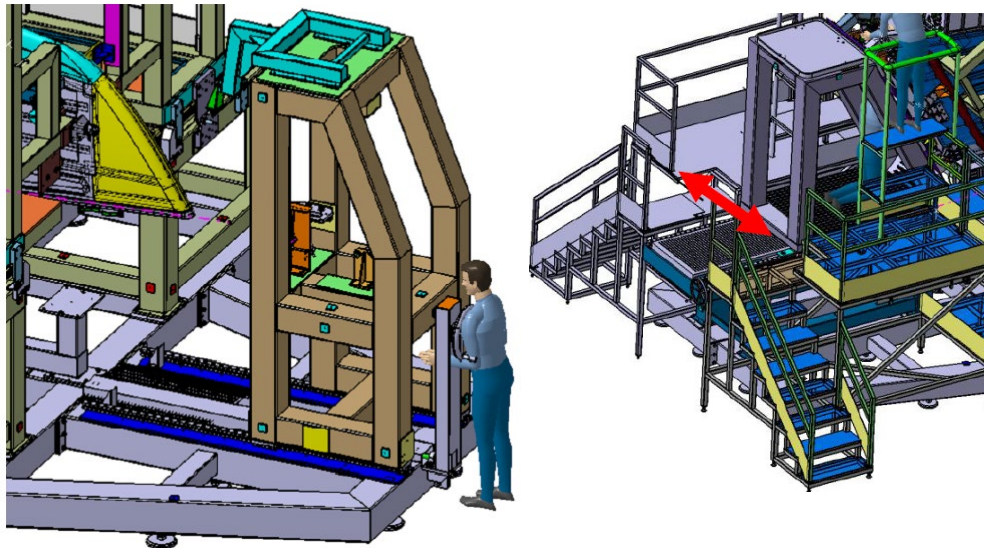
- Aircraft assembly slipways
- Lifting and handling slings.
- Internal or external transport trolleys for aeronautical parts.
- Special tools built according to customer needs
- Contouring and drilling templates



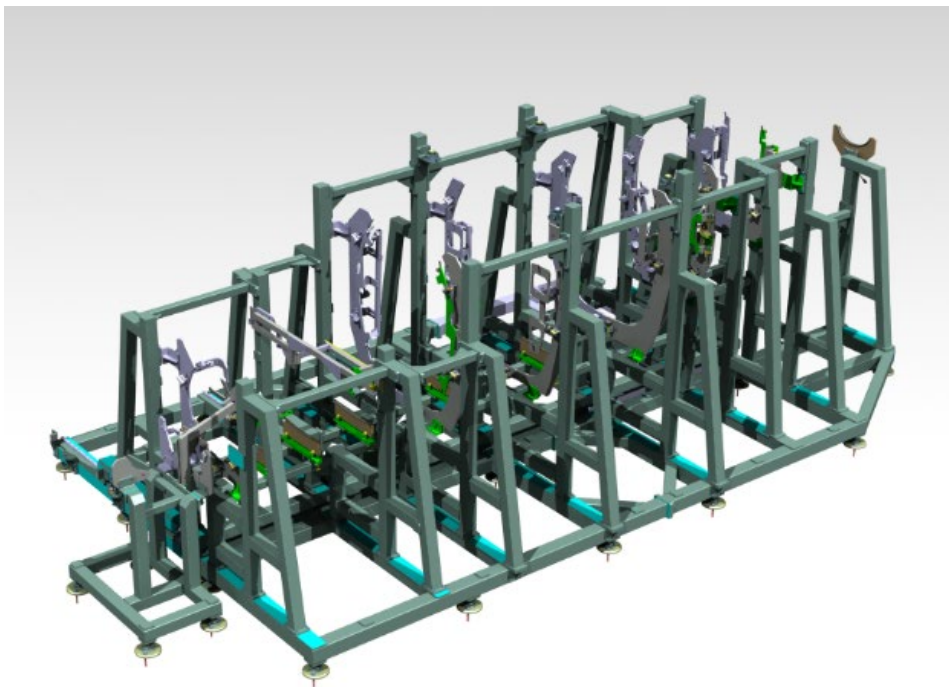
# Slipway for Airbus A220 Vertical Stabilizer program.



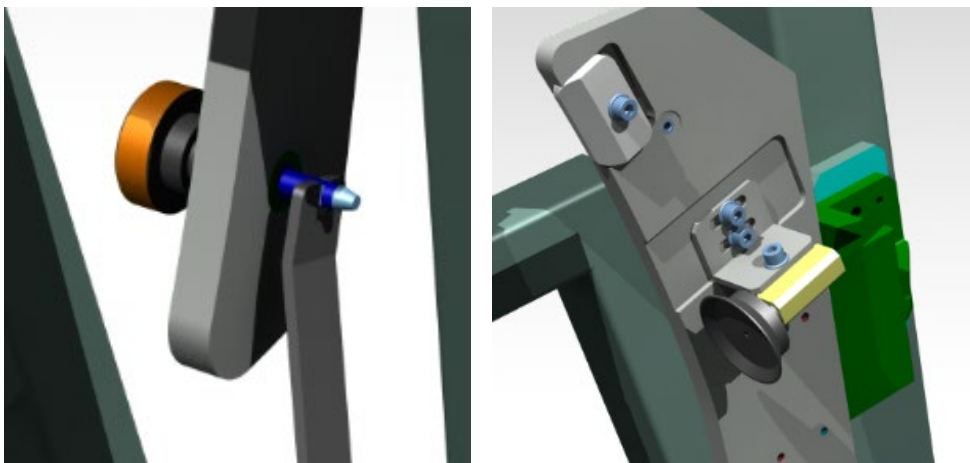
LH/RH Side Panel  
Assy assembly with  
special locking  
system.



## Vertical VA-D2 program fuselage assembly slipway



Fuselage assembly  
with special locking  
system.







Tool for transporting (in flight configuration) by air or sea the Horizontal Stabilizer of the Bombardier C-Series aircraft



Floor Assembly Tool of B787

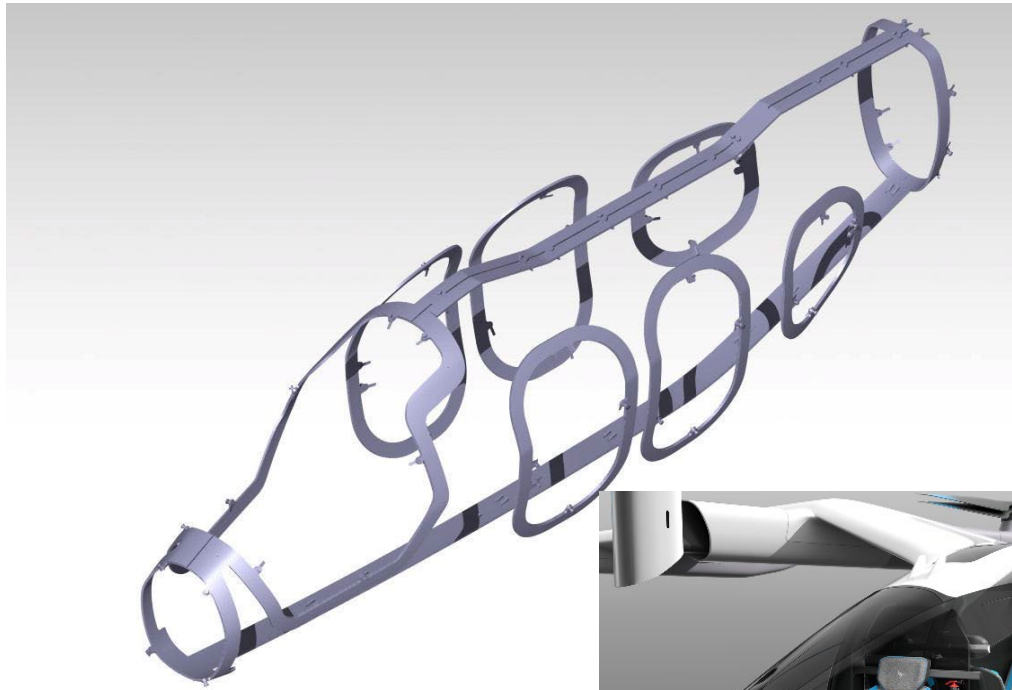


Buffer stations for the storage of the complete fuselage 46 sections of the B787, prior to transport.



Sling for lifting and handling the Horizontal Stabilizer of the Bombardier C-Series Aircraft

# Contouring and drilling templates Vertical VA-D2



Contouring and  
drilling shape of parts  
made by 3D printing.



# Contouring and drilling templates

## Machining centers and production units

Our design process begins with a careful analysis of the documentation provided by the customer. Using CATIA V5 (Computer-Aided Three-Dimensional Interactive Application), our engineers develop detailed and highly accurate 3D models of the required components. Subsequently, these digital models are converted into the CAM (Computer-Aided Manufacturing) system, which generates the instructions for machining using CNC (Computer Numerical Control) machines, ensuring maximum precision and repeatability in production.

This integrated approach ensures efficiency, quality and compliance with customer requirements at every stage of the process.

# MAINTENANCE AND CONTROL OF INDUSTRIAL AND AIRPORT EQUIPMENT

We ensure optimal performance and regulatory compliance through specialized services:

- ▶ **Ground Support Equipment (GSE)**
- ▶ **Reverse Engineering and Recertification of Jacks**
- ▶ **Load tests with certified press up to 60 T**
- ▶ **Maintenance and overhaul of hydraulic benches, jacks, slings and cold rooms**



# AFTER-SALES ASSISTANCE

Our commitment does not end with the delivery of the product. We offer a complete after-sales service, to ensure the correct operation and maximum efficiency of the solutions provided.

Our after-sales services include:

- Specialized technical support to solve any operational problems.
- Scheduled maintenance to optimize product life and performance.
- Calibration and verification services to ensure compliance with quality standards.
- Training for staff on the correct use and optimal management of the equipment.

We guarantee timely and effective assistance so that our customers can count on reliable and continuous support.

# QUALITY CERTIFICATIONS



CISQ is a member of  
**IO Net**  
www.io-net-certification.com

RINA, the association of the world's first class certification bodies, is the largest provider of management system Certifications in the world. RINA is composed of more than 30 bodies and counts over 130 subsidiaries all over the globe.

For information on the validity of the certificate, visit the site [www.rina.org](http://www.rina.org)

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Refer to the Quality Manual for details regarding the exemptions from the requirements of the standard

Reference is to be made to the Quality Manual for details regarding the exemptions from the requirements of the standard

**CERTIFICATO N. 29879/13/S**  
**CERTIFICATE No.**

SI CERTIFICA CHE IL SISTEMA DI GESTIONE PER LA QUALITÀ DI  
IT IS HEREBY CERTIFIED THAT THE QUALITY MANAGEMENT SYSTEM OF

**SIA S.R.L.**

VIA ALCIDE DE GASPERI 132 80050 TORRE DEL GRECO (NA) ITALIA

NELLE SEGUENTI UNITÀ OPERATIVE / IN THE FOLLOWING OPERATIONAL UNITS

VIA ALCIDE DE GASPERI 132 80050 TORRE DEL GRECO (NA) ITALIA

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**ISO 9001:2008**

PER I SEGUENTI CAMPI DI ATTIVITÀ / FOR THE FOLLOWING FIELD(S) OF ACTIVITIES

EA 18

PROGETTAZIONE E PRODUZIONE DI ATTREZZATURE PER IL SUPPORTO A TERRA E SCALI DI MONTAGGIO.  
DESIGN, PRODUCTION, MAINTENANCE AND POST-DELIVERY SUPPORT OF SPECIAL PLANTS FOR FLUIDS TREATMENT AND RELATED COMPONENTS.

DESIGN AND PRODUCTION OF GROUND SUPPORT EQUIPMENT AND ASSEMBLY JIGS.  
DESIGN, PRODUCTION, MAINTENANCE AND POST-DELIVERY SUPPORT OF SPECIAL PLANTS FOR FLUIDS TREATMENT AND RELATED COMPONENTS.

La validità del presente certificato è subordinata a sorveglianza periodica annuale / semestrale ed al riesame completo del sistema di gestione con periodicità triennale  
The validity of this certificate is dependent on an annual / six monthly audit and on a complete review, every three years, of the management system  
L'uso e la validità del presente certificato sono soggetti al rispetto del documento RINA, Regolamento per la Certificazione di Sistemi di Gestione per la Qualità  
The use and validity of this certificate are subject to compliance with the RINA document, Rules for the Certification of Quality Management Systems for the compliance order according to EN 9100 edition

Prima emissione / First issue: 04.11.2013  
Emissione corrente / Current issue: 04.11.2013  
Data scadenza / Expiry date: 03.11.2016

Ing. Michele Francioni  
(Chief Executive Officer)



RINA Services S.p.A.  
Via Corsica 12 - 16128 Genova Italy

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**CERTIFICATO N. AS/78/13/S**  
**CERTIFICATE No.**

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VIA ALCIDE DE GASPERI 132 80050 TORRE DEL GRECO (NA) ITALIA

È CONFORME ALLA NORMA / IS IN COMPLIANCE WITH THE STANDARD  
**EN 9100:2009 / UNI EN 9100:2009**

È VALUTATO SECONDO LE PRESCRIZIONI DELLA NORMA EN 9100-01:2013 E DEL REGOLAMENTO TECNICO ADDESSA RT-18  
ASSIGNED ACCORDING TO EN 9100-01:2013 STANDARD AND TO THE REQUIREMENTS OF ACCREDITED TECHNICAL REGULATION RT-18

PER I SEGUENTI CAMPI DI ATTIVITÀ / FOR THE FOLLOWING FIELD(S) OF ACTIVITIES

EA 18  
EA 21

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