NES

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NES aspires to be your **fully partner** in the field of electronic technologies, providing support to **across the entire spectrum of the industry** in front end and back end process, **from the inception of electronic components** in the microelectronics domain **to the final stages of assembly and testing** of the finished products

NES takes care of **design** *(electronic, mechanical, PCB)*, **engineering** *(DFA, DFM, DFT)*, **assembling**, **testing and repairing of electronic equipment for all types of sector**. With modern equipment and facilities, young and qualified personnel and great passion, the company **support every type of reality** in Italy and abroad

OUR PLANTS

30MLN €
2025 turnover sales

5BRANCHES
10,000 m² of total area

170
employees

ITALY

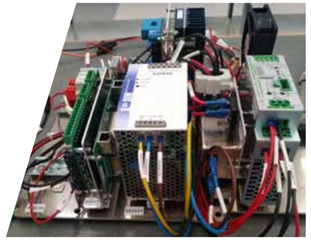


CASERTA - HEADQUARTER

Zona Industriale ASI
81032 Carinaro - Caserta, Italy
Tel. **+39 081 502 81 47**

- Design and Engineering
- Coating
- Material Management
- Testing and Repairing
- Assembling

Certifications: ISO 9001, ISO 9100, IRIS



BOLOGNA - BRANCH

Via Ungheri 7/A - 7/B - 7/N
40012 Calderara di Reno - Bologna, Italy
Tel. **+39 05 172 54 56**

- Design and Engineering
- Material Management
- Testing and Repairing
- Electromechanical Assembling

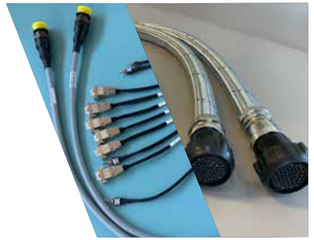
Certifications: ISO 9001, ISO 9100, IRIS



LA SPEZIA - BRANCH

Via delle Pianazze 74
19136 La Spezia – Italy
Tel. **+39 01871676505**

- Design and Engineering
- Material Management
- Testing and Repairing
- Harness



CHIETI - CABLA NES

Zona Industriale Piano Saletti Snc
66020 Paglieta - Chieti, Italy
Tel. **+39 331 345 57 39**

- Material Management
- Harness
- Testing and Repairing
- Assembling

Certifications: ISO 9001, ISO 9100

BULGARIA

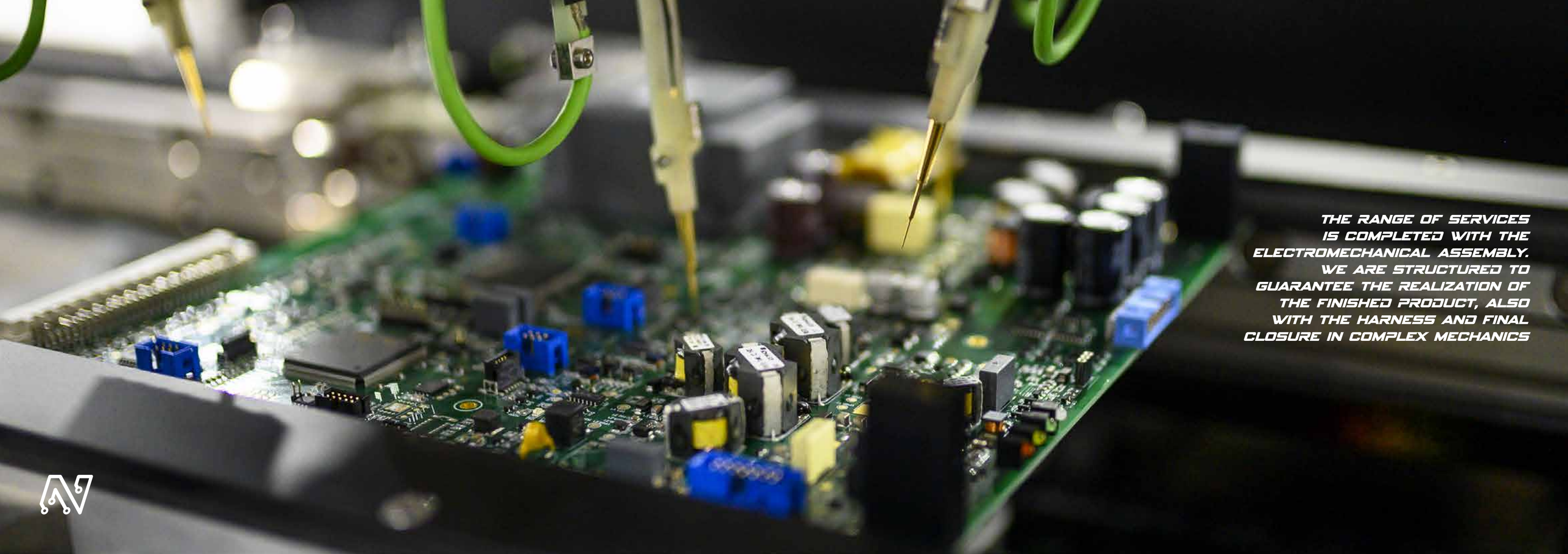


PLOVDIV - BRANCH

ul. Kuklensko Shosse N° 17
4003 Northern Industrial Zone, Plovdiv, Bulgaria

- Assembling
- Testing and Repairing
- Coating
- Material Management

Certifications: ISO 9001



THE RANGE OF SERVICES IS COMPLETED WITH THE ELECTROMECHANICAL ASSEMBLY. WE ARE STRUCTURED TO GUARANTEE THE REALIZATION OF THE FINISHED PRODUCT, ALSO WITH THE HARNESS AND FINAL CLOSURE IN COMPLEX MECHANICS

PRODUCTION FLOW



DESIGN & VERIFICATION

NES deals with the **design of electronic boards** ensuring **project problem solving** and **project verification tests starting from the customer's idea** or even eventual intermediate phases



PCB DESIGN

NES takes care of the designing, creating and solving steps of the realization of **printed circuit boards** following the origin projects



PRODUCT ENGINEERING (DFA,DFM)

NES is able to provide customer **PCBA design suggestions** aimed at the industrialization of the product. It focuses on **reducing time-to-market and total production costs** by prioritizing both the ease of manufacture for the product's parts and the simplified assembly of those parts into the final product. Together with the customer we work to find **the best possible solution** that allows an optimization of the production cycle and a decrease of the total cost of final product.



PROTOTYPING

Before moving towards the production stages, *NES* deals with the **creation of prototypes** in order to **verify the eligibility of the projects** following the **optimal standards** for the realization according to the customer's requests. **Prototyping** also applies to companies that needs **only this preliminary realization stage**



ASSEMBLING

After the prototyping, components are **selected and prepared** for the assembly phase. Leading the origin project, the **PCB goes through the various steps of automated assembly**, starting from the **positioning of the components** on the circuits until the **coating stage**, taking advantage of predisposed **avantgarde machineries**



TESTING

Complete PCBs pass through **different test and check phases** such as **x-ray analysis, micrometric measurement**, component testing and **climatic chamber**, aimed at verifying the effectiveness, performance and eligibility of the circuit. *NES* also design and constructs **specific purpose testing machines** if requested



HARNESS

With our group company **CABLA NES** we can assist our customers with the production **of any type of harness in any application sector**



ELECTROMECHANICAL ASSEMBLING

The range of services is completed with the electromechanical assembly. We are structured to guarantee the realization of the finished product, also with the wiring and final closure in complex mechanics

SERVICE DETAILS



MATERIAL MANAGEMENT

NES offers its customers a material **management service that concerns the search for alternative codes**, the finding of obsolete material and the **purchase of kit of components** to be supplied to the customer **even without assembly.**



QUALITY TRAINING

NES has qualified operators "**IPC-A-610 Trainer**", **" IPC-7711/7721 Trainer", "IPC J-STD-001 Trainer"** who can take courses and issue the relative certification.



MAINTENANCE AND REPAIR

NES offers a maintenance and repair service on **single or multiple already existing projects** as well as on their own realized products. This step also accomplishes the purpose of **closing the internal realization and testing loop process**.



TEST EQUIPMENT DESIGN

NES designs and manufactures customized automatic test solutions (ATE) with CE certification, starting from DFT analysis.
Each system is engineered to meet customer requirements by combining product specifications, test instrumentation, and interface software.



OBSOLESCENCE MANAGEMENT

Instant and automatic management of obsolescence through Silicon Expert. We can inform the customer whenever the datasheet of single components of the bom is changed or the component is in End Of Life.



MICROELECTRONICS SUPPORT

With our group Company **NES** we can assist our customers with Demo Center, installation and maintenance of Microelectronics equipment such as: **Wafer Management, Die Bonding, Wire Bond**, etc



TEST EQUIPMENT DESIGN

TEST BOX

NES **designs and manufactures test boxes, fixtures and PCBA tailored to customer requirements**, including jigs for radio frequency boards. Electrical and mechanical solutions can be either COTS-based or fully customized.

ATE (AUTOMATIC TEST EQUIPMENT)

NES **designs and develops advanced Automatic Test Equipment** for various sectors, such as railways, industrial, aerospace and defense systems, including radar and missile applications. An ATE development **includes a wide range of technical skills** (electronic, electrical, software, firmware and mechanical design), as well writing the design management documentation, assembly and validation. We also **provide refurbishment and upgrade services** for existing test and inspection assemblies or station.

EGSE (ELECTRICAL GROUND SUPPORT EQUIPMENT)

NES **develops complete EGSE solutions** to support space experiments and missions during integration, functional, and performance testing. Also for EGSE NES handles the full process: **from electronic design to software and firmware development, assembly, and final validation**.



EQUIPMENTS & TOOLS

WAREHOUSE AREA

1 INCOMING MATERIAL STATION
(ESSEGGI MODELLO ISM 2.0)

6 AUTOMATIC WAREHOUSE
(ESSEGGI MODELLI ISM ULTRAFLEX 3600 E 3900)

6 WAREHOUSE PICK TO LIGHT
(ESSEGGI MODELLO ISM 500)

1 X-RAY COMPONENT COUNTING SY-STEMS
(VJ ELECTRONIC XQUIK III)

3 DRY CABINET
(TOTECH MODELLO SUPER DRY SD+ 1104-22)

1 BAKING OVEN

SMT DEPARTMENT

3 SMT LINES
(6 JUKI P&P RS1)

3 SCREEN PRINTER DEK
(HORIZON 03I AND 03IX)

2 SPI
(TRI TR7007QI)

2 REFLOW SOLDERING SYSTEMS
(VITRONICS CENTURION CT 930)

1 VAPOUR PHASE SOLDERING SYSTEM
(ASSCON VP800)

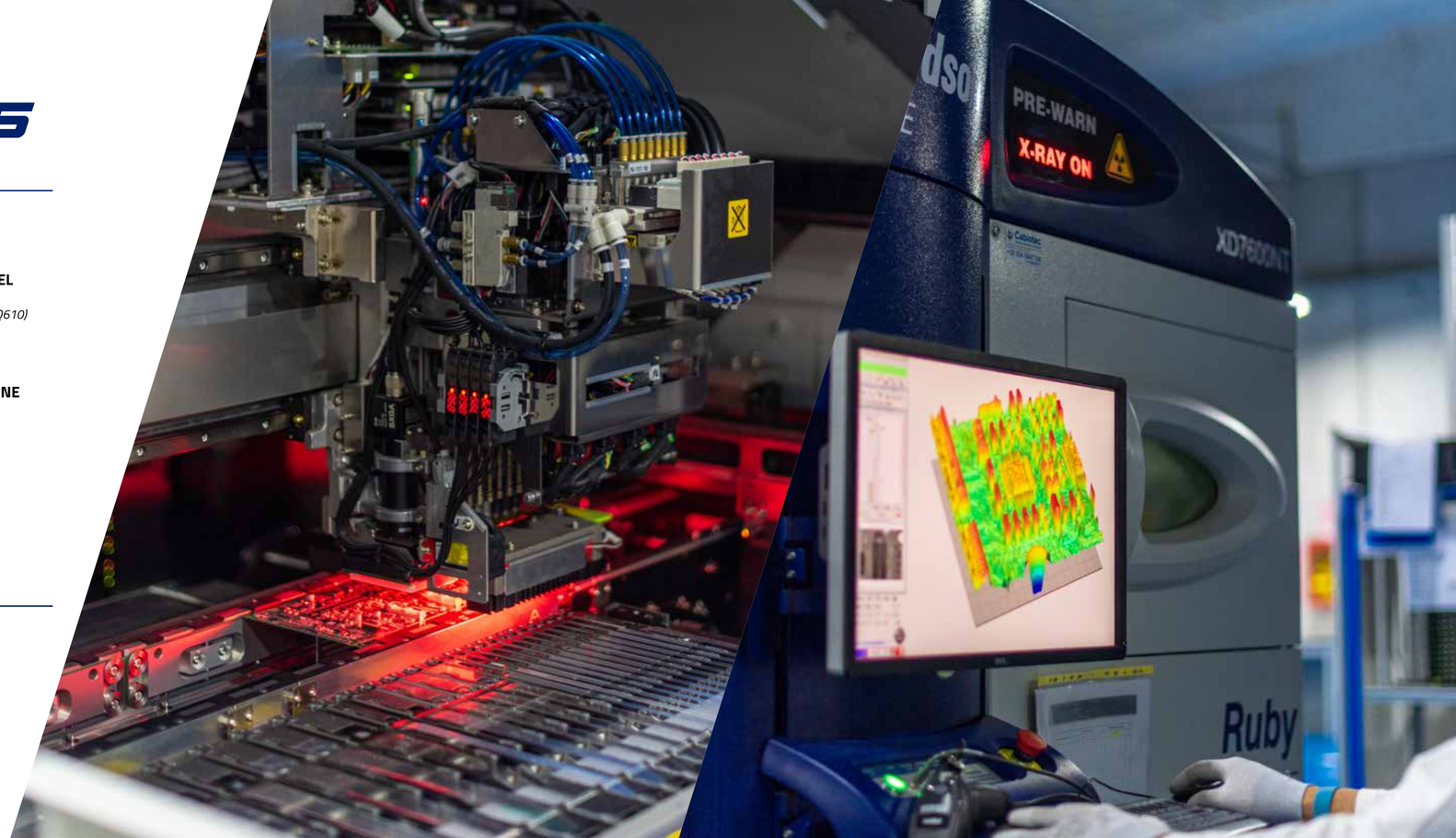
2 AOI
(TRI TR7500 SIII 3D)

2 SEMIAUTOMATIC TAPE AND REEL SYSTEM
(ADVANTEK MODELLO ATR 1000/ QUASER Q610)

1 XRAY
(NORDSON DAGE RUBY XD7600NT)

1 ULTRASOUND WASHING MACHINE
(SRA T. UC 150D)

1 REWORK BGA
(ERSA HR600 AND REBALLING KIT)



EQUIPMENTS & TOOLS

THT DEPARTMENT

1 SELECTIVE SOLDERING SYSTEM
(ERSA VERSAFLOW 3/45)

1 WAVE SOLDERING SYSTEMS
(VITRONIC SOLTEC DELTA WAVE 6622)

1 THT INSPECTION
(AO1 6.0)

3 DEPANNELING PCB
(AUROTEK AUO-3000C), PIERGIACOMI DPF-300, MAESTRO 4S)

1 FLEXWALLS CLEANROOM ISO8

TEST DEPARTMENT

1 CLIMATIC CHAMBER
(ANGELANTONI DISCOVERY DM600 C ES)

1 FLYING PROBE TESTER
(SPEA 4060S2)

2 FIRST ARTICLE INSPECTION SYSTEM
(EXTRA EYE X3020)

CAD, XJTAG, LABVIEW

CONFORMAL COATING DEPARTMENT

3 SELECTIVE COATING SYSTEMS
(PVA DELTA 8) (PVA DELTA 6)

3 INFRARED HEAT CURING CHAMBER
(PVA IR2000, LEMME THEMIS 2000)

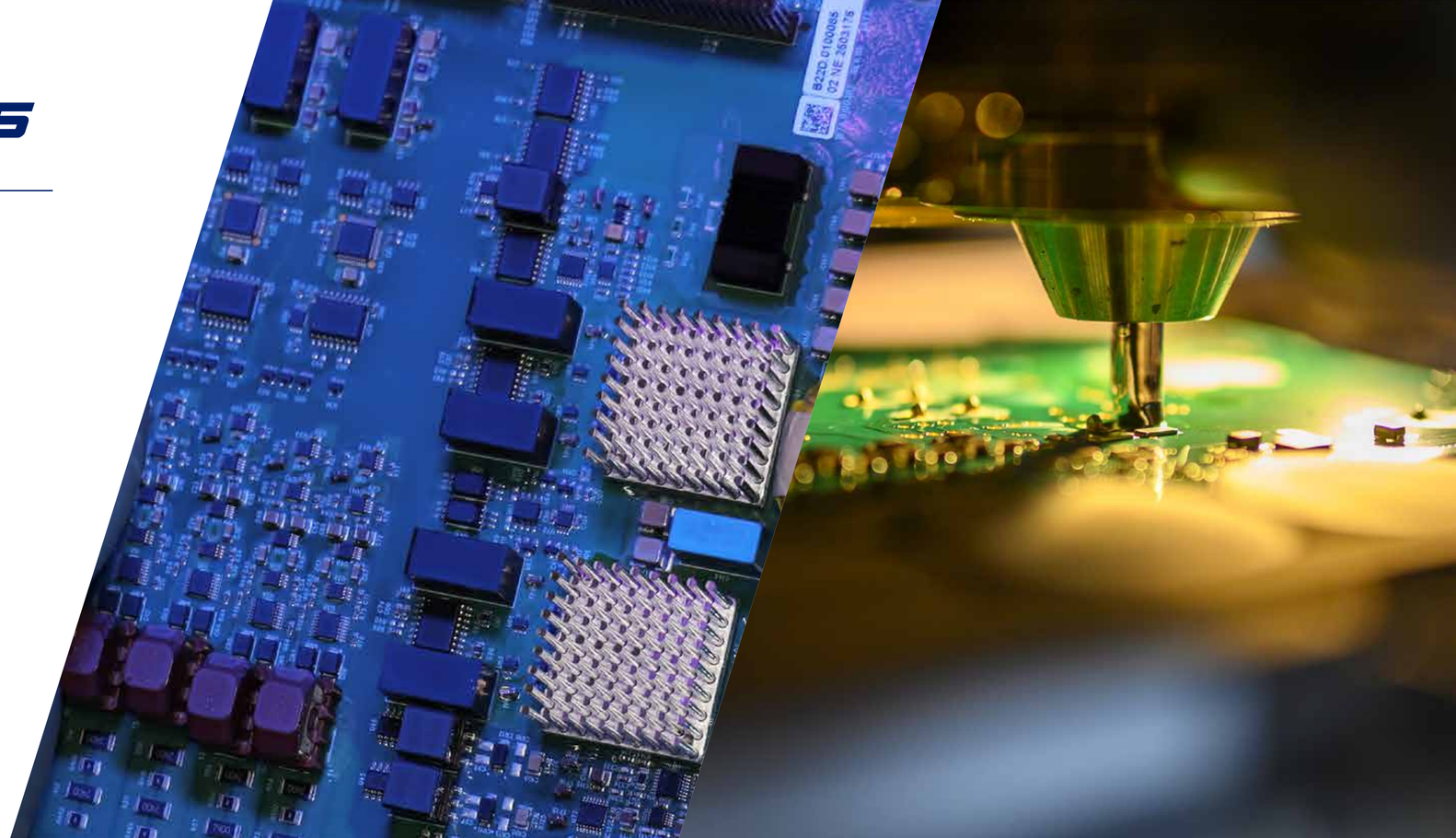
1 COATING CABIN
(CUSTOM)

1 CLEANING SYSTEM
(PBT SUPER SWASH)

1 IONIC CONTAMINATION TEST STYSTEM
(SCS IONOGRAPH 500M STD)

2 TWO COMPONENTS RESIN DISPENSER
(CONTALDI INDUMIX IA)

1 OVEN MPM
(M400-VF)



MAIN SECTORS

DEFENCE

NES plays an active role in the **defence industry** by providing **advanced electronic design, testing systems, and integration solutions for radar, missile, and secure communication applications**.

As part of the Italian defence supply chain, we collaborate with leading partners to deliver **innovation and reliability**, strengthening national and international security while enhancing the **strategic role of Italian technology worldwide**.

AEROSPACE

As a member of the ANSER consortium, **NES actively collaborates with leading companies in the aerospace sector**, combining expertise and resources to strengthen the Italian supply chain. This partnership fosters **innovation, synergy, and the promotion of "Made in Italy" excellence** on an international scale.

anser
AeroNautics and Space in Emilia-Romagna

www.anser-it.it

RAILWAY

Building on our experience and deep knowledge of technologies, **we provide reliable and innovative solutions for onboard signaling, control, communication, and safety systems**.
We work in partnership with the leading operators and manufacturers in the railway industry, ensuring the highest quality and full compliance with sector standards.
In this regard, **we have held IRIS Certification for several years**, attesting to our compliance with the stringent regulations and high performance requirements of the industry.

OTHER SECTORS

- **NAVAL**
- **RADIO FREQUENCY**
- **TELECOMMUNICATIONS**
- **INDUSTRIAL**

REFERENCES

DEFENCE

LEONARDO ELECTRONICS
MBDA
RHEINMETALL
HONEYWELL
WASS
LARIMART

RAILWAY

HITACHI
ALSTOM
MERMEC STE
SPII
WEGH

AEROSPACE

THALES ALENIA SPACE
LEONARDO SPAZIO
PARKER MEGGITT

OTHER SECTORS

ABB
CERN
FINCANTIERI
IDS GEORADAR
INFN
KEYSIGHT
MICRODATA DUE
MOOG
SELETECH ENGINEERING



CERTIFICATIONS

COMPANY CERTIFICATIONS

ISO 9001

EN 9100

IRIS™ Certification

TEAM CERTIFICATIONS

Certified IPC•A•600 Application Specialist

IPC•A•610 Certified IPC Trainer

IPC J•STD•001 Certified IPC Trainer

IPC•7711/7721 Certified IPC Trainer





NES
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2002 - The idea of the *NES* was born and **the company was established in order** to present the project of facilitated financing to *Sviluppo Italia*

2005 - The financing project is approved and the search for the area where the settlement is to be built begins

2006 - Work begins on the construction of the *Carinaro* plant

2008 - In February 2018 "**the motors are started**" with the connection of the power to the electric cabin: **the *NES* starts its activities**
2010 - *NES* obtains ISO:9001 certification

2013 - ***NES* starts its activities in Germany** and a Joint Venture named ANYNES is set up with the German partner

2014 - For the first time ***NES* participates as an exhibitor at the Electronica fair** in *Munich*

2018 - A **new office** is opened in *Bologna*; the company begins to offer its customers new design, mastering and test engineering services;
As part of an important investment project, the technological heart of the company is completely modernised with the purchase of **3 new latest generation SMT lines**

2019 - *NES* obtains *ISO:9100* and *IRIS ISOTS22163:2017 certifications* **in the same year**;
The extension of the *Carinaro* headquarters is completed, increasing from **1,200 square metres** to **3,000 square metres**

2021 - A new manufacturing branch is opened in "Plovdiv (Bulgaria)"

Cabla NES, a new group company for harness producion, is born.

2023 - Nes begins to approach microelectronics.

2024 - NES became part of the Aerospace Consortium ANSER, actively collaborating with leading regional players to combine expertise and resources. This membership strengthens the Italian aerospace supply chain, fosters innovation, and works in synergy to bring "Made in Italy" to new levels of international prestige.

Emagraphic
Ideazione
e realizzazione

NES
tech inside

www.nesitalia.com