

YOUR PRODUCT IN THE RIGHT HANDS

COMPANY PROFILE 2024
REV.01

GR ELETTRONICA S.r.l.

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GR ELETTRONICA S.r.l.

Factory and offices: Via Spinsanti, 4 - Zona Pip
60027 Casenuove di Osimo (An), Italy
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- Area of manufacturing plants: **3.250 m²**
- Offices: **600 m²**
- Extension project **by 2024**

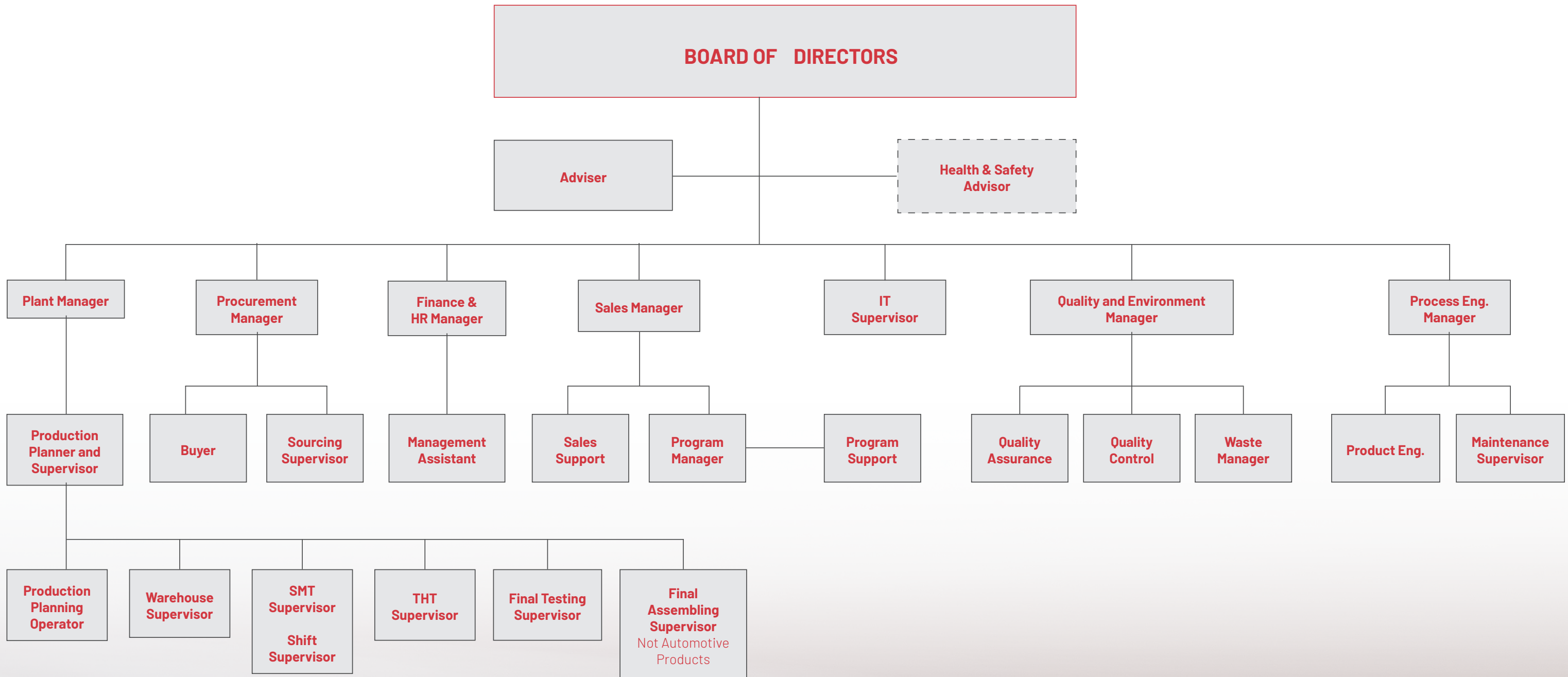


- **// 1970 //**
Established by the Giuliadori family, it provides wiring and electro-technical assembling services to the industry of musical instruments (organs, accordions).
- **// 1990 //**
GR Elettronica S.r.l. is born as a new legal entity for the manufacture of circuit boards.
- **// 1994 //**
First automated line for Surface Mounting Technology (SMT) applications.
- **// 1997 //**
Introduction into the manufacturing process of automated machines for the functional bed-of nails In-Circuit Test (ICT).
- **// 2003 //**
ISO 9001 Certification—from contract work to turnkey service.
- **// 2003 //**
Construction of second building dedicated to the assembling of finished products.
- **// 2010 //**
Package on Package (PoP) technology introduction on SMD production line.
- **// 2012 //**
Reorganization of corporate processes and internationalization of reference markets.
- **// 2014 //**
Introduction of new tools and technological investments aimed at optimizing Efficacy and efficiency, benchmark KPIs, end-of-line PPMs.
- **// 2015 //**
GR Elettronica celebrates its first 25 years of operation.
- **// 2017 //**
Certification IATF16949, in-depth innovation of SMT dept. and Accreditation Industry 4.0.
- **// 2019 //**
Full revision of layout and automation of warehouse Installation of REHM oven (VAC technology).
- **// 2020 //**
Pandemic.
- **// 2021 //**
Smart Automation & Business Continuity.
100% Green Energy.
- **// 2022 //**
Alternative Energy - Photovoltaic
- **// 2023 - 2024 //**
Digital Factory 4.0

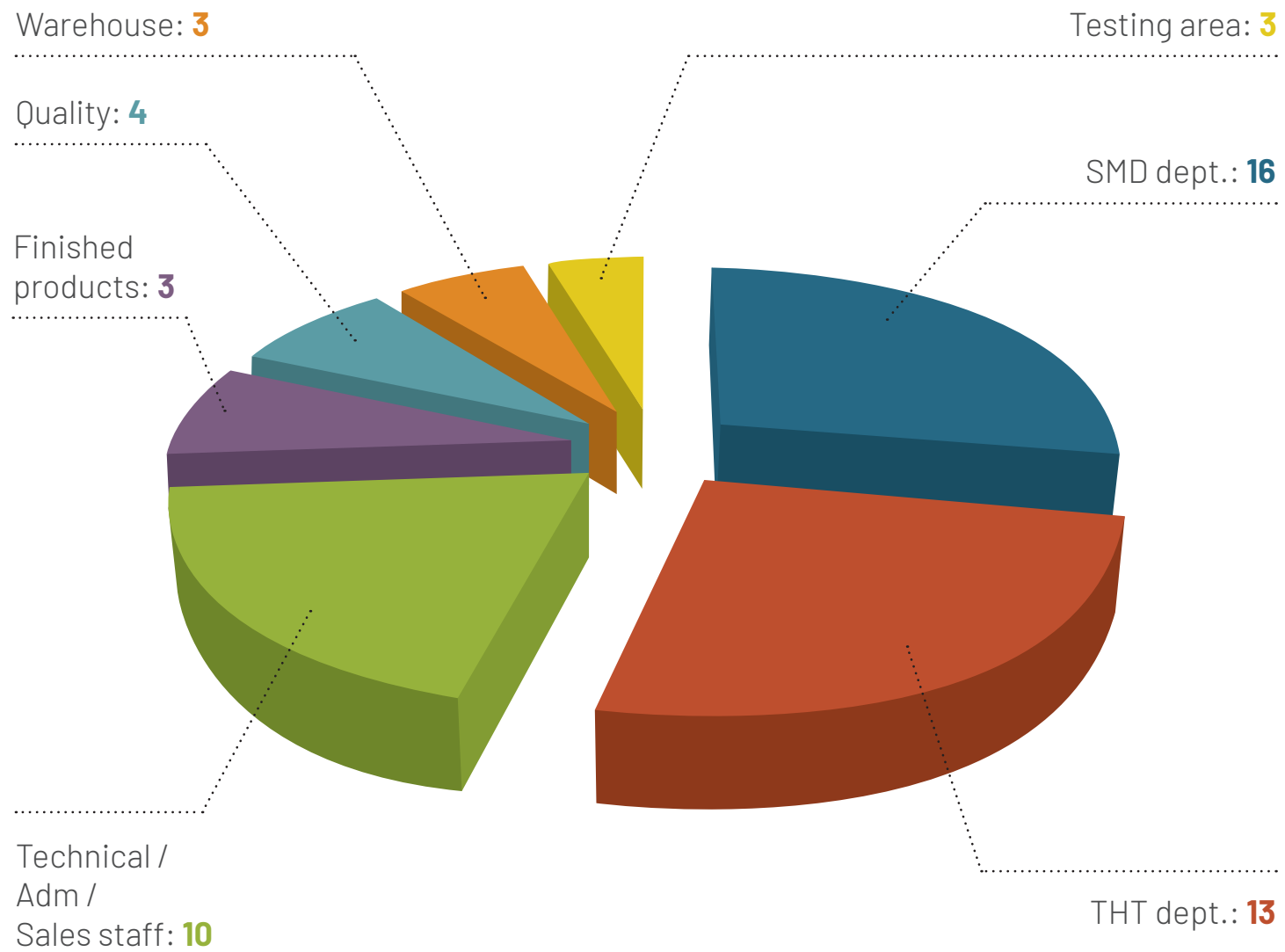


Current Organisation Chart

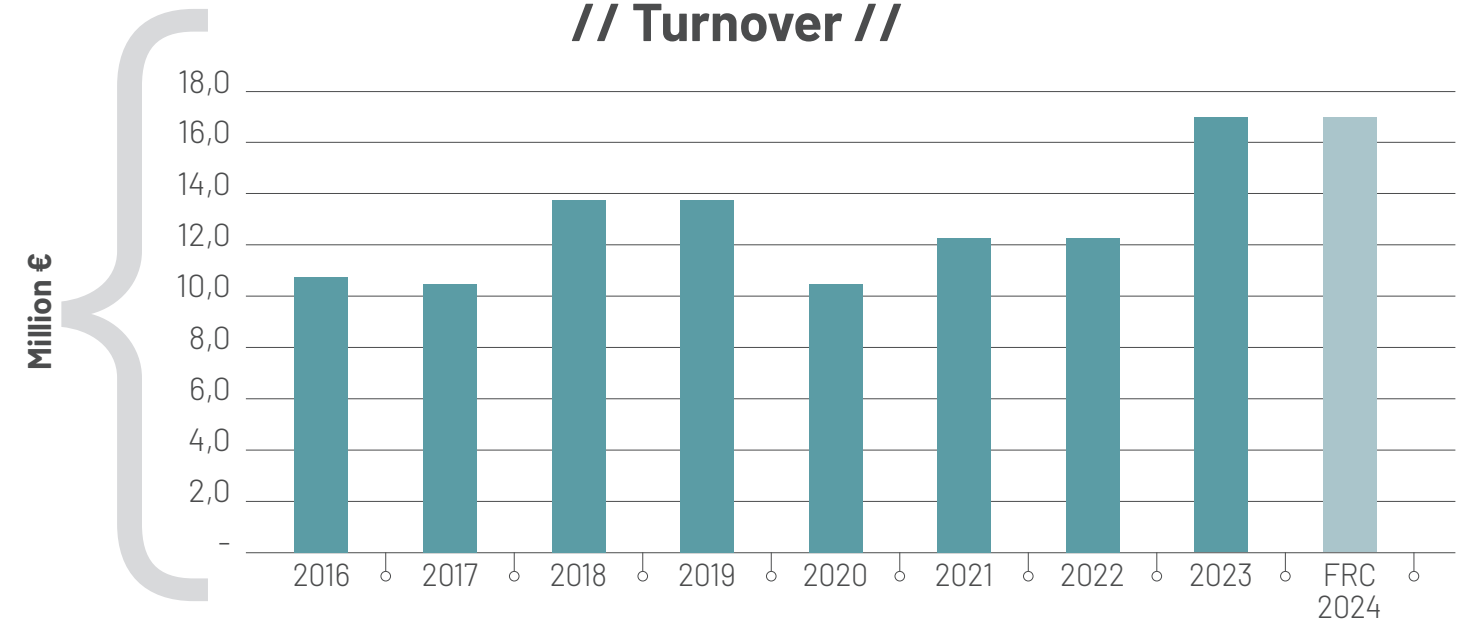
// Organization Chart //



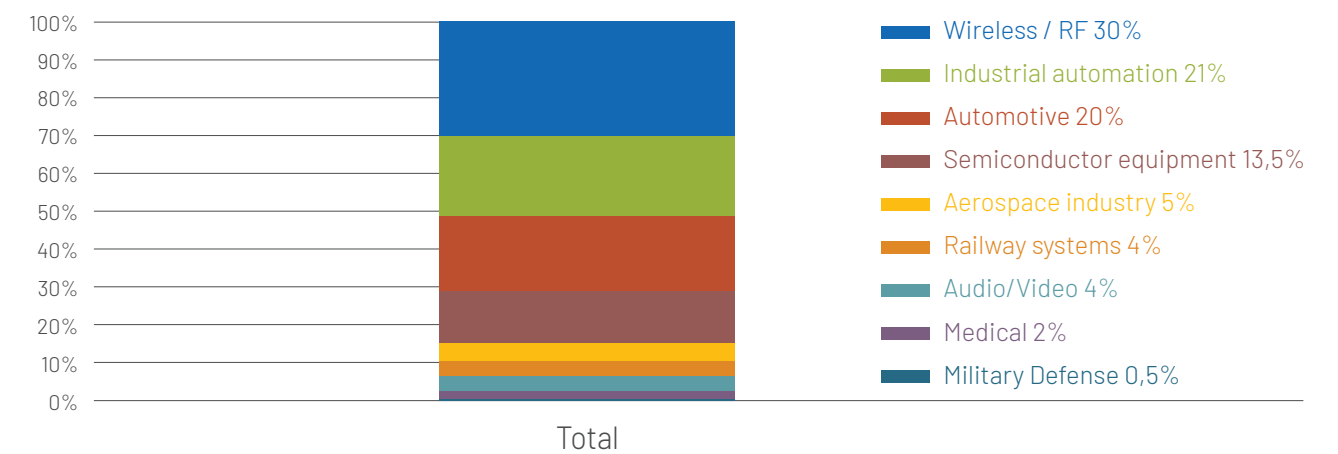
// 52 Staff members //



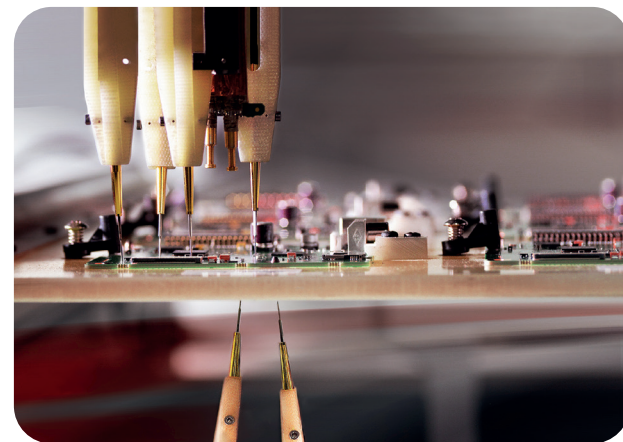
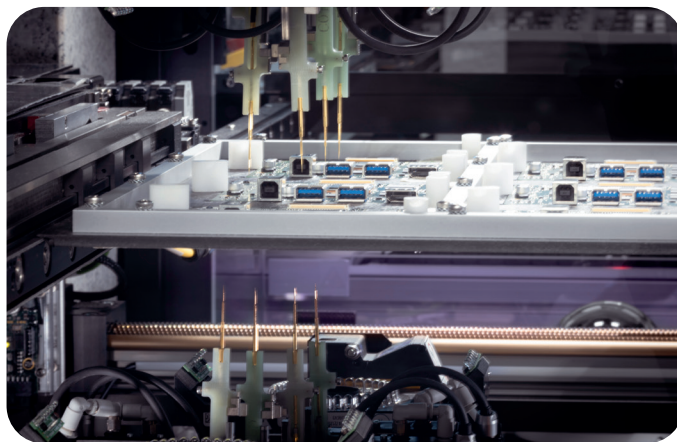
// Turnover //



// Market segments 2023 //



- **Contract work/mixed/turnkey services.**
- **Prototype manufacturing** and information support **ODB++.**
- **Procurement** of electronic & mechanical parts, product packaging.
- **Forecasting, stock & inventory management, buffer stocking,** lead-time analysis and procurement of critical parts.
- Development, integration and storage of **product documentation.**
- Support to **optimize the producibility/testability** of products.
- **SMT/ Package on Package (PoP)/THT.**
- **Traceability** even of individual components through **2D bar code.**
- **Strategic components can be concealed or marked on the board.**
- **X-Ray** (visual or automated optical inspection), **AOI, ICT** through flying probes (6 probes) or bed of nails and **custom functional testing.**
- Low-temperature/immersion automated **cleaning.**



// SMD lines //

Two mass production line plus one dedicated for prototype
Up to 130K real chip/hour.

— // Screen Printer //

2D HD inspection system.
Print stability control and position repeatability within 0.005 mm.

— // SPI 3D Laser Line Scan Method //

— // AOI tools //

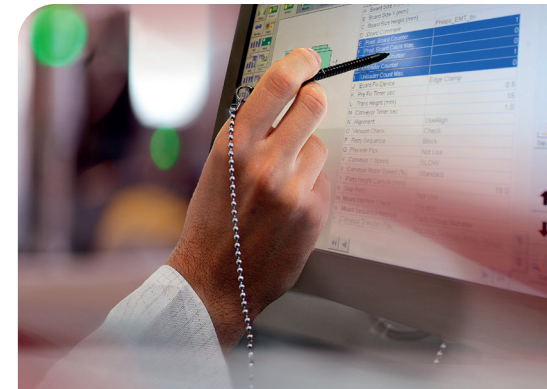
2D inspection pre- reflow.
3D inspection post- reflow.

— // Reflow soldering systems //

10 Top & Bottom heating zones operating on inert gas with an optimized management of the exhaust gas (a tool with the VAC system).

— // XRay //

Filament Free, 10W - 160KW, 0.35um feature recognitions, 2 x 70° Angle view



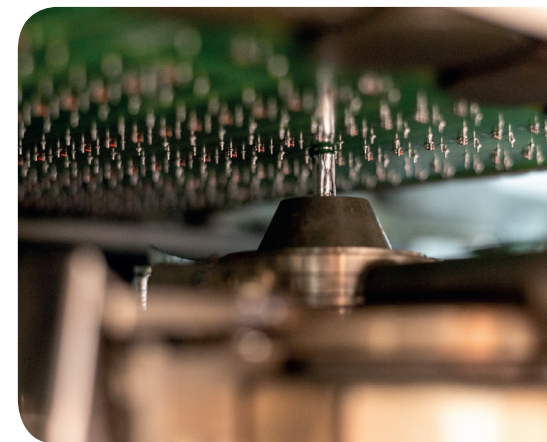
// THT Area //

// Ersa Selective welding machine //

// TEST Area //

// Dual Side Flying Probe Tester (6 and 8 probes) //

Direct contact even on ultrafine pitch components (e.g. RQFP and chips up to 01005). Nodal impedance test (Nzt), RGB camera, War Page, HLD [40cm x (up to 70cm)].



ISO 9001-certified
since July 2003



Applicable to Electronic Boards Manufacturing



Applicable to Electronic Boards Manufacturing

IATF 16949-certified
since November 2017



Applicable to Electronic Boards Manufacturing

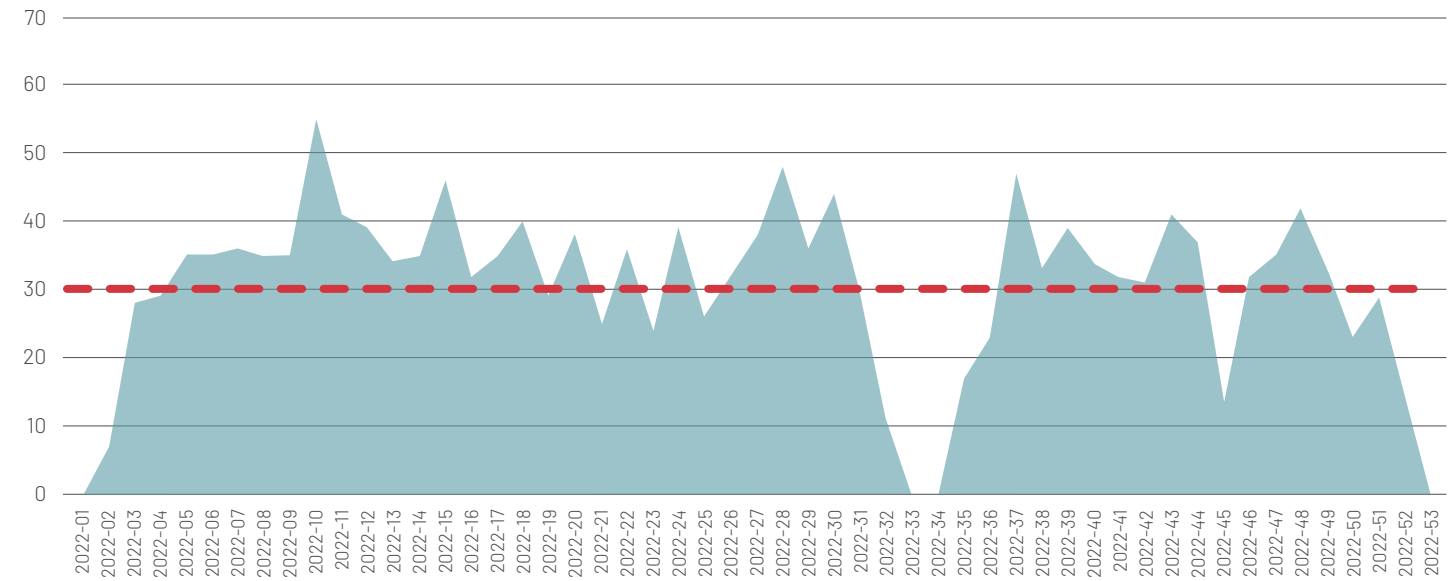
ISO 14001-certified
since May 2023



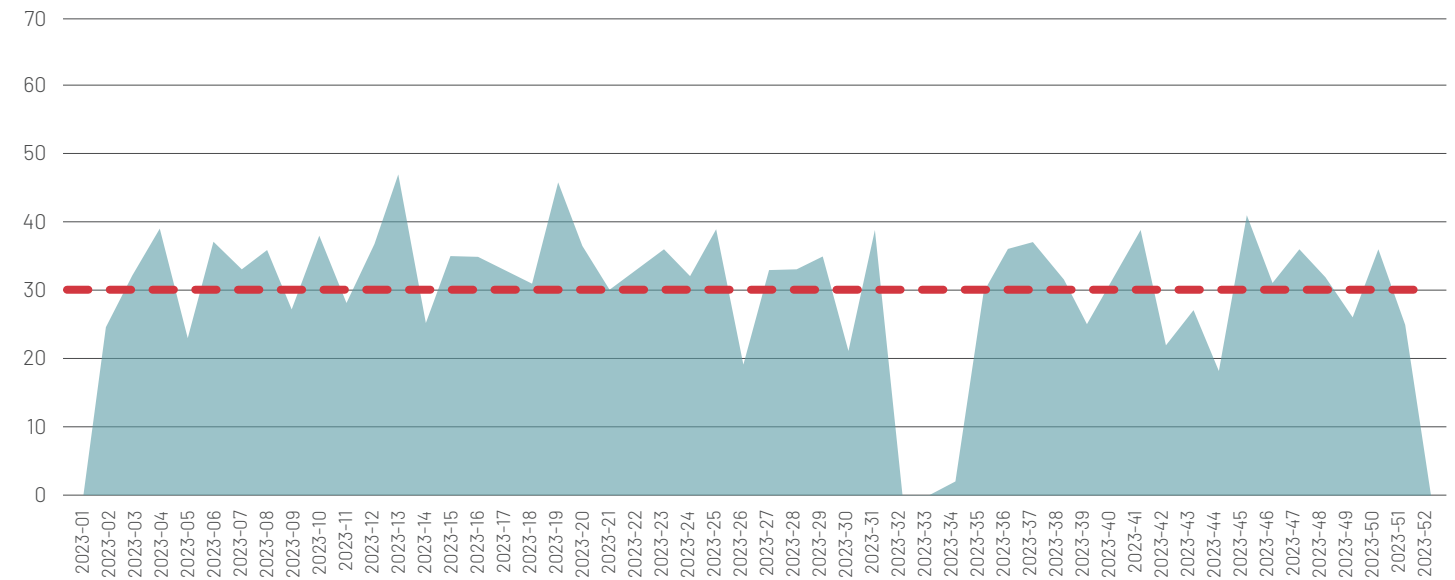
IPC-A-610
Acceptability of Electronic Assemblies
IPC-J-STD-001
Requirements for the welding of electronic and electric assembly
IPC 7711/7721: Reworking, Modification and Repairing of Electronic Assemblies
CQPF: Product sampling based on **UNI ISO 2859-1 o CSR**

- Ability to handle continuous and spotty production flows.
- Hi-Mix, Medium/Low volume production.

different codes delivered per week in 2022



different codes delivered per week in 2023



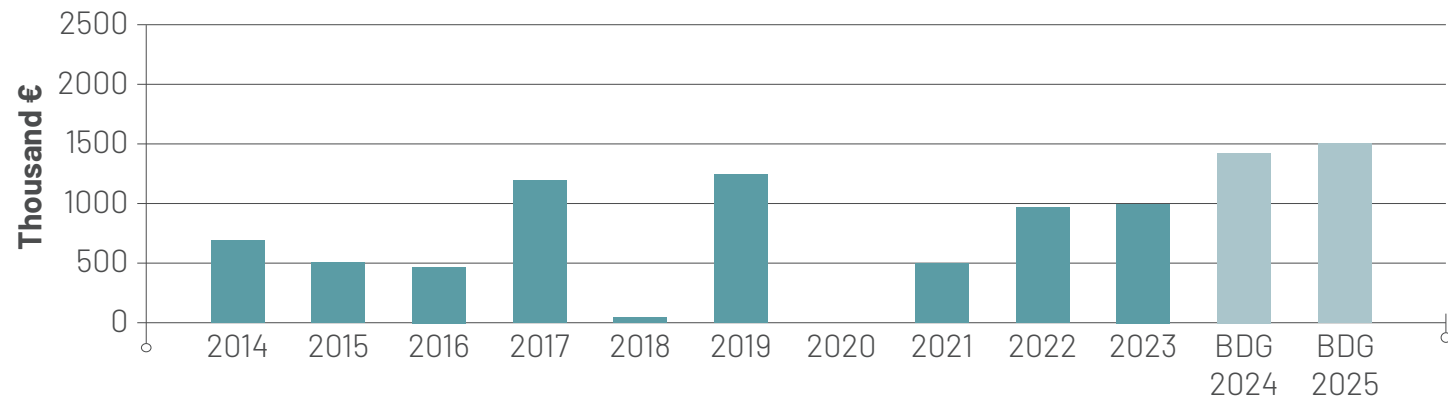
Value
Average

Sound company continuously investing in new technologies and systems:

- Enhancement of IT systems (2014)
- Yamaha YS line with real-time feedback (2015)
- HW/SW integration and consolidation; layout changes (2016)
- Certification IATF 1649 and Accreditation Industry 4.0 (2017)
- Enhancement of capability of SMT dept. (2017)
- Staff training (in progress)
- Warehouse technological upgrade (2018, 2019)
- Implementation of VAC technology in SMT reflowing (2019)
- IT infrastructure upgrading (2018)
- Upgrade of HW & SW infrastructure (2020-21)
- Selective soldering upgrade (2022)
- ICT 8 F.P. (2022-23)
- Certification ISO 14001 (2023)
- Upgrade THT area (2023-24)
- Upgrade SMD area (2024-25)
- Digital Factory 4.0 (2023-24)

2024 - 2025

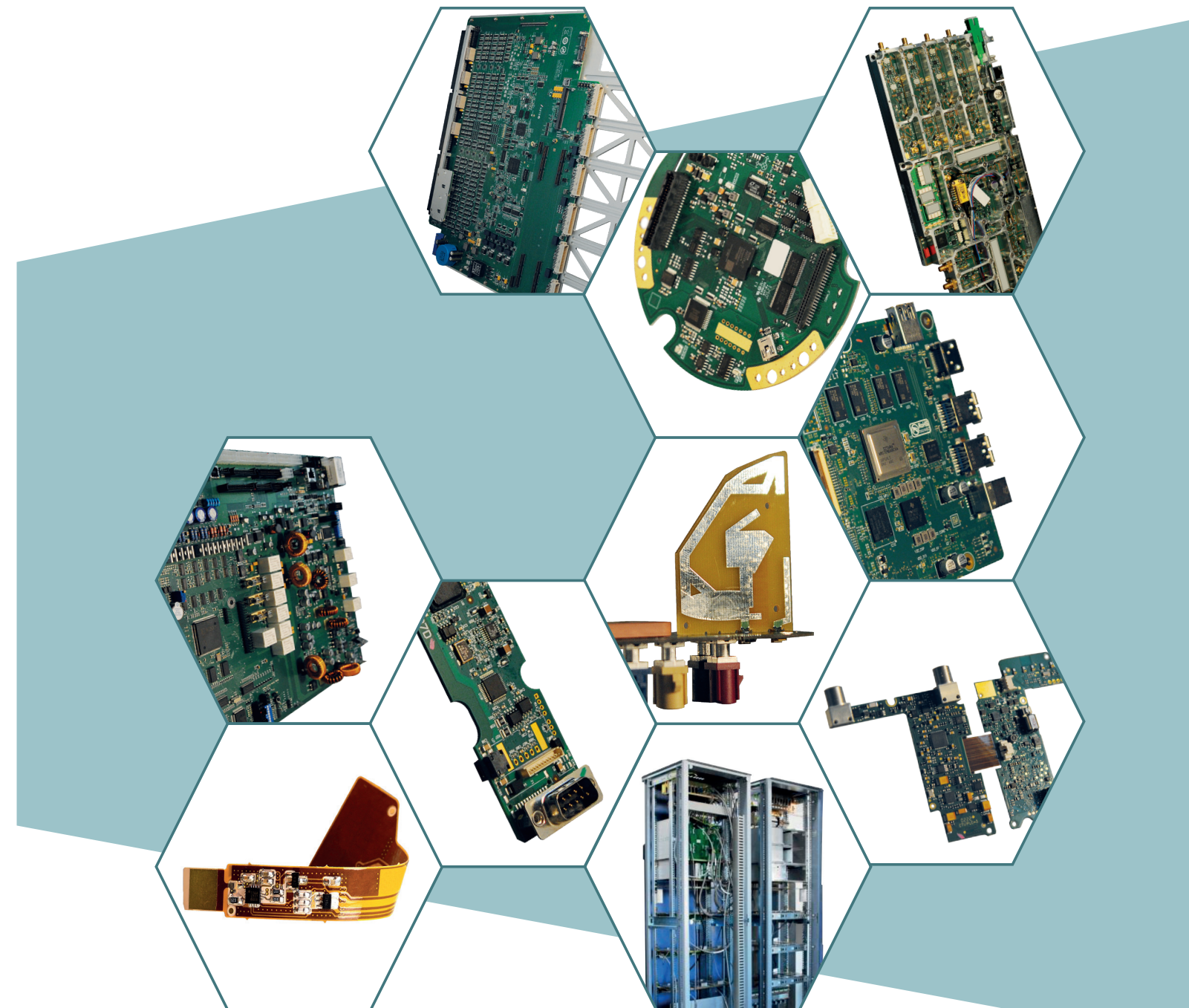
// Investments //



GR Elettronica achieved Prime Company rating from CRIBIS.



- 4G -LTE Base Station, FM/AM/DAB AMPLI, RFID readers and tags
- CPU Embedded
- Flex PCB Assembly
- Railwails System, UPS
- Semiconductor Memory Test (24 layers PCB controlled impedance)
- Digital Radio Frequency Acquisition (16 layers PCB controlled impedance)
- Motor - Control Unit





For our Customer Care



We know how to listen to Customers

We handle production activities on behalf of our Customers in order to achieve and ensure product repeatability and reliability over time.

In addition to production-related services, we also provide our Customers with thorough support in the pre-production and productions stages.

Because we believe in strategic thinking, where every business is still based on human relations as continuously evolving in a VUCA world.

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