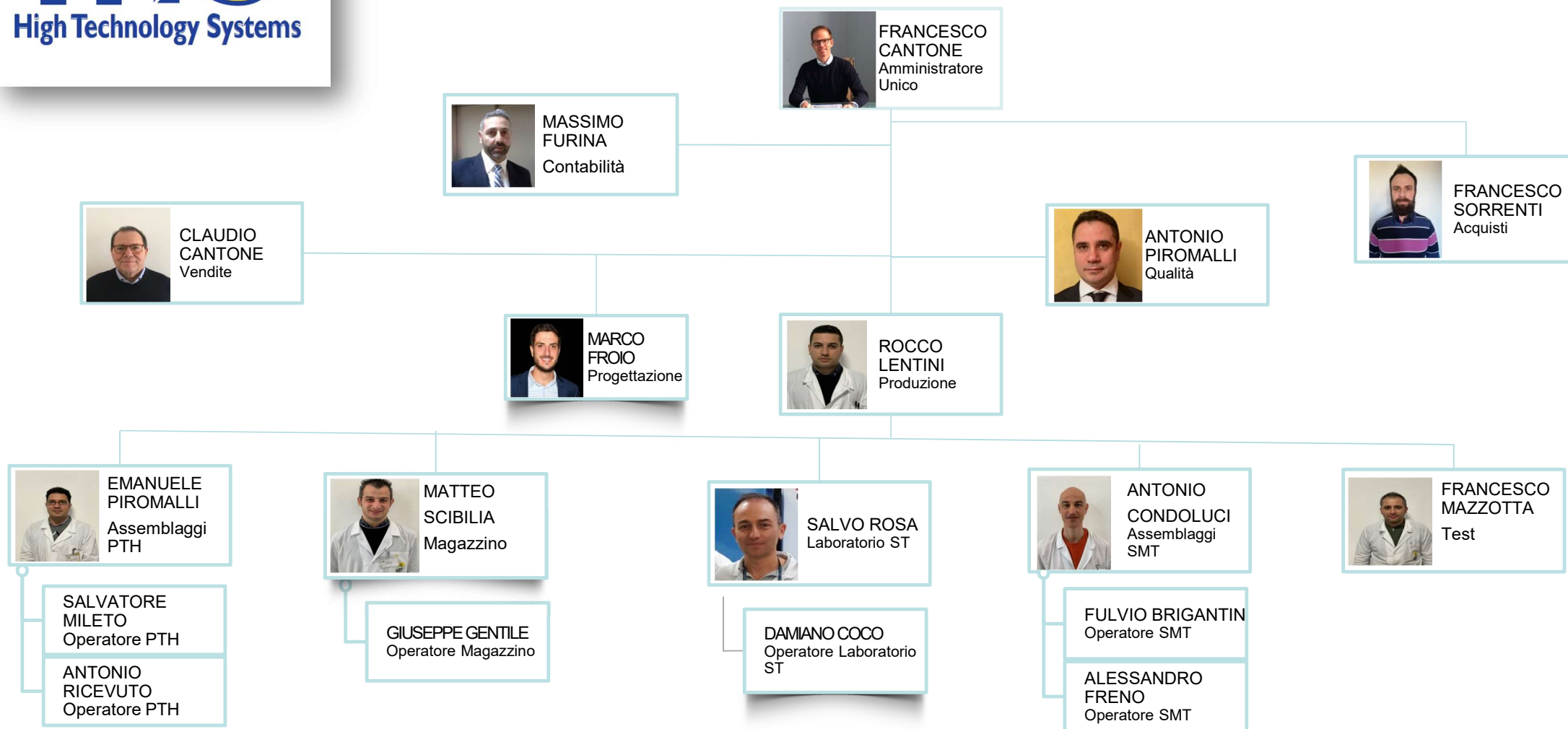




Electronic Manufacturing Services

Organigramma

High Technology Systems HTS Srl



Facilities

Cittanova (RC) Plant

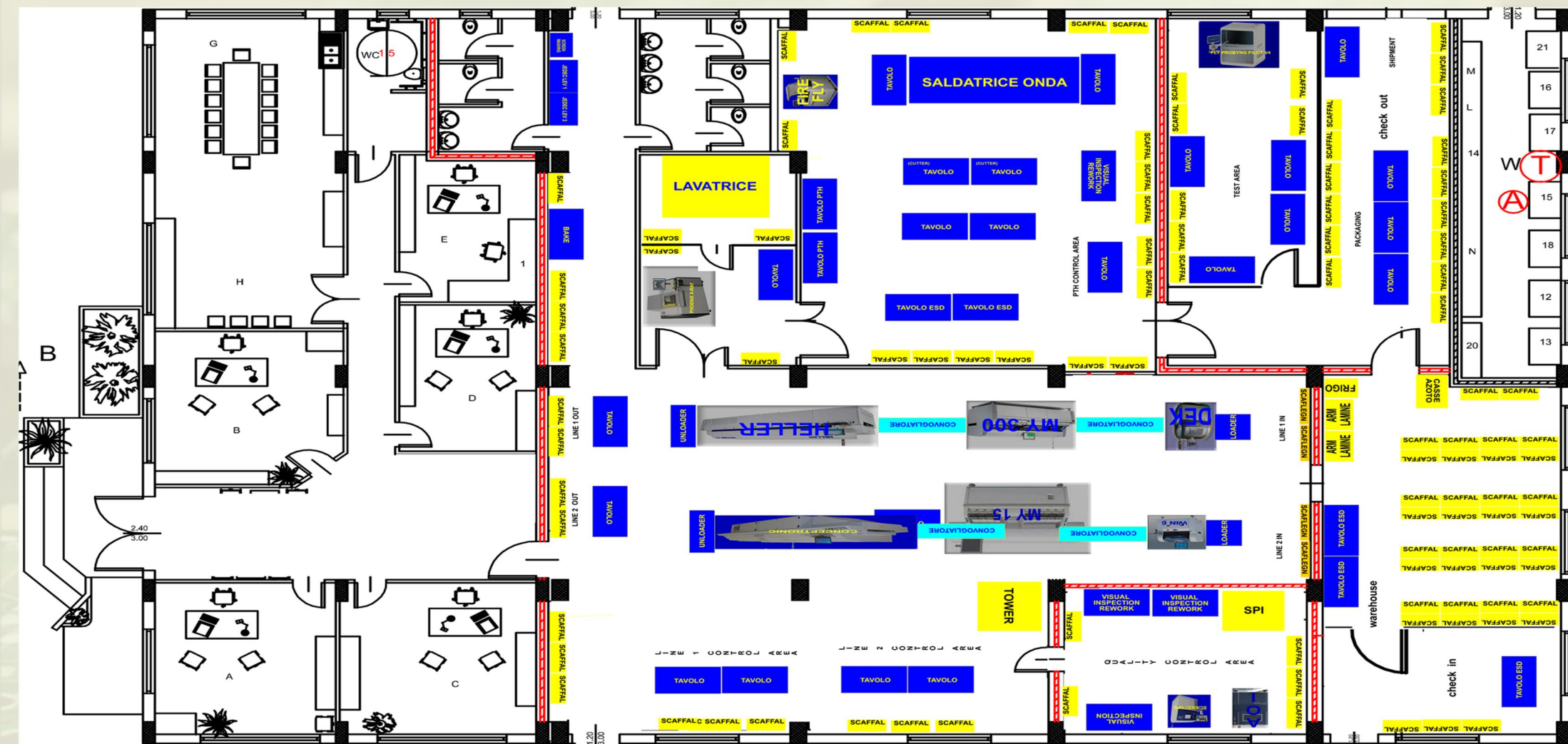
Zona industriale c/da Taccone snc

Area: sqm 2.747

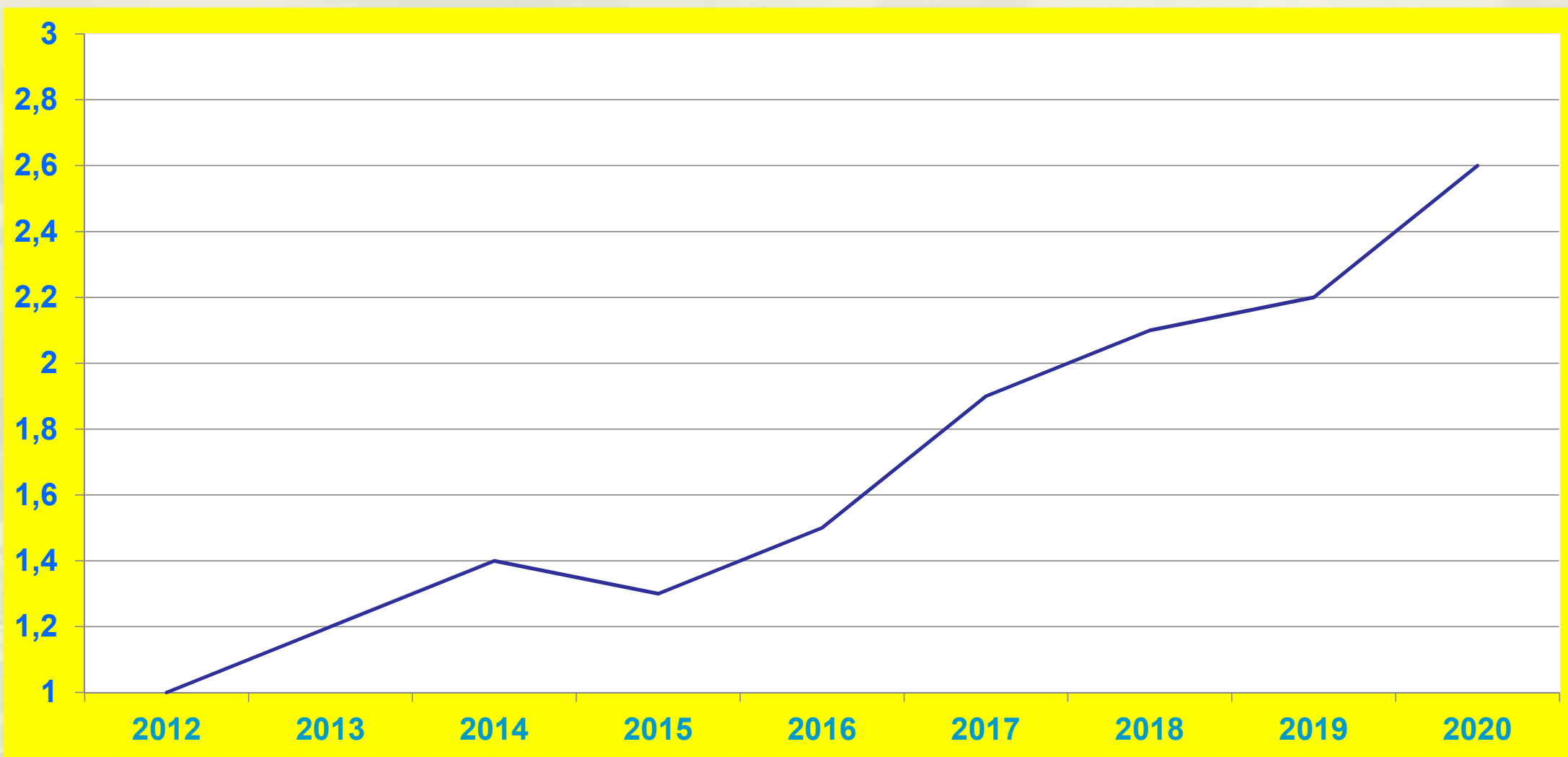
Covered Area: sqm 864

People: 15 (60% university graduated)

Layout Aziendale



Revenue Trend 2012 normalized



Research and Developement

Software Tools



Test Equipments



LINE 1

Capabilities

- Automatic Screen Printing (*Folungwin WIN_6*)



SMT LINE 1

Capabilities

- **PICK & PLACE** (*MYDATA-MY15E*)



Package: from 0201 to 01005, BGA, pitch 03
Assembly capacity: 30k components per hour

SMT LINE 1

Capabilities

Reflow Oven (Conceptronic HVT 120)
16 Closed Loop Heating Zones



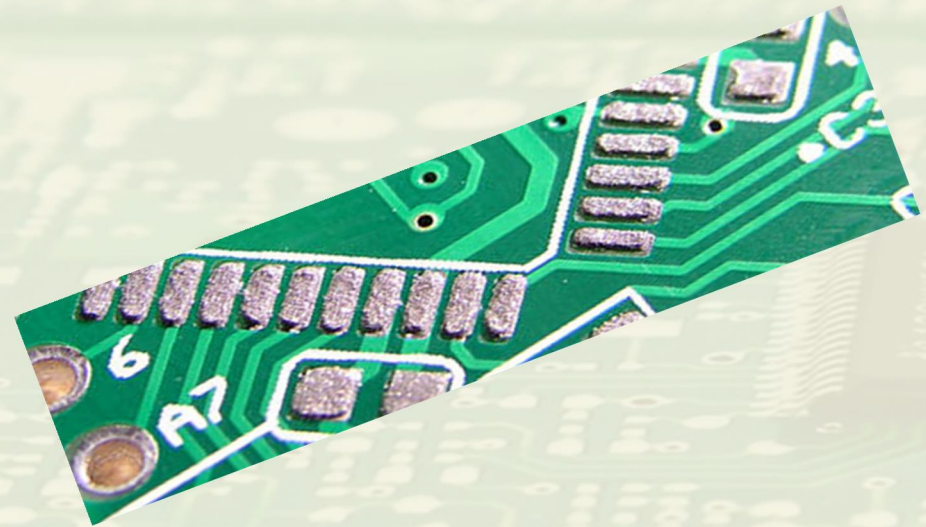
LINE 2

Capabilities

- Automatic Screen Printing (*DEK ELA*)



**Fully Automatic
Optical Centering**



SMT LINE 2

Capabilities

- **PICK & PLACE** (*Micronic MY300*)



**All-in-one
mounter.
Featuring up
to 192
feeder
positions with
a top speed of
16,000
components
per hour**

SMT LINE 2

Capabilities

Reflow Oven (*Heller 1809 EXL*)



precise
temperature
controls

Rapid response
times,

high mix / high volume throughput,

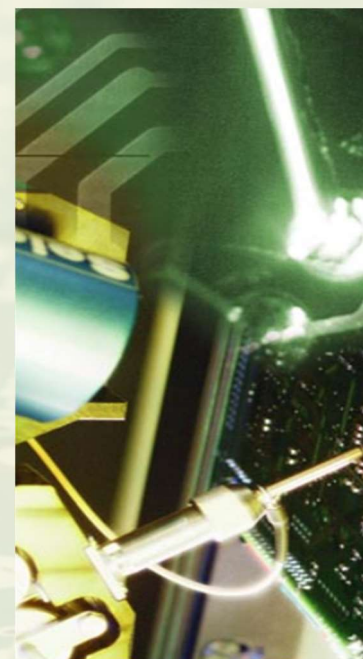
PTH Capabilities

Double Wave Solder (Folungwin FL-MD450)



PTH Capabilities

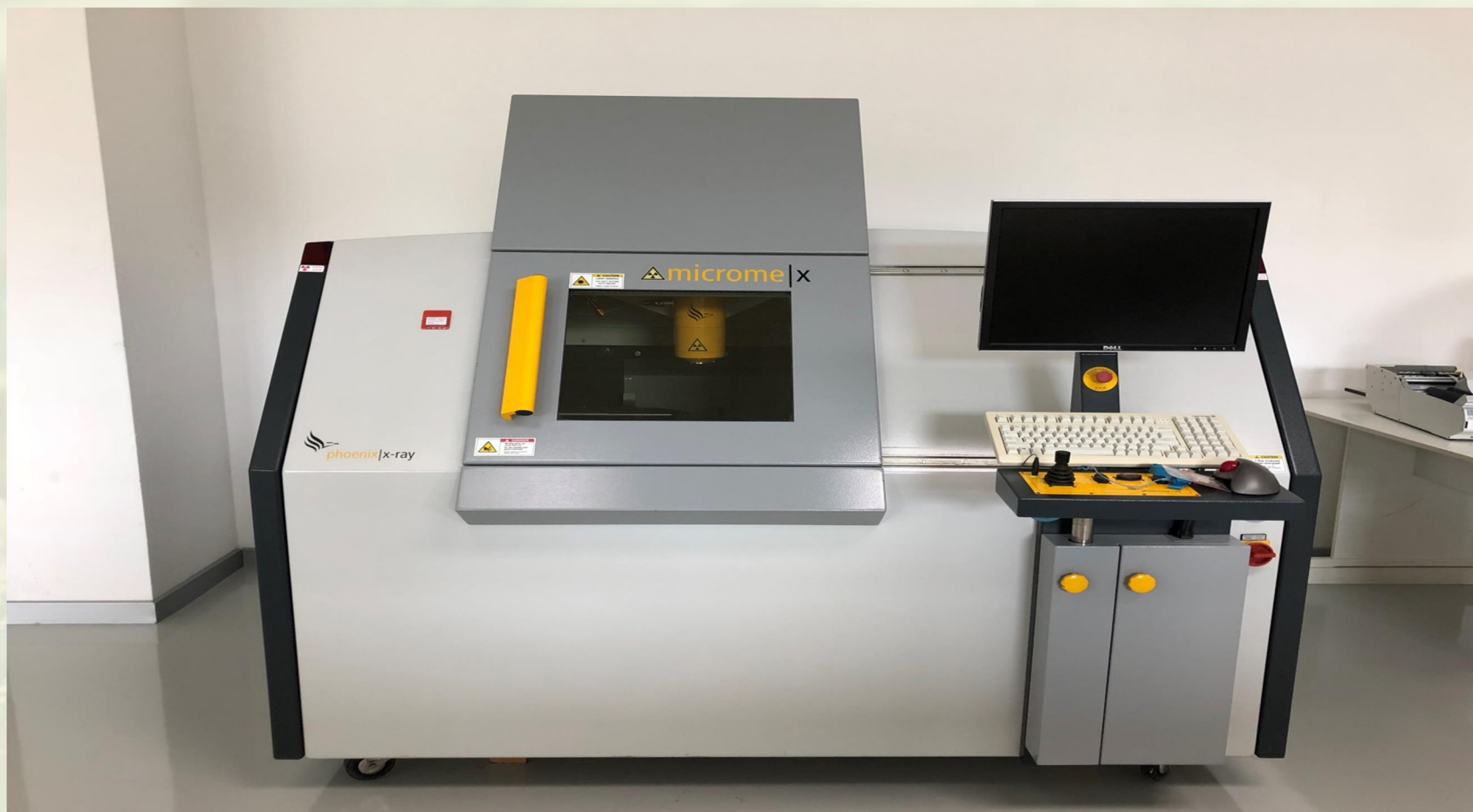
Firefly Laser Selective Welding System



X-Ray Inspection

PHOENIX-XRAY

MICROME|X 160



X-Ray Inspection

ScienceScope 1800



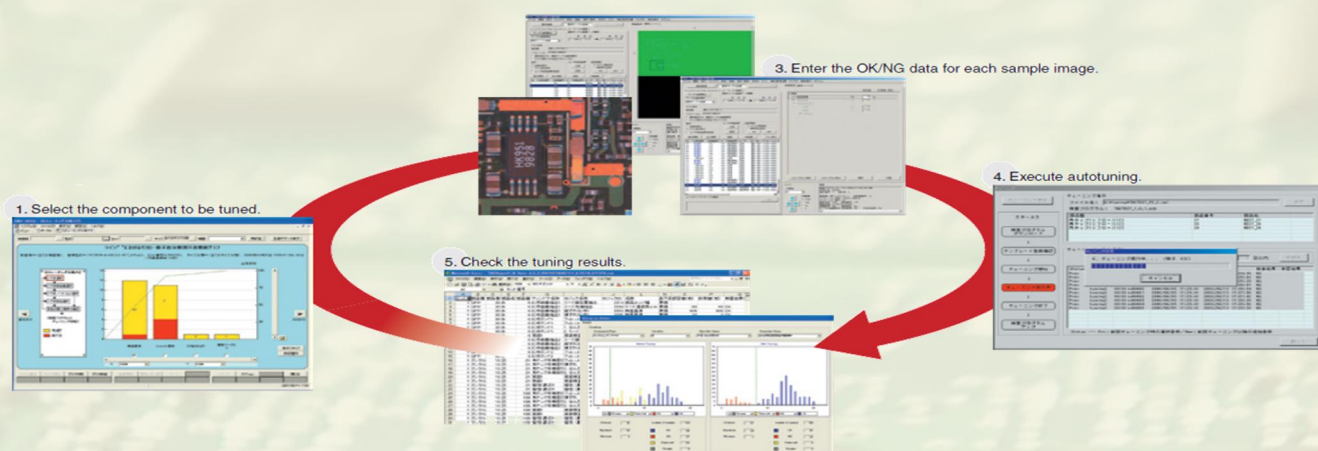
Optical Inspection

N°4 Vision Mantis Stations



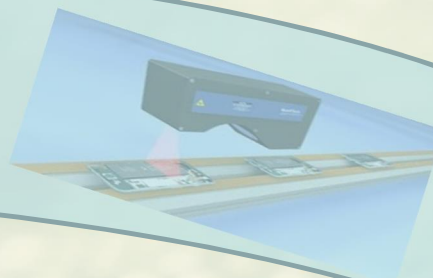
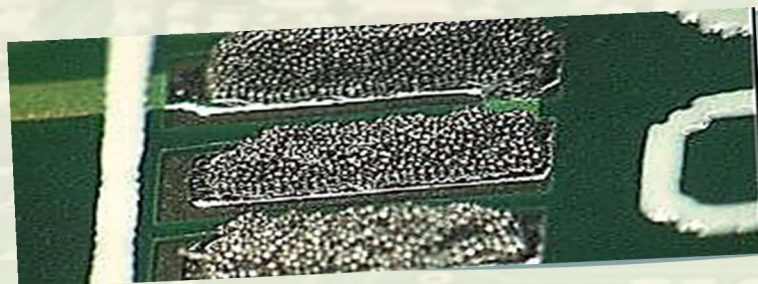
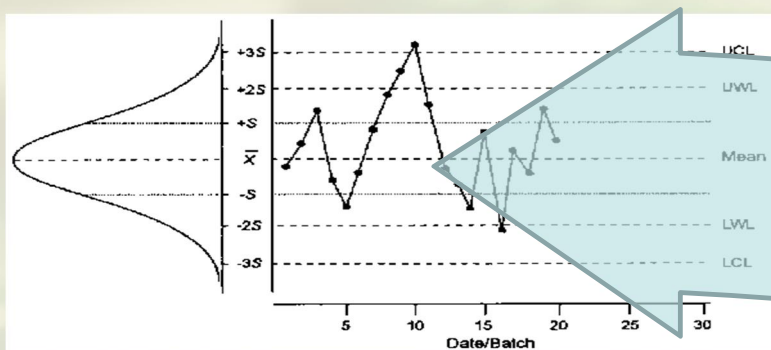
Automatic Optical Inspection

OMRON:VT-RNS-S: High-Precision Camera



Automatic Optical Inspection

Screen Printing Statistical Control



Conformal Coating



Moisture and Oxidation Protection



Nitrogen Inert Atmosphere Reflow



N

Nitrogen Controlled
Atmosphere Storage



Dry
Packaging



Comply with

- **UNI EN ISO 9001:2015**



- **IATF 16949:2016**



- **Equipments and Materials fully RoHS Compliant**

IATF 16949:2016 compliant



Reg. Number	10347 - T	IATF Number	0274898
Issuing date	2017-09-22	Last modification date	2017-09-22
Valid until	2020-09-21		

Quality management system certificate of the Automotive Company

IATF 16949:2016

We certify that the Quality Management System of the Organization:

High Technology Systems HTS S.r.l.

Is in compliance with the standard IATF 16949:2016 for the following products/services:

Assembly of electronic boards in SMT and PTH technologies.

Chief Operating Officer
Giampiero Belcredi

Exclusions: 8.3 related to the product design

This certificate is issued in conformity with the IATF Rules – Fifth Edition.
Maintenance of the certification is subject to annual survey and dependent upon the observance of Kiwa Cermet Italia contractual requirements.

This certificate consists of 1 page.

High Technology Systems HTS S.r.l.
Certified Sites
- Z.I. - Località Taccone, snc 89022 Cittanova (RC) Italy



Kiwa Cermet Italia S.p.A.
Società con socio unico, soggetta
all'attività di direzione e coordinamento
di Kiwa Italia Holding Srl
Via Cadrano, 23
40057 Granarolo dell'Emilia (BO)
Tel +39.051.450.3.111
Fax +39.051.763.382
E-mail: info@kiwacermet.it
www.kiwacermet.it

Certificate

Reg. Number	10347 - T	IATF Number	0274898
Issuing date	2017-09-22	Last modification date	2017-09-22
Valid until	2020-09-21		

Software tools

- **Customer Relationship Management**

- Developed on SugarCRM Platform
- The same system is used by:



- Web Request Management
 - Request Format Filling
 - Automatic e-mailing to defined distribution list
 - Production Steps Check
 - Customer Feedback
 - Inventory Stock Check

Quality Management

Quality Plan

Associated to each production project, the quality manager defines a quality plan concerning all the operations to guarantee the product requested quality.

Piano Di Fabbricazione e Controllo: QP_03_00 - Assemblaggio schede Dual Assembled Layer

Modifica Duplica Elimina Vedi log cambiamenti

Nome: QP_03_00 - Assemblaggio schede Dual Assembled Layer

Descrizione:

Documenti di Riferimento per il Quality Plan

Crea Seleziona

LBL_LIST_DOCUMENT_NAME
QP_03 MO_08_01 - Scheda Tecnica SMT
QP_03 MO_02_00 - CICLO DI CONTROLLO - Assemblaggio non Conforme
QP_03 IO_01_01 - Compilazione del Modulo di misura del DPMO
QP_03 MO_11_01 - Modulo Registrazione Posizionamenti non Conformi
QP_03 MO_06_03 CICLO DI CONTROLLO
QP_03 MO_01_00 - CICLO DI CONTROLLO - Materiale a Scarto
QP_03 MO_10_01 - Misura del DPMO dei Processi Produttivi
QP_03 MO_12_01 - Modulo Registrazione Saldature non Conformi
QP_03 PR_01_00 - Assemblaggio Schede Dual Layer
QP_03 MO_05_00 - Registrazione Reclami dal Cliente

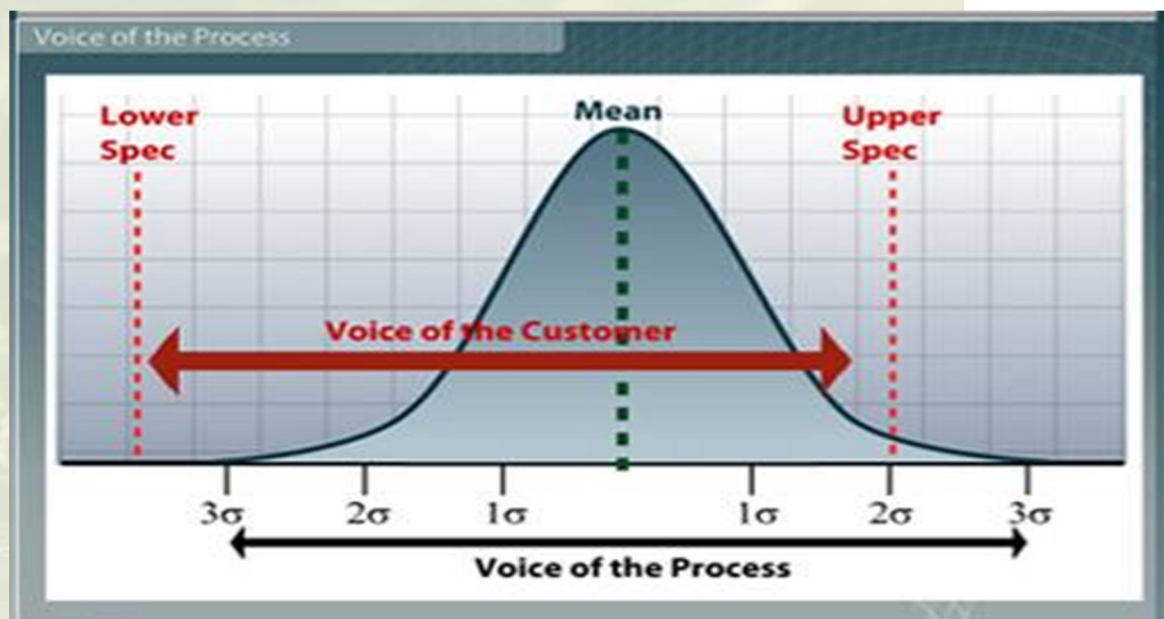
Quality Management

H.T.S. is IPC-A-610D compliant and it follows Lean Six Sigma standards for Statistical Process Control.



ASSOCIATION CONNECTING
ELECTRONICS INDUSTRIES®

IPC-A-610D



Quality Management

H.T.S. uses a CRM software to manage the company's interactions with customers, allowing them to know the status of its production batch and to interact with the manufacturing phases



Corrective actions are defined using tools as "8D Report" process.

Quality Management

Continuous Improvement

- **Internal Audit** → annual pianification of Internal Audit
- **Customers Audit** → essential for Company Improvement

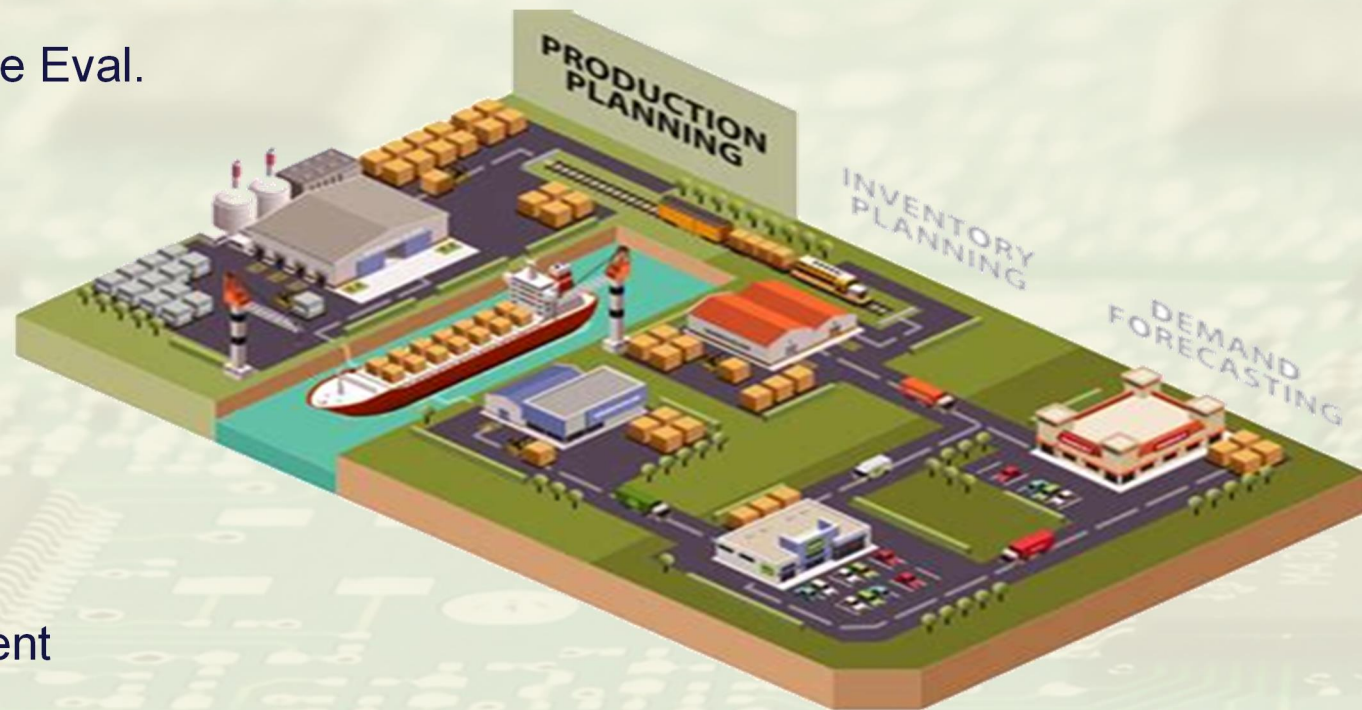


Production Management

MYPLAN MULTI JOB

Production Planning

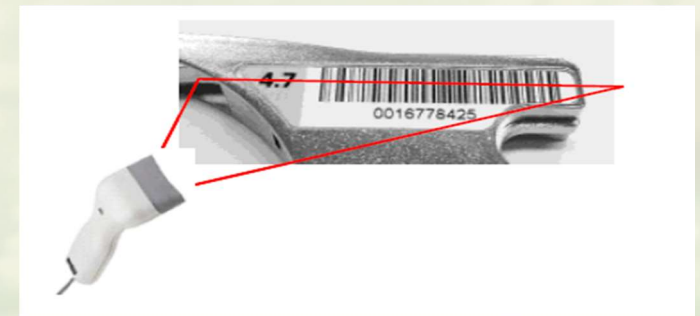
- Takt-Time, Cycle-Time and Lead-Time Eval.
- Production Run Rate
- Delivery Date Scheduling
- Production Scheduling
- Workload Balancing
- Production Data Network Management



Production Management

MATERIAL HANDLING

Raw Material Management and Traceability



Fully Calibrated Metrology Chain

The BIPM, OIML, ILAC, and ISO endorse the following recommendations:

- in order to be able to rely on their international acceptability, calibrations should be performed
 - in National Metrology Institutes who should normally be signatories to the CIPM MRA³ and have CMCs published in the relevant areas of the KCDB⁴ or
 - in laboratories accredited by accreditation bodies which are signatories to the ILAC Arrangement⁵;
- measurement uncertainty should follow the principles established in the GUM;
- the results of the measurements made in accredited laboratories should be traceable to the SI²;
- NMIs providing traceability for accredited laboratories should normally be signatories to the CIPM MRA and have CMCs published in the relevant areas of the KCDB;
- within the OIML's MAA, accreditation should be provided by bodies which are signatories to the ILAC Arrangement and the above policies on traceability to the SI should be followed;

Director of the BIPM
Michael Kühne



Chair of ILAC
Peter Unger



Director of the OIML
Stephen Patoray



Secretary General of ISO
Robert Steele



VISION

HTS BECOMES THE BEST ELECTRONICS SERVICES PROVIDER
FOR THE CUSTOMERS

MISSION

HTS PROVIDES A RANGE OF ELECTRONIC PRODUCTION SERVICES
SO THAT ITS CUSTOMERS CAN FOCUS ON THEIR MAIN ACTIVITIES
AND GROW THEIR BUSINESSES



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Thank You