pluritec® GROUP

Made in Italy

pluritec®

MACHINES FOR PRINTED CIRCUIT BOARDS

COMPANY PRESENTATION

MaurizioBonati

❖ ORIGINALLY FOUNDED IN 1968 PRIVATELY OWNED

❖ 90 EMPLOYEES WORLDWIDE

❖ 3 MANUFACTURING LOCATIONS IN ITALY

❖ GLOBAL FOORPRINT WITH DIRECT SALES AND SERVICE AND STOCK OF SPARE PARTS IN; USA , ASIA AND EUROPE

❖ > 3,000 WORKING SYSTEMS INSTALLED WORLDWIDE

❖ EXPORT 90% OF TOTAL SALES

❖ ISO9001 - VISION CERTIFIED

COMPANY OVERVIEW

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PLURITEC'S SPECIALIZED DIVISIONS FOR PCB MANUFACTURING

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DRILLING | ROUTING | X-RAY | AUTOMATION

Mechanical drilling and routing | X-ray tooling holes optimizer | X-Ray measuring machines and final quality check | Automation systems for panel handling | PCBA Routing | Metal Credit card manufacturing solutions

ISS INTERNATIONAL SUPPLIES powered by Occleppo

WET PROCESSING | SURFACE PREPARATION | FINISHING | RESIST LINES

Brushing | Jet scrubbing | Micro etching | Developing | Etching | Stripping | Washing | Drying | Automation | Panel handling | Buffers | Metal etching | Glass

ECOspray SYSTEM

SPRAY COATING | PRE AND FINAL CURE OVENS

Spray coating systems | Oven for pre and final cure | Automation | Loading unloading devices

PRODUCT'S DEDICATED DIVISION

VIA CANDOSSINO 6 - BUROLO (TO) – ITALY	VIA BREDA 38 - BUROLO (TO) – ITALY	VIA MORENA 4 - GOZZANO (NO) – ITALY
3,500 mq / 38,000 sq/f	2,000 mq / 21,000 sq/f	2,500 mq / 27,000 sq/f
Mechanical machines	Wet / Processing line	Spray / parts workshop

MANUFACTURING LOCATIONS

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PLURITEC ITALY
Corporate
DESIGN / MANUFACTURING

PLURITEC NORTH AMERICA	PLURITEC ASIA	PLURITEC FRANCE	K-TEC
SALES / SERVICE/SPARE PARTS	SALES / SERVICE/SPARE PARTS	SALES / SERVICE/SPARE PARTS	ASSEMBLY / WORKSHOP
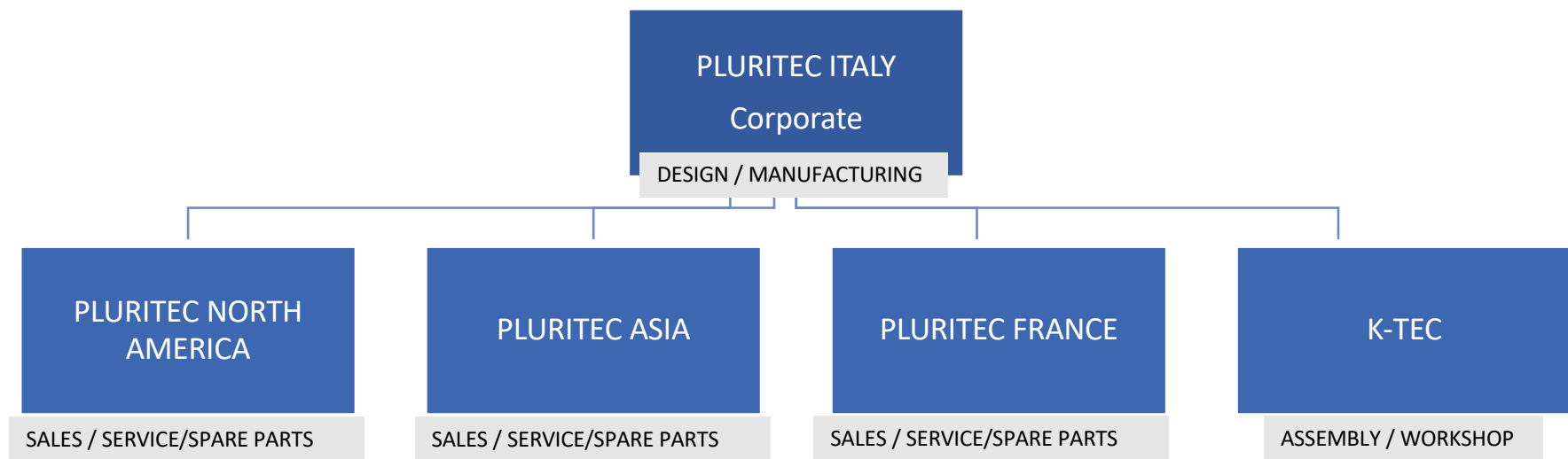
CORPORATE

PLURITEC SALES AND SERVICE ORGANIZATION

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>500 SYSTEMS

>500

>1500

>20
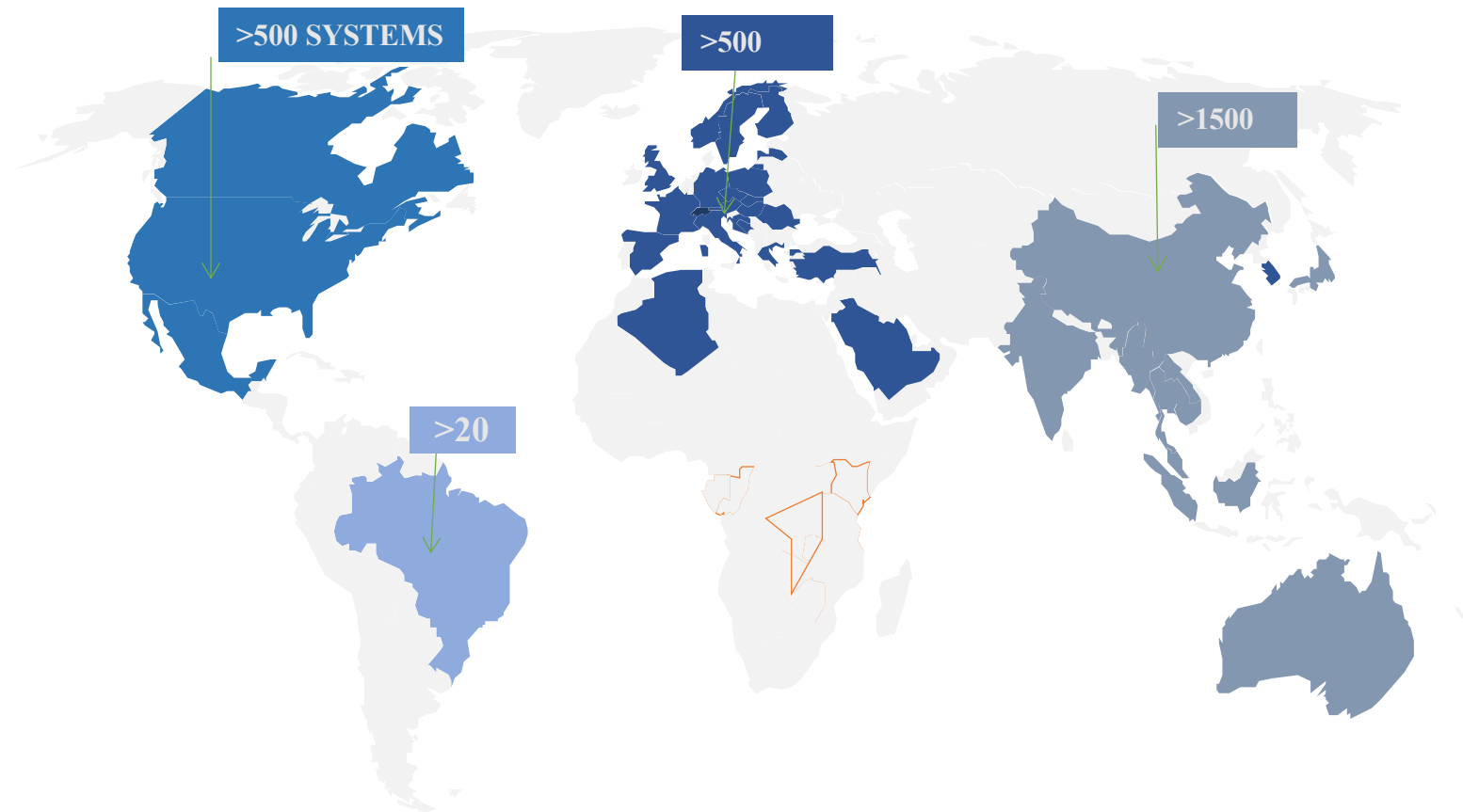
INSTALLATION REACH

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SES OR DES LINES

ETCHERS ACID

ETCHERS ALKALINE

MECETCHBOND

TIN STRIP

CHEM CLEAN AND SURFACE PREP

SOLDER MASK DEVELOPER

DEBUR AND SCRUB

ROLL TO ROLL 1 MIL PROCESS

WET PROCESS LINE-UP

POST HAL

PRE HAL
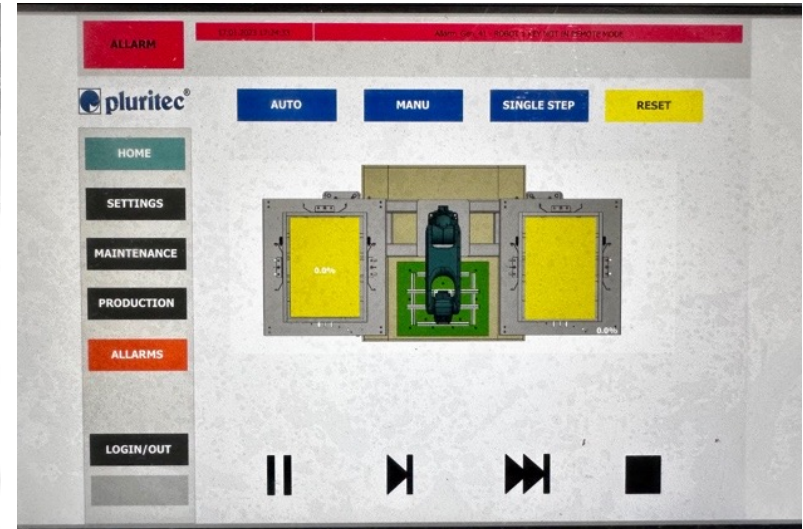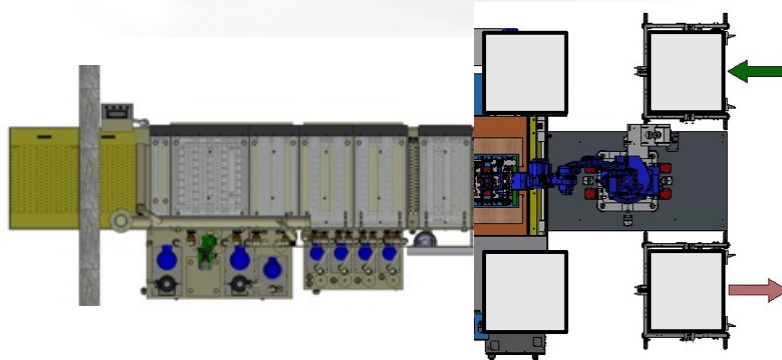
MICROETCH

CHEM CLEAN

WET PROCESS LINE-UP

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DURAPREP

DES WITH FERRIC CHLORIDE ETCHER

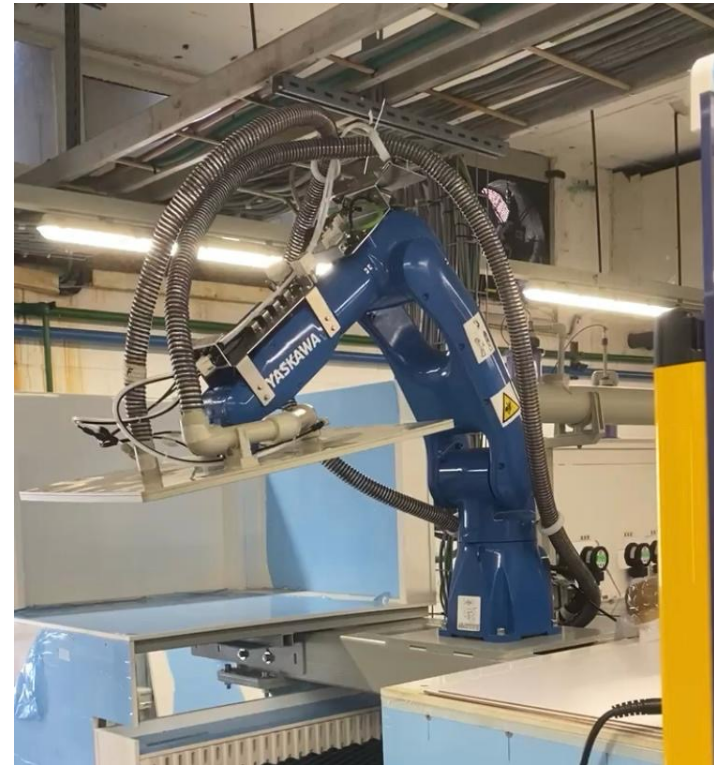**PUMIFLEX**

CHEMICAL MILLING LINES

WET PROCESS AUTO LOAD UNLOAD

ULTRA THIN MATERIAL HANDLING

pluritec® GROUP — *Made in Italy* — ECOspray SYSTEM

AUTOMATIC DOUBLE SIDE SPRAY COATING LINE

MANUAL DOUBLE SIDE SPRAY COATING UNIT

TACK OVEN

FINAL CURE OVEN

BUFFER BELT

BUFFER 20/40/80

UV OVEN

SPRAY COATING AND OVENS
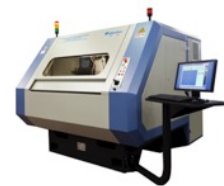
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| INSPECTA COMBO | INSPECTA S1 -TWIN | INSPECTA SX | X-MEASURE | X-VISION |

Model: INSPECTA COMBO | Driller | Router | Real time X-Ray targets detection
Multiple machines in one - X-Ray optimizer | Drilling | Routing | Quality control | Measuring | Multiple patterns optimization | Complete data analysis software | Traceability
Available with:
❑ Additional CCD Camera for vision drilling and routing
❑ Depth controlled drilling/routing
❑ Surface mapping, back drilling, pocket routing
❑ Panel code marker – Code reading (inner | outer layers)

Model: INSPECTA S1 | X-Ray Optimizer for multiple
X-Ray optimizer | Quality control | Measuring | Multiple patterns optimization
Complete data analysis software | Traceability | 2D code reading | panel marking
Dedicated registration for individual areas - Fexible configuration – Large working area
Available with:
❑ Back unloader – Left to right loading unloading with trolley
❑ Panel code marker – Code reading (inner | outer layers)

Model: INSPECTA SX | X-Ray Optimizer for tooling holes
X-Ray optimizer | inspection | Measuring
Complete data analysis software | Traceability | 2D code reading | Panel marking
Available with:
❑ **Anthropomorphic** robot for automatic panel loading unloading
❑ X-Ray pre-alignment system for panels with flash
❑ Dedicated in line marking station for improved output
❑ Back unloader – Left to right loading unloading with trolley
❑ Panel code marker – Code reading (inner | outer layers)

Model: X-MEASURE | X-Ray Coordinate Measuring machine
X-Ray inspection | quality control | measuring | Complete data analysis software | traceability | 2D code reading | panel marking
Available with:
❑ Dedicated in line marking station for improved output
❑ Back unloader – Left to right loading unloading with trolley
❑ Panel code marker – Code reading (inner | outer layers)

Model: X-VISION | X-Ray quality control machine
X-Ray inspection | quality control | measuring | Complete data analysis software | traceability | 2D code reading | panel marking
❑ Manual Xray viewing system

PLURITEC X-RAY SYSTEMS

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MULTISTATION EVO   C1 / C2 /C3   D2 / D2iX   D6 / D6iX

Model: MULTISTATION EVO | Micro Drilling | Precision Routing
- ❑ **1 station** - Single head - 1 spindle Driller or Router
- ❑ 1 Station – Single head – 2 spindles Drill and Rout Spindles
- ❑ Multi station integration for up to 8 Cells per block
- ❑ 18 Slot Automation at 24x30" Panels
- ❑ XL Extended Table offers 24.8x36" flexibility

Model: C | Micro Drilling | Precision Routing
- ❑ **1-2-3 stations -** Flexible configuration with large format
- ❑ 1 Spindle large format 32" x 55" Panels
- ❑ 2 Spindle (digital link) offer 2 EA 25" x 30" (unlinked) 31" x 41"
- ❑ 2 Spindle Automated offers 2 EA 25" x 30 with 36 Available loading slots
- ❑ 3 Spindle offers 3 EA 18" x 24" (Hardware Link Z)

Model: D2 - D2ix | Micro Drilling | Precision Routing 2 stations - D2ix with dedicated vision registration for each station
- ❑ 200K Spindles, 210 tools and FULL independent XY&Z movement
- ❑ CCD Camera at each spindle for Independent Alignment and scaling
- ❑ 2D/Bar code reader
- ❑ Automatic panel loading unloading
- ❑ Max panel size 22.4x 27.0"

Model: D6 - D6ix | Micro Drilling | Precision Routing 6 stations – D6ix with dedicated vision registration for each station
- ❑ 200K Spindles, 210 tools and FULL independent XY&Z movement
- ❑ CCD Camera at each spindle for Independent Alignment and scaling
- ❑ 2D/Bar code reader
- ❑ Automatic panel loading unloading
- ❑ Max panel size 22.4» x 27»

MECHANICAL DRILLING ROUTING

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LOADING UNLOADING SYSTEM

SINGLE | DOUBLE 18 POSITIONS
PANEL LOADING UNLOADING

ROBOT LOADER | UNLOADER

IN LINE LOADING
BUFFER

AUTOMATION

DRILLING | ROUTING UP TO 50X110"

X-RAY DRILLING | ROUTING UP TO
50X118"

LARGE FORMATS

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THANK YOU

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