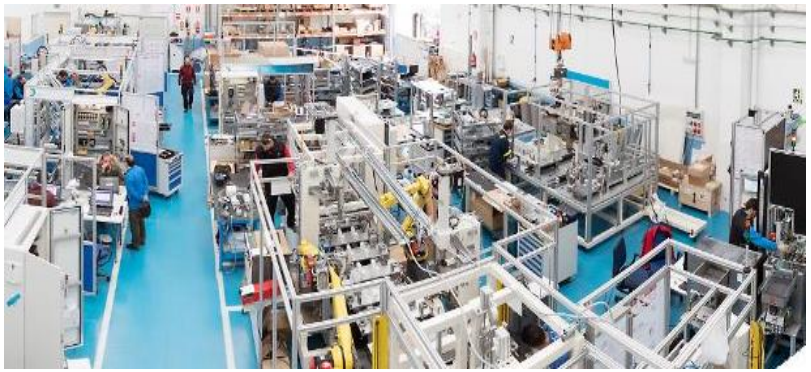
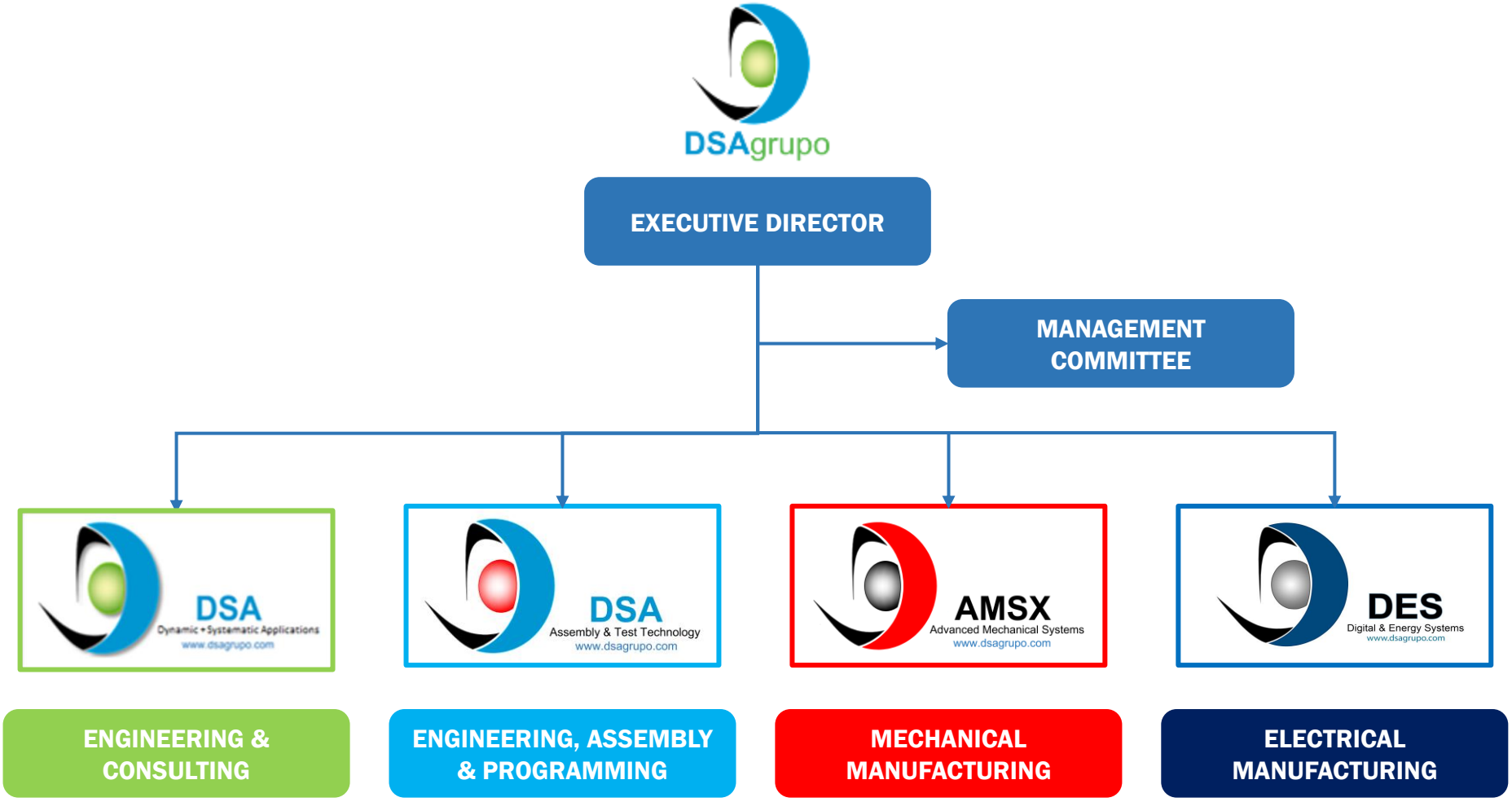
DSAgrupo



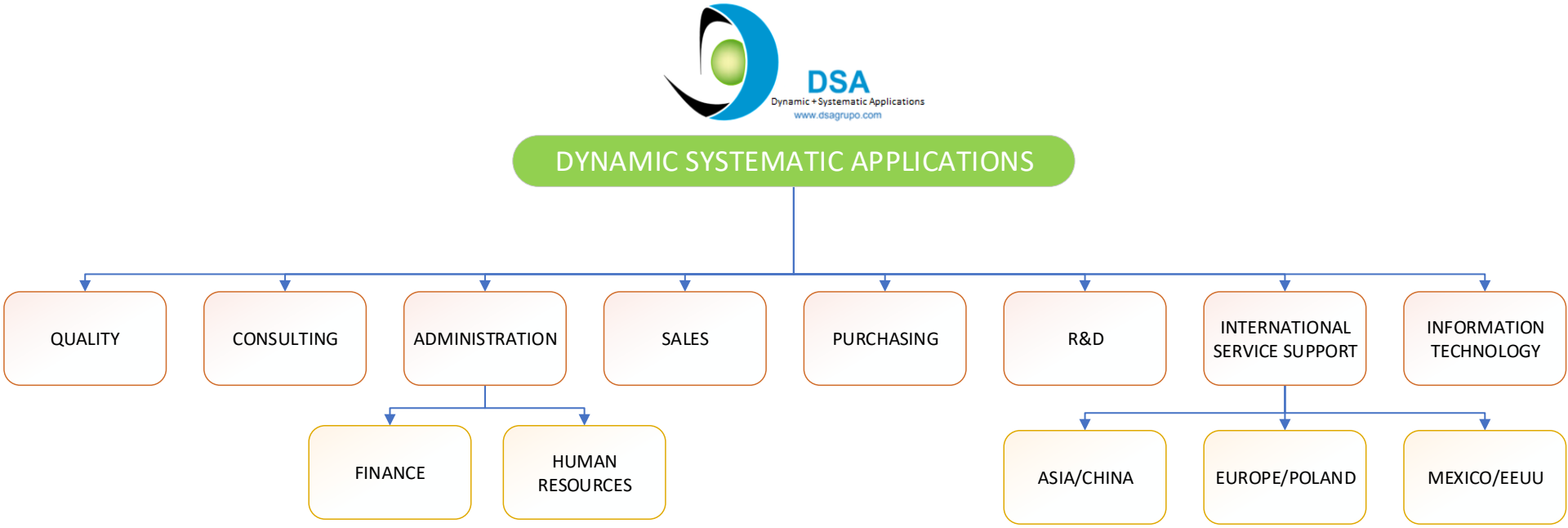
DSAgrupo

ORGANIZATION



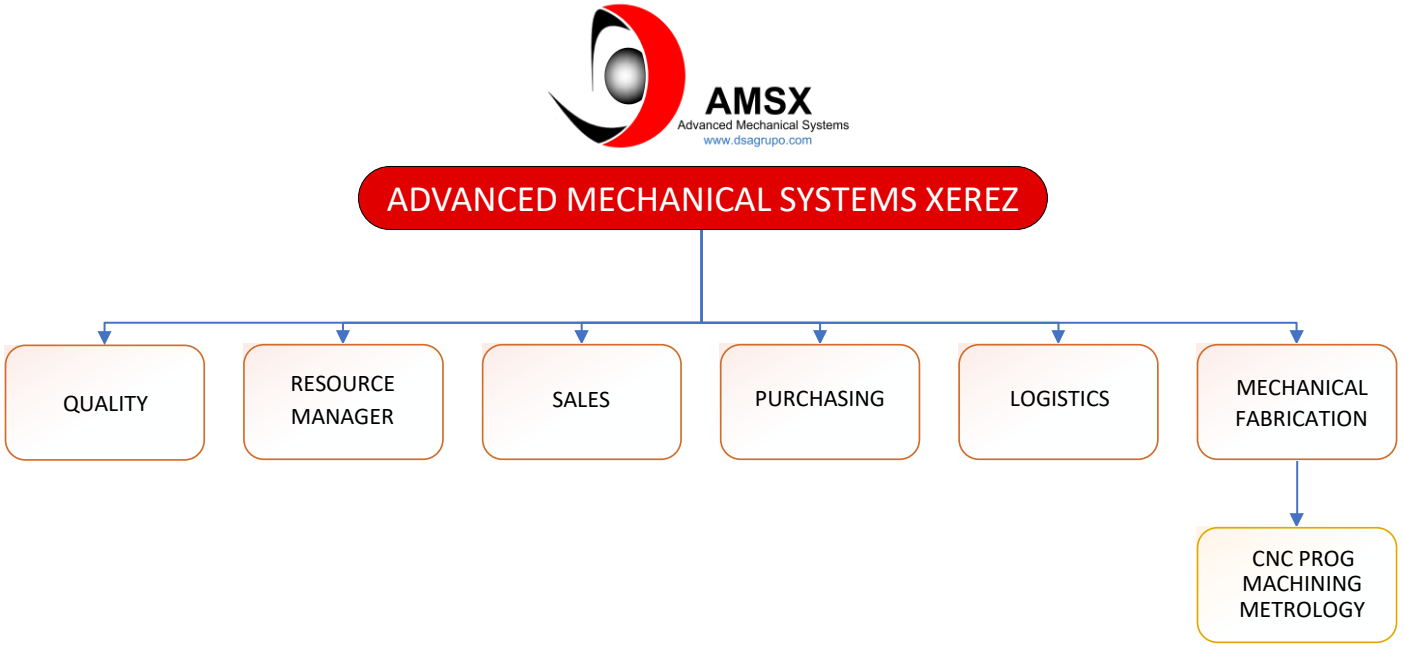
DSAgrupo

ORGANIZATION



ORGANIZATION

ORGANIZATION



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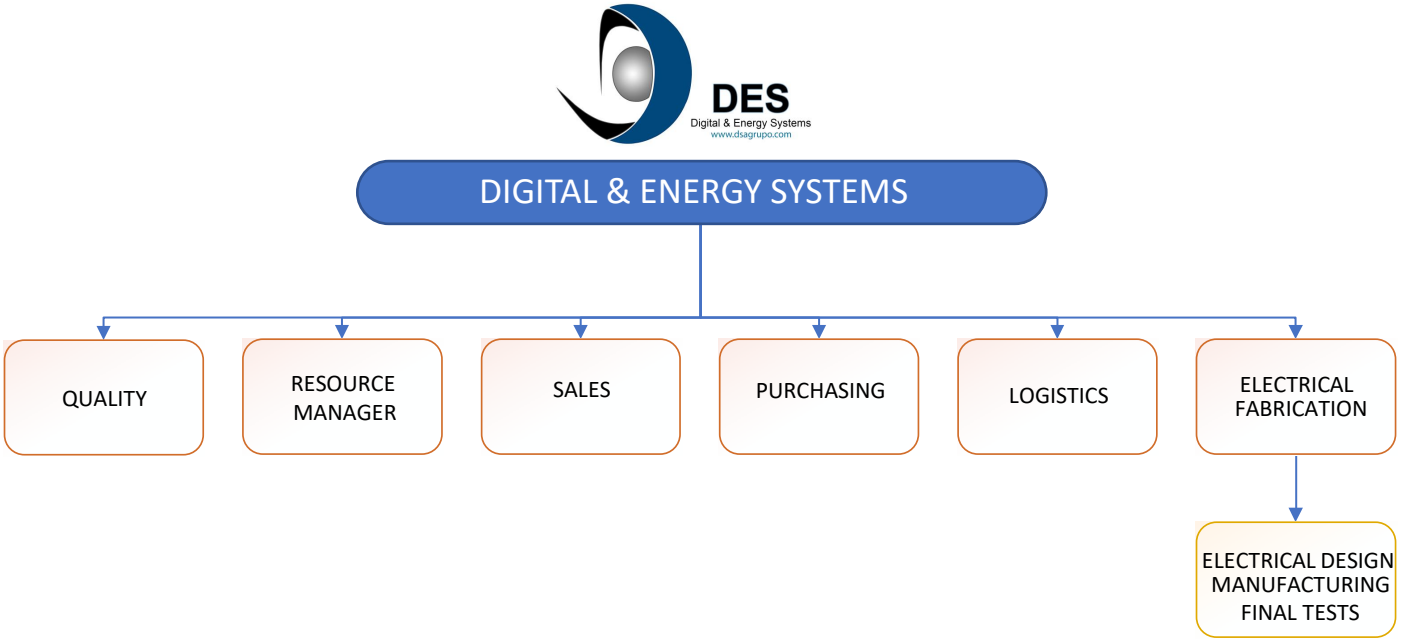

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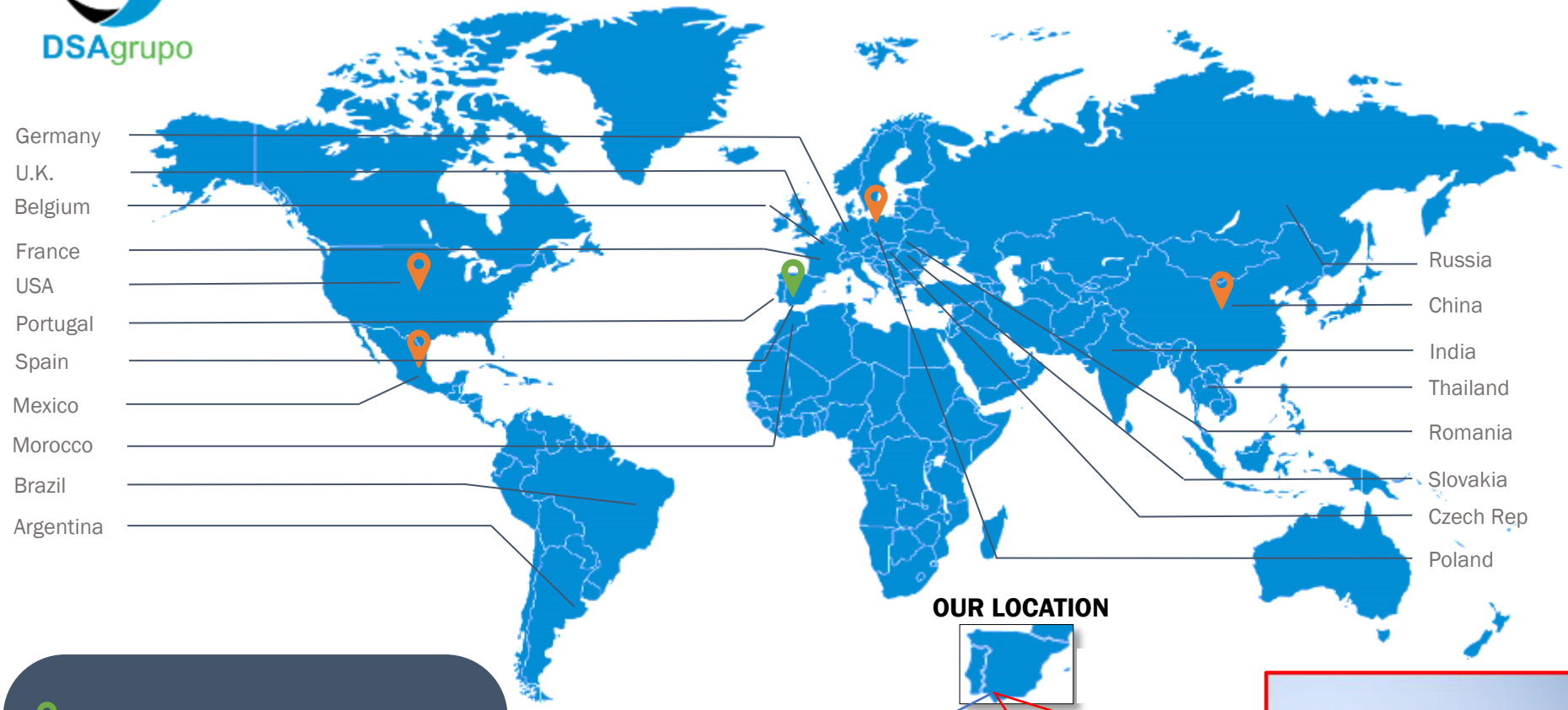


OUR LOCATION

- Head Offices – Jerez (Spain)
- Service Offices – China – Shanghai

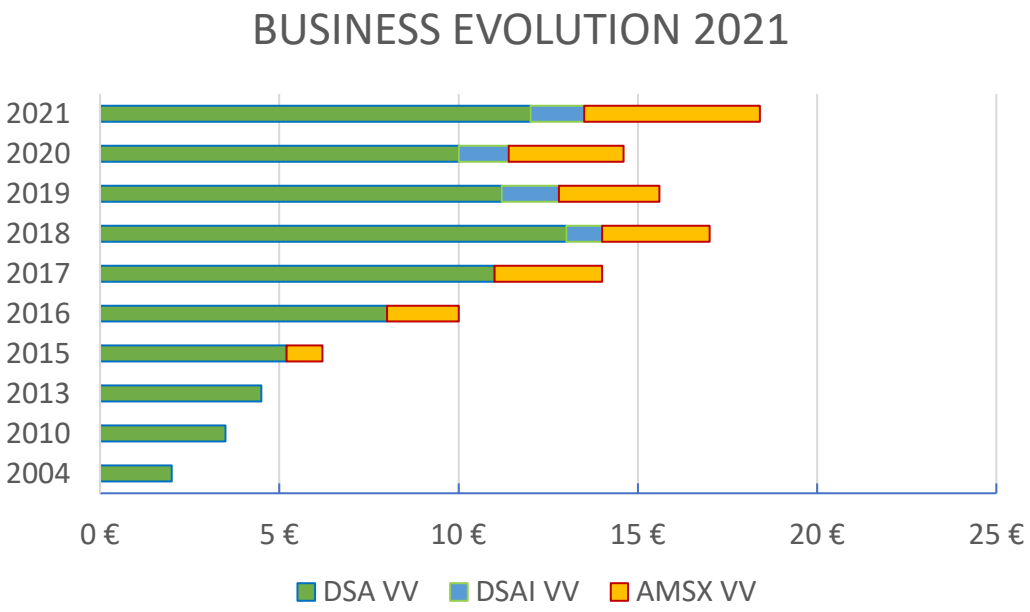
- Collaborating Partners located in:
  - Mexico – Juarez – Queretaro
  - Poland – Blonie – Krakow
  - USA – Michigan
  - Morocco – Kenitra - Tanger

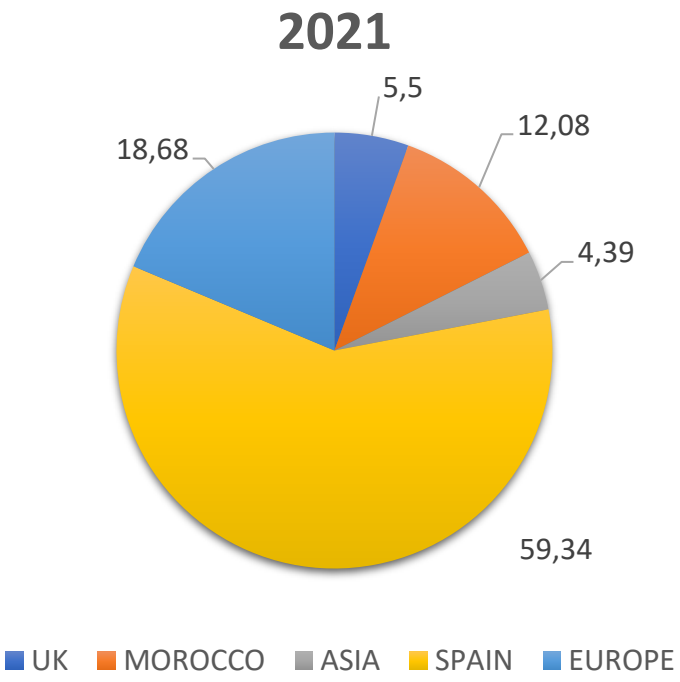
DSAgrupo

MAIN CUSTOMERS

AUTOMOTIVE SECTOR 80%	MEDICAL SECTOR 5%	ELECTRONIC SECTOR 10 %	TEXTIL SECTOR 5%
RENAULT	BD	Metallisation thermal spray solutions	Jeanologia
BorgWarner Delphi Technologies	alesia quantum	TDK	
nexteer AUTOMOTIVE	NORUCO HAVE A LOOK INSIDE		
GRUPO ANTOLIN			
ZF TRW			

IN NUMBERS


BUSINESS EVOLUTION 2021
2021
2020
2019
2018
2017
2016
2015
2013
2010
2004
0 €
5 €
10 €
15 €
20 €
25 €
DSA VV
DSAI VV
AMSX VV


2021
5,5
12,08
4,39
59,34
18,68
UK
MOROCCO
ASIA
SPAIN
EUROPE

DSA GROUP STAFF

DSA GROUP STAFF (2021)	STAFF PERMANENT DSA	STAFF PERMANENT AMSX	SUB CONTR.	AVERAGE. YEARS EXPERIENCE
Project Managers	6	1		15
Mechanical Designers	15		7	13
Electrical Designers	2	1		14
Fabrication		22		20
Purchasing/Receiving	3	1	2	15
Mechanical Assembly	11	7	10	13
Electrical Assembly	5	14	8	18
Finances	3	2		18
Programmers	13	2	5	10
TI	5			15
Sales Department	6	2		18
TOTAL	*69*	*52*	*32*	

DSAgrupo

QUALITY

Certificado ES16/20049

DSA GROUP
DESARROLLO DE SISTEMAS AVANZADOS, S.L.,
ADVANCED MECHANICAL SYSTEMS XEREZ, S.L.,
DYNAMIC SYSTEMATIC APPLICATIONS, S.L.

Parque Tecnológico Agroindustrial
Avda. del Desarrollo Tecnológico, 13
11591 Guadalcacín - Jerez de la Frontera (Cádiz)

ISO 9001:2015

Diseño y fabricación de maquinaria especial y utillaje.
Diseño y fabricación de paneles eléctricos.
Consultoría de procesos e industrialización.
Mecanizado de piezas.

DSA, S.L. Parque Tecnológico Agroindustrial Avda. del Desarrollo Tecnológico, 13 11591 Guadalcacín - Jerez de la Frontera (Cádiz)
AMSX, S.L. Parque Empresarial, C/ Newton 11 - 11407 Jerez de la Frontera (Cádiz)
DYSA, S.L. Parque Empresarial, C/ Newton 11 - 11407 Jerez de la Frontera (Cádiz)

Este certificado es válido desde
16 de junio de 2019 hasta 16 de junio de 2022.
Edición 3. Organización certificada desde febrero de 2005.
Certificada con SGS desde 17 de mayo de 2016.

SGS INTERNATIONAL CERTIFICATION SERVICES IBERICA, S.A.U.

Página 1 de 1

ISO 9001:2015
Quality Management System

Certificado ES16/20093

DSA GROUP
DESARROLLO DE SISTEMAS AVANZADOS, S.L.,
ADVANCED MECHANICAL SYSTEMS XEREZ, S.L.,
DYNAMIC SYSTEMATIC APPLICATIONS, S.L.

Parque Tecnológico Agroindustrial
Avda. del Desarrollo Tecnológico, 13
11591 Guadalcacín - Jerez de la Frontera (Cádiz)

ISO 14001:2015

Diseño y fabricación de maquinaria especial y utillaje.
Diseño y fabricación de paneles eléctricos.
Consultoría de procesos e industrialización.
Mecanizado de piezas.

DSA, S.L.: Parque Tecnológico Agroindustrial, Avda. del Desarrollo Tecnológico, 13 11591 Guadalcacín - Jerez de la Frontera (Cádiz)
AMSX, S.L.: Parque Empresarial, C/ Newton 11 - 11407 Jerez de la Frontera (Cádiz)
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SGS INTERNATIONAL CERTIFICATION SERVICES IBERICA, S.A.U.

Página 1 de 1

ISO 14001:2015
Environment Management System

Certificate ES17/22261/UAE

ADVANCED MECHANICAL SYSTEMS XEREZ, S.L.

Parque Empresarial, C/ Newton 11
11407 Jerez de la Frontera (Cádiz)

prEN 9100:2016

Machining of parts for the aerospace sector.

Parque Empresarial, C/ Newton 11 - 11407 Jerez de la Frontera (Cádiz)

Type of Structure: Single Site

This certificate is valid from
19 September 2017 (Issue Date) until 18 September 2020 (Expiry Date)
Issue 1.

UNE-EN 9100:2018
Quality Management System in Aeronautic

DSAgrupo

OUR PARTNERS

FESTO System Partner

Schneider Electric

ABB Robotics AUTHORIZED Partner

Rockwell Automation PartnerNetwork™

KUKA OFFICIAL SYSTEM PARTNER

FANUC Robotics AUTHORIZED INTEGRATOR

OMRON AUTOMATION & SAFETY

Solution Partner Automation SIEMENS

PARTNER SYSTEM INTEGRATOR PSI COGNEX

UL CE Ex

SMC

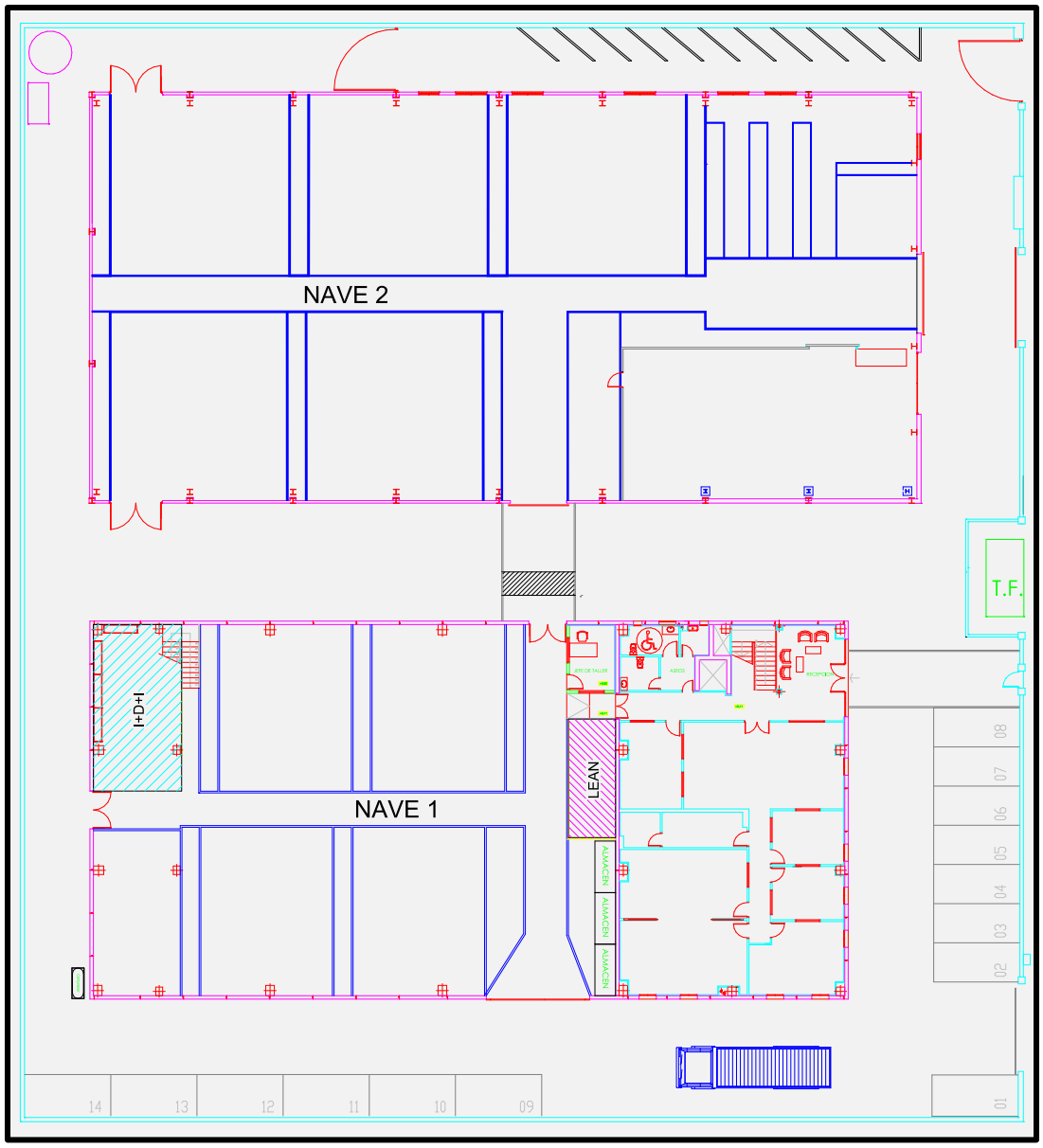
OUR FACILITIES

HEAD OFFICE & ASSEMBLY CENTERS.

Total Plot Size 4.100 m²

PTA1 (SITE 1)
- **Productive floorspace 600 m²**
- **Offices 450 m²**

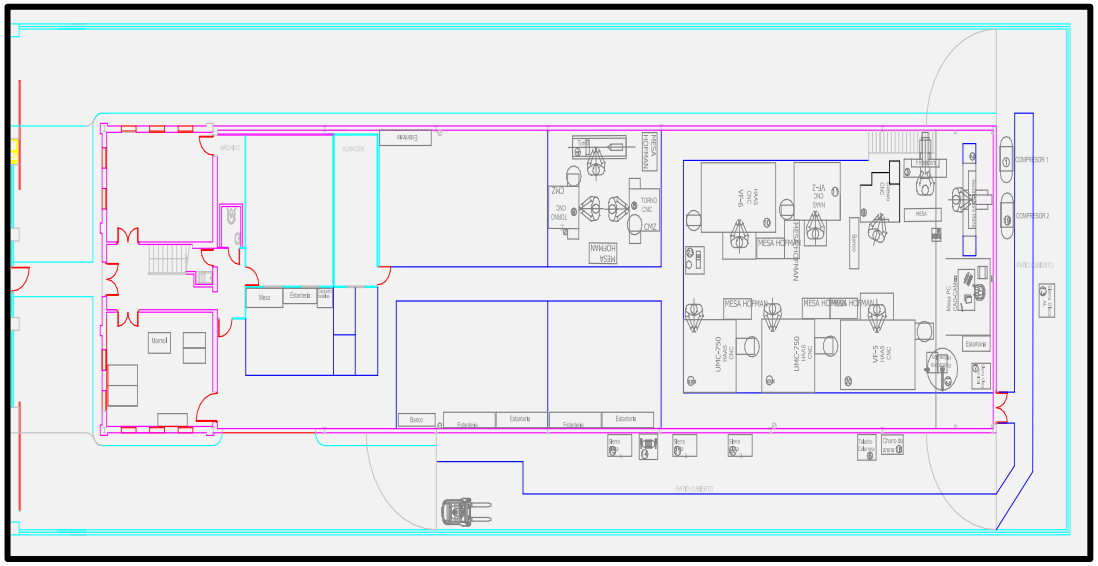
PTA2 (SITE 2)
- **Productive floorspace 1100 m²**



OUR FACILITIES

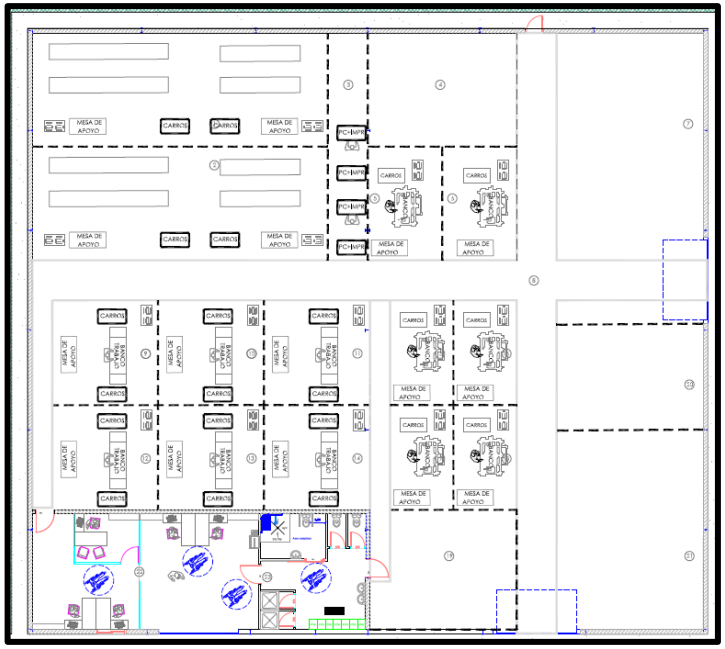
AMSX – MACHINING CENTER

- **Productive floorspace 500 m²**
- **Offices 185 m²**
- **Total Plot Size 1050 m²**



DES – ELECTRICAL CABINET CENTER

- **Productive floor 980 m²**
- **Total Plot Size 1030 m²**



DSA

Assembly & Test Technology

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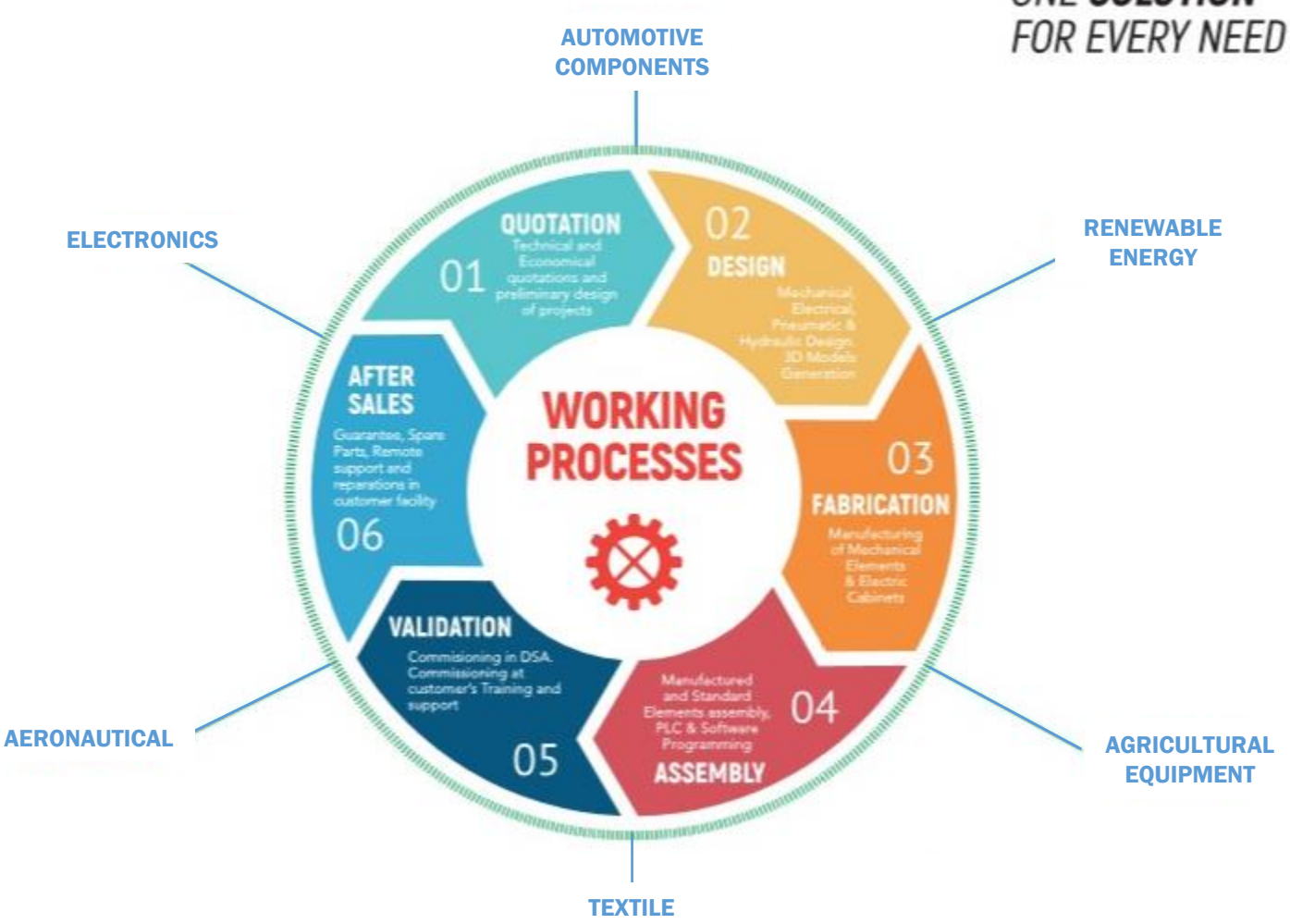
WORK PROCESS

*ONE **SOLUTION***
FOR EVERY NEED



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AUTOMOTIVE SECTOR

Fuel Injection Systems

Gearboxes

Halfshafts

Electric Steering Systems

Cylinders Heads

Motors

Klaxons

Intermediate Shafts

DCU Clusters

Ignition Modules

Control Clusters

Safety Components

Shock Absorbers

Steering Columns

Headliners

Door Panels

Seats

Windows Mechanisms

Sunvisors

Keys & Locks

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Assembly & Test Technology

INDUSTRIAL SECTOR

Agricultural Equipment

Gear box

Chopper

Drive box

Cold wax strips

Household Appliances & Food Industry

Corks Assembly

Aeronautical

Aeronautical parts

Renewable Energy

Water Heating Panel

Photo Voltaic Cells

Concentration Cells

Medical

ECU

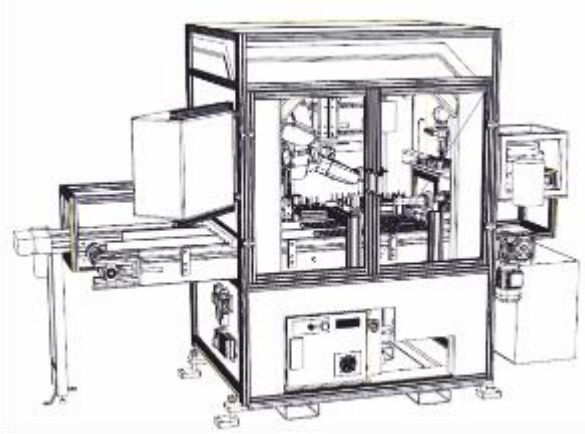
Ignition elements

Electronics

DSA
Assembly & Test Technology

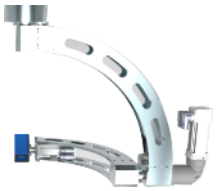
OUR PRODUCTS

- Lean Assembly Cells
- Automatic assembly lines and advanced traceability
- Function Test Machines(Product Validation + EOLT)
- Press Machines (Electric, Hydraulic, Pneumatic and Air over Oil)
- Welding machines (Laser, Induction, Resistance, Ultrasonic, TIG, MIG…)
- Robot integration for industrial applications
- Vision systems for presence detection, selection and measurement
- Tooling for machining center
- Machines for the medical sector



APPLICABLE TECHNOLOGIES

6 AXES



SPHERICAL

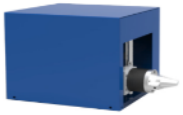
Robots

Electro Servo Presses

Vision Systems

Welding (Laser/Ultrasonic/Sold.)

LASER MARKERS



INK-JET MARKERS

PERCUSION MARKERS

Marking Systems (Laser, Percusion, Ink-Jet)

Screwdrivers (Electric/Pneumatic)

Aut. Feeding Systems

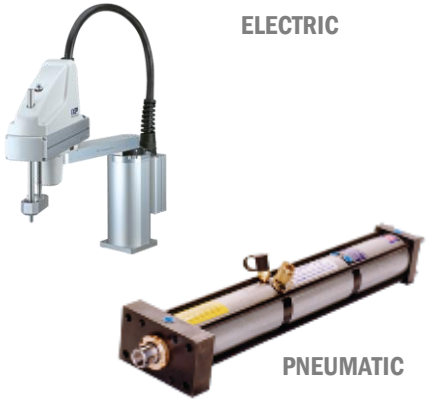
Transport Systems (Palletized Conv./AGVs)

APPLICABLE TECHNOLOGIES

Rotary Dial Tables

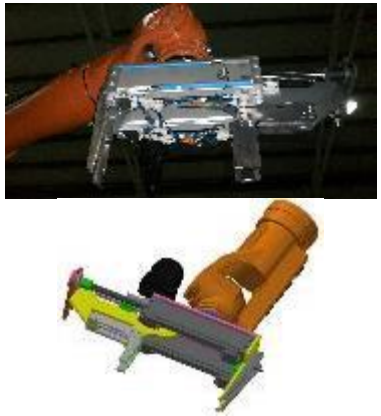
Load Cells

Dispensing Equipment



Electric/Pneumatic Cylinders

Traceability Integration (1D/2D/) and RFID



Special Grippers

HMI Monitors & Pick-Two Lights

Special Sensors

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Assembly & Test Technology

OUR PRODUCTS

Assembly Lines

Lines for the medical sector

Test Machines

Welding Machines

Assembly Machines & Cells

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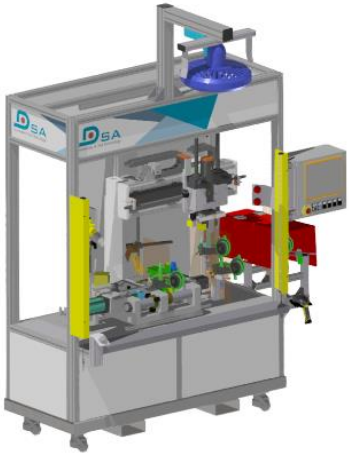
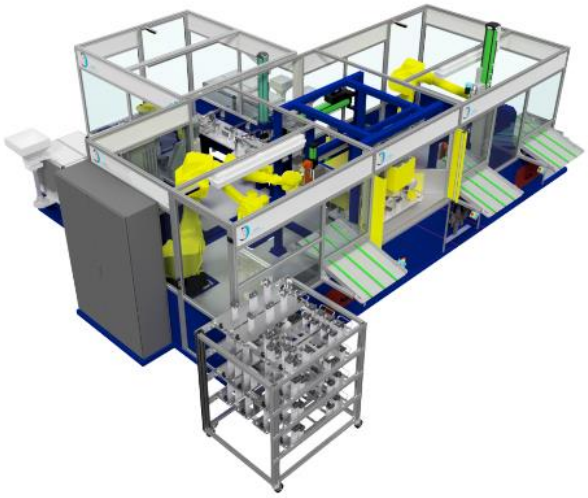
Assembly & Test Technology

SPECIAL MACHINES & LINES FOR ASSEMBLY

ASSEMBLY LINES



ASSEMBLY MACHINES



ASSEMBLY CELL

SPECIAL MACHINES & LINES FOR ASSEMBLY

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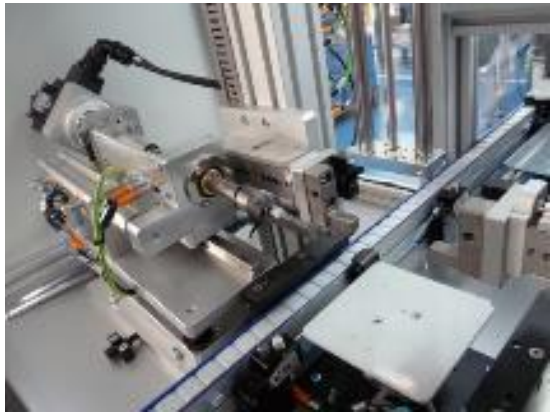
Assembly & Test Technology

SPECIAL MACHINES & LINES FOR ASSEMBLY

ASSEMBLY LINE - KEY AND LOCK CYLINDER

Main Characteristics:

- Automatic loading of components
- Robot-manipulated parts
- Sprat pin set via electric press
- Automatic pin feeder
- Reading OCR code
- Product traceability



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Assembly & Test Technology

SPECIAL MACHINES & LINES FOR ASSEMBLY

LINE ASSEMBLY KEY AND CYLINDER CLOSURE

Main Characteristics:

- Robot-manipulated parts
- Sprat pin set via electric press
- Automatic pin feeder
- OCR code reading Product traceability

Mounting the housing locking system automatically

VW automatic door preassembly

Automatic Audi door preassembly

Automatic anti-theft system pre-assembly

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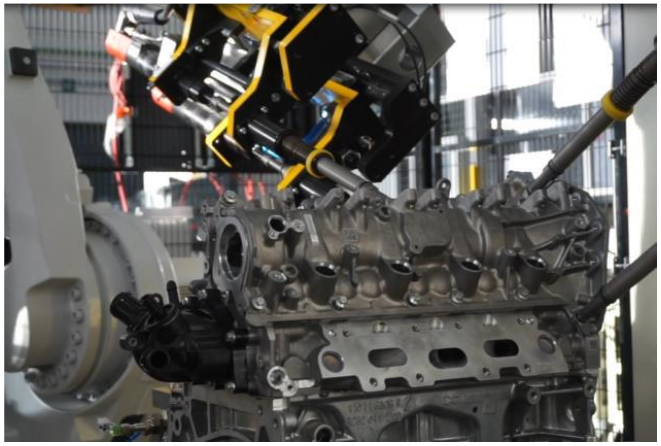
Assembly & Test Technology

SPECIAL MACHINES & LINES FOR ASSEMBLY

ENGINE ASSEMBLY LINE

Main Characteristics:

- Robot for automatic screwing
- Traceability
- Automatic cell



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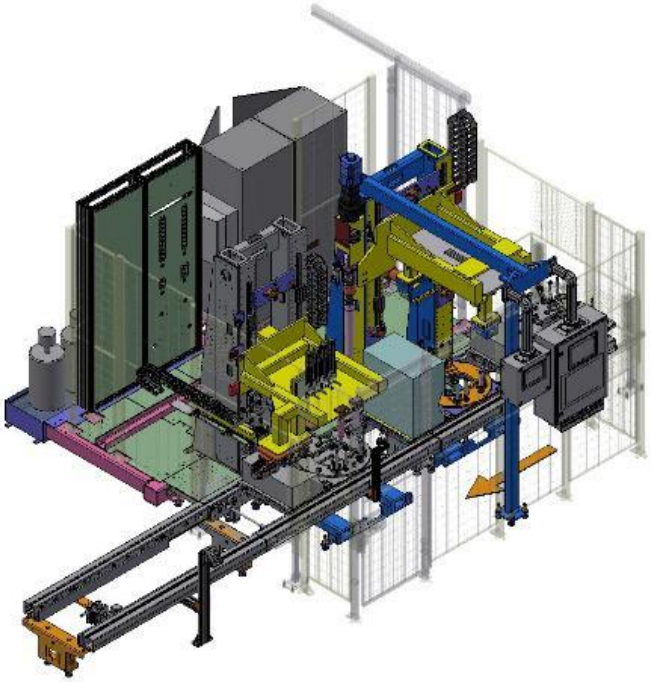
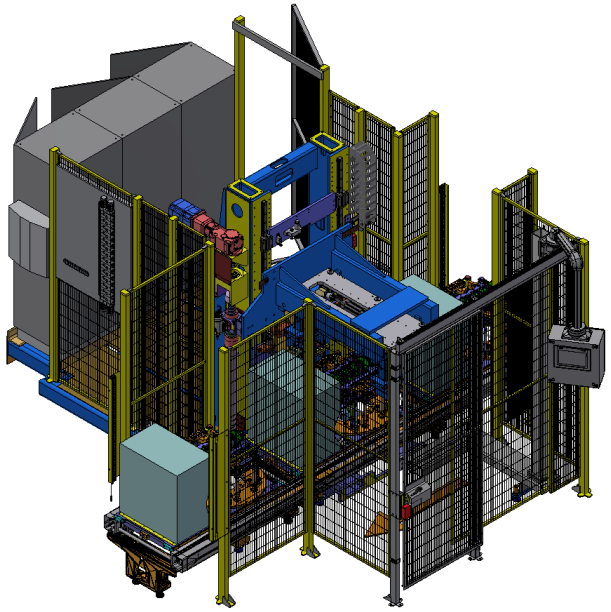
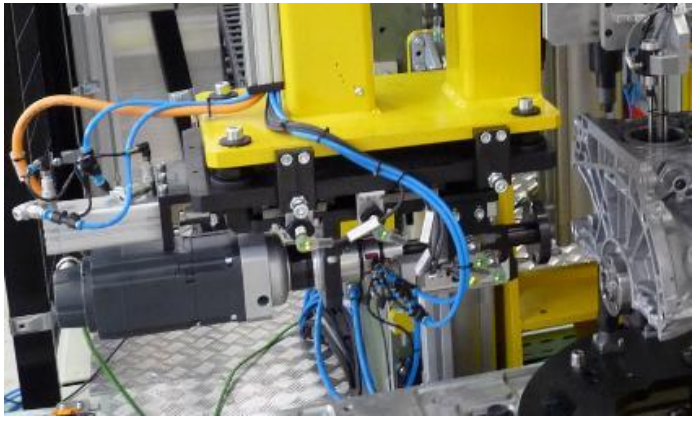
Assembly & Test Technology

SPECIAL MACHINES & LINES FOR ASSEMBLY

ENGINE ASSEMBLY LINE







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SPECIAL MACHINES & LINES FOR ASSEMBLY

GEAR ASSEMBLY LINE

Main characteristics

- Components loaded semi-automatically
- Placement of components controlled
- Electric press with force and displacement control
- Gear assembly system

Main characteristics

- Vision system for part OK/NO OK detection
- Error proofing and Poka-Yoke integration
- Generation of images of the process
- Traceability of the product

ST150.Assembly of the 5th gear

ST175.Assembly of the 6th fixed gear

ST180.Assembly of the 6th gear

ST190.1/190.2. Press bearing and tighten 2 screws

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Assembly & Test Technology

SPECIAL MACHINES & LINES FOR ASSEMBLY

GEARBOX ASSEMBLY LINE

Main Characteristics:

- Transmission cover assembly
- Sealing and bearing by pressing
- Error correction system or poka-yoke
- Artificial vision system for the control of assembled components.
- Axel bearing set
- Handling the product by a robot Electric Screwdrivers

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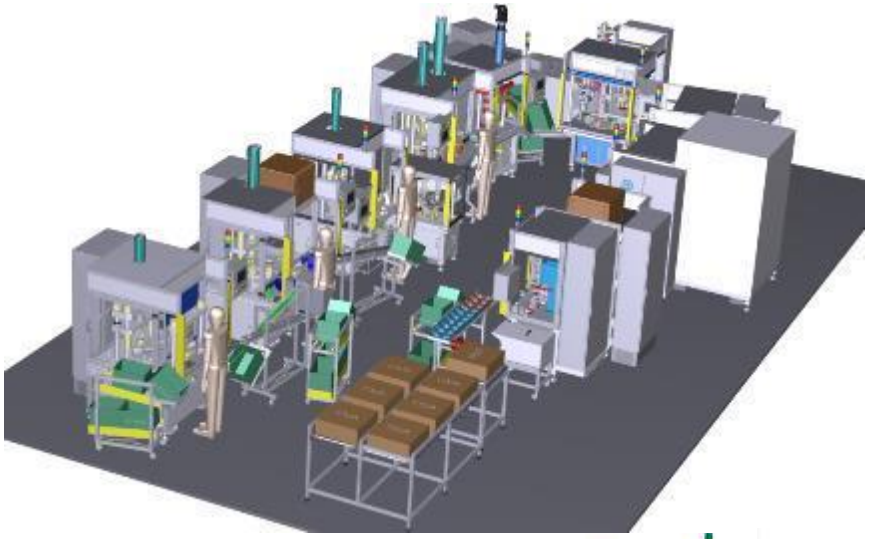
Assembly & Test Technology

SPECIAL MACHINES & LINES FOR ASSEMBLY

KLAXONS TEST AND ASSEMBLY LINE



Main Characteristics:

- 10-station assembly line
- Functional test that performs Automatic pressing of pins on parts
- Error correction system or poka-yoke
- Artificial vision system for the control of assembled components.
- Vacuum system included
- Handling the product by an electrical shaft

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Assembly & Test Technology

SPECIAL MACHINES & LINES FOR ASSEMBLY

ASSEMBLY LINE OF COMPONENTS IN HEADLINER

Main Characteristics:

- Components assembled semi-automatically
- Hotmelt application by a robot.
- Gantry system for positioning of components.
- Error proofing system or Poka-Yoke
- Artificial Vision System for controlling assembled components,
- Traceability

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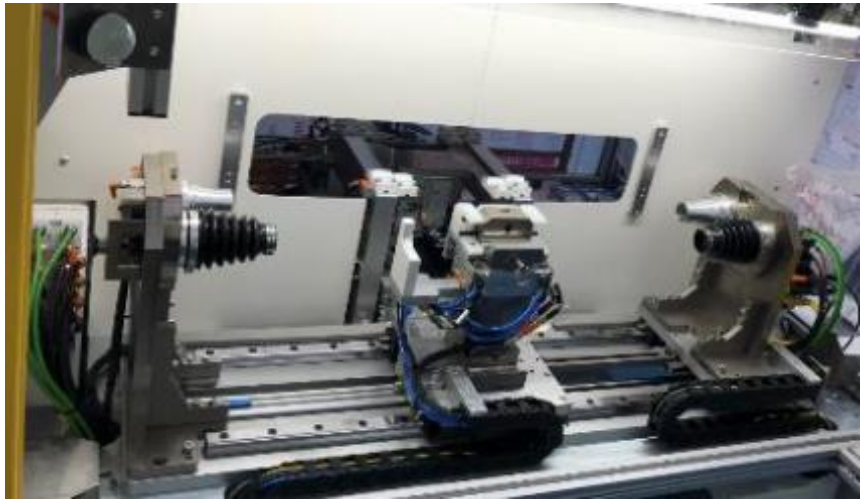
Assembly & Test Technology

SPECIAL MACHINES & LINES FOR ASSEMBLY

PROJECTS FOR HALF-SHAFTS

Main Characteristics:

- Electric press with position and effort control
- Rotating system for part centering
- Grease application system
- Auto unload system for NON OK parts
- Traceability of product
- Vision system for parts controlling
- Rust preventive treatment



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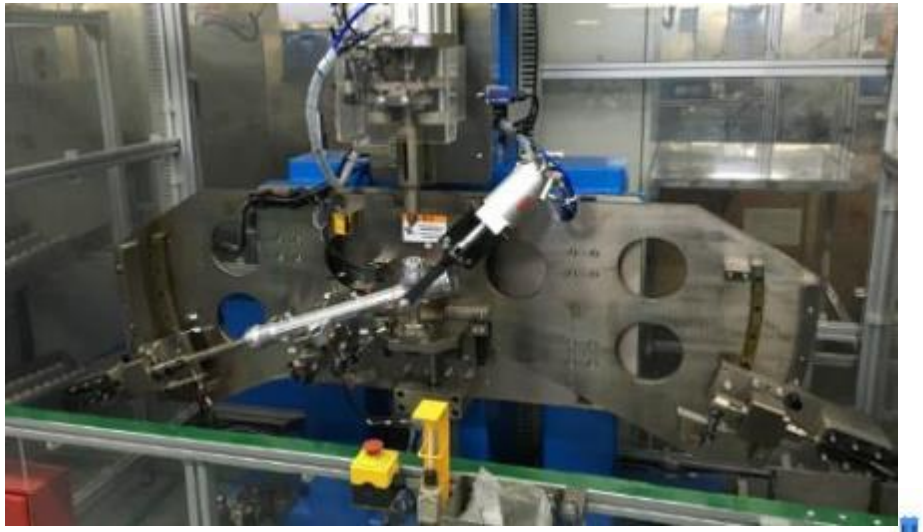
Assembly & Test Technology

SPECIAL MACHINES & LINES FOR ASSEMBLY

ELECTRIC STEERING ASSEMBLY LINE



Main Characteristics:

- Electric press with position and effort control
- Rotating system for part centering
- Grease application system
- Auto unload system for Non OK parts
- Traceability of the product
- Vision System for parts controlling

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Assembly & Test Technology

SPECIAL MACHINES & LINES FOR ASSEMBLY

PROJECTS FOR ELECTRIC STEERING SYSTEMS

Bearing & Roll Press

Rake Mech Assembly to Lower

Lever Effort Setting

Grease & Stroke

Assemble Column Assembly

Rake & Telescope Test

Main Characteristics:

- Electric press with position and effort control
- Rotating system for part centering
- Grease application system
- Traceability of product
- Vision system for parts controlling

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Assembly & Test Technology

SPECIAL MACHINES & LINES FOR ASSEMBLY

LINE ASSEMBLY SEAL TIP AND FILTER

Main Characteristics:

- Automatic loading of components.
- Automatic loading of components parts handled by robot
- Seal insertion + sizing with electrical press
- Automatic filter feeder
- Vision system product traceability

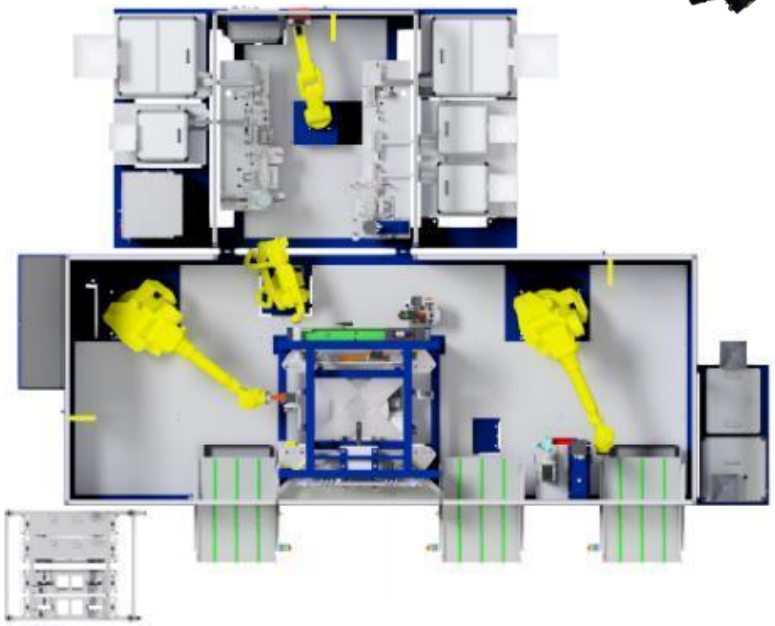
DSA
Assembly & Test Technology

SPECIAL MACHINES & LINES FOR ASSEMBLY

WINDOW REGULATOR ASSEMBLY CELL

Main Characteristics:

- Automatic detection of elements
- Robot for automatic screwing
- Robot for automatic crimping
- Interchangeable nests
- Error proofing system or Poka-Yoke



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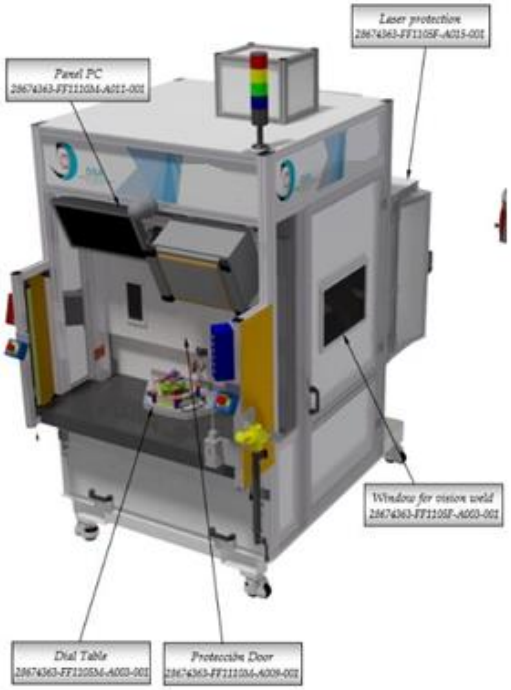
Assembly & Test Technology

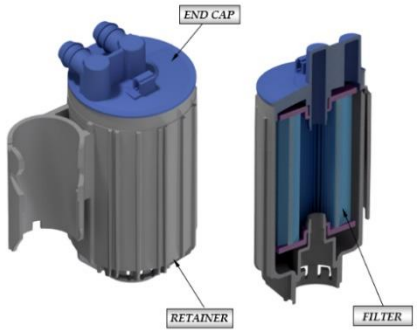
SPECIAL MACHINES FOR WELDING

DSA
Assembly & Test Technology

SPECIAL MACHINES FOR WELDING

PLASTIC FILTER SEGMENT WL ASSEMBLY & LASER WELDING

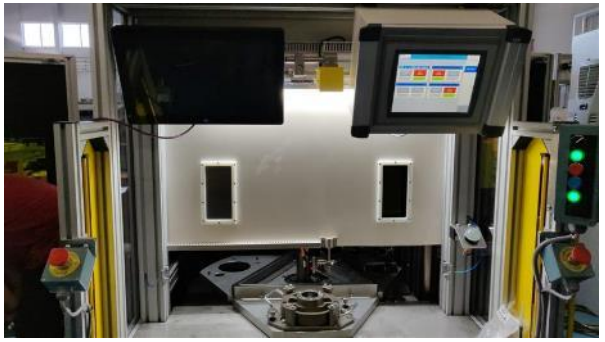




Main Characteristics:

- Dial table with three positions
- Error proofing systems Poka-Yoke.
- Laser Fiber Welding System for welding of the end cap.
- Laser weld with adjustment in angle and position.
- Two Laser system
- Capacity for weld a biggest variant of products

Filter Assembly	End cap	Adapter	Filter Element	Retainer
28345405	28374228	N/A	28334654	28334655
28613005	28374228	28503134	28348399	28334655
28386991	28334656	N/A	28334654	28334655
28503135	28334656	28503134	28348399	28334655
28550908	28533206	N/A	28533205	28533207
28562157	28512380	N/A	28334654	28512381
28683694	28374228	N/A	28626722	28334655
28674363	28374228	N/A	28334654	28653223
28653221	28334656	N/A	28334654	28653223



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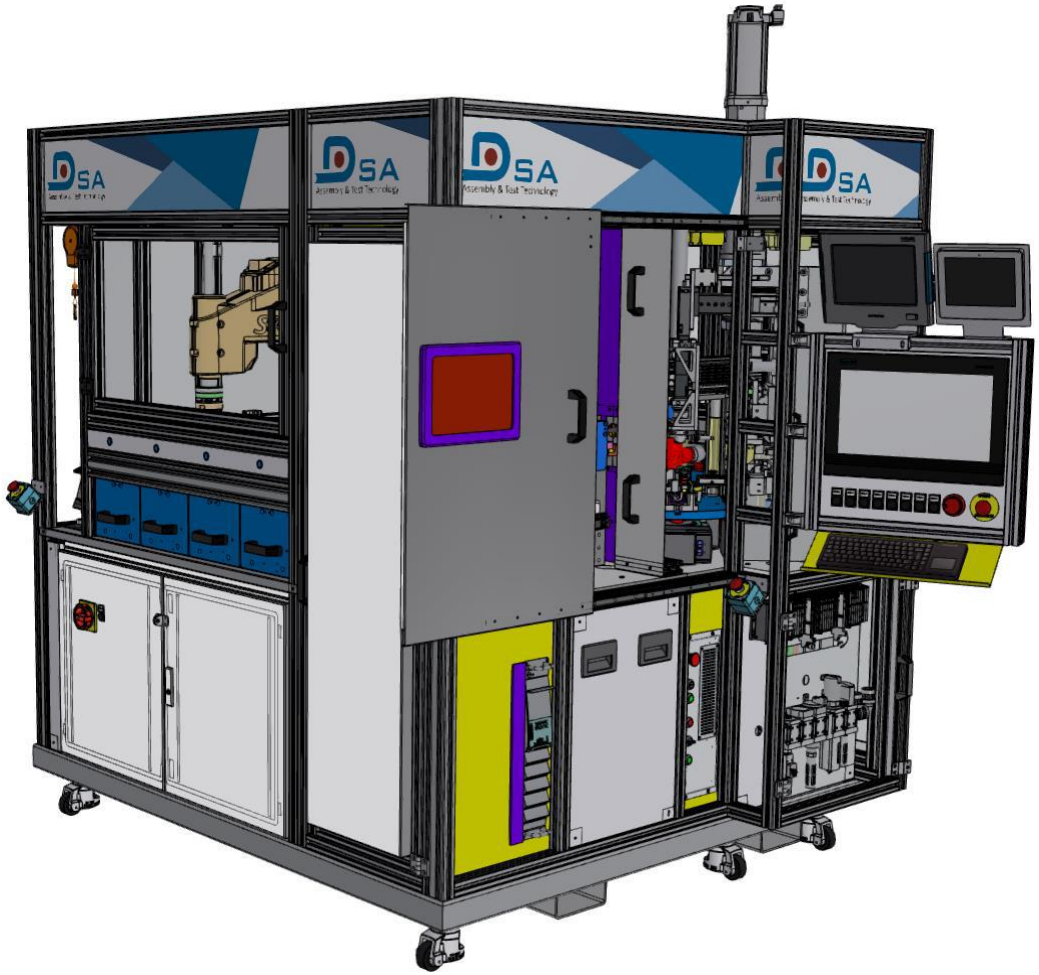
SPECIAL MACHINES FOR WELDING

SCR-AC ASSEMBLY & WELD



Main Characteristics:

- Scara robot for manage the elements
- Error proofing systems Poka-Yoke.
- Laser IPG Welding System for welding.
- Press system and angular setting system.

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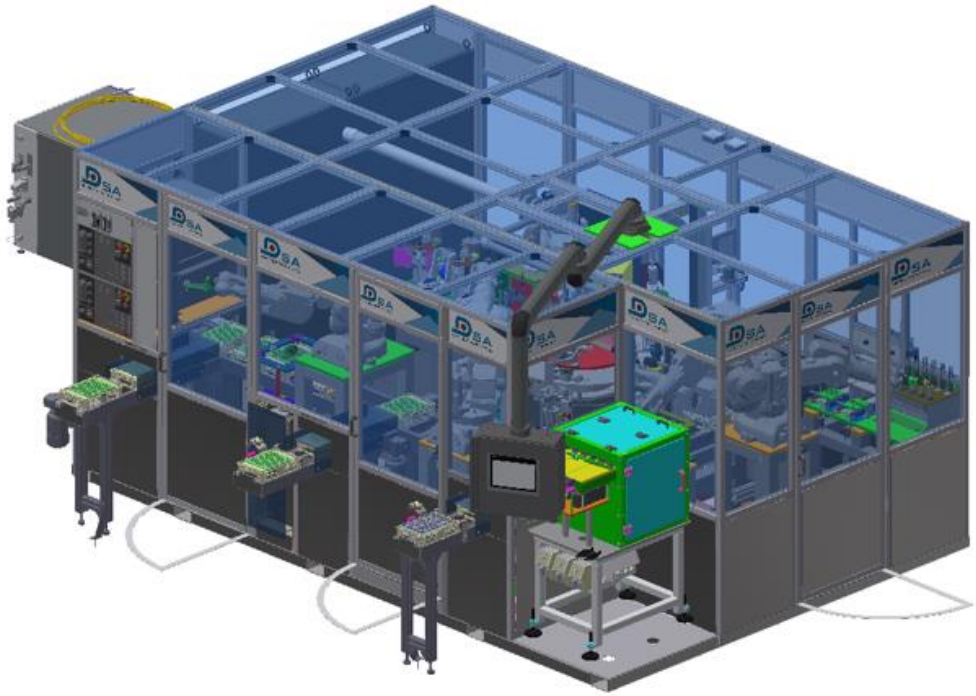
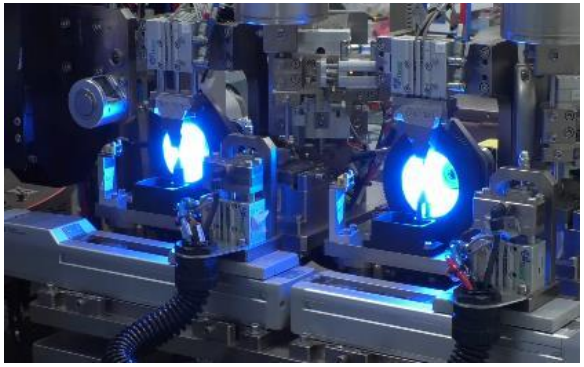
SPECIAL MACHINES FOR WELDING

PINTLE BALL WELD ARMATURE ASSEMBLY



Main Characteristics:

- Automatic feeding and recognition of pintles.
- Automatic managing of incoming products and finished assemblies by Robots (4 robots working simultaneously).
- Error proofing systems Poka-Yoke.
- Laser Fiber Welding System for welding of oriented balls to the pintles
- Vision System for Weld Quality check and roundness inspection.
- Microscope Inspection of Coating location and quality through high technology Vison System.
- Clean Room Environment.



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SPECIAL MACHINES & LINES FOR MEDICAL SECTOR

FACE MASK MANUFACTURING LINE

SYRINGE MARKING MACHINE

MACHINES & LINES FOR THE MEDICAL SECTOR

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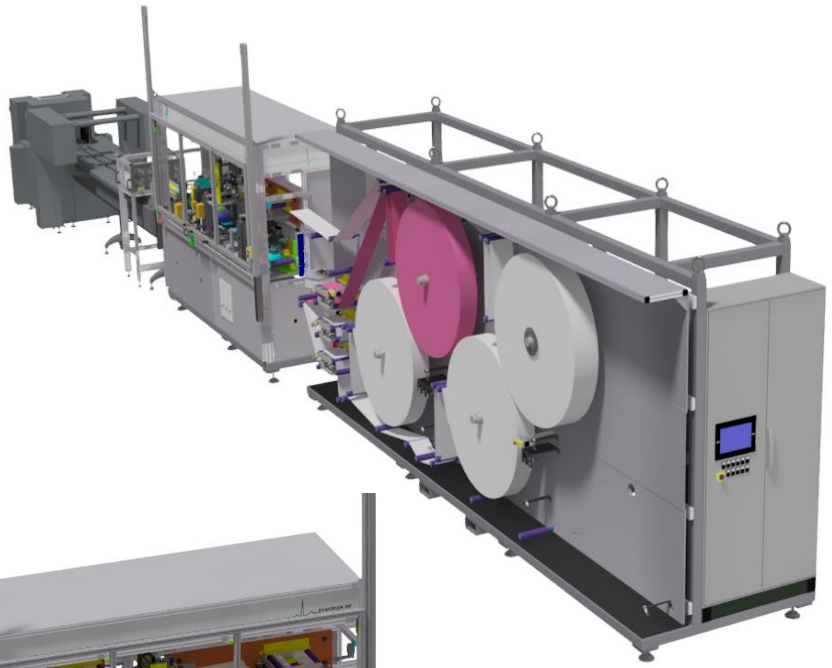
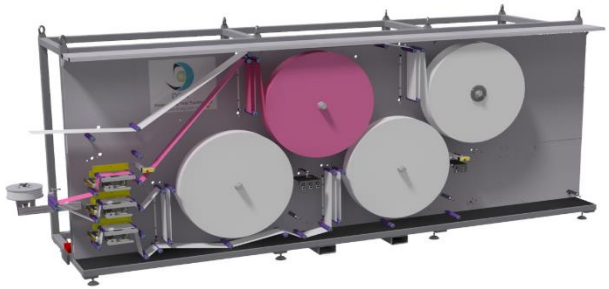
SPECIAL MACHINES & LINES FOR MEDICAL SECTOR

FACE MASKS PRODUCTION MACHINERY SURGICAL AND HYGIENIC-TYPE. UNE-EN 14683:2019+AC:2019





Six models of masks will be manufactured:

- AQ01- Adult Size 180mmx95mm Color Blue
- AQ02- Adult Size 180mmx95mm Color Pink
- AQ03- Medium Size 160mmx95mm Color Blue
- AQ04- Medium Size 160mmx95mm Color Pink
- AQ05- Child Size 140mmx95mm Color Blue
- AQ06- Child Size 140mmx95mm Color Pink

Main Characteristics:

•Machine protection and fairing following the European regulation.
•Ultrasounds systems made in Europe.
•Electric and pneumatic components with international first level brands and capacity of worldwide spare parts distribution
•High quality components avoiding fast breakdowns
•Possibility to integrate a vision system to control the product quality and reject it automatically if is defective
•Possibility to integrate an automatic film at the machine output
•Technical Service guaranteed for the equipment set up and after sale maintenance.

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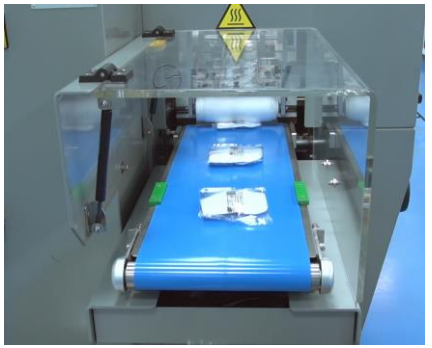
SPECIAL MACHINES & LINES FOR MEDICAL SECTOR

FACE MASKS PRODUCTION MACHINERY FFP2 NR TYPE. UNE EN-149:2001+A1:2009

Main Characteristics:

- Machine protection and fairing following the European regulation,
- Ultrasounds systems made in Europe.
- Technical Service guaranteed for the equipment set up and after sale maintenance.
- Control by PLC, including the machine complete software and operation parameters, to regulate and synchronize motors and to adjust the working parameters.
- Possibility to integrate a vision system to control the product quality and reject it automatically if is defective.
- Possibility to integrate an automatic film packing equipment at the machine output.

Two models of masks will be manufactured:
- AQ21: Non-Reusable Self-Filtering Mask Type FFP2 Exterior color White
- AQ22: Non-Reusable Self-Filtering Mask Type FFP2 Exterior color Black



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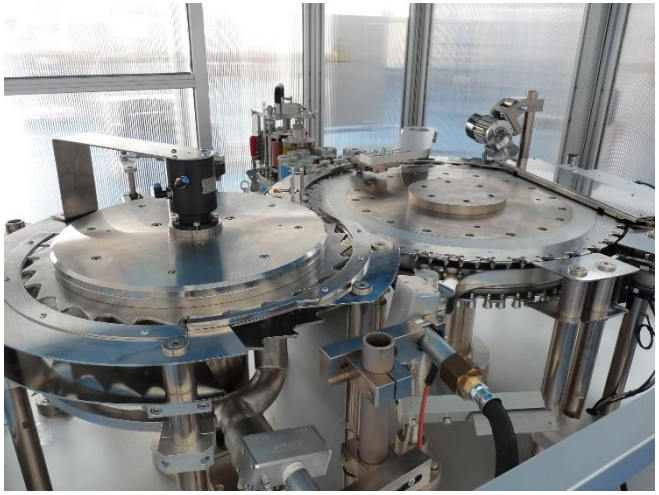
Assembly & Test Technology

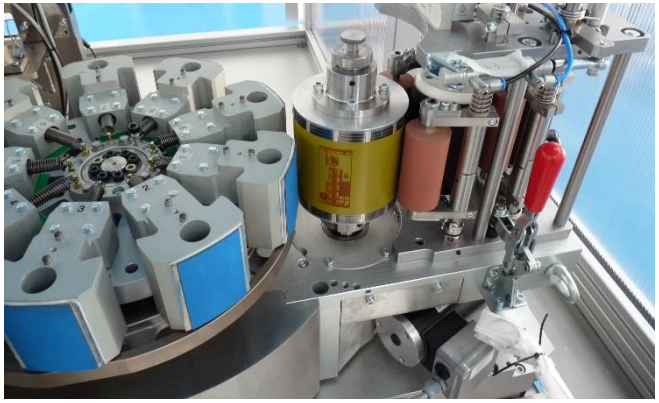
SPECIAL MACHINES & LINES FOR MEDICAL SECTOR

30ML SYRINGE MARKING MACHINE

Main Characteristics:

- Syringe marking Machine
- Turning table loads syringes at high speed
- Machine ready for clean room,
- Poka-yoke system





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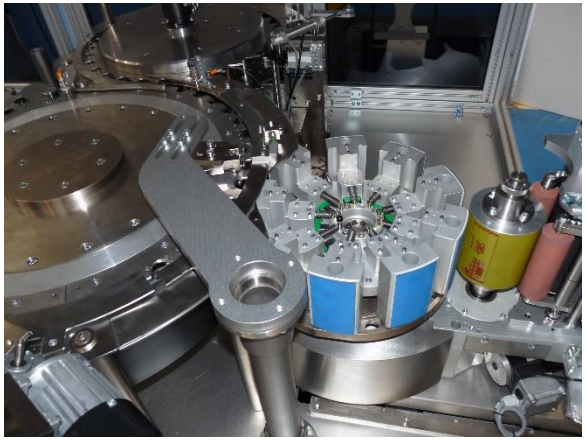
Assembly & Test Technology

SPECIAL MACHINES & LINES FOR MEDICAL SECTOR

50ML SYRINGE MARKING MACHINE

Main Characteristics:

- Syringe marking Machine
- Turning table loads syringes at high speed
- Machine ready for clean room,
- Poka-yoke system



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SPECIAL MACHINES FOR TEST

FUNCTIONAL TEST MACHINES

BANK EXTRACTION

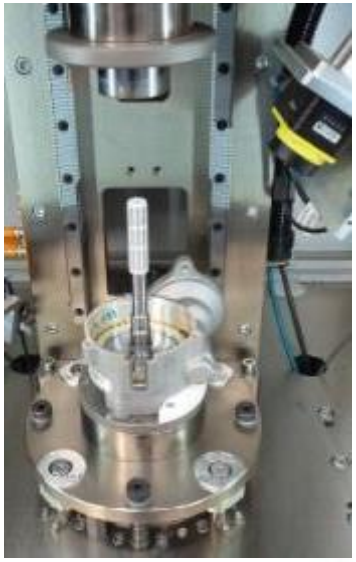
UV LEAKING TEST MACHINE

TEST MACHINES

DSA
Assembly & Test Technology

SPECIAL MACHINES FOR TEST

ELECTRIC STEERING SYSTEM ASSEMBLY & TEST



Main Characteristics:

- Back Drive/Final Function/Noise Testing
- Lash Adjust with 0,002 mm Precision
- Rotating system for test sequence
- Electric press with position and effort control
- Load Cell and Torque cell Data acquisition
- Traceability of product
- Vision System for parts controlling

Shaft Bearing Lash Adjustment

Worm Zoning Station

Final Assembly Backdrive Test

Final Function and Friction Test

Manual Noise Test Under Brake Load

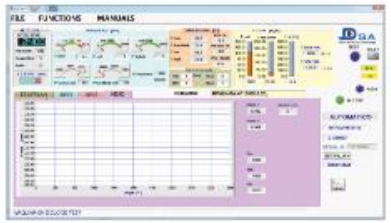
DSA
Assembly & Test Technology

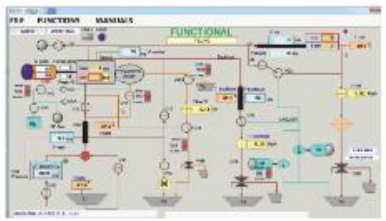
SPECIAL MACHINES FOR TEST

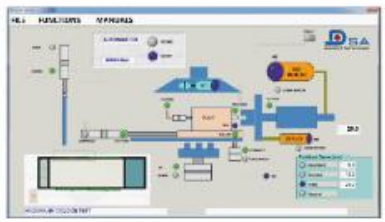
PUMP FINAL TEST MACHINE

Main Characteristics:

- Functional Test of Diesel Pump
- Simulates the operation of an automobile by a servomotor 6000rpm and common rail
- Verifies the operation of start-stop system for fuel saving
- Traceability of product







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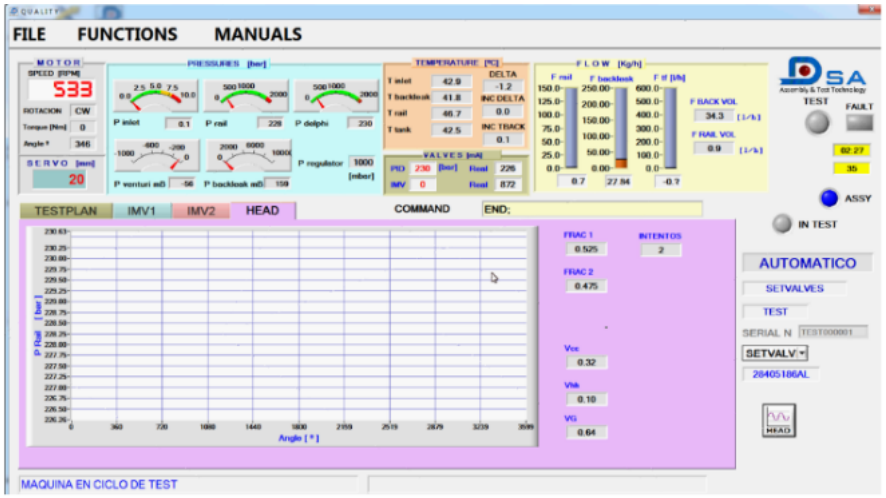
SPECIAL MACHINES FOR TEST

EXTRACTION BENCH



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Assembly & Test Technology

SPECIAL MACHINES FOR TEST

UV LEAK TEST MACHINE

Main Characteristics:

- Test machine for control of leaks in pumps
- Components loaded semi automatically
- Led Illumination integrated
- Placement of components controlled
- Vision system for parts OK/NO OK detection
- Error proofing and Poka-Yoke integration
- Generation of images of the process (360º)
- Traceability of the product

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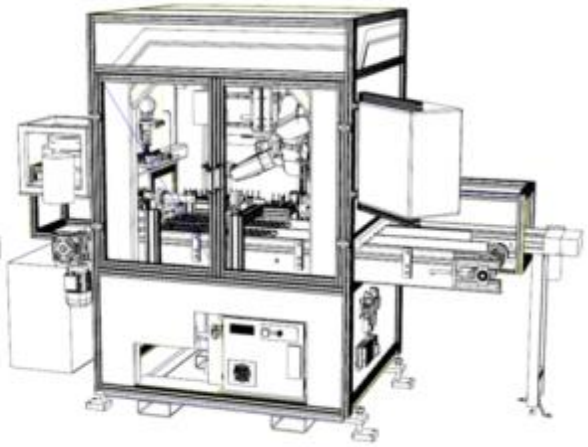
Assembly & Test Technology

INTEGRATED INGINEERING

Consulting

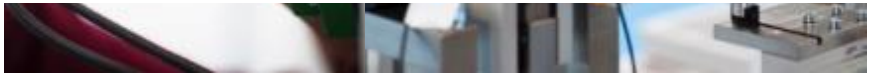
FEL Engineering



Detail Engineering

Setting-up and Commitment

Equipment Manufacturing



AMSX
Advanced Mechanical Systems

AMSX is a company specializing in manufacturing, industrial production and machining.

AMSX
Advanced Mechanical Systems

MACHINING

AMSX has a Machining center with a large number of machines with latest technologies and production resources

- 5-Axis CNC machining centers (3 units)
- 3-Axis CNC machining centers (3 units)
- CNC Lathes (2 units)
- Surface grinding (2 units)

DES
Digital & Energy Systems
www.dsagrupo.com

DES is a company specializing in the manufacture and industrial production of electrical cabinets.

DES
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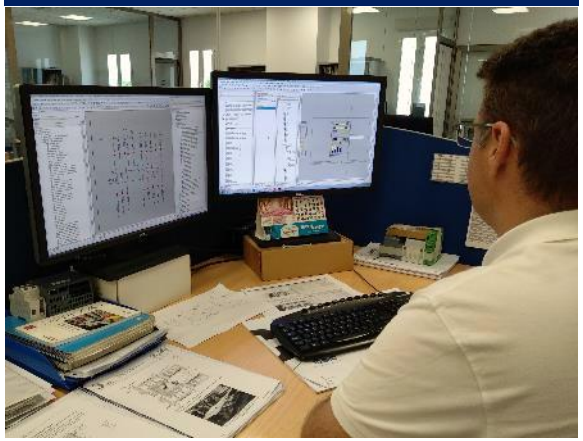
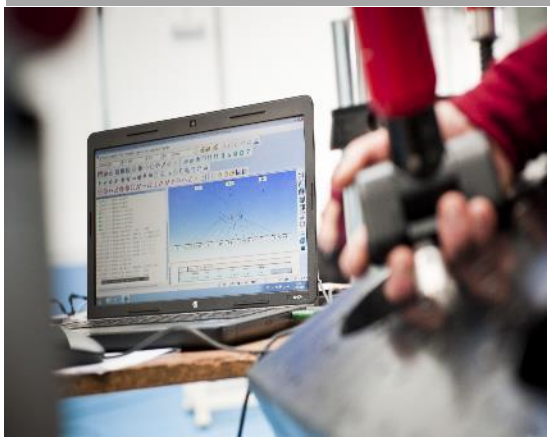
ELECTRICAL CABINETS

1. EPLAN Pro-Panel Designing / See Electrical



2. Programming, control, communication and HMI



3. Manufacturing by CNC machining systems

4. Distribution & Assembly

5. Verification and testing acc. to specificacions

6. Final Testing and Validation in Customer Site

DES
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ELECTRICAL CABINET MANUFACTURING

DES
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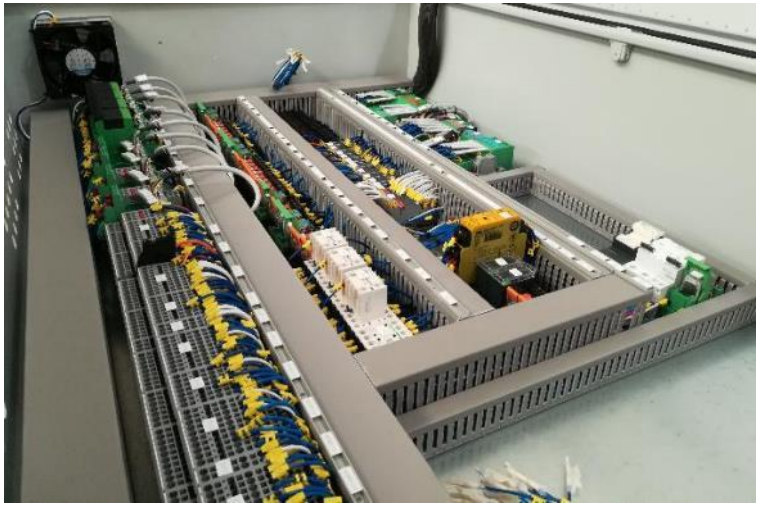
ELECTRICAL CABINET MANUFACTURING

DES has the infrastructure and the means for the design and integral manufacture of electrical cabinets and its implementation in the customer's premises.

ELECTRICAL CABINET MANUFACTURING

AMSX is an expert in the design and manufacture of electric cabinets

AMSX is certified for design, manufacture and certification under American **UL** standards, for the manufacture of **ATEX** certified cabinet and **CE**.



PRODUCTS AND SERVICES

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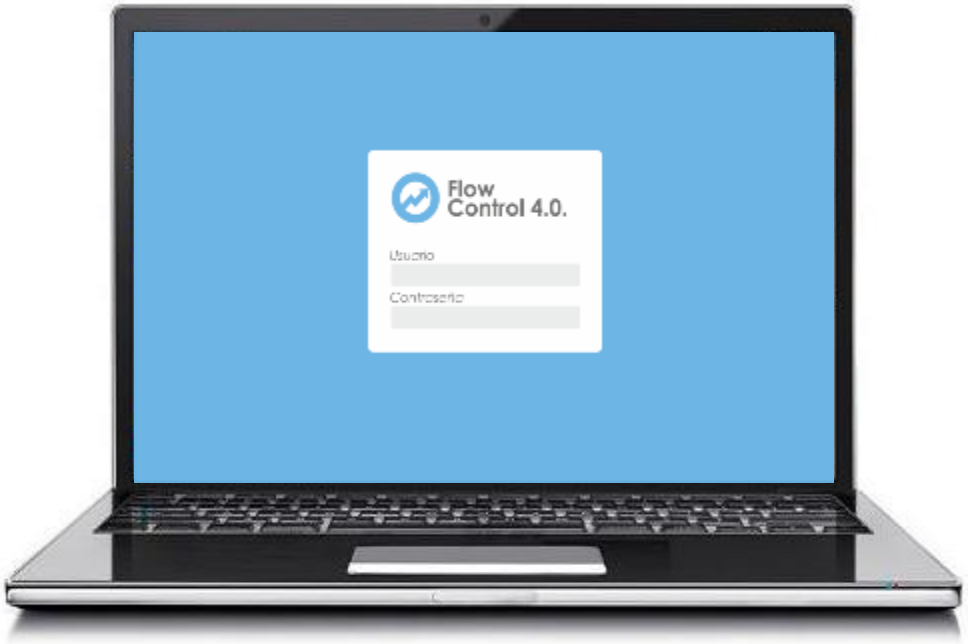
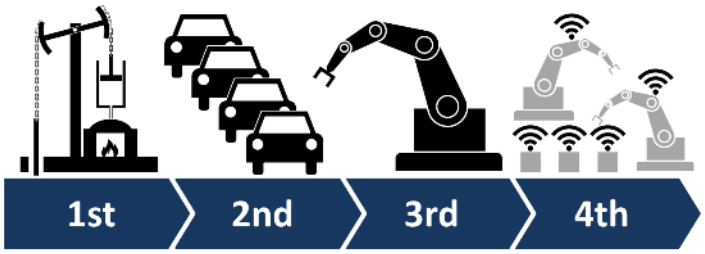
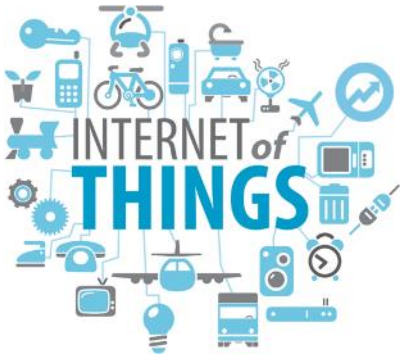
SOFTWARE DEVELOPMENT

ABOUT FLOWCONTROL 4.0.







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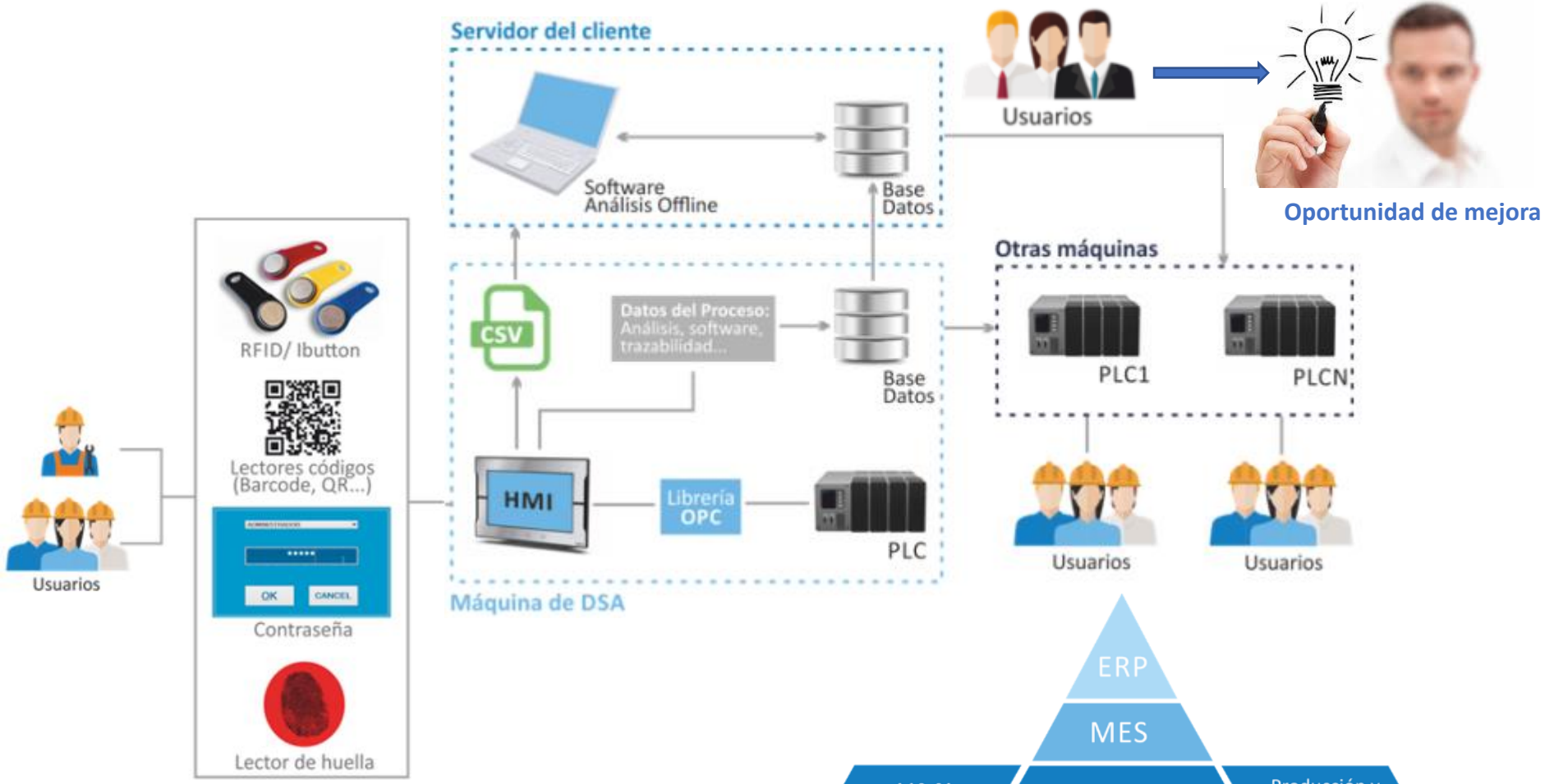
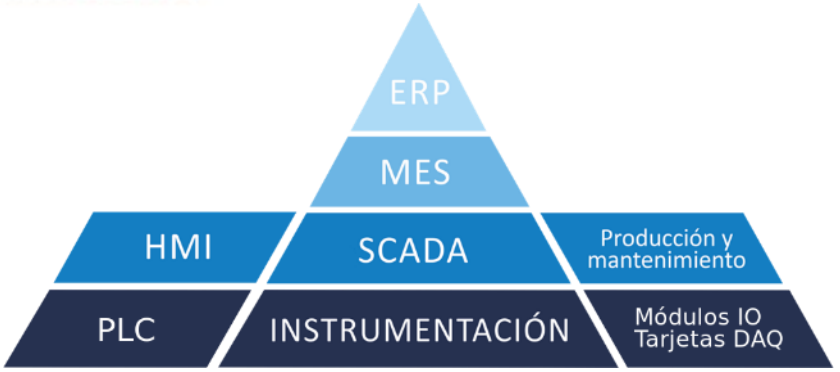
SOFTWARE DEVELOPMENT

INTEGRATION ARCHITECTURE





ANSI/ISA-88

Flow Control 4.0.

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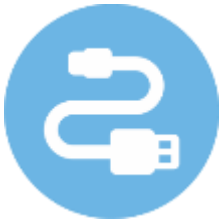
SOFTWARE DEVELOPMENT

FLOW CONTROL 4.0. TOOLS



Communication systems

Monitoring and Process Control

Artificial vision

Report making

BBDD Management

Users Management

Traceability

Productive Efficiency

Flow Control 4.0.

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SOFTWARE DEVELOPMENT

MONITORING AND PROCESS CONTROL

Disponibility

- Included in the cycle start
- Operator login at HMI
- Selection of model to be produced
- Total quantity to be produced
- Lot quantity
- Start monitoring with ready machine
- Preparation time until first part OK
- Machine time in cycle
- Station defects (messages rescued from HMI)
- Waiting for operator load (time accumulator)
- Machine time stopped
- Machine in manual mode

Performance

- Monitors within availability parts made Vs cycle time

Quality

- Ok Vs Parts NOK

Flow Control 4.0.

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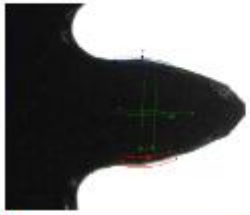
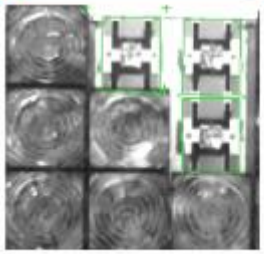
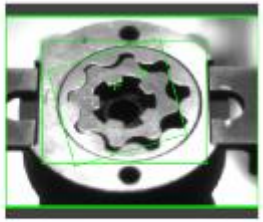
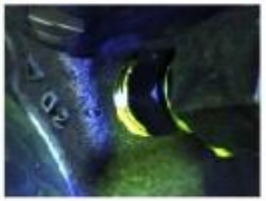
SOFTWARE DEVELOPMENT



Part Present/ Not Present	Identification, OCR	Robot Guidance 2D	Dimensional Control	Metrology	Maximum Flexibility







Our brands: KEYENCE, ifm electronic, BALLUFF, OMRON, BASLER, COGNEX

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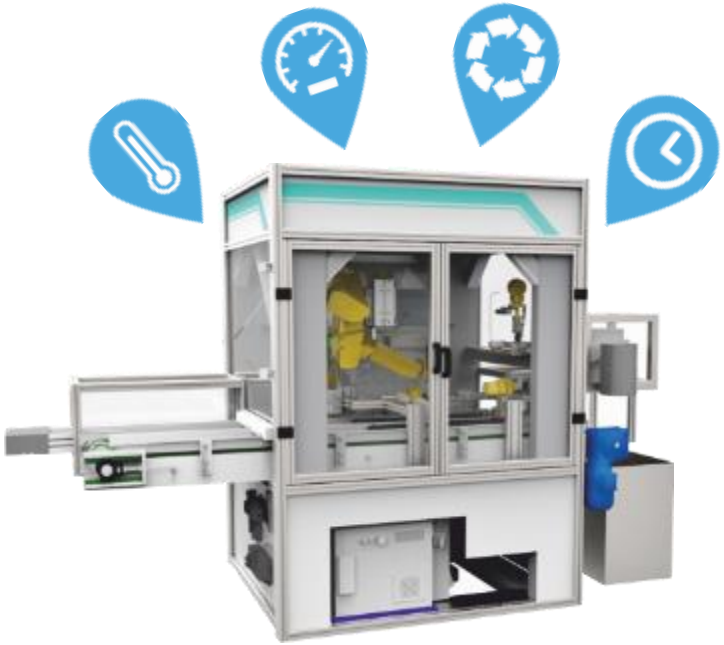
SOFTWARE DEVELOPMENT

RUN TIME SYSTEM (FLOW CONTROL MODULE)

FlowControl 4.0's RTS module allows you to control a virtual machine state that provides services for the processes of programs running in the plant. This process virtualization is carried out through status screens where the different flows can be mapped as well as the real time value of the different virtualized variables.



Real Time values

- CPM modules deployed in the plan
- Connection to process PLCs through OPC libraries
- Duplication of signals in the field via hardware modules
- Data acquisition cards deployed as plant peripherals

Flow Control 4.0.

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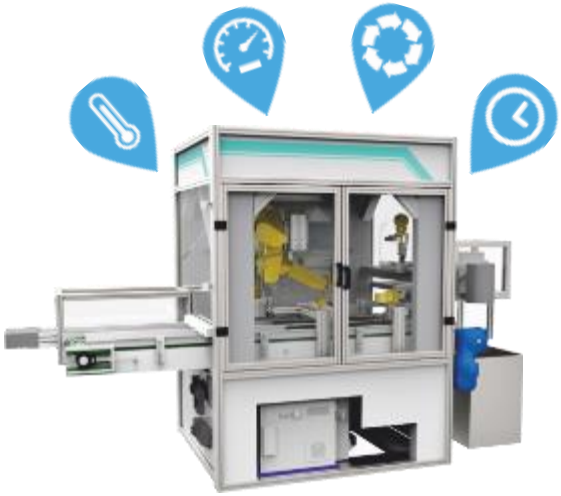
SOFTWARE DEVELOPMENT

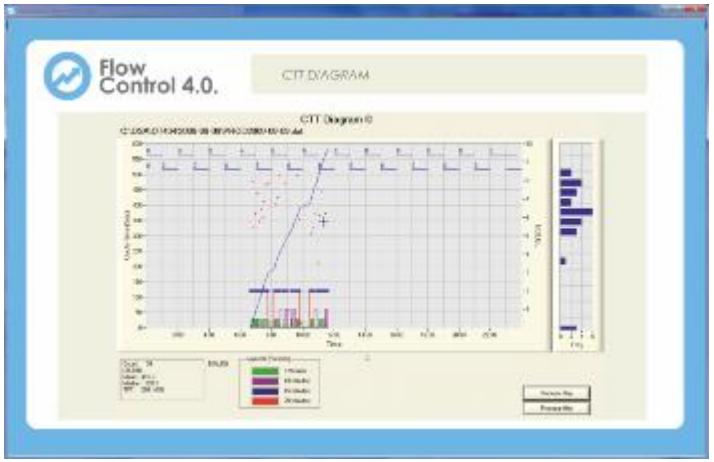
MANUFACTURING EXECUTION SYSTEM (FLOW CONTROL MODULE)

- The MES module of FlowControl 4.0. takes all variables to a database and processes those data.
- FlowControl can be integrated into run operation systems and ERP systems.
- Flowcontrol can be the system interface between ERP and plant control devices.

Transfer results to a multitude of formats and devices



Treatment of values for study and control



Flow Control 4.0.

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SOFTWARE DEVELOPMENT

PILOT PROJECT - OXIDATION

OPERATIONS

Load Operations.

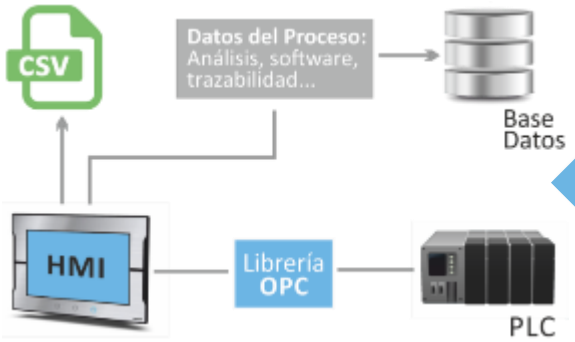
Addition Operations.

Monitoring.

Control operations.

Download Operations.

Standardization of the flow of operations



Data architecture

Flow Control 4.0.

Field instruments

Flow
Control 4.0.

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OTHER PROJECT REFERENCES

Some Project references executed in 2015/16 acquisition of process variables:

- *Clarton Horn México OT1770*
- *Delphi Yantai China OT1746*
- *Continental China, EEUU, Chequia OT1675,78 y 79*
- *HT-SAAE China OT1660 y OT1661*
- *Delphi Yantai China OT1584 y OT1585*
- *Castellón SA México OT1665*
- *Nexteer Polonia OT1704*
- *Grupo Antolín OT1758*
- *TRW OT1792*
- *Valeo OT1881*

Thank you very much

Merci beaucoup

Muchas Gracias

Bardzo dziękuję

Vielen Dank an Sie

شكرًا جزيلاً

多謝