ekidegroup

We are committed to the solution

OUR BUSINESS ACTIVITIES

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01 WHO WE ARE

02 WHAT WE DO

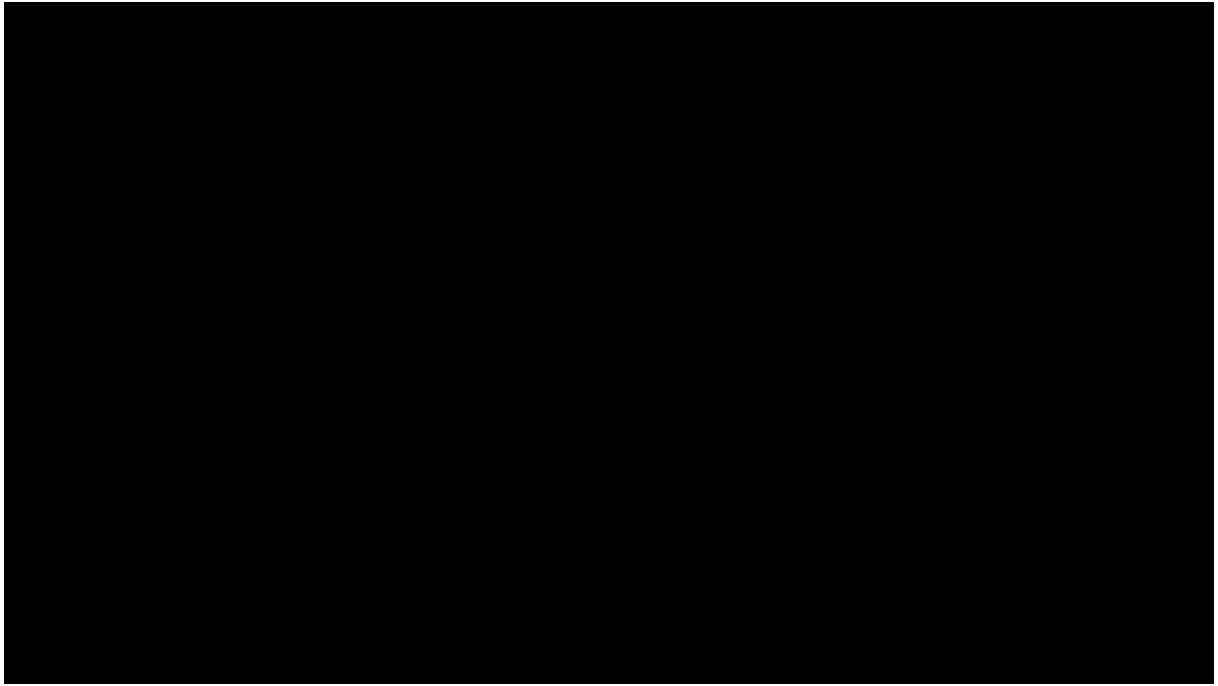
> ENGINEERING & FABRICATION

> CHECKING FIXTURES

> MACHINE VISION & ROBOTICS

01 WHO WE ARE

CORPORATE VIDEO



https://www.youtube.com/watch?v=6HnqjvfQuN8

FACTS & HISTORY

30 years of entrepreneurial roots, commitment and global ambition

1988
Beginning
Numeric control engraving machines

1990
Ekide S.L. Establishment
Located at Mondragon University
CAD/CAM services

1991
Ekide-Maier S.Coop.
Commercial relationship

1995
Rapid Prototyping
Nueva actividad, tecnologías e instalaciones

2000
Strategic partners
Maier, Mapsa, Fagor Electrodomésticos, etc.

2003
New installations
+Services: Design & Engineering, Rapid Prototyping, Checking Fixtures, Assembling Fixtures

2005
Ekide China
First steps in internalization

2010
Machine Vision & Robotics
First projects are launched

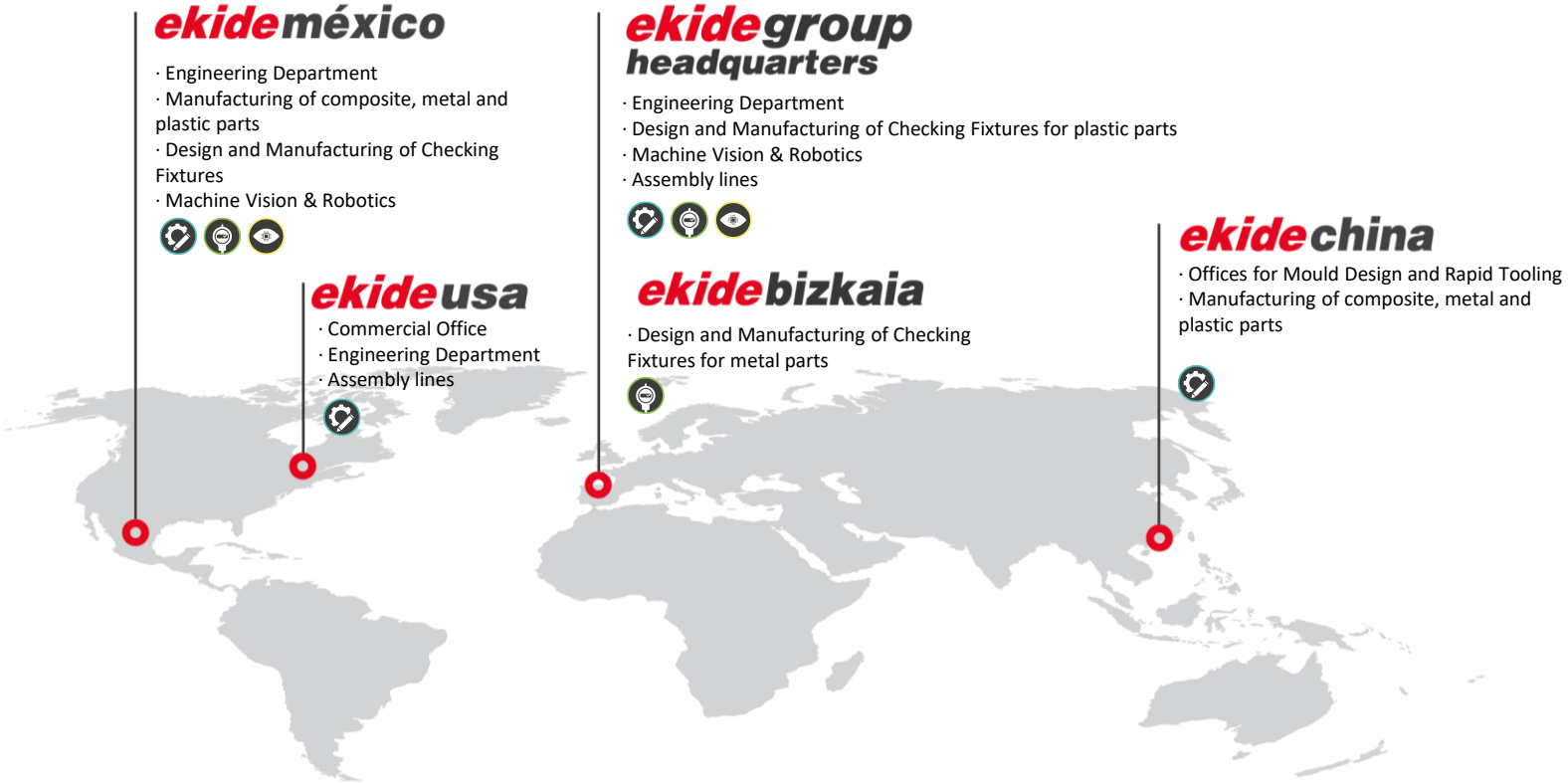
2015
Ekide Bizkaia
New installations
Checking figures for metal parts

2017
Ekide México
Engineering & Manufacturing
Checking Fixtures

2018
Ekimen Lab
Mock-ups, scale 1:1
Ekide & Sormen

2018
Ekide USA
Engineering
Commercial Office

HEADQUARTERS & MANUFACTURING PLANTS



FIGURES

3 BUSINESS UNITS

- ENGINEERING & MANUFACTURING
- CHECKING FIXTURES
- MACHINE VISION & ROBOTICS

550 WORKERS

>50 ENGINEERS

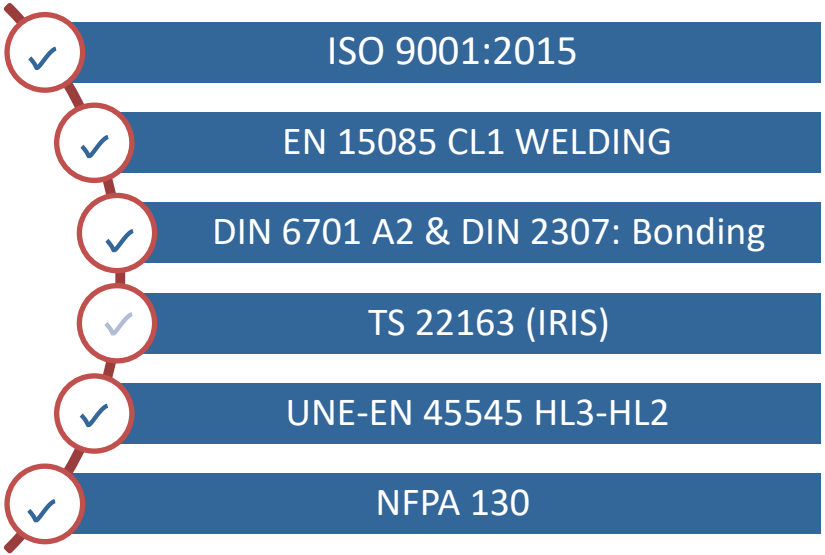
40% HIGHER GRADUATES

46 € 2020 TURN OVER

48 € 2021 TURN OVER FORECAST

4,5% of our sales to **R&D**

QUALITY & CERTIFICATIONS

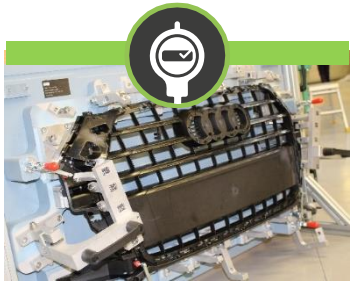


02 | WHAT WE DO

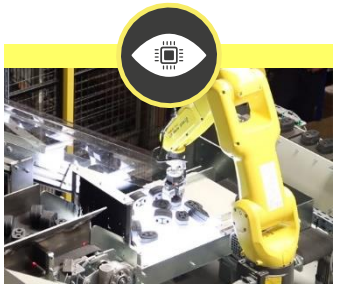
OUR BUSINESS UNITS AND SERVICES

ENGINEERING & MANUFACTURING

CHECKING FIXTURES



MACHINE VISION & ROBOTICS



Ekide Group, through its 3 business areas, offers a **comprehensive solution** to companies dedicated to products development; both related to their industrialization; as well as verification, dimensional control and production automation.

ENGINEERING & MANUFACTURING

- DESIGN
- ENGINEERING
- MOCK-UPS
- MANUFACTURING

CAPACITIES

- **DESIGN & ENGINEERING**
- **MOCK-UPS**
- **MANUFACTURING**
- **PAINTING & FINISHING**
- **ASSEMBLY**
- **MEASURING**
- **LOGISTIC**

COMPLETE SYSTEMS SUPPLIER

In our role as supplier of complete systems, we offer perfectly coordinated projects, with **innovative and complex in-house designs, systems developments, mock ups & virtual reality, and manufacturing processes in any kind of material.**

CAPACITIES

DESIGN & ENGINEERING
- Conceptual Design
- Engineering
- Feasibility Study
- Virtual Reality
- Reverse Engineering

MOCK-UPS
- Scale 1:1 mock ups
- Prototypes

MANUFACTURING

PLASTIC
- Plastic Injection

METAL
- Welding [EN 15085 CL1]
- Bonding [DIN 6701 A2 & DIN 2307]
- Robot Welding
- Bending facilities
- Hidraulic Stamping
- Mechanical Stamping
- 2D laser
- 3D laser
- CNC punching
- CNC Machining 3 axis
- CNC Tube bending

COMPOSITES
- Polyester & Phenolic Hand lay up
- Polyester & Phenolic vacuum infusion
- Pre-preg
- Carbon fibre parts
- Autoclave
- SMC

PAINTING & FINISHING
- Wet painting
- Robot wet painting
- Powder painting
- Polishing

ASSEMBLY
- Assembly facilities
- Bonding

MEASURING
- CMM

LOGISTIC
- Warehousing
- Kits packaging design & manufacturing
- Returnable transport packaging design & manufacturing

PRODUCTS · SECTORS

Railway

Bus

Campers

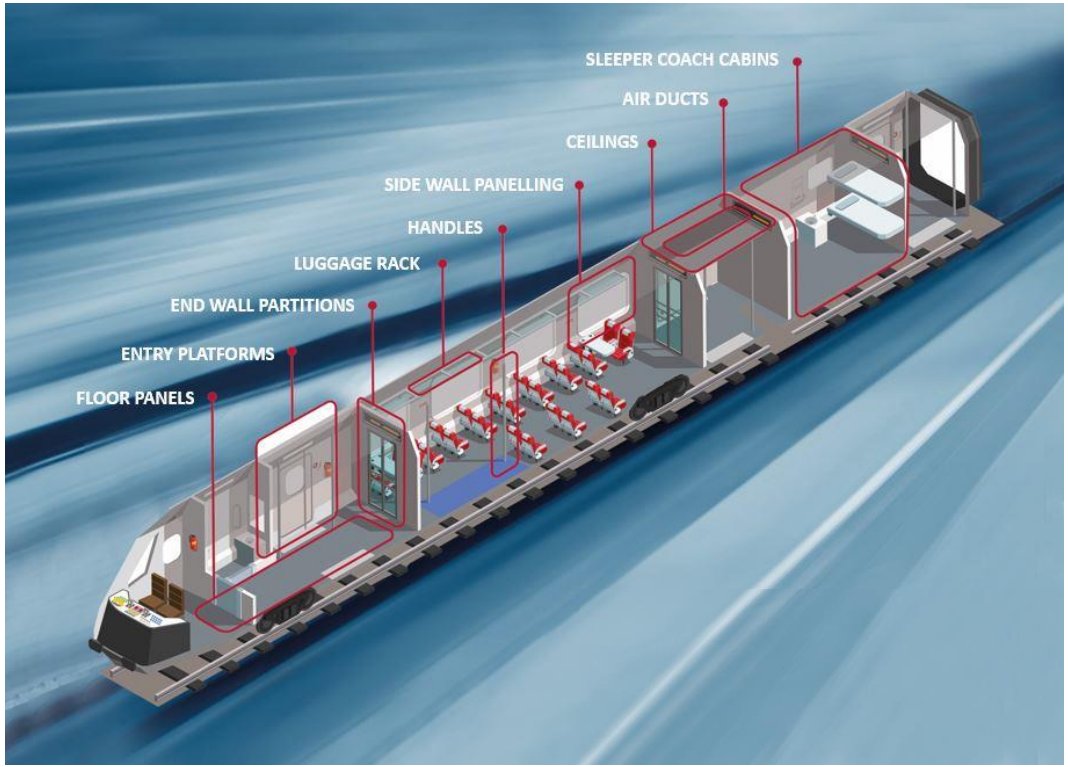
Electromedicine

Automotive

Mock-up & Prototypes

PRODUCTS · EXAMPLES

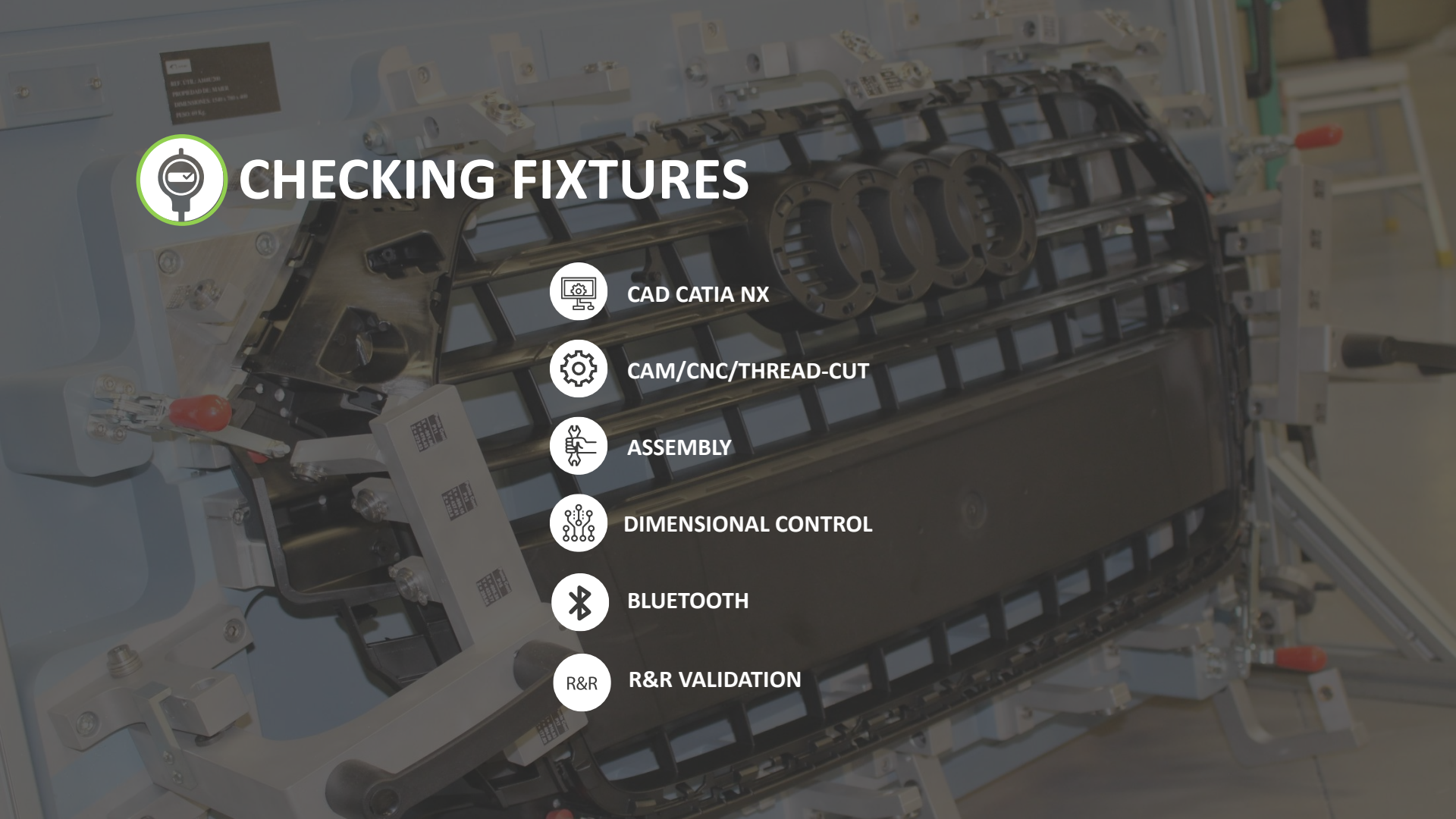
Railway



PRODUCTS · EXAMPLES

Automotive

MAIN CUSTOMERS



CHECKING FIXTURES

- CAD CATIA NX
- CAM/CNC/THREAD-CUT
- ASSEMBLY
- DIMENSIONAL CONTROL
- BLUETOOTH
- R&R VALIDATION

OUR MANUFACTURING PLANTS

ekidemexico

ekidegroup
headquarters

3 MANUFACTURING PLANTS

15 DESIGNERS

8000 sqm for manufacturing

ekidebizkaia

Export to more than **20** COUNTRIES

CAPACITIES

- **Software:** CATIA / NX
- **Checking fixture typology:**
  - Cubing car.
  - MMT, 3D.
  - 1D: DTI, Gap and Flush
- **Volume production:** + 600 checking fixtures per year
- **Precision:** 0,05mm
- **Part control:** Any part from the car
- **Customer:** Tier 1 and OEM

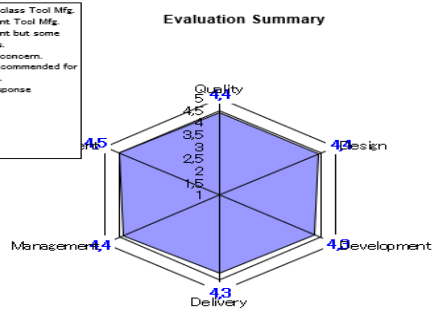
CAPACITIES

GAGE Manufacturer Profile and Evaluation Summary

General	Company Name	Ekide Group	Email address	gonale@ekide.es
	Address	Ekide S.L. · Telleria 2 · 20500	Website	https://www.ekide.es/
	City	Arrasate-Mondragón, Gipuzkoa	Year Established	1988
	Country	SPAIN	Type of business	Control Gages and CMM Fixture
	Phone Number	(+34) 610928664		
	Fax Number			
Qual	Accreditation & certifications	ISO 9001	Inspection Equipment	5 CMM Machines (3xLk, Cort 3 and Innovalia Metro)

Design	# of Design Stations	13	Design Software	Catia and Nx.	Total Design Source	In %	100%
						Out %	0%
	# of Machine NC Data Stations	13	NC Data Software	CAM, Power Mill, CNC Fagor, Electroerosion···	Total Mach NC Data Source	In %	90%
						Out %	10%
	# of Simulation Stations	5	Simulation Software	Metrolog and M3.	Total Simulation Source	In %	100%
						Out %	0%
	Evaluation Summary		Avg.	4,4	Data Format used	Catia V5R19/24/27 Nx 9-11	
					Data Transfer Method	FTP	

5-World class Tool Mfg.
4-Efficient Tool Mfg.
3-Efficient but some concerns.
2-Major concern.
1-Not recommended for business.
0-No response



Business	Fiscal Yr Sales	Production		Currency Type	EUR
		Tooling	7.080.000 €		
	Capital Investment	Tooling		mechanical + service	
		Equipment			
	Number of Employees	Design	14	QC Insp.	6
		NC Data	19	Mgmt	5
		Tool Makers	15	Total	59
	Customer Type percentage	Automotive		Appliance	
		100			
	No. of Companies or Technical Agreement in Country	2 in Spain (Mondragon and Zamudio)			
	No. of Companies or Technical Agreement outside of country	1 in Mexico (Queretaro)			
	Business Experience Customer Name	Tier 1	Seat, Mercedes: Metal part gage.(Environment, caliper, countermeasure, Form)		
		Tier 2	Gages for Painted, chromed plastic parts (Maier, SRG···) Gages for Seats (Johnson and Control, Adient and Faurecia) Gages for metals (Gestamp···) Gages for headliners (Grupo Antolin···) Gages for dashboard.		
		Other	Rapid tooling and manufacturing Machine vision (Irizar bus group, CAF train group, Siemens···)		
	Company Expertise	Design and Engineering, Checking tools, Mock up&prototypes, Rapid tooling manufacturing, and Machine vision.			
	Previous Experience	P13A Germany (Serial Control Device and CMM for Seats components: Belt fixation bracket, FR/RR track bracket, FSC ASM, Sidemember FSB ASM, tube RR/FR Bearing···) (Serial Control Device and CMM for seats components, tube, sidemember ASM, cushion ASM, backframe ASM, tube and independent parts) CMM gage: Cushion sea and metal structure for Johnson and Control.			
	Languages Supported	Good English, French and Spanish.			

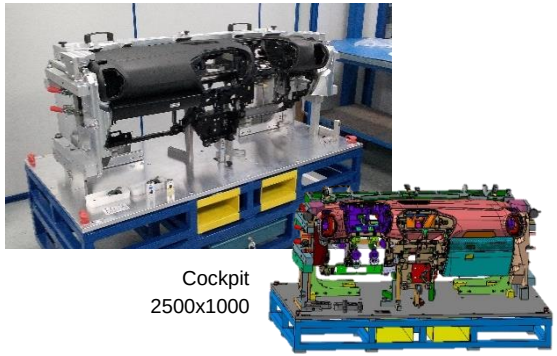
Development	
Typical Part Type	Control device for metals, plastic and fabric components.
Avg Process Type & Process size	Mechanizing machine 2500x1200
Avg part size	1200*800

Delivery		
Avg. Tool Delivery time	Wks	Tool buyoff Process
	9	Customer assistance onsite.
Avg. Design time	Wks	
	2,5	
Avg. M/C time	Wks	
	6,5	
Avg. Develop time	Wks	
	2,5	

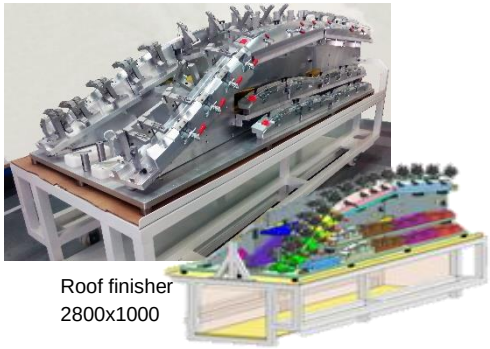
Equipment	#	Size	Avg. Age
EDM Wire or Plunge	2	600x400	8
NC Machining Center	13	2200x1200	7
Number of Axis and spindle speed	35	3000-8000rpm	7
Manual Milling Machine			
Automated 2D Machine	2	1000x500	10
Gun Drill			
Grinder/Finish Machine			

Development Equip.	#	Size	Tonnage
Spotting press	N/A		
Try out Press	N/A		
Blank/Straighten Equip.	N/A		
Automation Trial Equip	N/A		
Other	N/A		

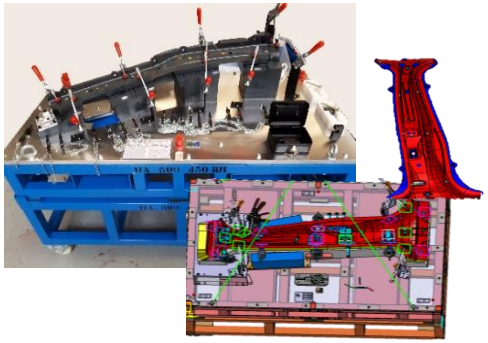
HIGH DIMENSIONS CHECKING FIXTURES

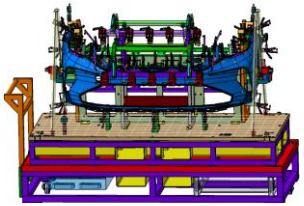


Cockpit
2500x1000

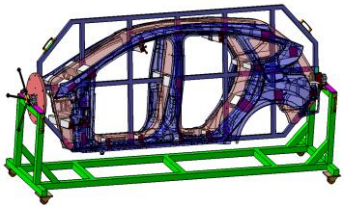


Roof finisher
2800x1000

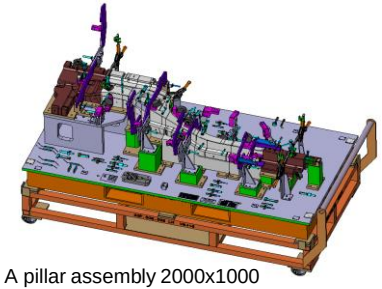




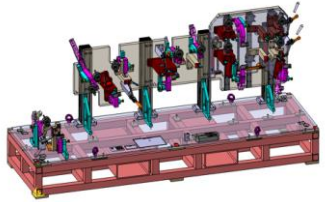
Front/Rear Bumper: 2500x1000



Lateral body 3400x1000

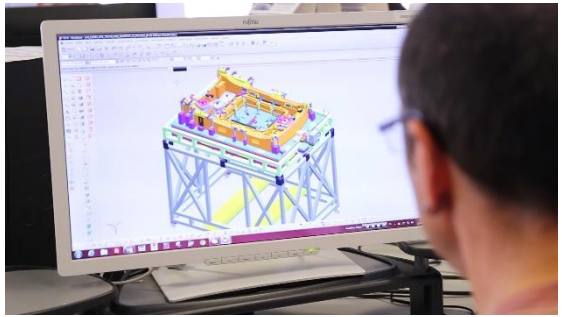


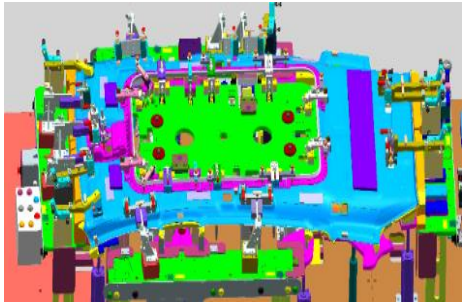
A pillar assembly 2000x1000

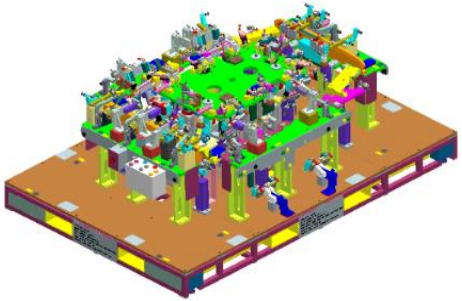


Frame structure2500x1000

SEMI-AUTOMATIC CHECKING FIXTURES







Headliners 2500x2200

BLUETOOTH TRANSMISION CHECKING FIXTURES

EKIMETER wireless

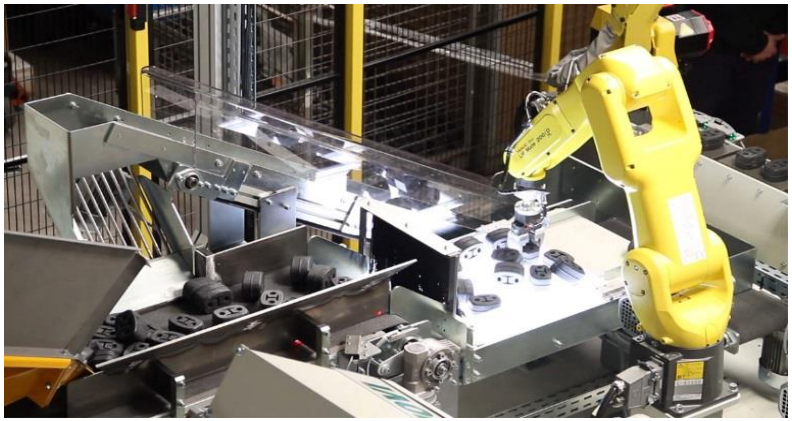
ADVANTAGES	DISADVANTAGES
- Up to 75% Gain time	- Small Initial investment
- Pay-back from the development.	- Increases the thickness of the watch by 20mm.
- Real and visual knowledge of the general status of the piece.	
- Reliability of the measurements.	
- No posible to cheat.	
- Traceability of the part in case of defect in client / internal.	
- Direct export to Excel and system eliminating the margin of human error of transmission.	

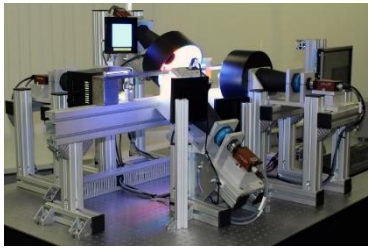
MAIN CUSTOMERS

MACHINE VISION & ROBOTICS

- DIMENSIONAL MEASUREMENT
- ASSEMBLY POST
- AESTHETIC ASPECTS INSPECION
- PICKING

CAPACITIES





Design and manufacturing, **integral solutions and control machines** through **Machine vision and Robotics.**

- Conception of the **solutionand 3D design.**
- **Assembly, wiring and tuning phase**

- **Complete programming** and PC interfaces and automatisms.

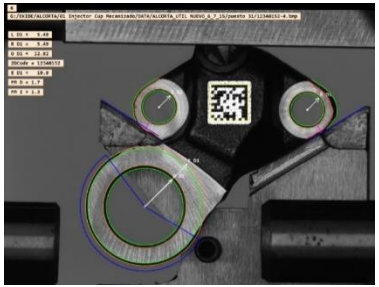
TECHNOLOGIES

MACHINE LEARNING/ DEEP LEARNING

TRACEABILITY 4.0 industry

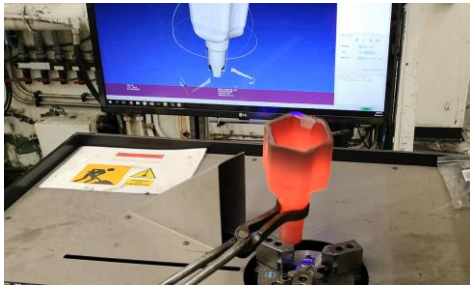
Codes, numbers and letters, or any other symbol.

2D VISION

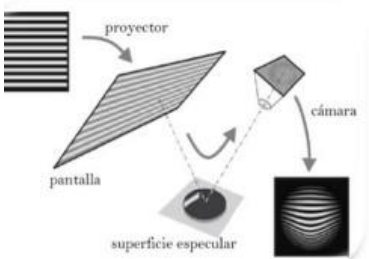


3D VISION

DEFLECTOMETRY



PHOTOMETRIC STERO

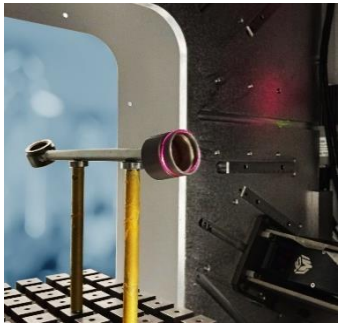


HYPERSPECTRAL

PRODUCTS

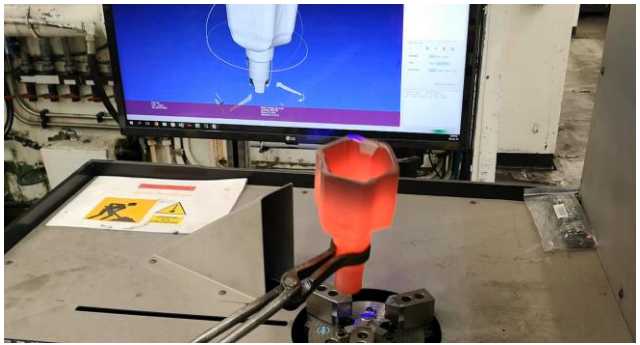
3D LINEAL

Reconstruction using linear advance scanning. Obtaining the real geometry of the part, for its comparative analysis against CAD.



3D ROTATIVE

Reconstruction for parts of revolution by rotating scan. Obtaining the real geometry of the part, for its comparative análisis against CAD.



PRODUCTS

PISTACHIOS CLASSIFIER

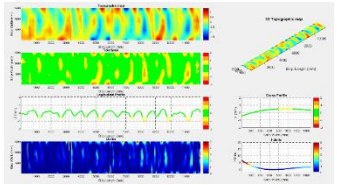
Separation of open pistachios from closed ones.

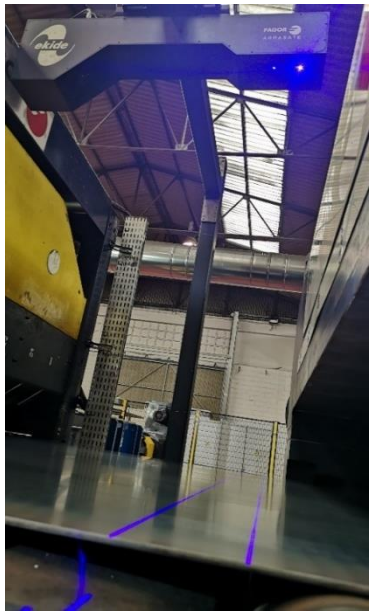
Further:
•Classification of pistachios by color.
•Classification of pistachios into full and empty.

FLATNESS METTER

Measurement of flatness by 3D triangulation of a flat surface in motion.

It is used in sheet metal roll flattening lines, correcting the closed loop flattening process.





PRODUCTS

VGR · VISION-GUIDED ROBOTICS

Through vision, objects are recognized and located; its position, orientation and dimensions are located in space; and give the robot the X, Y and Z coordinates and angles.

COLLABORATIVE ROBOT
POSIBILITY

BIN PICKING

Software to extract parts directly from a container or basket of bulk parts.

PALLETIZING / DEPALLETISING

Extraction or introduction of elements on a pallet. The Software determines the ideal extraction strategy..

PICKING

Apprehension of semi-ordered elements or spread out on a moving surface or conveyor belt.

MAIN CUSTOMERS

Ekide works in many sectors:
automotive, locksmith, logistics and food industry.

Get in touch with us & stay tuned

https://www.ekide.es/

EkideGroup

EkideGroup

ekidegroup

We are committed to the solution