

GTO-AEROSPACE

-AEROSPACE CATALOG-

2024

THIS CATALOG
IS PART OF
gtosupply

gto-aerospace.com



COFOCE®



CANADA

STRATEGIC AND GEOGRAPHIC LOCATION IN THE CENTER OF THE COUNTRY.

3rd City in labor force in the State of Guanajuato with more than 1 million inhabitants in Celaya and suburban area.

UNITED
STATES

- ⌚ Most diversified City in the manufacturing sector.
- ⌚ Important national railway crossing (Ferromex and Canadian Pacific Kansas City).
- ⌚ Job stability and skilled workforce.
- ⌚ 1st. place in exports in the aerospace sector in the State of Guanajuato.
- ⌚ Axis of development and innovation.
- ⌚ Proximity to clients and suppliers.
- ⌚ First class industrial Parks.
- ⌚ Investment Subsidies.
- ⌚ Excellent Educational System.

CELAYA

CELAYA
ES GRANDE POR TI

**THINKING OF MEXICO?
THINK OF CELAYA**



 Desarrollo Económico Celaya |    Celaya.gob.mx



OSCAR RODRIGUEZ YAÑEZ

President of BJX Aerospace Cluster

Mexico has proven to be an attractive destination for investment in the aerospace industry, thanks to its strategic location, highly skilled workforce, and efficient logistical network. This sector not only serves as an economic development engine but also stands as a symbol of innovation and progress.

Currently, **Mexico ranks as the 3° most attractive country for Foreign Direct Investment (FDI)** in the aerospace industry, with exports totaling **\$8.7 million in 2022, creating over 60,000 jobs for 388 plants in 19 states.**

Since its inception in 2006, Guanajuato has experienced remarkable growth. The key to this success lies in Guanajuato's dedicated commitment to the sustainable development of the Aerospace and Aeronautical Industry. Our goal is to be the best hub for this sector in 2040, therefore, *we are working in 4 strategic areas:*

Supply Chain Strengthening: We know that introducing projects to the supply chain not only enhances the aerospace industry's robustness and flexibility but also fosters innovation and sustainable growth by opening new opportunities and improving collaboration among the various actors involved in the chain. As markets evolve, diversification allows companies to leverage their expertise in engineering, manufacturing, and supply chain management to venture into complementary sectors. This is a primary focus of the cluster this year, aiming to *create business plans for companies seeking to diversify into the aerospace sector and bring significant business opportunities.* This strategic move not only provides access to additional markets but also reduces dependence on a single sector, mitigating economic risks and increasing financial stability.

Talent Development: We understand that investing in educational programs ensures a continuous flow of highly skilled professionals, that is why we work with the academy institutions and our members to know which the main qualifications are, to develop the talent that this industry requires.

Promotion: Actively participating in international events, trade shows, and *establishing a strong digital presence* not only attracts potential clients, investors, and strategic partners but also *positions the company as a leader in innovation and quality.* A notable project in this pillar is the creation of the Aerospace Catalog, allowing us to communicate our capabilities to national and international stakeholders.

Fleet Strengthening: We are convinced that a well-trained, motivated, and cohesive team not only enhances operational efficiency but also contributes to the quality and reliability of products. Therefore, we will focus in create a stronger Cluster. One of our goals for this year is to *double the "Gap Analysis" of AS9100D in the state,* providing a clear roadmap for improvement and professionalization of the industry.

Today, we share not only information about the aerospace industry in Guanajuato but also a glimpse into our commitment to excellence, innovation, and the creation of a prosperous future for generations to come.



RAMÓN ALFARO GÓMEZ

Secretary of Economic Development

Aero BJX: An horizon of opportunities

Guanajuato's economic clusters are catalysts for evolution, dynamism and vision for the future.

The economic diversification of this State in Central Mexico is key in the following of worldwide trends, that's why the local Government has policies that require consolidating dynamic sectors with greater value-added and higher technological content. This is where aerospace industry comes along.

This strategy has proved being instrumental in accelerating innovation and specialization for the local economy.

The collaboration among companies helps solving common challenges such as supplier development, competitive human resources, value chains, new business opportunities but overall common requirements.

The cooperation among competitors contributes to economic welfare since they share knowledge and resources in order to attract new investments for a successful Aerospace Cluster.

The inclusion of high value industry in the local economy enables and encourages the creation of new highly skilled jobs.

The diversification towards the inclusion of the aerospace sector ensures a more sustainable development and a stronger local economy; Guanajuato's labor force and talent has shown its resilience and adaptability to the ever changing global market demands.

By taking advantage of the synergy between innovation and collaboration, we can chart a path of new opportunities that drives economic diversification and position our regions at the forefront of the technological revolution.

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OEM



**INDIRECT
PRODUCT
& SERVICES**



**MRO
SUPPLIERS**



INSTITUTIONS

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INDIRECT PRODUCT AND SERVICES

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MRO SUPPLIERS

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INSTITUTIONS

COLEGIO AERONAUTICO	74
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» COMPANIES INDEX BY PROCESS

METAL FORMING

ADDITIVE MANUFACTURING

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CASTING

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PLASTIC MOLDING

ADDITIVE MANUFACTURING

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P. 48 HORIZONTEC

LEATHER

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FPI

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INFUSION

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TOOLING

P. 50 NEXTIA

SERVICES

ENGINEERING SIMULATION & DESIGN

P. 54 INGEDETEC
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SOFTWARE DEVELOPMENT

P. 62 GRUPO SSC
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BJX AEROSPACE
SUMMIT 4.0 **2024**

—
REGISTRATION
REQUIRED

AEROSPACE SUMMIT

WWW.BJXAEROSPACE.ORG



2024 // CLÚSTER AEROESPACIAL DEL BAÚO

@BJXAEROSPACE

AEROSPACE INDUSTRY IN MEXICO



AEROSPACE INDUSTRY IN MEXICO

2022



7TH PLACE IN THE GLOBAL AEROSPACE INDUSTRY

Mexico ranked 7th among the 208 exporting countries of the aeronautical industry with a 1.82% share of the global trade of this industry.



6TH PLACE AS A U.S. SUPPLIER

In less than 10 years, Mexico went from being the 10th supplier of products to the U.S. aviation industry to now occupying the 6th place.



1ST PLACE IN ATTRACTING FDI FROM THE GLOBAL AEROSPACE INDUSTRY

In the last 15 years, Mexico has been the main destination for Foreign Direct Investment in the aerospace industry, above China and India.



*B: billion dollars

*CAGR: Compound Annual Growth Rate (Exports 2020-2022)

INTERNATIONAL TRADE OF THE AEROSPACE INDUSTRY OF MEXICO

**EXPORTS
AEROSPACE
2023**

**9.2 Billion
USD**

Estimated Annual Variation

-24.22%
2022-2023



**73 EXPORTED
PRODUCTS**

8-digit products
(2023)

Source: COFOCE, OCT 2023



**AEROSPACE EQUIPMENT
MANUFACTURING GDP
(2023)**

1.44

BILLIONS OF USD



**MANUFACTURING
GDP SHARE 2023**

0.46%

GTO AEROSPACE 2024

AEROSPACE INDUSTRY INFRASTRUCTURE IN MEXICO

97
BAJA
CALIFORNIA

58
SONORA

52
CHIHUAHUA

14
COAHUILA

33
NUEVO
LEON

12
TAMAULIPAS

2
SAN LUIS POTOSI

50
QUERETARO

2
YUCATAN

1
AGUASCALIENTES

10
JALISCO

14
GUANAJUATO

10
ESTADO DE
MEXICO

13
MEXICO
CITY

1
OAXACA

1
HIDALGO

2
PUEBLA

318 MFG - 86%

43 MRO - 12%

40 D&E - 11%



382











INDUSTRIAL
FACILITIES



19
STATES

TOP 10 LARGEST EXPORTERS

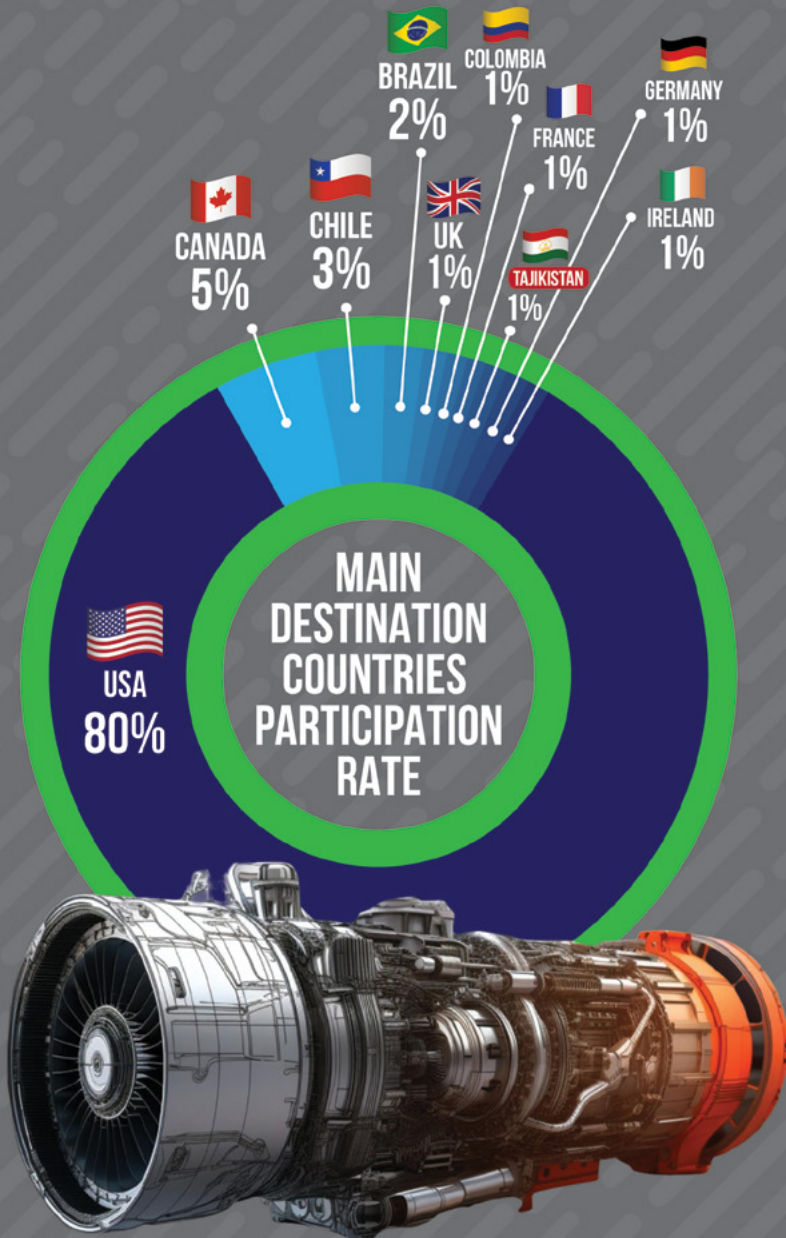
(2022)

1	17.1%		CHINA
2	11.6%		GERMANY
3	7.9%		USA
4	6.8%		FRANCE
5	4.7%		UK
6	4.4%		JAPAN
7	4.2%		MEXICO
8	3.5%		HONG KONG
9	2.8%		SINGAPORE
10	2.6%		ITALY



**MEXICO RANKS 7TH IN THE GLOBAL
AEROSPACE INDUSTRY**

MAJOR TRADING PARTNERS COUNTRIES FOR MEXICO'S AEROSPACE INDUSTRY (2023)



EXPORTS

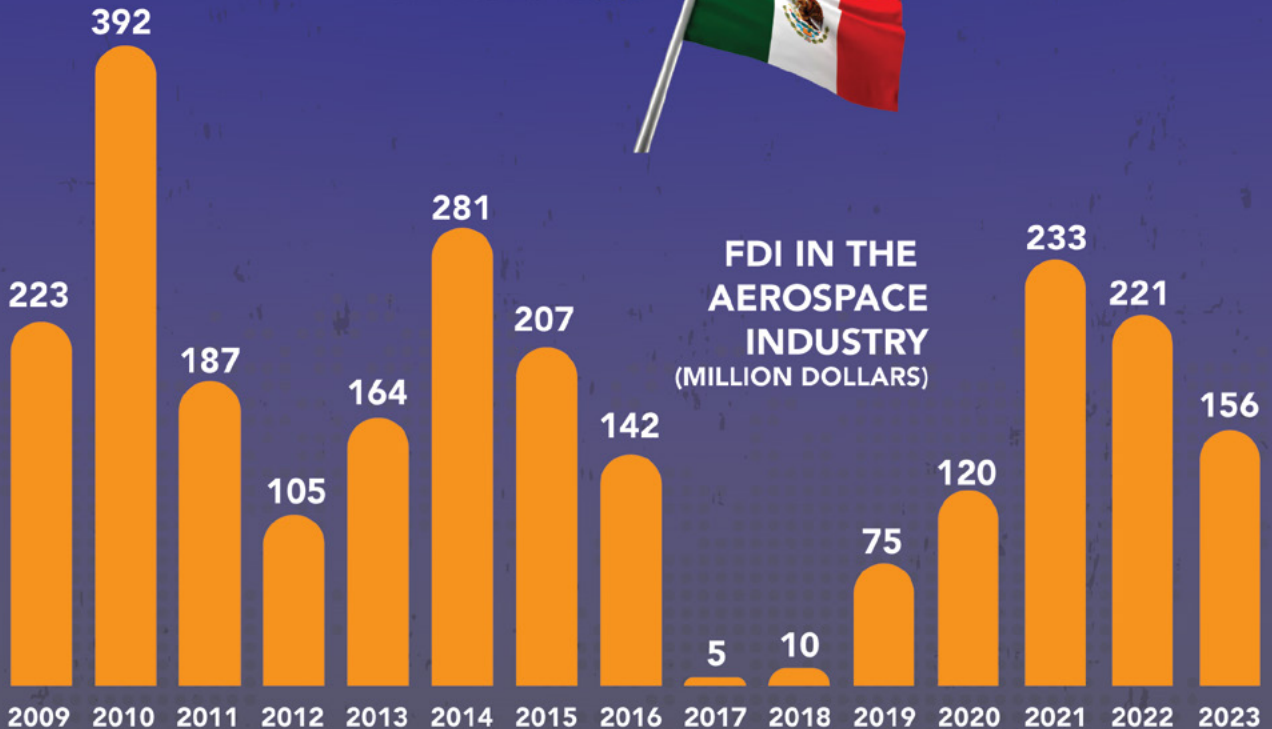
	MUSD	%PART
USA	7	80%
CANADA	0.490	5%
CHILE	0.271	3%
BRAZIL	0.141	2%
UK	0.135	1%
COLOMBIA	0.123	1%
FRANCE	0.108	1%
TAJIKISTAN	0.092	1%
GERMANY	0.091	1%
IRELAND	0.071	1%
TOTAL	9	100%

MAIN COMMERCIALIZED PRODUCTS OF THE AEROSPACE INDUSTRY IN MEXICO 2023



HS Code	Product Description	USD BUSD	Main Destination Country
88024001	Airplanes and other aircraft, of an unladen weight exceeding 15,000 kg.	4	
98060006	Upon the request of the Department of State, diplomatic couriers of foreign governments	3	
84111201	Of a thrust exceeding 25 kN	0.550	
88073091	Other parts of airplanes, helicopters or unmanned aircraft	0.338	
88072001	Undercarriages and parts thereof	0.145	
88023099	Airplanes and other aircraft, of an unladen weight exceeding 2,000 kg but not exceeding 15,000 kg	0.145	
85443001	Ignition wiring sets and other wiring sets of a kind used in vehicles, aircraft or ships	0.073	
85444205	Fitted with connectors	0.042	
88079099	Other	0.035	
90142001	Instruments and appliances for aeronautical or space navigation (other than compasses)	0.034	

FOREIGN DIRECT INVESTMENT IN MEXICO



ORIGIN OF COMPANIES ESTABLISHED IN MEXICO



66%



14%



8%



3%



3%

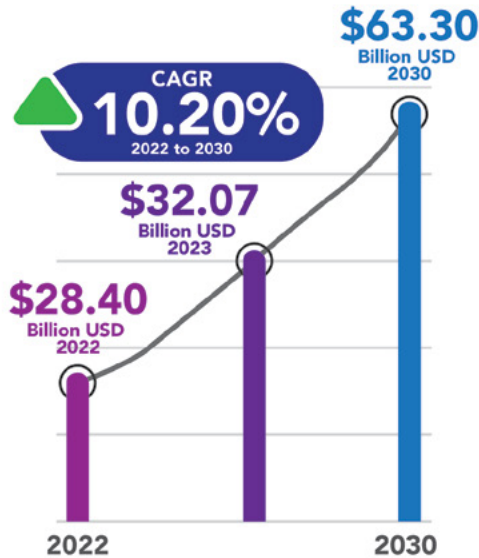
OTHERS

3%



2%

WORLDWIDE INTERIORS MARKET 2022

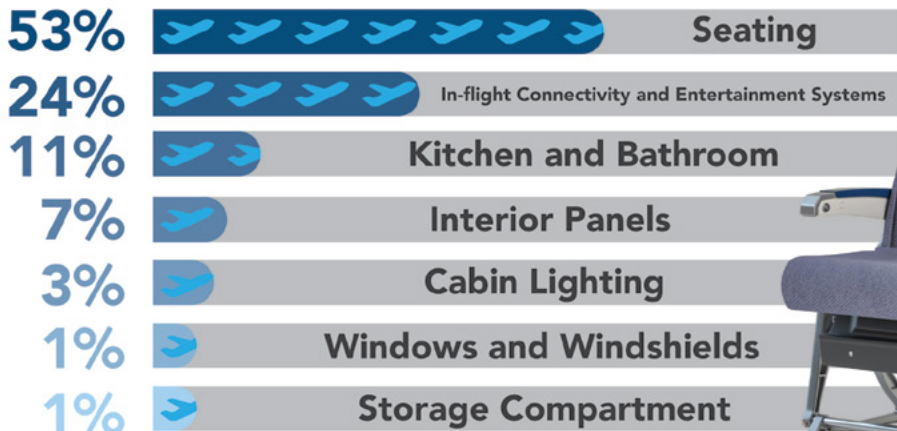


The seating segment has **experienced high demand during the 2022 period**, driven by the increased demand for commercial aircraft.

The connectivity and in-flight entertainment segment are expected to grow due to **technological advances and the availability of content for in-flight entertainment**.

Likewise, there is an **increase in demand for the renewal and retrofitting** of older aircraft and jets to extend their service life.

MARKET SEGMENTATION



AIRCRAFT SEATING MARKET 2022



\$6.40
Billion USD

CAGR VALUE
(2022-2032)

8.6%
Seat Activation



\$6.37
Billion USD

Connectivity & Entertainment

Seating

· It's expected that the majority of the revenue will be generated by the economy class.

· Airlines are paying more attention to passengers in this segment, which has an impact on the design, innovation and optimization of ergonomics.

Market Value 2022

- Low-cost airlines are replacing seat structures.
- The aviation safety agencies of the USA and the EU have allowed various regulatory guidelines regarding the expansion of PED usage for passengers.

3.6%
Upholstery

15.9%
Connectivity & Entertainment

6.8%
Seating



\$6.37
Billion USD

Seat Activation

- Investments in technologies to manufacture thin panels and other seat components to reduce costs are expected.
- Due to the expense involved, most manufacturers only deploy these seats in luxury sections.



\$1.90
Billion USD

Upholstery

· Airlines are focusing on projecting image, and the modernization of the cabin emerges as a viable solution due to the balance between cost and aesthetics.

Market Value 2022

Note: CAGR, Compound Annual Growth Rate.
Source: Fortune business insights.

MRO MARKET 2023



CAGR
(Compound)

5.15%

\$82.64

Billion USD

\$122.4

Billion USD



2022



2030

Market value 2022

\$82.64

Billion USD

MARKET SEGMENTATION

46%
Engine

20%
Airframe

20%
Component

14%
Line

Modern aircraft are equipped with advanced technologies, making **maintenance more complex and specialized.**

MRO providers need to continuously invest in training and equipment these advancements, which can be challenging and costly.

The background features a dark, textured surface with a prominent grid pattern that appears to be a mesh or a woven fabric. The grid lines are light gray or white, creating a strong contrast against the dark background. The overall composition is abstract and modern, with a focus on geometric shapes and textures.

AEROSPACE INDUSTRY IN GUANAJUATO

WHERE IS GUANAJUATO?



THE MOST DYNAMIC REGION IN MEXICO

Within a 400 km radius:

80% of the Mexican market

70% of the Mexican Industry and foreign trade

60% of the total country population

30% Aerospace Industry in Mexico

BJX AEROSPACE MEMBERS & ALLIES

Government

Federal



State



Municipalities



CELAYA
GOBIERNO MUNICIPAL
2021-2024



LEÓN
GOBIERNO MUNICIPAL

Academy



UNIVERSIDAD DE
GUANAJUATO



TECNOLÓGICO
NACIONAL DE MÉXICO



IECA
Instituto Estatal de Capacitación



R&D



CIATEC



Parque Tecnológico Sanmiguelense



Airports



Grupo
Aeroportuario
del Pacífico



CELAYA
ES GRANDE POR TI



BJXAEROSPACE
CLUSTER AEROSPAIAL DEL BAJÍO, A.C.

Certifying Entities

AENOR
Confía



Industry

OEM



MRO



Development Program



Indirect



Global Transport and Logistics

Services



Entrepreneurs

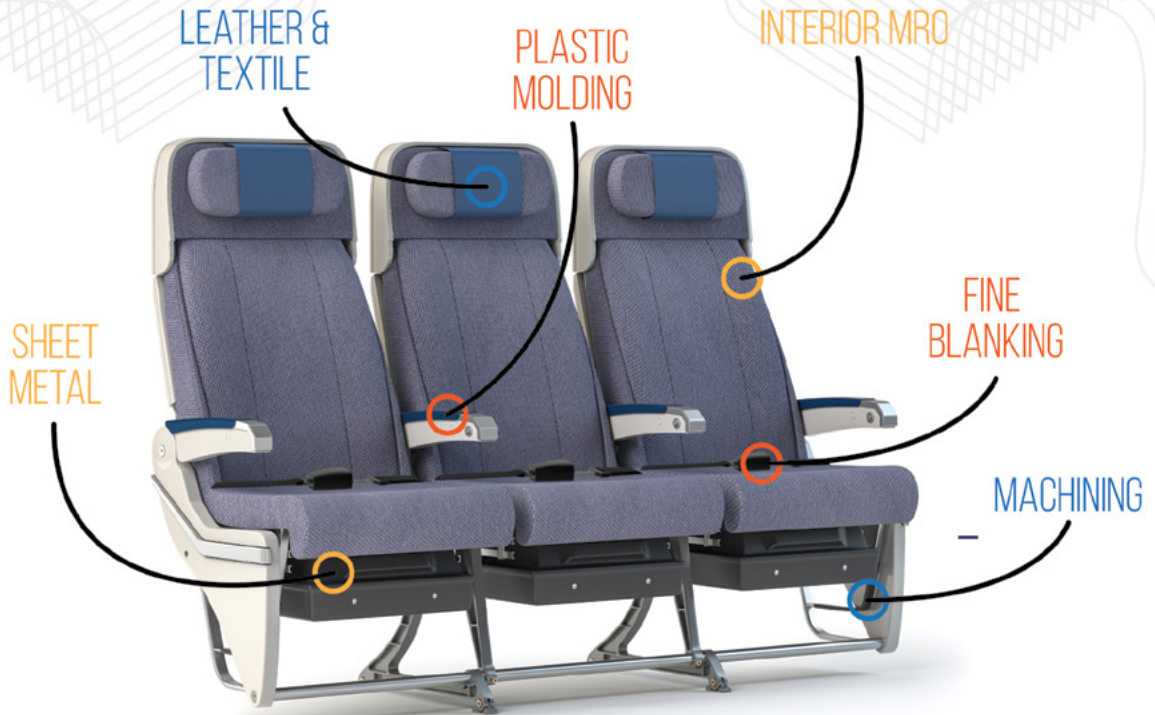


Aerospace Clusters & Allies



GTO AEROSPACE 2024

MANUFACTURING & PRODUCTS CAPABILITIES



OTHERS: ADDITIVE MANUFACTURING,
CASTING, DESIGN, SOFTWARE, AMONG OTHERS

AEROSPACE SUPPLIER DEVELOPMENT PROGRAM 2024

Current Capabilities in Guanajuato	#Companies	IATF 16949	ISO 9001:2015	AS9100	NADCAP	FAA	AFAC
Additive Manufacturing	1	-	-	1	-	-	-
Castings (Investment & Sand)	1	-	1	-	-	-	-
Coatings (Anodized)	1	-	-	-	1	-	-
Composites	1	-	-	In progress	-	-	-
Design	1	-	-	-	-	-	-
Interior MRO	1	-	1	1	-	1	1
Machining	3	-	-	2	-	-	-
Plastic Injection Molding	2	1	1	-	-	-	-
Sheet Metal	2	-	1	1	-	-	-

TALENT DEVELOPMENT STATISTICS

Degree & Number of Academy
Institutions in our State



Pilots

2



**Flight
Attendants**

2



Engineers

2



Technicians

3



GTO AEROSPACE 2024

WHO ARE WE?

Non profit association that facilitates the link between aerospace companies, government and academy institutions for the development of industrial policies that promote the growth of the aerospace industry in Guanajuato.

VISION

To become a key actor for the Aerospace and aeronautics industry in Mexico and worldwide, by promoting and boosting the opportunities for the development of the sector.

MISSION

Promote the sustainable development of the aerospace industry in Guanajuato through the collaboration between our stakeholders.

VALUES

Trust
Collaboration
Transparency
Integrity

BJX AEROSPACE COMMITTEES



**Talent
Development**



**Supply Chain
Integration**



Promotion



Innovation

GTO AEROSPACE 2024

TALENT DEVELOPMENT

RETO SAFRAN

DEPLOY & HR SURVEY

COMPETITIVENESS PROGRAM
FOR COLLEGES

SPECIALIZED JOB BANK SERVICE

NASA SPACE APP
CHALLENGES HACKATHON

PLANT TOURS FOR STUDENTS



SUPPLY CHAIN INTEGRATION



PROMOTION



1

GTO-AEROSPACE
-CATALOG 2024-

2

AEROSPACE
MEETINGS QUERETARO
February 21-22, 2024
Feb 21th - 22th



3



AVIATION WEEK
MRO
AMERICAS
April 9th - 11th

4

SUN n FUN
AEROSPACE EXPO
April 9th - 14th

5

FARNBOROUGH
INTERNATIONAL
AIRSHOW
July 22th - 26th



6

EAA AIRVENTURE
OSHKOSH
Sep 5th - 6th

7



AEROSPACE
SUMMIT 4.0

GUANAJUATO'S COMPETITIVENESS ADVANTAGES

Guanajuato State offers to Foreign and National Companies the best conditions to set up manufacturing, logistics, and R&D operations. More than 500 projects have chosen Guanajuato State as the best partner to expand their business thanks to qualified labor, availability, quality of life, security, a strategic location in Central Mexico and modern infrastructures.

We invite all project leaders to discover business opportunities in our State and request an incentive proposal.



Guanajuato offers a

2.6 million
workforce

for a total
population of

6.1 million
inhabitants.



Education
based on industry
needs with more
than

45 *university*
campus
& **31** *State*
Training
Center
(IECA)



Guanajuato State has
a modern
infrastructure with
state and
federal roads,
airport, freight train,
industrial park, and
sustainable
electricity
generation projects.



Contribution to
the National GDP:
4.4% *Exports*
Variation
in the last 10 years:
+226%
GDP: \$50.8
billion USD
GDP per Capita:
\$7,977
USD

GTO AEROSPACE 2024

MAIN INDUSTRIAL PARKS





**GTO
AEROSPACE** 

HOW WE ASSIST?



FIND THE RIGHT PARTNER TO YOUR BUSINESS

GTO-AEROSPACE is a COFOCE program that assists aerospace buyers to connect with suppliers in Guanajuato, Mexico.

Services for the buyer:

- Providing information about the current supplier base in Guanajuato.
- Filtering supplier lists according to the company's specific requirements.
- Arranging business meetings between potential suppliers and buyers.

As Government of Guanajuato, we are pleased to offer suppliers the opportunity to apply for a **State Grant** to obtain the **AS 9100 & NADCAP certification**.

www.gtosupply.com/aerospace



COFOCE[®]

AEROSPACE EXPORTS

**EXPORTS
AEROSPACE
2023**

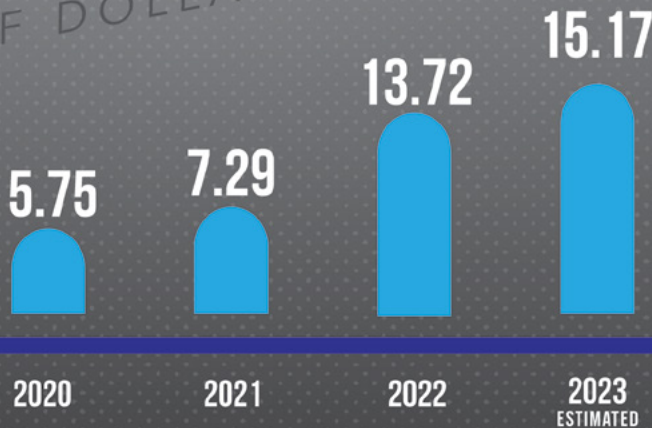
13.6 Million USD

Represents 0.07% of the
exports in Guanajuato
OCT 2023

**AEROSPACE
EXPORTS**
(MILLIONS
OF DOLLARS)



Annual Variation
Oct 2022 - Oct 2023
▲ 20.84%



Source: COFOCE with information from Datasur



**6 PRODUCTS
EXPORTED
IN 2023**



**8 * EXPORTING
COMPANIES
2023**






*Companies that exported a component or product
classified within the aeronautical sector.
Source: COFOCE with information from Datasur



**+1,000
Direct Jobs**
**+5,000
Indirect Jobs**

AEROSPACE EXPORTS

EXPORTED PRODUCTS (8 DIGITS)

CODE	PRODUCT	MUSD	MAIN DESTINATION COUNTRY
880730	Other parts of airplanes, helicopters or unmanned aircraft	\$13,509,841	
848180	Other appliances	\$110,978	
848140	Safety or relief valves	\$56,190	
854430	Ignition wiring sets and other wiring sets of a kind used in vehicles, aircraft or ships	\$1,074	
853650	Other switches	\$582	



EXPORTING MUNICIPALITIES

CELAYA	\$13,451,860
IRAPUATO	\$110,978
LEON	\$62,346
SMA	\$52,896
ACAMBARO	\$582

USD



MAIN DESTINATION COUNTRIES

	USD	%PART.
USA 	\$21,536,555	98.63%
TURKEY 	\$221,176	1.01%
MALAYSIA 	\$54,774	0.25%
JAPAN 	\$16,577	0.08%
BELIZE 	\$3,281	0.02%

Source: COFOCE with information from Datasur

»»OEM
suppliers



ABOUT COMPANY

ATG Additive Manufacturing (AM), is a group made up of the Guanajuato companies Alguim, Temaplast, Grupo GPA and Optimen, which join efforts and skills to create a strategic partnership that opens the doors to a new form of manufacturing in Mexico. Our company was created with the firm intention of being part of the growth and development of our country in strategic sectors such as Aerospace, Medical, Molds, and Special Tools. Our main activities include the design, simulation, and manufacturing of special parts using Additive Manufacturing of Metals (3D printing in Metals).

SEGMENT

- Aerostructure
- Cabin and Interiors

PROCESSES

Metal Forming

- Additive Manufacturing

Plastic Molding

- Additive Manufacturing (Prototyped)

Special Processes

- Assemblies

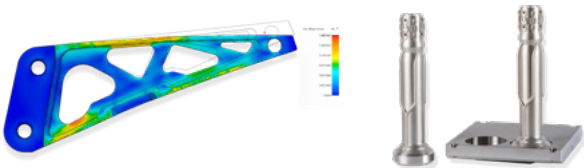
Design & Simulation

MATERIALS

- SS316L
- Maraging Steel MS1
- Al6061
- Al7075
- A36
- D2

SOFTWARE LICENSES

- Ansys
- Solid Works



WORKMANSHIP

» WORKMANSHIP
24 people

11 Women
13 Men

» AEROSPACE
EXPERIENCE

32 years (GPA)
17 years (Optimen)
11 years (Temaplast)

46%
WOMEN



54%
MEN

MAIN CUSTOMERS

- Horizontec

MACHINERY & EQUIPMENT

- EOS M290

METROLOGY EQUIPMENT

- FARO SYSTEMS

CERTIFICATIONS

- AS9100D
- ISO 9001:2015

MAIN DESTINATIONS

- USA

LOCATION



ATG ADDITIVE MANUFACTURING SAPI DE C.V.

Avenida Olimpica #3006, Leon, Guanajuato, Mexico. ZIP 37295

www.atgadditive.com.mx / carlos.alastair@atgadditive.com

Phone: +52 (55) 6083 7193



ABOUT COMPANY

CEI AEROSPACE GROUP is a company founded by an alliance of Mexican companies with over 30 years of experience in various sectors. CEI AEROSPACE is the business unit of Grupo GPA and Optimen specialized in the manufacture of parts and assemblies for the aerospace sector. Our main offer is the manufacturing of various parts using the Sheet Metal process, as part of our comprehensive value proposition. Through our allied partners, we also offer services such as Additive Manufacturing, Software Development, Design and Simulation, Process Optimization, Automation and Robotics, Cutting Systems, Machining, and Reverse Engineering.

SEGMENT

- **Aerostructures**
- **Cabin and Interiors**

PROCESSES

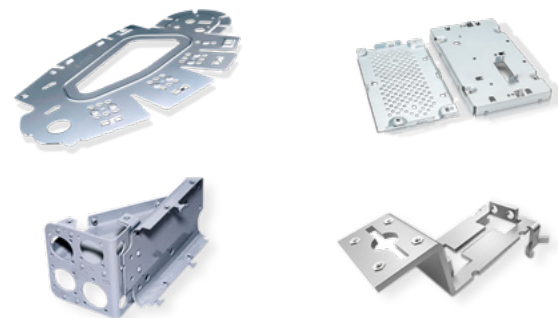
- Metal Forming**
 - Sheet Metal
- Special Processes**
 - Powder Coating

MATERIALS

- Al6061T6
- Al2024T3
- Al7075
- A463 ALUMINIZED STEEL
- AISI1008
- STAINLESS STEEL 304
- SAE 1018

SOFTWARE LICENSES

- Ansys
- Solid Works

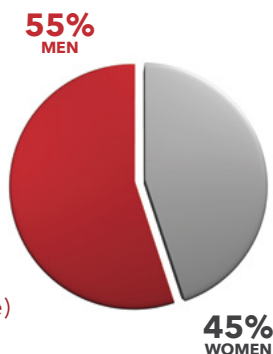


WORKMANSHIP

» **WORKMANSHIP**
20 people

9 Women
11 Men

» **EXPERIENCE**
30 years (GPA)
+3 years (in Aerospace)
17 years (Optimen)



MAIN CUSTOMERS

- RECARO
- SPEQTRUM

MACHINERY & EQUIPMENT

- Trumpf Machine Trumatic 3000
- Press Bending
- Special Painting Booth

METROLOGY EQUIPMENT

- FARO SYSTEMS

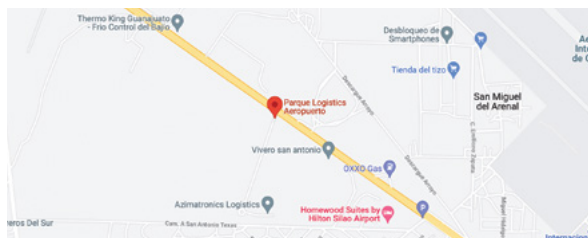
CERTIFICATIONS

- AS9100 D

MAIN DESTINATIONS

- Dallas Forth Worth, USA

LOCATION



CEI AEROSPACE GROUP, S.A.P.I. DE C.V.

Parque Logistics Aeropuerto #157 Col. Industrial, Silao, Guanajuato, Mexico. ZIP 36274
carlos.alastair@ceiaerospace.com.mx



ABOUT COMPANY

We carry out projects from design, models, manufacturing, machining and surface finishes, such as refractory steel tooling for heat treatment, steel, gray iron, nodular iron, bronze and aluminum in investment casting and sand casting processes in short runs. Located in Loza de los Padres, Leon Guanajuato, Mexico.

SEGMENT

- Engine

PROCESSES

Machining	Investment Casting	Sand Casting
Centrifugation	Molding	

CAPABILITIES

Induction Melting:
Induction melting equipped with three units to make mainly ferrous alloys.

Tilt Pour Casting:
Melting in tilting furnaces equipped with three units to make non-ferrous alloys.

MACHINERY
& EQUIPMENT

Machining:
Conventional Machining
Flip up to 18" and a length between centers of 63".
CNC Turning Center
6" flip and a length between centers of 24

Laboratory
Chemical and hardness laboratory to carry out metallurgical control and certification of molten alloys equipped with two spectrometers, one laboratory and one portable with the capacity to read copper-based, iron-based and aluminum-based alloys in three different matrices.
Dimensional and prototypes laboratory to perform dimensional analysis, a 3D printing equipment for prototype manufacturing.



CERTIFICATIONS

- ISO-9001
- CLAUGTO



LOCATION



\$1
MUSD
ANNUAL SALES

WORKMANSHIP

» WORKMANSHIP

25 people

5 Women
20 Men

» AEROSPACE EXPERIENCE

2 years



FUNPREBA DIVISION CASTING

Camino a la Loza de los Padres km 2, Leon, Guanajuato, Mexico. ZIP 37680

www.funpreba.com / equipomultidisciplinario@funpreba.com

Phone: +52 (479) 232 5181



ABOUT COMPANY

Harris Manufacturing Solutions combines 80 years of aerospace fabrication, assembly and processing from E.W. Johnson Co. and J.D. Morris Machine into one facility, providing our customers a single solution to their manufacturing needs, with a new location in Celaya, Mexico. Our certifications in both industry and customer specifications, span commercial and military applications (in our Texas facility) and allow for a broad spectrum of manufacturing abilities.

SEGMENT

- **Aerostructures**
- **Cabin & Interiors**
- **Electric & Electronics System**

MATERIALS

- Aluminum
- Stainless Steel
- Nylon

PROCESSES

- Metal Forming**
- Machining
- Special Processes**
- Chemical Treatment
- Others**
- Sheet Metal
 - FPI
 - Assembly
 - Plating

SOFTWARE
LICENSES

- CATIA

MACHINERY
& EQUIPMENT

3 axis machines, 4 axis machines, 5 axis machines, 8 axis machine, turning machines.

METROLOGY
EQUIPMENT

Angle block, pin gauges, micrometers, vernier gages, radius gauge.



SALES BY SECTORS

» **WORKMANSHIP**
21 people

» **AEROSPACE EXPERIENCE**
2 years (in Mexico)
+80 years (in Texas)



100%
AEROSPACE

MAIN CUSTOMERS

- Lockheed Martin
- Spirit
- Spectrum
- Triumph
- BAE

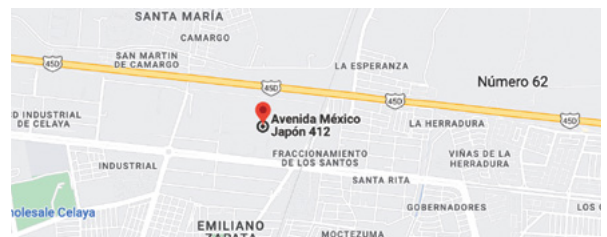
CERTIFICATIONS

- AS9100 D
- NADCAP
- ISO 9001
- IVA - IEPS
- OEA
- IMMEX

MAIN DESTINATIONS

- Lewisville, Texas

LOCATION



HARRIS MANUFACTURING SOLUTIONS DE MEXICO

Av. Mexico Japon #412, Int. 50-52, Ciudad Industrial Novopark, Celaya, Guanajuato, Mexico. ZIP 38010

www.hmsaero.com | iboswell@hmsaero.com

Phone: +52 (461) 249 4678



ABOUT COMPANY

We are an aeronautical Mexican OEM, company founded in 2014, dedicate to design, development, and manufacture of LSA (Light sport aircraft) category and aerospace components. Our commercial product is the Halcón 2 aircraft, built with composite materials, mainly carbon fiber and epoxy resin. Our factory is located at the Celaya airport in the state of Guanajuato.

Currently, the Halcón 2 is flying all over Mexico and in seek of expanding its exposure by attending to international events. You can now purchase one of this aircrafts

SEGMENT

- LSA (Light Sport Aircraft)

MATERIALS

- Carbon fiber

PRODUCT

Halcón 2 is an LSA aircraft made of composite materials, two-seater, side-by-side, and equipped with a 141 Hp Rotax 915 is engine.

A versatile, easy-to-fly, and safe aircraft designed for schools, for training Mexico's future pilots, as well as for aerial surveillance, recreation, and sports.

PROCESSES

Composites

- Carbon fiber

Textile & Leather

- Hook and loop

Others

- Infusion

SOFTWARE LICENSES

- Ansys
- NX

MACHINERY & EQUIPMENT

Oven for post cure treatment; cnc 3 axis for master molds.





MAIN CUSTOMERS

- Flight Schools
- Private Pilots
- Air Surveillance

CERTIFICATIONS

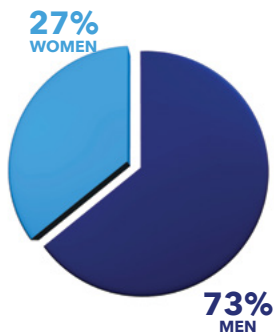
- Currently the aircraft obtained the TIPO certification by the AFAC.
- Airworthiness certificate.
- AS9100 (In process).
- Airworthiness certificate.



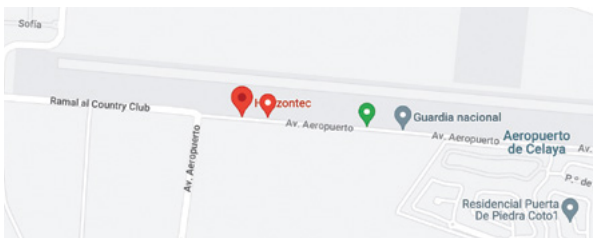
WORKMANSHIP

» WORKMANSHIP
14 people

4 Women
11 Men



LOCATION



HORIZONTEC S.A. DE C.V.

Aeropuerto de Celaya, Hangar 1W, Av. Aeropuerto, Celaya, Guanajuato, Mexico. ZIP 38119
www.horizontec.com.mx / a.salem@horizontec.com.mx
 Phone: +52 (461) 103 2457

ABOUT COMPANY

Founded in 2023 by two young visionaries, our company is dedicated to the manufacturing of tooling, machining, and commercialization, with a special focus on providing innovative solutions to the aerospace industry. Since our inception, we have been committed to making a significant impact in the Mexican aviation manufacturing sector. Our passion for excellence and innovation drives us to offer products and services of the highest quality, contributing to the development and competitiveness of the aerospace industry in our country.

SEGMENT

- Tooling

MATERIALS

- Carbon Steel
- Stainless Steel
- Special Alloys

PROCESSES

- Metal Forming**
- Machining

- Others**
- Tooling
 - Welding

MACHINERY & EQUIPMENT

3 welding machines, a manual plasma cutter, and conventional machining equipment.

PRODUCT

**Tooling Manufacturing
/ Commercialization**



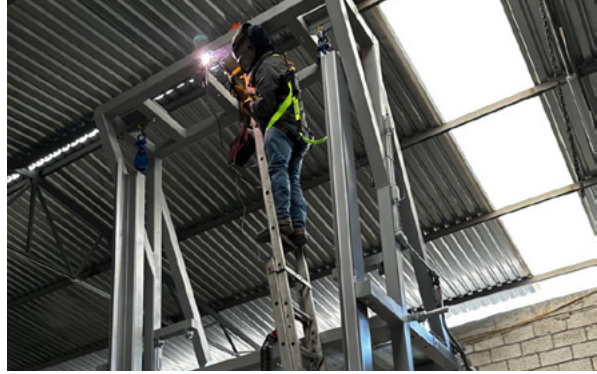


MAIN CUSTOMERS

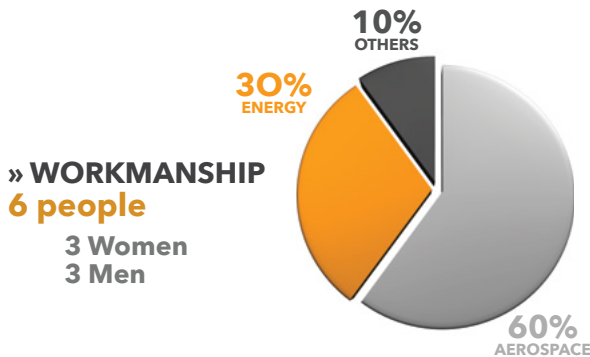
- Horizontec
- Bombardier

CERTIFICATIONS

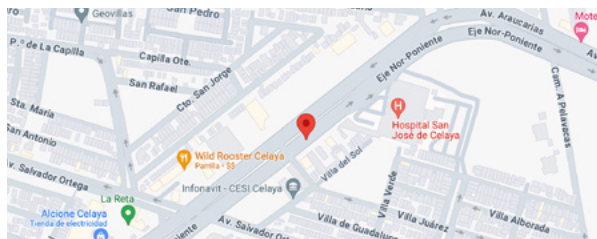
- AWS
- AS 9100 (In process)



SALES BY SECTORS

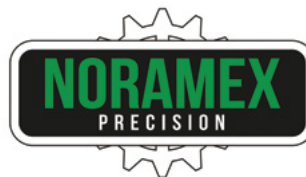


LOCATION



NEXTIA INGENIERIA

Surcursal Celaya: Eje Nor Poniente #222-C, Villa de la Hacienda, Celaya, Gto.
www.nextiaingenieria.com / contacto@nextiaingenieria.com
 Phone: +52 (446) 170 0156 / +52 (446) 170 0155



ABOUT COMPANY

Industrias Noramex is a family-owned machining company that has specialized in the rubber and plastic industry for fifty years. Today, with its high demands and with the growth of the industry, it has continued its expansion by branching out and by opening Noramex Precision, a high precision machining and mold manufacturing company that offers an in-house full service to its clients in the automotive, aeronautical, rubber and plastic industry, offering solutions and all other requirements needed for the client's needs. With the expansion that comes from the company's own investment capital, the growth of the company has helped the growth of its clients as well, making Industrias Noramex and Noramex Precision leaders in the machining field.

SEGMENT

- Aerostructures
- Cabin & Interiors

MATERIALS

- Aluminum
- Metal
- Polymers

PROCESSES

Metal Forming

- Forging

TPR Injection Molding

- Injection Molding

Rubber

- Vulcanization

Special Processes

- Assemblies
- Precision Machining

MACHINERY & EQUIPMENT

CNC VMC up to 5 axis,
EDM up to 3 axis, Wire
cutting EDM 5 axis, CMM
Measuring equipment,
CNC and conventional
lathe up to 5m diameter.



METROLOGY EQUIPMENT

CMM Measuring
equipment



MAIN CUSTOMERS

- Michellin
- Continental
- Pirelli
- Norden

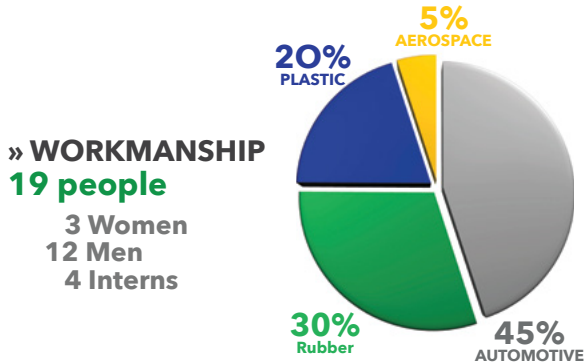
CERTIFICATIONS

- ISO 9001 (in process)
- AS9100 D (in process)
- IMMEX

MAIN DESTINATIONS

- USA

SALES BY SECTORS



LOCATION



NORAMEX PRECISION SA DE CV

Bldv. Aeropuerto km 10.5 local 15, Leon, Guanajuato, Mexico. ZIP 37299

www.noramexpresicion.com / ddn@noramexpresicion.com

Phone: +52 (477) 772 6401

ABOUT COMPANY

Novatec Group is a Spanish/Mexican company dedicated to the automotive industry with 4 production plants on 3 continents: Naquera- Spain, Tangier-Morocco, Leon-Mexico and Chomutov-Czech Republic. Focused on plastic injection, specialized in the design, development and manufacture of parts for external and interior lighting, based on highly specialized production processes with high dimensional and appearance requirements, as well as subassemblies and added- value processes.

- Tool Shop
- Process Control W/Artificial Vision

About Ingedetec:

Ingedetec is a company that works along Novatec Group. Company involve on design, consulting, testing and quality management.

SEGMENTS	<ul style="list-style-type: none"> • Cabin and Exterior & Interior Lighting 	MATERIALS	<ul style="list-style-type: none"> • PC • PMMA • ABS • TPU / TPV • PA • PBT
PROCESSES	Plastic Molding <ul style="list-style-type: none"> • Injection Molding 		
MACHINERY & EQUIPMENT	<ul style="list-style-type: none"> • G200 1K • G600 1K • G200 2K • G600 2K • G400 1K • G800 2K • G400 2k • G1500 2K 	SOFTWARE LICENSES	<ul style="list-style-type: none"> • CATIA V5 R30 • S Spinfire Reader 11.9.2 • CAD Assitant • Solidworks 2021 • Glovius
PRODUCTS	<div> <ul style="list-style-type: none"> • Head Lamp Components - Lighting Products • Rear Lamp Components - Lighting Products • Small Lighting with Complex Assemblies </div> <div> <ul style="list-style-type: none"> • Interior Lighting • Interior Cosmetics • Structural parts with High Tolerance Requests • Fuel Flap • Fuel Filing Modules </div>		
METROLOGY EQUIPMENT	<div> <ul style="list-style-type: none"> • Photometric analysis • Raw Materials tests • Environmental tests </div> <div> <ul style="list-style-type: none"> • Vibration and stress tests • 3D Metrology • Scanning tests </div>		



CERTIFICATIONS

Novatec:

- ISO 14001
- IATF 16949
- IMMEX

Ingedetec:

- Tisax Level 3
- ISO 9001:2015

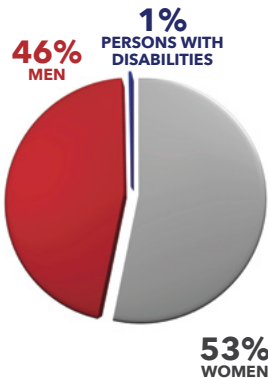
CAPABILITIES

- Mold engineering for the products we make (molds and control gauges)
- Automation engineering
- Metrology (production and PPAP)
- Laboratory Test
- Full PPAP report
- R&D (research and development)
- 1K / 2K injection machines (G200 1K - G1500 2K)
- Laser Cutting
- Optical/ Lighting Parts
- Assy process
- 6 AXIS Robot
- Lighthing
- Electronics Assembly



WORKMANSHIP

» **WORKMANSHIP**
293 people
 156 Women
 136 Men
 1 Persons
 with
 Disabilities



NOVATEC LEON

Parque Industrial #301, Leon, Guanajuato, Mexico. ZIP 37668
www.novatecgroup.com/en | Iramirez@novatecleon.com
 Phone: +52 (477) 167 6967

LOCATION



INGEDETEC

Circuito Paseo de las Colinas #301 Parque Industrial Colinas de Leon, Leon Gto. ZIP 37668
ingedetec-leon@ingedetec-group.com
ogtorres@novatecleon.com
 Phone: +52 (477) 167 6967



ABOUT COMPANY

SpeQtrum Aerospace Mexico is the manufacturer of critical to safety assemblies. We are ISO-9001:2015 and AS9100D certified, we have wide implemented the FOD program on all our areas and the Lean Manufacturing culture fully integrated on all our activities, we are exporters to customers in United States, Korea, Malaysia and Japan. With the IMMEX program implemented on our logistic operation, we are proud of the Kanban system implemented in all of our supply chain structure, from our customer to our suppliers.

SEGMENT	<ul style="list-style-type: none"> • Large aerostructures 	MATERIALS	<ul style="list-style-type: none"> • Aluminium-Stainless • Steel-Carbon • Steel
PROCESSES	<ul style="list-style-type: none"> • Sheet metal fabrication: shear, blanking, CNC routing, water jet, CNC brake press, hydro forming, stamping presses, paint booth and turret punching CNC machine. 	SOFTWARE LICENSES	<ul style="list-style-type: none"> • Catia V5 • Vericut • Master CAM • Radan • Inventor • PC-DMIS
MACHINERY & EQUIPMENT	Large 5 axis (Head) Machining X 130 in, Y 50 in, Z 27 in, A 110, B 110. 2.- Tolerances True position less than 0.005 in. 3.- Water Jet 120 in x 48 in. Machining 5 axis (trunion) X 56 in-Y 41 in - Z 25 in - A 90 to -120 grades - B 360 grades. CNC Brake Press 70 in Length		
METROLOGY EQUIPMENT	CMM X 19 in - Y 118 in - Z 39 in. Rommer Arm. PC-DMIS software. Optical comparator.		



MAIN CUSTOMERS

- Spirit Aerosystems
- Boeing
- Airbus
- Gulfstream

CERTIFICATIONS

- AS9100D
- ISO-9001:2015
- FAA
- IMMEX
- FOD Program Implemented
- Lean Manufacturing
- AIAG CQI
- VDA
- MSQ 2.0
- ESR

APPROVALS

- Boeing
- Spirit
- Gulfstream DPD / MBD
- Airbus

MAIN DESTINATIONS

- Wichita, KS, USA
- St Louis, MO, USA

SALES BY SECTORS

» WORKMANSHIP

130 people

40 Women
90 Men

» AEROSPACE EXPERIENCE

15 years



LOCATION



SPEQTRUM AEROSPACE S DE RL DE CV

Av. Parque Industrial Cuadritos #114, Lote 11, Celaya, Guanajuato, Mexico. ZIP 38104

www.speqtrum-aero.com / agamboa@speqtrum-aero.com

Phone: +52 (442) 270 1548

ABOUT COMPANY

We are a Mexican plastic injection molding company located in Leon, Guanajuato, Mexico. We started operations in 2003. We work for Medical and Automotive industries.

Medical: we are an OEM producing and distributing our own brand and design of a medical disposable device.

Automotive: we are a Tier 2 automotive supplier producing interior plastic parts for Nissan, Honda, Mazda, Infiniti, Toyota, Audi and FCA.

In 2019 we made a partnership with three other companies and created together ATG additive manufacturing, a company that produces metal 3D printing parts with PBF-L process.

PRODUCTS

- Plastic injection molding parts
- Assembly lines
- Medical device
- Metal 3D printing parts

CAPABILITIES

- Injection molding machines, range from 55 ton to 480 ton (However we will continue acquiring more machines to meet market needs).
- Assembly lines.
- Overmolding.
- Clean Room.
- 3D metal printing (with strategic partnership).
- Pad printing



CERTIFICATIONS

- ISO 9001:2015
- IATF 16949 (in process)

MAIN DESTINATIONS

- USA
- Europe
- Japan

LOCATION



TEMAPLAST S.A. DE C.V.

Bld. Timoteo Lozano #411, Col. San Miguel, Leon, Guanajuato, Mexico. ZIP 37460
www.temaplast.com / gerencia@temaplast.com / n.garcia@temaplast.com
 Phone: +52 (477) 770 8229 Ext. 101

»INDIRECT PRODUCTS & SERVICES

suppliers



GTO-AEROSPACE

INDIRECT PRODUCTS
& SERVICES

Tier 1

Tier 2



ABOUT COMPANY

We are a 100% Mexican company of Engineers, Consultants, pioneers in delivering comprehensive solutions of Engineering Driven by Simulation and Computer Design in Mexico through the best simulation software in the world, ANSYS.

Founded in 1990, Grupo SSC is the first, largest and most experienced company to provide Design and Engineering solutions powered by Numerical Simulation in Mexico. It employs more than 100 people, with degrees of Dr. Masters of Science, Physicists, Chemists, Mechanical Engineers, Mechatronics and Electronics.

Our exceptional staff is passionate about pushing the boundaries of world-class design and simulation technology so our clients can turn their design concepts into successful, innovative products faster and at lower cost.

As a measure of our success in achieving these objectives, Grupo SSC has been recognized as one of the most innovative companies in Mexico, having participated in the most important projects in the private and public sectors of this country.

We represent the ANSYS Inc. family of products. We cover structural mechanical analysis, CFD fluid dynamics, high and low frequency electromagnetism, HPC High Performance Computing, Cloud Solutions, custom software customization and simulation consulting services.

PRODUCTS

SOFTWARE CHANNEL PARTNER (ANSYS INC)

- Certified Training Center
- Technical Support
- Consultancy Services

- High Performance Hardware
- Universities Partners

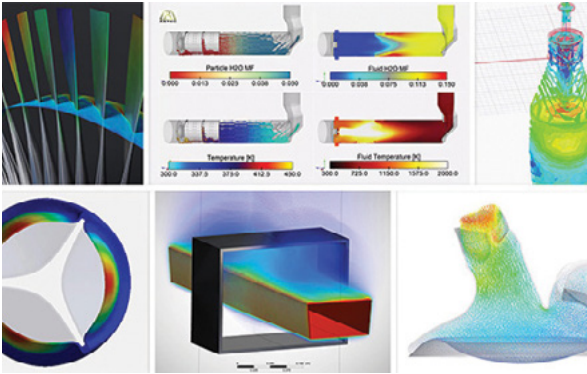
OUR SERVICES:

- Engineering Simulation
- Product Design
- Software Development
- Training & Certification

PROCESSES

Collaboration project services include the involvement and direct accompaniment of Group SSC team within Engineering Projects:

- Engineering Changes
- Design and Development of New Products
- Design Validations
- Innovation
- Improvements in Manufacturing Processes
- Cost reduction per material
- Variable Cost Reduction
- Product Reliability (Guarantees)
- Product Optimization
- Quality assurance
- Compliance with Norms and Standards
- Productivity through Design



» **WORKMANSHIP**
47 people

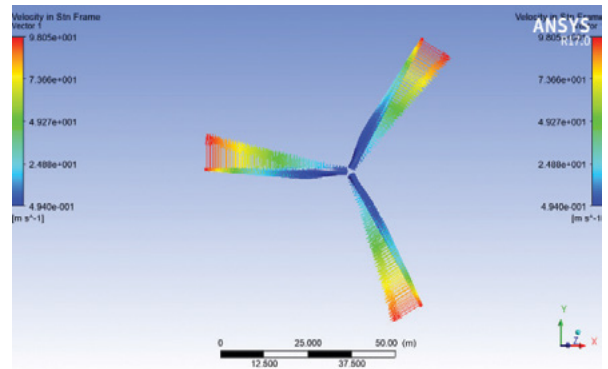
» **AEROSPACE**
EXPERIENCE
32 years

MAIN CUSTOMERS

- Bombardier Aerospace
- Safran
- Honeywell
- Collins Aerospace
- ITP Aero
- GE IQ
- Horizontec
- Agencia Espacial Mexicana
- SEDENA

CERTIFICATIONS

- Channel Partner ANSYS



LOCATION



GRUPO SSC

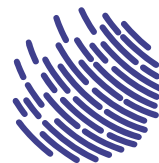
Escuadron #201 no. 8 Col. Palmita de Landeta, San Miguel de Allende, Guanajuato, Mexico. ZIP 37748
www.grupossc.com | juan.balderas@gruposscc.com
 Phone: +52 (415) 152 0547

GTO-AEROSPACE

INDIRECT PRODUCTS
& SERVICES

Specialized Services

OPTIMEN



ABOUT COMPANY

Optimen is a Mexican software development company that mainly provides services to the aeronautical industry. Our mission is to provide solutions, software and services to our customers to maintain reliable and sustained operations thru technology, innovation and living our values.

SEGMENT

- **Communications System**
- **Navigation System**
- **Software Development & Data Analytics**

MAIN CUSTOMERS

- Boeing
- Jeppesen
- Volaris
- Avianca
- Aeromexico
- LATAM Airlines
- TAP Air Portugal

CERTIFICATIONS AND APPROVALS

- ISO 27001
- ESR
- Marca GTO
- Certification as International Service Boeing Contractor
- Volaris Silver Provider
- AWS Partner Select Tier Services





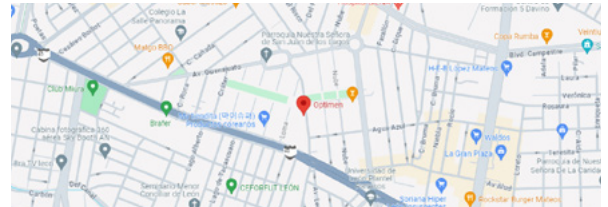
MAIN DESTINATIONS

- USA
- Canada
- Sweden
- Brazil
- Chile
- Portugal
- Colombia

LOCATIONS

Headquarters

Av. Leon #119, 4th floor. Col. Jardines del Moral
Leon, Gto. Mexico, 37160



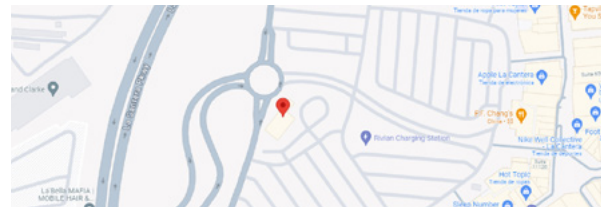
Mexico City Office

Real de Mayorazgo #107, 11th Floor, Suite 113
Col. Xoco, Mexico City, Mexico, 03330



USA Office

15900 La Cantera Parkway, Suite 20255. San Antonio,
TX. USA. 78256



\$4
MUSD
ANNUAL SALES

» **WORKMANSHIP**
79 people
20 Women
59 Men

» **AEROSPACE**
EXPERIENCE
17 years

SALES BY SECTORS

100%
AEROSPACE

OPTIMEN

Av. Leon #119 Int 4, Jardines del Moral, Leon, Guanajuato, Mexico. ZIP 37160
www.optimen.com.mx / contacto@optimen.com.mx
Phone: +52 (477) 717 3339

GTO-AEROSPACE

INDIRECT PRODUCTS
& SERVICES

Indirect Products
Specialized Services



ABOUT COMPANY

SIA Automation began its operations in 1993, entering into the manufacture and maintenance of its first thermal process project, subsequently, operations are expanded to the manufacture, assembly and automation of many processes or industrial machinery, automatic or semi-automatic, to manufacture complete assembly lines of automotive engine, whippers, pedals, and other parts.

PRODUCTS

- **Electric & Electronics System**

MATERIALS

- Machining Steels

PROCESSES

- **Metal Forming**
 - Machining
- **Special Process**
 - Coating

SOFTWARE LICENSES

- Ansys
- Solid Works

MACHINERY & EQUIPMENT

2 – 3 axis CNC mill, 1 – 3+1 axis CNC mil, 1 – 3+2 axis CNC mill, 1 – 3 axis Gantry-style CNC 400 x 1500 x 3000 mm, 1 – CNC turning center , 1 – CNC shearing machin, 1 – CNC bending machine

METROLOGY EQUIPMENT

CMM, Portable CMM, Probes, Caliper, Micrometer, Hardness tester



MAIN CUSTOMERS

- Martinrea Honsel
- Donaldson
- Pedal Systems
- Nissan
- Honda
- KTMex
- Arbomex
- Minth
- Toyota Tsusho

CERTIFICATIONS

- IMMEX

MAIN DESTINATIONS

- USA
- Mexico

\$4.6
MUSD
ANNUAL SALES

» **WORKMANSHIP**
49 people
9 Women
40 Men

» **AEROSPACE**
EXPERIENCE
5 years

WORKMANSHIP



LOCATION



SIA AUTOMATION S DE RL DE CV

Av. Paseo de los Insurgentes #104 Int 20, Col. Jardines del Moral, Leon, Guanajuato, Mexico. ZIP 37160

www.sia-automation.com.mx | i.benitez@sia-automation.com.mx

Phone: +52 (449) 971 1951

»MRO Suppliers





ABOUT COMPANY

SIASA AIR is a proudly Mexican company, established in 2006, located in Leon, Guanajuato, Mexico. We specialize in hightechnology artisan manufacture for first-class and executive seat covers. We are aircraft interior designers, always keeping the quality and comfort that our customers require.

PROCESSES	SEGMENT	<ul style="list-style-type: none">Cabin & Interiors	MATERIALS	<ul style="list-style-type: none">Carbon FiberFiberglassLeather
		<ul style="list-style-type: none">Plastic Molding<ul style="list-style-type: none">Additive Manufacturing (Prototyped)Composites<ul style="list-style-type: none">Carbon FiberSpecial Processes<ul style="list-style-type: none">PaintingTextile & Leather<ul style="list-style-type: none">Leather	SOFTWARE LICENSES	<ul style="list-style-type: none">Autodesk Inventor
MACHINERY & EQUIPMENT		Sewing machines, Paint spray guns, Basic tools, Compressors, Sanding machines, Power washers		
METROLOGY EQUIPMENT		Vernier Caliper, Micrometers, Steel Rules, Tape Measures, Engineers Squares		



SALES BY SECTORS

» WORKMANSHIP

15 people

6 Women

9 Men

» AEROSPACE EXPERIENCE

15 years



100%
AERONAUTIC

SIASA AIR INTERIOR SERVICES

Jose Maria Ruiz #223, Col. Las Trojes, Leon, Guanajuato, Mexico. ZIP 37227

www.siasaair.com.mx | f.briones@siasaair.com.mx

Phone: +52 (477) 394 5748

MAIN CUSTOMERS

- Volaris
- Viva Aerobus
- Aeromexico

CERTIFICATIONS

- AS 9100
- ISO 9001
- FAA
- AFAC

APPROVALS

- Boeing
- Spirit
- Gulfstream DPD / MBD

MAIN DESTINATIONS

- LATAM

LOCATION



»INSTITUTIONS



ABOUT US

The CAB operates as a Training, Training and Training Center with the F-126 operating permit certified by the Federal Civil Aviation Agency and authorization as a bivalent aeronautical Baccalaureate for aircraft and engine and aviation electronics technicians by the SEP.

In addition, to have the careers of private aviator pilot and flight attendant.

AERONAUTICAL VOCATIONS

Aircraft Crew

- Pilots & Flights Attendants

Maintenance

- Aerostructures

EDUCATIONAL PROGRAMS

- Private Aviator Pilot
- Flight Attendant
- Maintenance Technician
- High School Training Courses

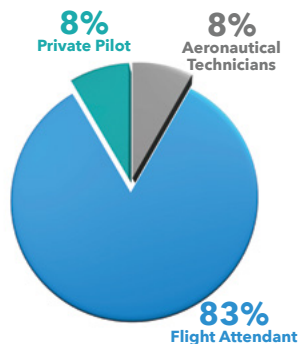




11
YEARS
in operations

» **TOTAL NUMBER
OF GRADUATES**
180 people
150 Women
30 Men

AERONAUTICAL PROGRAM GRADUATES



COLEGIO AERONAUTICO DEL BAJIO

Blvd. La Luz #6951 La Laborcita, Leon, Guanajuato, Mexico. ZIP 37670
www.cabbajio.com

LEVEL OF STUDIES

- Technicians

INFRASTRUCTURE

- 9 classrooms with a capacity of 450 students
- Laboratories for specialized practices
- Flight trainer for Single and Dual Twin-engine aircraft
- Flight Attendant Simulator

INSTITUTIONS APPROVALS

- SEP - REVOE
- SEG
- AFAC

LOCATION





ABOUT US

Last November 4th CECYT 17 accomplished 10 years of creation in Leon, Guanajuato; let's remember that on August 24th a Coordination Agreement between IPN and the State of Guanajuato was signed for the creation, construction, equipment and operation of the academic unit of the Instituto Politecnico Nacional for the High School level in the State of Guanajuato.

It was on November 2012 when the project of CECYT 17 started and in 2015 the opening of the facilities was finished in Las Joyas, where there was only one building of classrooms.

Nowadays it has 3 buildings of classrooms, light laboratories and heavy laboratories which are equipped to give attention to the students of the 6 specialties offered in our institution. The specialties are:

- Aerospace
- Tourism Business Administration
- Food
- International Commerce
- Automotive Systems
- Metrology and Quality Control

AERONAUTICAL VOCATIONS

Design & Engineering

- Aerostructures

Manufacture

- Assemblies

Maintenance

- Aerostructures

EDUCATIONAL PROGRAMS

Technical Studies in Aeronautics

Professional Competencies

1. Management and application of manuals in the aeronautical sector.
2. Apply maintenance programs to: structural repairs and systems of the aircraft, as well as the application of quality techniques at each stage of the tasks entrusted.
3. Technical English
4. Interpret drawings and diagrams related to this area.





LEVEL OF STUDIES

- Technicians
- Bachelor Degree

INFRASTRUCTURE

- 3 buildings of classrooms,
- Light laboratories and heavy laboratories

INSTITUTIONS APPROVALS

- SEP - REVOE

LOCATION

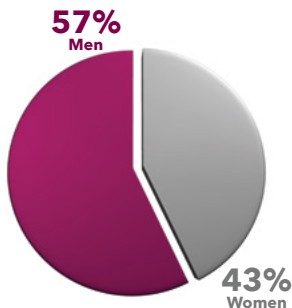


10
YEARS
in operations

AERONAUTICAL PROGRAM GRADUATES

» **TOTAL NUMBER
OF GRADUATES**
35 people

15 Women
20 Men



CENTRO DE ESTUDIOS CIENTÍFICOS Y TECNOLÓGICOS NO. 17 "LEON GUANAJUATO"

Blvd. Caliope #1055 Col. Las Joyas, Leon, Guanajuato, Mexico. ZIP 37358

www.cecyt17.ipn.mx | savalosm@ipn.mx

Phone: +52 (477) 764 8865



ABOUT US

The CIATEC (Center for Applied Innovation in Competitive Technologies), belongs to the CONACYT (National Council of Science and Technology) Network of Public Centers.

CIATEC is located in the city of León in Guanajuato State from where it is strategically able to give support to its customers. Besides Guanajuato State counts on an important infrastructure with competitive advantages for industry development:

- Connectivity with federal highways
- International Airport
- Internal Customs
- Important industrial parks
- Academic Offerings

LABORATORY SERVICES

- **Chemical Characterization**
- **Testings focused on Car Interiors**
- **Calibrations**
- **Support in failure analysis**
- **Research & development**

MATERIALS

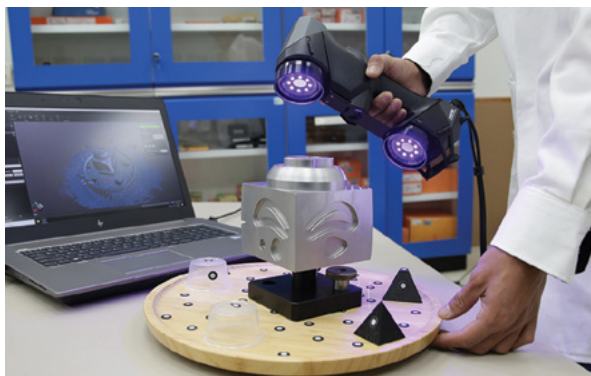
- Development and evaluation of polymeric materials

PROCESSES

- | | | |
|--|--|---|
| Metal Forming <ul style="list-style-type: none">• Forging | Rubber <ul style="list-style-type: none">• Extrusion | Special Processes <ul style="list-style-type: none">• Chemical Treatment |
| Plastic Molding <ul style="list-style-type: none">• Foaming | Composites <ul style="list-style-type: none">• Fiberglass | Textile & Leather <ul style="list-style-type: none">• Woven Labels |

MACHINERY & EQUIPMENT

- Our laboratories have the infrastructure and quality international standards to perform Environmental Studies & Risks Atlas.
- National Laboratory of Cold Technologies, Materials Laboratory and studies of membrane processes.
- Laboratory of biomechanics one of a kind in Latin America. National Innovation Laboratory for the Automotive Industry and the third party Airbag Laboratory with mayor recognition in the country.



LABORATORIES INFRASTRUCTURE

- Metrology Laboratories
- Chemical Analysis Laboratory
- Physical-Mechanical Testing Laboratory

METROLOGY CALIBRATIONS CAPABILITIES

- Mass M-62
- Volume V-06
- Temperature T-36
- Dimensional D-84
- Density DEN-04
- Pressure P-71
- Time TF-19
- VIS-06 Viscosity

SOFTWARE LICENSES

- CATIA
- Ansys
- Solid Works

CERTIFICATIONS & ACCREDITATIONS

Branches accredited
before ema under NMX-
EC-17025-IMNC-2018
Standard:

- Water
- Chemistry
- Waste
- Metal - Mechanics

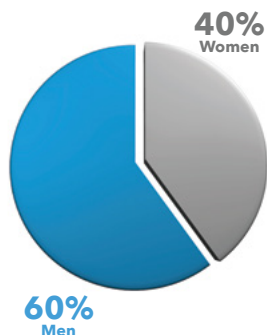
Certifications

- NMX-CC-9001-
IMNC-2015/ISO
9001:2015
- DAIMLER Global-WEB
Approval
- VOLKSWAGEN

\$5

MUSD
ANNUAL SALES

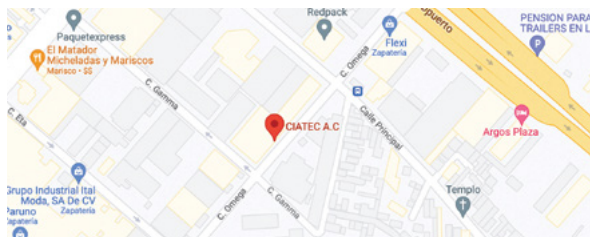
WORKMANSHIP



» **WORKMANSHIP**
200 people
80 Women
120 Men

» **AEROSPACE
EXPERIENCE**
46 years

LOCATION



CIATEC

Omega #20, Col. Industrial, Leon, Guanajuato, Mexico. ZIP 37545
www.ciatec.mx | rtinajer@ciatec.mx
Phone: +52 (477) 710 0011 Ext. 1400

ABOUT US

The National College of Professional Technical Education (Spanish: Colegio de Educación Profesional Técnica, Conalep) is a public high school in Mexico focused on the technical training of its students. It was founded in 1978 by Jose Antonio Padilla Segura.

Its mission is to train technical professionals through a competency-based model, in addition to offering various specialized study courses. It is recognized as a center for training, evaluation and certification of labor competencies and technological services.

CONALEP Guanajuato offers 29 bachelor technical professional careers, which is the Drone Pilot Training.

AERONAUTICAL VOCATIONS

- Remotely Piloted Aircraft System / UAV unmanned aerial vehicle.

EDUCATIONAL PROGRAMS

- Drone Pilot Technical Training

SOFTWARE LICENSES

- Solid Works





3
YEARS
in operations

LEVEL OF STUDIES

- Technicians

INSTITUTIONS APPROVALS

- SEP - REVOE
- SEG

LOCATION



COLEGIO DE EDUCACION PROFESIONAL TECNICA DEL ESTADO DE GUANAJUATO

Av. Mineral de Valenciana #201, Puerto Interior, Silao, Guanajuato, Mexico. ZIP 36275

www.conalep-guanajuato.edu.mx | gloria.valenzuela@conalepgto.edu.mx / esmeralda.contrerasa@conalepgto.edu.mx

Phone: +52 (472) 748 6410



ABOUT US

Higher Education Institution of public character and decentralized organism of the State of Guanajuato. Located on the Irapuato - Silao Highway Km. 12.5, in Irapuato, Gto. It was created on October 20th, 1995 and began operations on August 18th, 1996.

In addition to Irapuato, it has 5 campuses in the state: Cuerámara, San Felipe, San José Iturbide, San Luis de la Paz and Tarimoro.

AERONAUTICAL VOCATIONS

- Airports Logistics

SOFTWARE LICENSES

- Ansys
- Solid Works

EDUCATIONAL PROGRAMS

- Aeronautical Engineering
- Electromechanical Engineering
- Mechatronics Engineering
- Automotive Systems Engineering
- Electronics Engineering
- Business Management Engineering
- Computer Systems Engineering
- Materials Engineering
- Logistics Engineering
- Chemical Engineering
- Industrial Engineering
- Biochemical Engineering
- Computer Engineering
- Biology
- Forestry Engineering
- Agricultural Innovation Engineering
- Master's Degree Program in Electronic Engineering
- Master's Degree Program in Electronic Engineering
- Master's Degree Program in Information Technology
- Master's Degree Program in Industrial Engineering

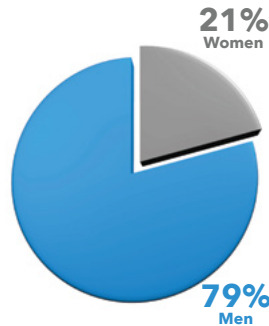


26
YEARS
in operations

» **TOTAL NUMBER
OF GRADUATES**
19 people

4 Women
15 Men

AERONAUTICAL PROGRAM GRADUATES



IRAPUATO INSTITUTE OF TECHNOLOGY

Carretera Irapuato-Silao km 12.5, Irapuato, Guanajuato, Mexico. ZIP 36821

www.irapuato.tecnm.mx | oscuin@tecnm.mx

Phone: 4626067900 ext. 173

LEVEL OF STUDIES

- Bachelor's Degree
- Master's Degree

INFRASTRUCTURE

Laboratories: Design, Manufacturing, Material Analysis, Chemistry, Thermofluids, Mechatronics, Automation and Control, Microbiology and Biochemistry, Electrical Machines and Controls, and Time and Motion.

INSTITUTIONS APPROVALS

- SEP - REVOE
- SEG
- FAA

LOCATION



ABOUT US

We are an organization capable of accompanying the digitization processes of your company and/or venture, facilitating the adoption of technology and reducing the learning curve, mainly in software development, computer design and simulation.

Our services for entrepreneurship:

Project development
Training
Technology Transfer
Business plans
Technical and commercial feasibility studies
New business development
Internet of things
Linking projects for access to funds
Technology and innovation events

Our Digitization services are:

Cloud software development
Virtual and augmented reality
Mobile application development
Additive manufacturing
Digitization
E-commerce
Simulation
Plastic injection

We have engineers, teachers and with more than 20 years of experience within the branches of the i4.0, opening a great offer to our clients. Reasons why companies around the world choose us.

AERONAUTICAL VOCATIONS

- Technological Services
- Software Development
- Automation and process control

SOFTWARE LICENSES

- Ansys



LEVEL OF STUDIES

- Engineering Degree

INFRASTRUCTURE

PLASTIC INJECTION

Screw Diameter mm - 40
 Screw L /D Ratio L/D - 22.5
 Shot Size (Theoretical) cm³ - 253
 Injection Weight (PS) g - 230
 Injection Rate g/s - 110
 Injection Pressure Mpa - 214
 Plasticizing Capacity(ps) g/s - 13.9
 Screw Speed rpm 0 - 190

CLAMPING UNIT

Clamp Tonnage KN - 1600
 Toggle Stroke mm - 430
 Space Between Tie Bars mm - 455x455
 Max.Mold Height mm - 500
 Min. Mold Height mm - 180
 Ejector Stroke mm - 140
 Ejector Tonnage KN - 33

10
YEARS
 in operations

» **TOTAL NUMBER
 OF GRADUATES**
45 people

25 Mechanical Engineering
 with design orientation

20 Systems Engineering and
 software development

AERONAUTICAL PROGRAM GRADUATES

44%
 Mechanical
 Engineering



56%
 Systems
 Engineering

LOCATION



PARQUE TECNOLÓGICO SANMIGUELENSE

Escuadron #201 Int 8, San Miguel de Allende, Guanajuato, Mexico. ZIP 37748

www.ptsanmiguelense.com | innovacion@ptsanmiguelense.com

Phone: +52 (415) 154 7130

ABOUT US

Our task is to promote, from the personality of each university student, an appropriate response to their vocation in an environment of quality and human warmth. The Universidad Latina de México has received multiple recognitions, demonstrating with actions our commitment to Mexico in the formation of capable professionals. We have excellent teachers, with the necessary studies, work experience, and academic background to provide you with the knowledge you require and promote your development. The Universidad Latina de México, through the Language Center (CEDI), offers you the opportunity to learn to express yourself in other languages and introduces you to the knowledge of other countries.

The computer labs, laboratories, and clinics are equipped with up-to-date equipment and materials that allow you to stay current in terms of technology for encounters, creativity, expression of ideas, communication, and the opening of new horizons. Through the scholarship system, we assist our students with academic potential and whose families lack resources to finance their studies.

AERONAUTICAL VOCATIONS

- Industrial Engineering

EDUCATIONAL PROGRAMS

Bachelor's Degrees:

- Architecture
- Dental Surgeon
- International Business
- Interior Design
- Graphic Design
- Nutrition Official
- Psychology Official
- Industrial Engineering

Postgraduate Degrees Master's in Education Sciences:

- Master's in Dentistry Official
- Master's in Family Therapy Official
- Gerontology
- Medical Surgeon Official
- Specialty in Orthodontics and Maxillofacial Orthopedics

Executive Bachelor's Degrees Business Management:

- Marketing and Sales
- Investment Management and Banking
- Business Technologies Applied
- Accounting



LEVEL OF STUDIES

- Bachelor's Degree
- Postgraduate Degree Master's in Education Sciences
- Executive Bachelor's Degrees Business Management

INFRASTRUCTURE

- Physics Laboratory (MULTIFUNCTIONAL)
- Electricity and Electronics Laboratory
- Automation and Pneumatics Laboratory
- Dimensional Metrology Laboratory
- Manufacturing Workshop
- Computer Rooms
- Additive Manufacturing Classroom (3D)

ASSOCIATION MEMBER

- | | |
|-----------|-----------------|
| • FIMPES | • ENCUADRE |
| • AMIESIC | • CNEP |
| • COEPES | • FEPC |
| • ANFECA | • CONADEIP |
| • CNEIP | • MB |
| • FMFEO | • Among others. |
| • ASINEA | |



LOCATION



UNIVERSIDAD LATINA DE MEXICO

Av. San Jose #100, Col. San Jose de Torres, Celaya, Guanajuato, Mexico. ZIP 38085

www.ulm.edu.mx | philippot_jose@ulm.edu.mx

Phone: +52 461 312 6540

GTO-AEROSPACE

INSTITUTIONS

**Aeronautical
MRO
Engineering Services
Manufacture**



ABOUT US

UPIIG forms competitive engineers with an integral profile, by offering proper academic programs, focused on the 4.0 Education, to generate, apply and transfer scientific and technologic knowledge, and have a good impact in the world's development.

AERONAUTICAL VOCATIONS

Design & Engineering

- Aerostructures

Maintenance

- Aerostructures

Manufacture

- Composites

EDUCATIONAL PROGRAMS

- Aeronautical Engineer

SOFTWARE LICENSES

- Dassault Systems
- ANSYS
- Solid Works

MAIN TOPICS OF RESEARCH

- Engineering design of components.
- Dynamics and mechanics of structures.

NUMBER OF RESEARCHERS

- 8 (According to Mexico's National Network of Researchers)

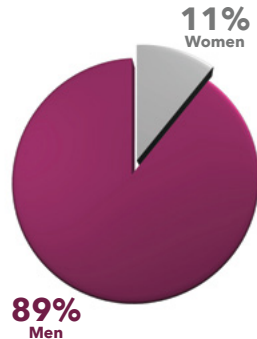


15
YEARS
in operations

» **TOTAL NUMBER
OF GRADUATES**
64 people

7 Women
57 Men

AERONAUTICAL PROGRAM GRADUATES



UNIDAD PROFESIONAL INTERDISCIPLINARIA DE INGENIERIA, CAMPUS GUANAJUATO

Av. Mineral de Valenciana #200 Fracc. Industrial Puerto Interior, Silao, Guanajuato, Mexico. ZIP 36275
www.upiig.ipn.mx | jfonsecah@ipn.mx

LEVEL OF STUDIES

- Bachelor Degree

INFRASTRUCTURE

- Functional aircrafts for students to do practices

INSTITUTIONS APPROVALS

- SEP - REVOE

LOCATION



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that we not only
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development in
Mexico, we
pioneered it.”**

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CONSTRUCTION EXPERTISE

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SPACE BUILT

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SQ. FT. OF INDUSTRIAL
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Economic Incentives Advisory



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Project Financing



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+500 Satisfied customers

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agrajeda@copachisa.com



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- ▶ **3D As-Built Model** for client to consult.

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Guidance, consultant and LEED certification upon our client request

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Incident Ratio

IR : .6641

Experience
modification
insurance rate
EMR : .0302

Lost time
incident rate
LTIR : 4.74





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www.gtosupply.com/aerospace