

# BAJA CALIFORNIA AEROSPACE



# THE AEROSPACE INDUSTRY

In Baja California, represents an excellent example of growth, foreign investment attraction, and job creation. It started around the 1960s when Rockwell Collins company arrived in Mexicali, Baja California for electronic assembly; since then, a series of events began to improve the industry.

With more than 60 years of aerospace manufacturing expertise, we are identified as a high quality labor force region, where talent has been shared between all industrial sectors, leading to the development of competitive skills and best practices, providing better quality, on time delivery, and reducing labor costs anywhere from 40-60%.

The Aerospace industry provides 17,000 jobs for individuals in Baja California, with a youthful workforce with an average age of 30 years. The distribution of talent in any aerospace facility spread into 70% of direct employees (Blue collar), 20% of engineers, and 10% of managing roles.

In addition, in 2023, engineering is the STEM field with the highest number of degrees conferred at 3,700, followed by health sciences at 2,500 degrees in Baja California.

\*ANUIES



## Baja California Aero Snapshot

Baja California is one of the most active regions for aerospace manufacturing in Mexico; with more than **70 companies** established for aerospace manufacturing, **+18 companies directly for aerospace or OEM's** and the rest are suppliers for aerospace and other industries.

The exports in the Aerospace industry range annually **4,5 billion** dollars of trade. \*INEGI

# #15 AEROSPACE COMPANIES & ITS RELATIONSHIP WITH THE REGION OF CALI-BAJA INCLUDING ALLY SHORING

(Only one has no direct or indirect presence nearby)

#	Company	Revenue	Presence
1	Boeing	\$101,000million	Direct supplier (Encore) in Baja California, Indirect Suppliers in Baja California and California.
2	Airbus	\$75,100million	Indirect Suppliers in Baja California and California.
3	Lockheed Martin	\$53,800 million	Mfg Operation in Baja California and California.
4	United Technologies	\$36,030 million	Mfg Operation in Baja California (Collins Aerospace, Mexicali).
5	General Electric	\$30,600 million	Mfg Operation in Mexico.
6	Northrop Grumman	\$30,100 million	Mfg Operation in California.
7	Raytheon	\$27,100 million	Ally Mfg Operation in Baja California (Collins Aerospace).
8	Safran	\$25,200 million	Mfg Operation in Baja California, California and Mexico.
9	Rolls-Royce	\$15,000 million	Indirect Suppliers in Baja California and California.
10	Leonardo	\$14,400 million	Operations in Philadelphia
11	Honeywell	\$12,900 million	Mfg Operation in Baja California and California, Wind tunnel in B.C.
12	BAE Systems	\$12,800 million	Mfg Operation in California.
13	L-3 Technologies	\$10,200 million	Mfg Operation in California.
14	Textron	\$9,620 million	Mfg Operation in Mexico (Chihuahua) North of Mexico.
15	Rockwell Collins	\$8,670 million	Mfg Operation in Baja California (Mexicali).



Based on a survey of 30 aerospace companies in the State of Baja California, we extract the following information.

## Local Supply Chain Integration for Aerospace Industry:

### 15% in the region of Baja California and California

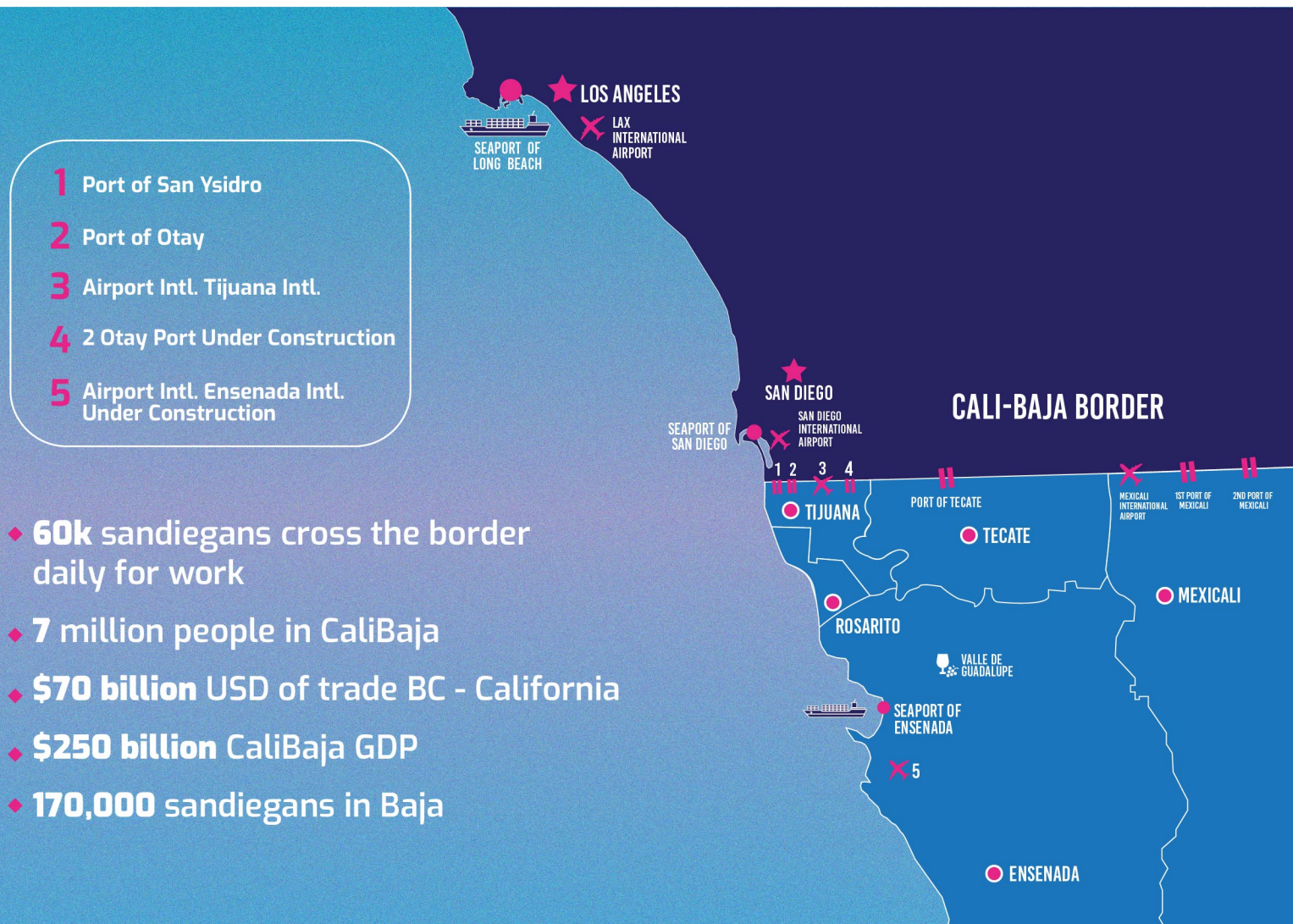
This results in 15% of sub-assemblies, components, raw material, additional services, and supplies demanded locally; The rest is provided by global suppliers, signifying a higher cost and higher times for delivery.

### 85% of occupancy overall

An average of 15% available space for further production is what most aerospace companies have. As the region is highly active and its labor force delivers outstanding results than the initial expectations, new production lines will shortly occupy this space. They conclude by expanding their operations, demanding larger spaces, requiring more specialized jobs, and reducing time on delivery & costs.

## The nearshore solution

Recent global events and workforce shortages have posed significant challenges to the aerospace supply chain. By being the most dynamic, proactive and resilient binational region, we compete as a top nearshoring destination where companies can take advantage of the USMCA, cost competitiveness and logistics channels for their supply chains to quickly recover and endure highly disruptive events.



# Business Gaps & Opportunities in Baja California

Baja California is actively attracting the investment of aerospace SMEs (Small Medium Enterprises) and OEMs to leverage and complement the existing offering portfolio in the region.

This is a list of requirements for the region resulting from a survey made to **30 aerospace companies in Baja California:**

## Electronics:

- PCB assembly
- Surface Mount Technology
- Electromechanical components
- Electric motor winding
- Cable & harness
- Connectors
- Semiconductors
- Microelectronics
- Displays sets for interiors

## Metalmechanics:

- High tolerance CNC Machining
- High tolerance CNC Nanomachining
- Sheet Metal Fabrication
- Aerospace Tooling - Fixtures
- Big Punch Press
- Metal Forging
- Metal Casting

## Raw Materials:

- Titanium
- Inconel
- Steel
- Aerospace Aluminum
- Aluminum Alloys

## Aerostructures:

- Metal aerospace structure manufacturing
- Carbon fiber Structure manufacturing
- Module integration

## Special treatments:

- Heat treatment
- Chemical processes
- Aerospace Sandblasting
- Aerospace Painting

## Special requirements:

- Additive manufacturing
- Destructive Testing
- Non-Destructive Testing

# Capabilities & Processes of Baja California

This is a list of capabilities & processes based on the **+70 companies that operate in Baja California**

## Electronics:

- PCB Assembly
- Surface Mount Technology
- Cable & Harnesses
- System Build
- Electromechanical and components Assembly
- Avionics systems

## Interiors:

- Interior seat manufacturing
- Cabins
- Module integration

## Aerostructures:

- Engine Mold Fixture
- Carbon Fiber Manufacturing
- Carbon Fiber Structures
- Structure Assemblies (small airplanes)

## Metalmechanics:

- CNC Machining
- Manual Welding
- Sheet metal Fabrication
- Valves & Ducts
- Plasma cutter
- Nacelles

## Special Processes:

- Wind Tunel (Largest in Latin America)
- Nondestructive Testing
- Design & Engineering

## Component assembly:

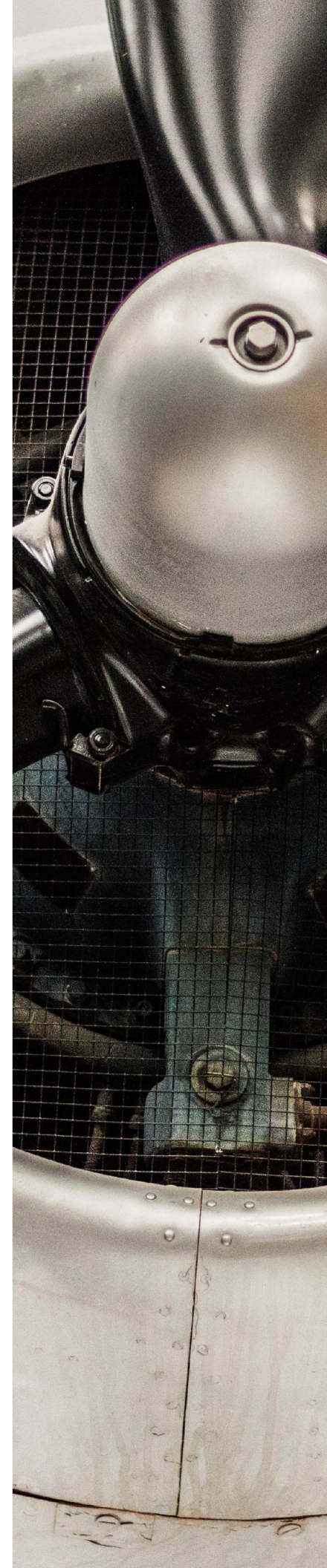
- Metalmechanic Component assemblies
- Engine Components
- Sub Assembly Integration

## Plastics

- Plastic Injection Molding
- Mold Fabrication

## Special treatments:

- Chemical Processes



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**DOCUMENT**  
Business Gaps & Opportunities for Baja California



**EVENT 2023**  
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