

NAFCO Investor Conference 2022.11.18

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- This presentation and release contain "forward -looking statements" which may include projections of future results of operations, financial condition or business prospects based on our own information and other sources.
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# Agenda

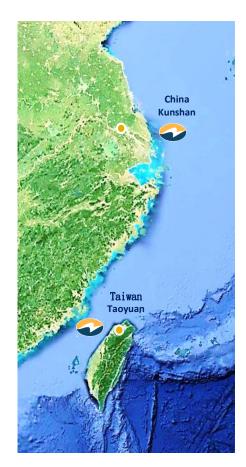
Company & Business Introduction by President Alvin Lin

Finance Performance by CFO Chris Lee

Q&A

# Company & Business Introduction

President Alvin Lin



#### **Production Sites**









Taoyuan, Taiwan : Land 45,000 m<sup>2</sup> / Floor space : 46,700 m<sup>2</sup>

Kunshan, China: Floor space 15,400 m<sup>2</sup>

### **Company Profile**

Founded: October 14, 1997

**IPO: 2002** 

**Capital: TWD 520 million** 

Major shareholder: Getac (Since 2007)

**Employees: 659** 

2021 Revenue: TWD 1.426 billion

Main Products: aerospace fasteners,

aerospace machining parts and

automotive fasteners

## **Customers & Partners**





























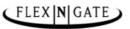














## **Aviation product Application**



## **Industrial Product Application**



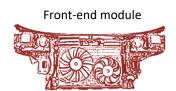


Composite structure













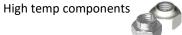






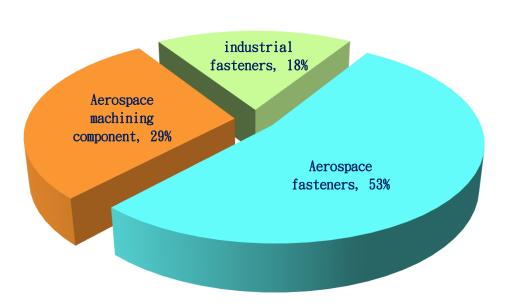


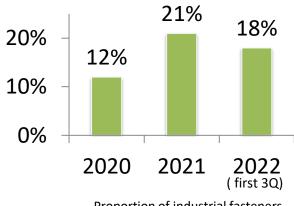






## **Sales by Product**

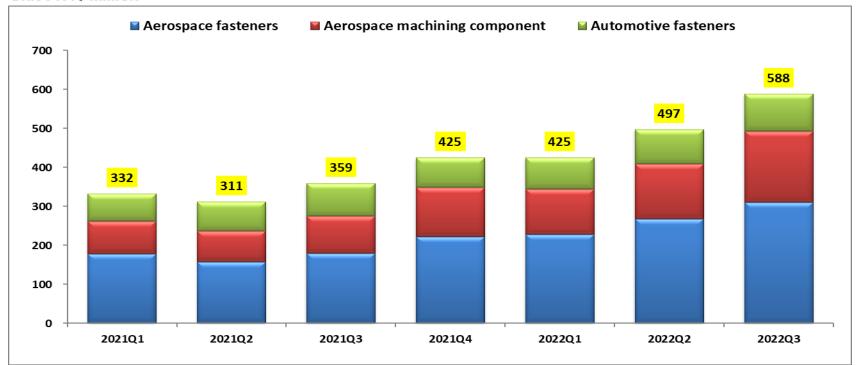




Proportion of industrial fasteners

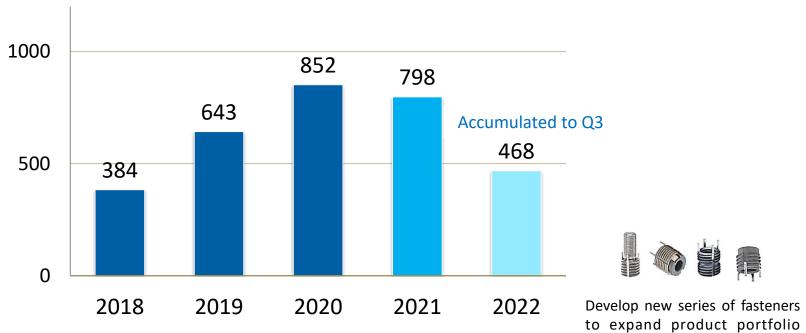
## 2021Q1~2022Q3 Quarterly Revenue Trend

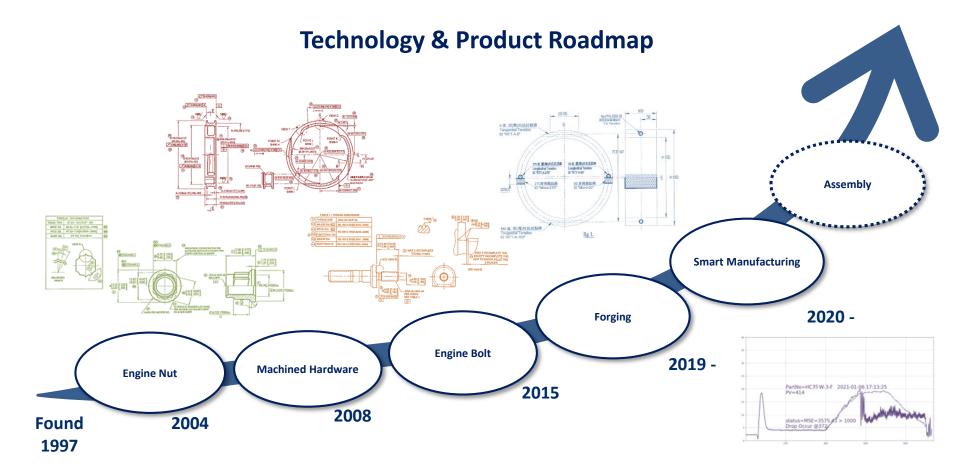
#### Unit: NT\$ Million



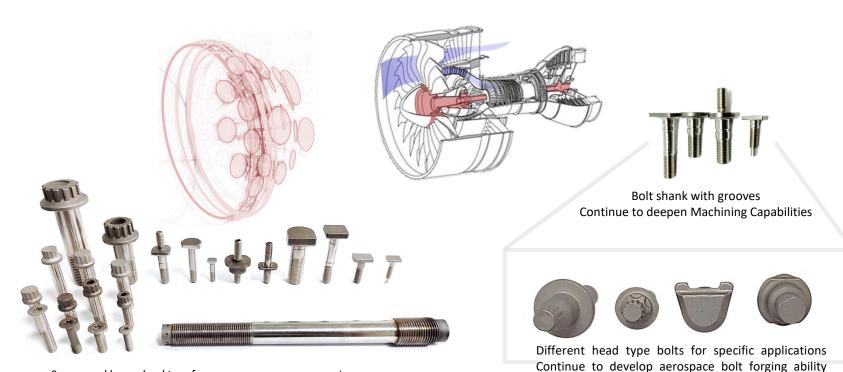
## **Business Development**





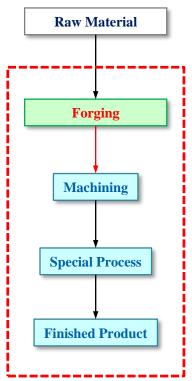


## **High-performance Aerospace Bolt series**



## **Approved Forging Source**

#### $Strengthen\, the\, production\, value\, chain$





3000tons Forging press for commercial aviation products

#### Since 2019



#### NADCAP MMM

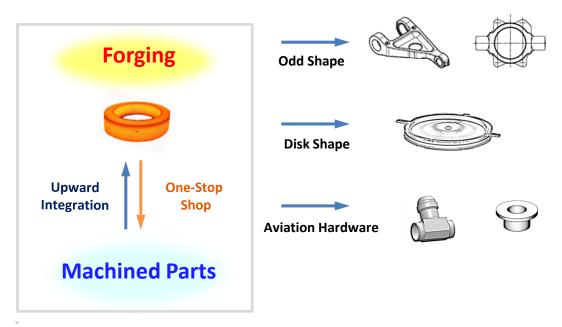
#### 28 juillet 2021



Safran approved forging source

## **NAFCO Aerospace Forging Development**

Forging combined with subsequent processing, build a competitive 1) internally threaded aerospace product family 2) ring (disc) shaped aerospace products 3) odd shaped aerospace products and 4) high market value aviation hardware parts





















**Ring Shape parts** 

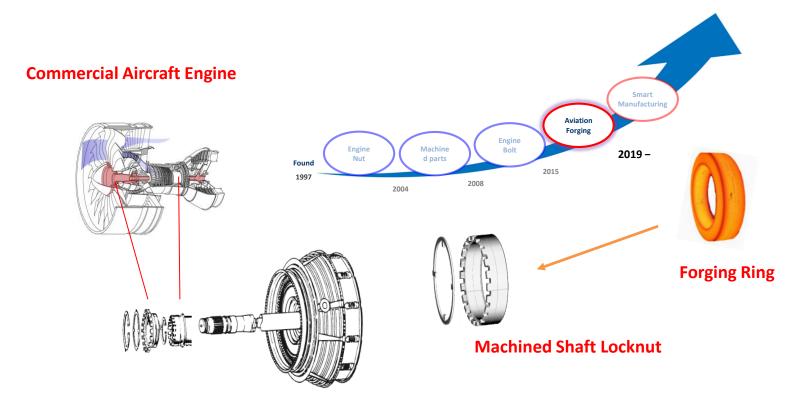
500 mm

7mm **Aviation Fasteners** 

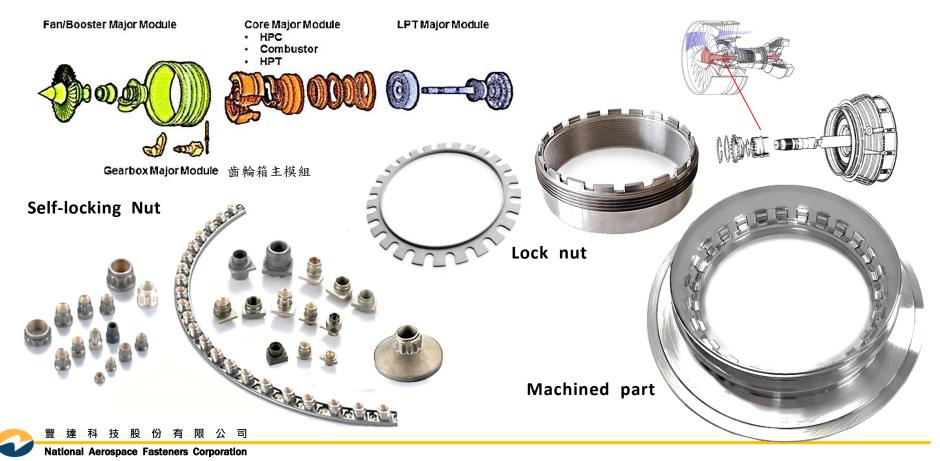
**Large Nuts** 

> 350 mm

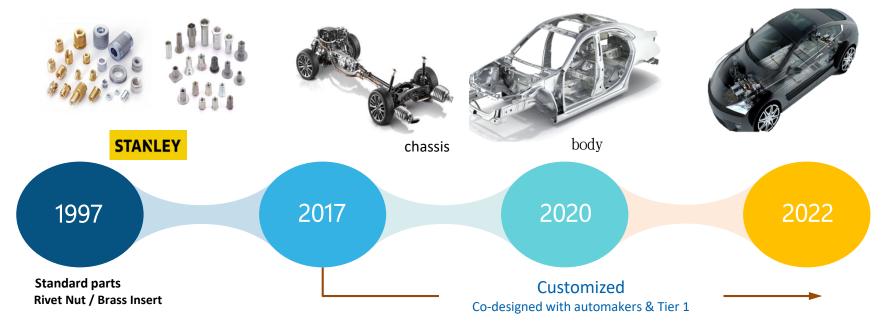
## **Engine Ring Products**



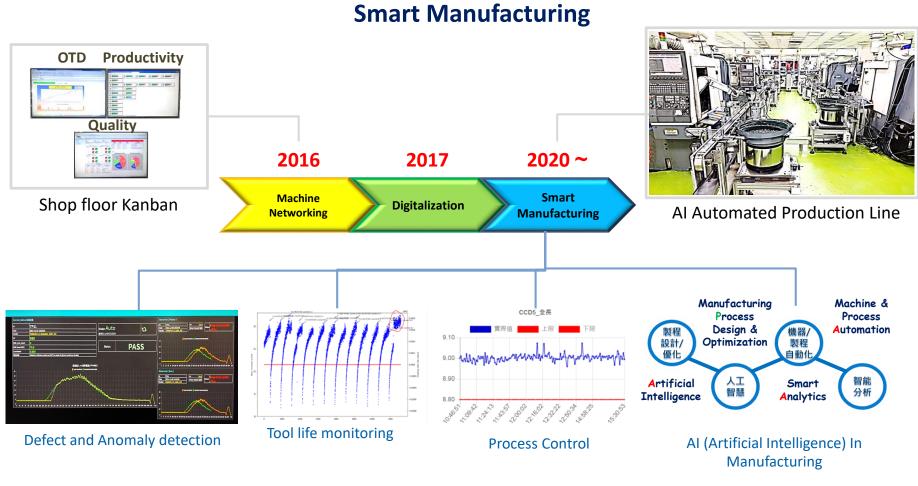
## A Diversified Engine Nut series of different functions and sizes



## The focus of automotive product development---Customized Products



Focus on Lightweight/High Strength/High Torque Inserts used in lightweight (new energy) vehicles Co-design with OEMs and Tier 1 Newly designed parts enter mass production for the first time Continuous research and development of customized components with unique application requirements



#### **Commercial Aircraft Market Trend**

#### Air travel forecast

• Intra-regional markets will gradually recover as countries ease travel restrictions, followed by long-distance travel returning to prepandemic levels in 2023-2024

#### Changes in aircraft type demand

- Boeing's Commercial Market Outlook (2022-2041) forecasts single-aisle airliners will account for over 75% of all new deliveries to the global market
- The impact of the pandemic on the wide-body airliner market is clear, with Boeing's 20-year commercial market outlook forecasting that wide-body airliner deliveries account for only 18 percent of new deliveries
- Airbus' 20-year demand forecast gives similar results; 20% for typical widebody aircraft and 80% for typical single aisle aircraft

#### New airplane demand

Airline will need around 47,000 aircraft to operate by 2042, an 81% increase from 2019, with nearly 87% of these being new builds.

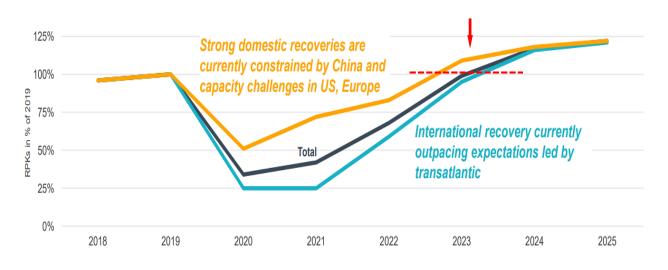
#### The main drivers are

- The cost of bringing the grounded fleet back to service is very high. When markets recover, airlines will choose to purchase new aircraft
- Higher energy and carbon costs begin to hit the market; as the market recovers, inefficient fleets operating at high costs will shift to new aircraft
- · Continued year-on-year growth in world GDP enables more people to travel by air



### **Market Recovery timeline**

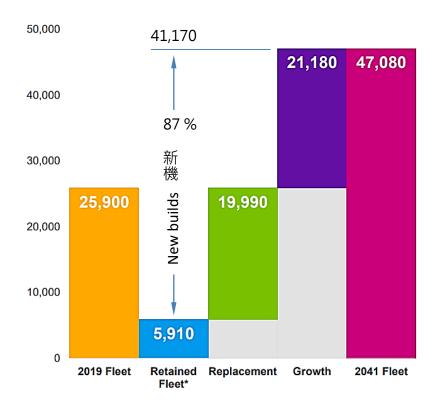
#### 2023~2024 Return to pre-pandemic level



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## Boeing forecast airlines will need 41,170 new airplanes over 20 years

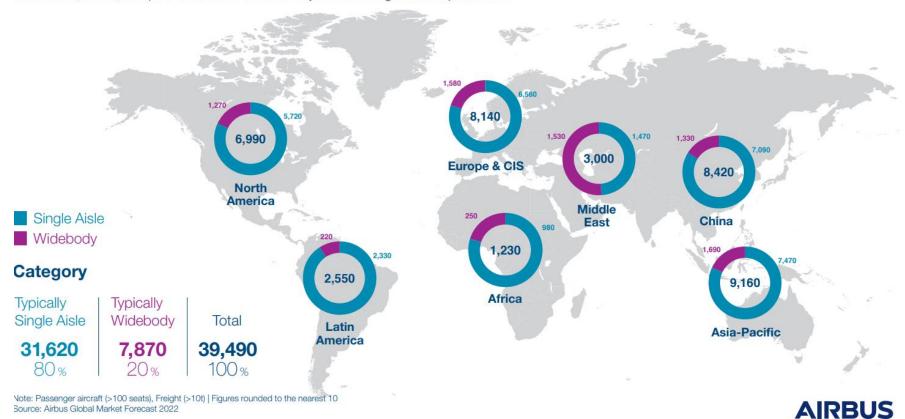


Note: Airlines will need 19,575 new airplanes over 10 years



### Commercial Aircraft demand 2022-2041

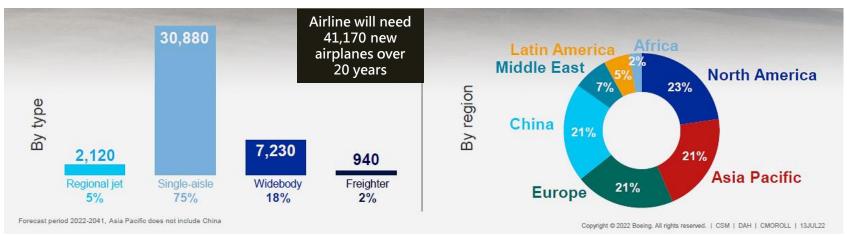
Asia-Pacific, China, Europe and US continue to be major drivers for growth & replacement





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## **Single Aisle dominates the market**



PASSENGER AIRPLANES		
REGIONAL	SINGLE AISLE	WIDEBODY
JETS	AIRPLANES	AIRPLANES
AVIC ARJ-700	Boeing 717	Boeing 747
Bombardier CRJ	Boeing 737	Boeing 767
Embraer ERJ Series	Boeing 757	Boeing 777
Embraer 170 Series	Boeing/MDC MD-80, -90	Boeing 787
Fokker 70	Airbus A220 Series	Airbus A300/A310
Sukhoi SSJ100	Airbus A320 Series	Airbus A330
	Bombardier CRJ-1000	Airbus A340
	Comac C919	Airbus A350
	Embraer 190 Series	Airbus A380
	Fokker 100	
	UAC MS 21	



Boeing Commercial Market Outlook 2022-2041

## **Primary single-aisle aircraft engines**

#### **PASSENGER AIRPLANES**

#### LEAP-1A/-1B/-1C have a 72 % share of the entire narrowbody market

SINGLE AISLE AIRPLANES

Boeing 717

→ Boeing 737

Boeing 757

Boeing/MDC MD-80, -90

Airbus A220 Series

Airbus A320 Series

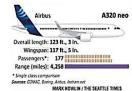
Bombardier CRJ-1000

Comac C919

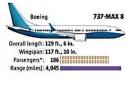
**Embraer 190 Series** 

Fokker 100

UAC MS 21



CFMI LEAP-1A PW1100G-JM



**CFMI LEAP-1B** 

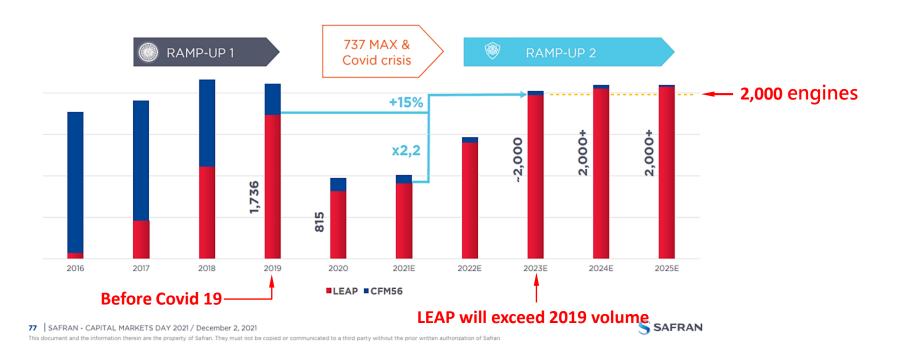


CFMI LEAP-1C

... for the environment and the fact that purely for operating costs, airlines are very, very motivated to require the latest, most efficient and lowest-emission aircraft ... (Bob Lange, head of business analysis and market forecast at Airbus ) FINANCE TIMES JULY 11 2022

## **Engine production plan**

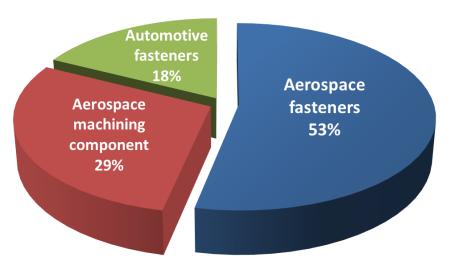
Around 2,000 LEAP engines will be produced annually starting in 2023



# **Financial Performance**

Chris Lee / CFO

# 2022Q1~Q3 Sales Revenue



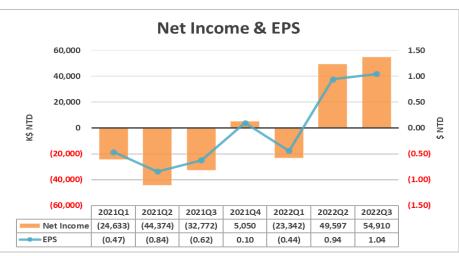
Unit: NT\$ Thousands

Product	Amount	%
Aerospace fasteners	805,371	53%
Aerospace machining component	439,513	29%
Automotive fasteners	265,408	18%
TTL	1,510,292	100%

### Sales Revenue Net Income and Eps

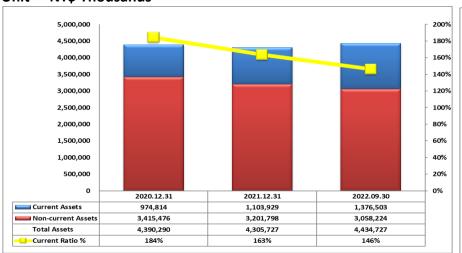
#### **Unit: NT\$ Thousands**

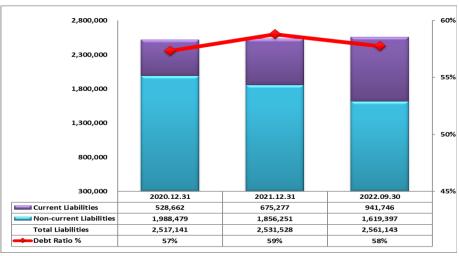




## Asset and Liabilities

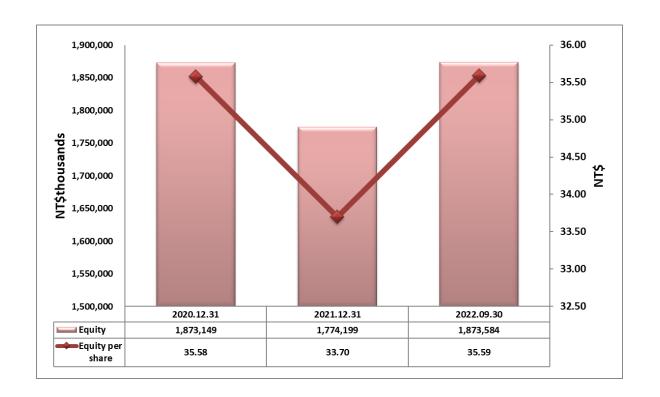
#### Unit: NT\$ Thousands







## Equity and Equity per share



# Thank you