



TUBE. BAR. PLATE. WIRE/ROD

YE FONG ALUMINIUM

2024 7050 7075

AEROSPACE ALUMINIUM MILL IN TAIWAN



CONTENT

- ABOUT YE FONG
- PRODUCTS
- PRODUCTION CAPABILITY
- CUSTOMER REFERENCE
- QUALITY CONTROL SYSTEM



ABOUT YE FONG

- Founded: in 2007
- Location: Taoyuan City, TAIWAN.
- Factory Scale: 42,000 square meters
- Employee: 150 persons



STRENGTHS

SINCE 2007



- Specialize in High Strength Alloys such as 2024 & 7075 & 7050
- Customized Tempers, Stress Relieve Tempers



- AMS -Aerospace Material
- Aerospace, Marine Ship Building, Military Industry...etc



- Engineering Development & Process Design
- Business Ethics and Integrity

MILESTONE

2007

Bade extruded
production line
established

2008

AS9100
certification
awarded

2009

Move to current
plant site,
Xinwu headquarter
established

2010

Hot rolled
production
line established

2012

DNV certification
awarded

2014

ABS certification
awarded

2017

NADCAP heat
treatment awarded

2019

- Factory II, Hot Rolled Wire production line established
- NADCAP NonDestructive Testing certificate awarded
- Approved by LEONARDO

2020

- Approved by SAFRAN
- Approved by RAFAEL

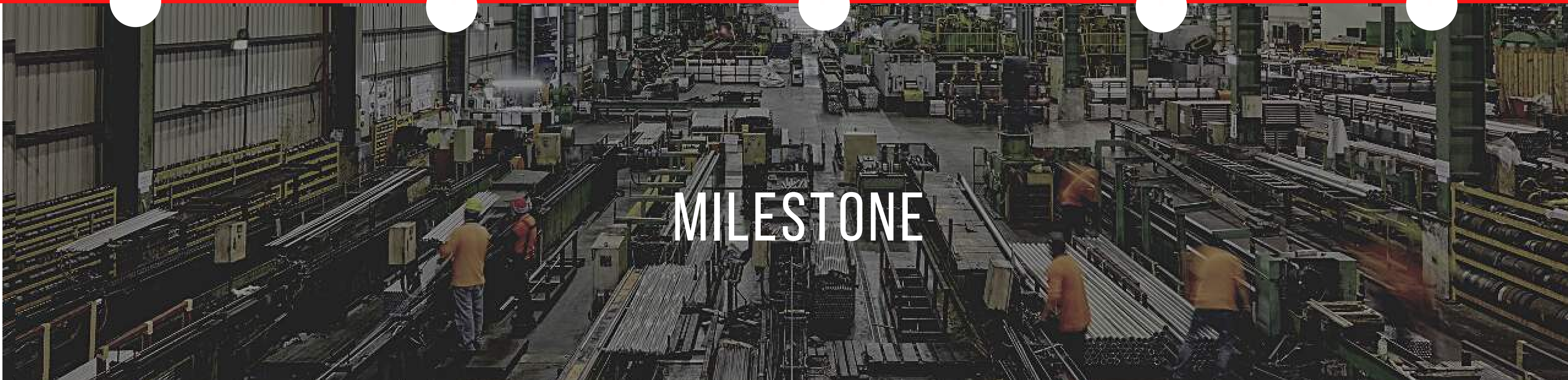
2021

- Approved by EATON

2022

- Approved by IAI

MILESTONE



CERTIFICATES

NADCAP



AS9100



ABS



DNV



ISO 9001



ISO 14001

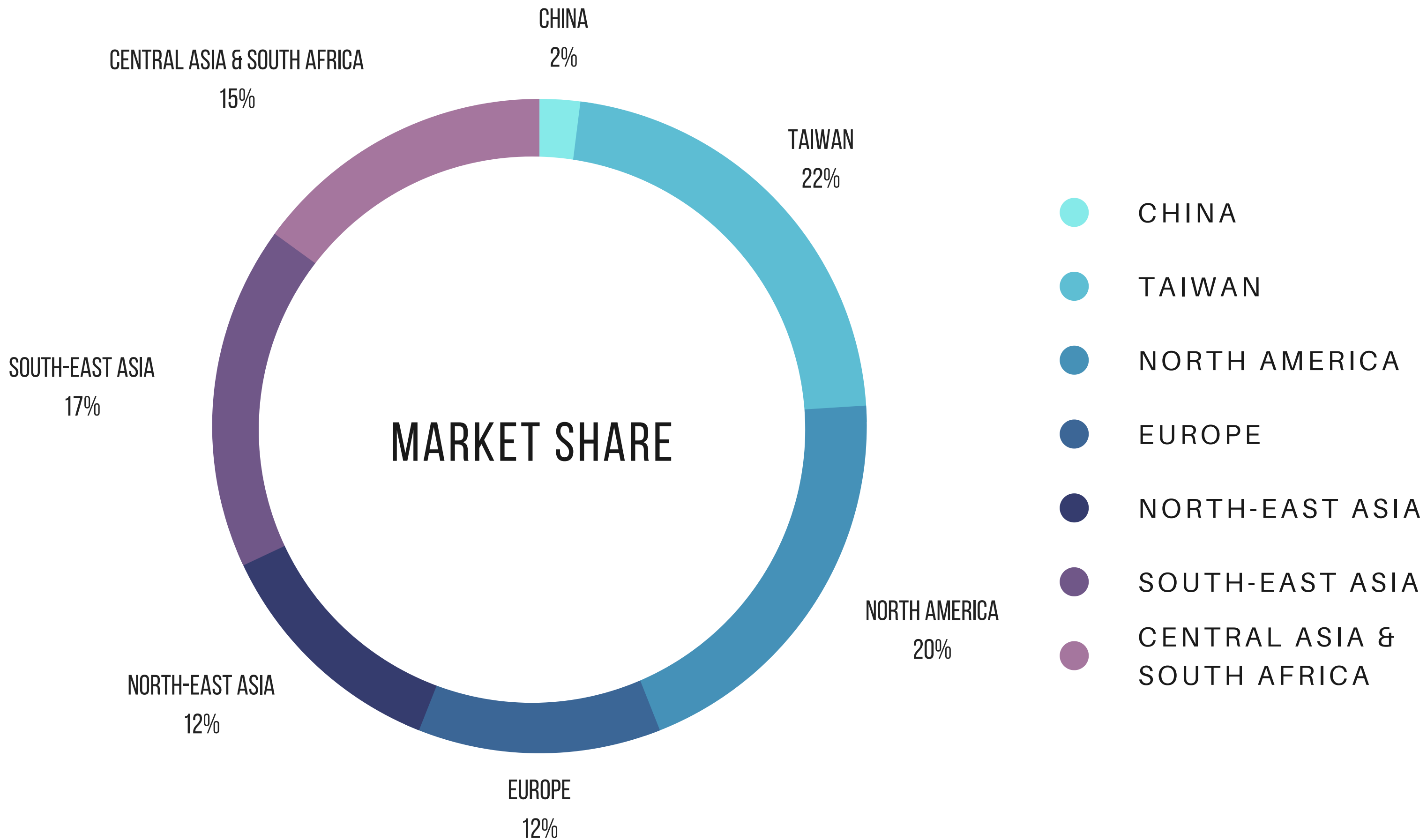


D & B TOP 1000



Heat Treating
NonDestructive Testing

(2018.2020.2021)



APPLICATIONS



- Aerospace Industry & Aircraft Seating Components – 36%
- Aerospace Fasteners Industries – 18%
- Automotive Fasteners, other Fastener applications-10%
- Defense System / Military– 18%
- Marine Ship Building – 4%
- Medical Industrial /Commercial- Camera Lens / High Precision Machining / Automotive - 14%

PRODUCTION CAPABILITY

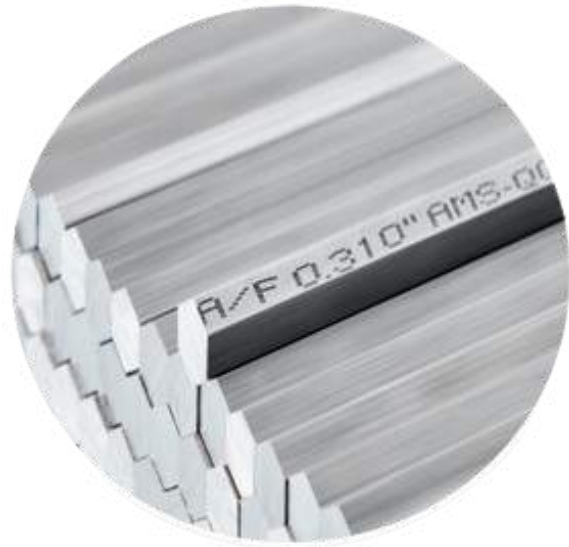
YE FONG ALUMINIUM INDUSTRIAL LTD.

WHAT WE PRODUCE



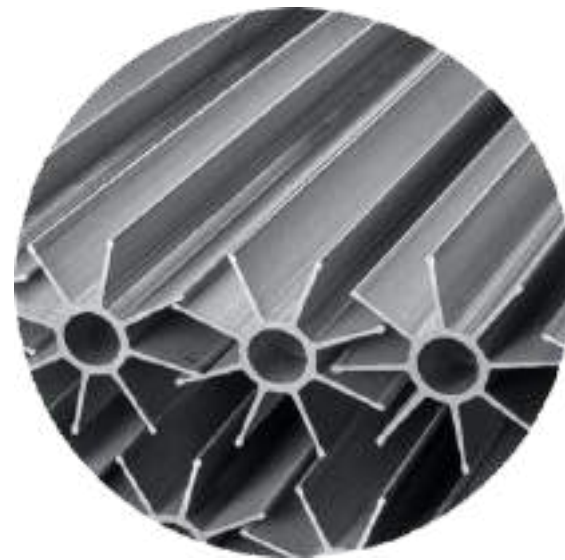
SEAMLESS TUBE

Extruded & Drawn
seamless Tubes



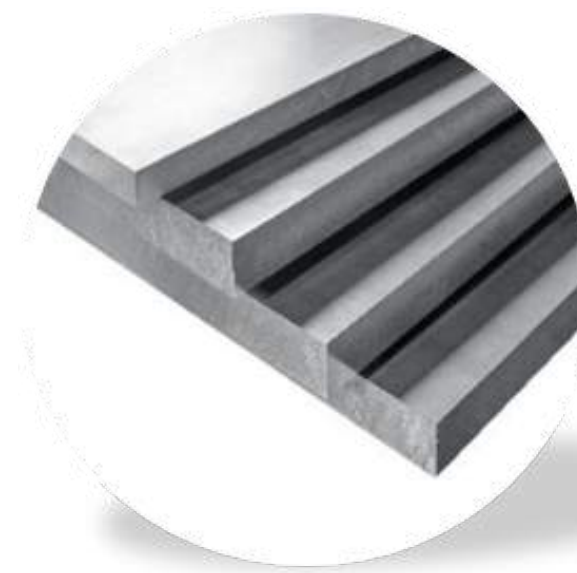
BAR

Extruded & Cold
Finished Bars
(round/square/flat/hex)



PROFILE

Various Shape
(tail fin/sabot/
aircraft component)



PLATE

High Strength &
Medium Strength.



WIRE ROD

For Aerospace &
Automotive Fasteners

SEAMLESS TUBE. BAR. PROFILE

ALUMINIUM EXTRUSION & COLD DRAWN

CAPACITY: 550~650 TONS MONTHLY

TYPE OF PRODUCT:

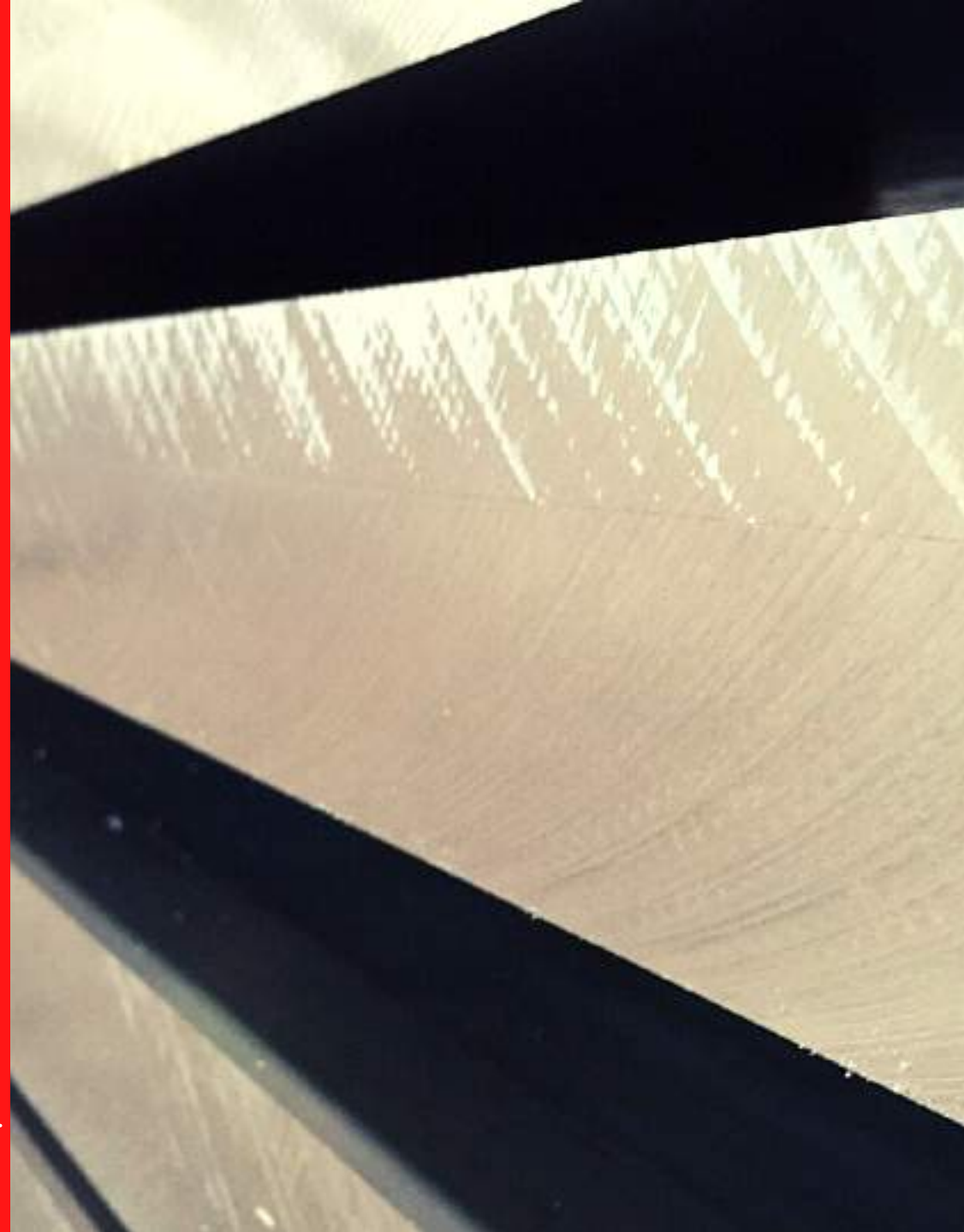
- a) Extruded & drawn seamless tubes
- b) Extruded & cold finished bars (round/square/flats/hex)
- c) Various shapes of profiles.

SPECIALTIES OF MATERIAL:

- a) High strength alloys: 7075, 7475, 7055, 7050, 2024, 2014, 2124 etc.
- b) Stress relieved temper, over aging temper: T651, T7351 etc.
- c) Fine grain structure

DIMENSION:

- a) Seamless tube: OD: 6 ~ 200 mm /Thickness: 0.5 ~ 60 mm
- b) Profile & Bars: Cross sectional Dimension 6 ~ 250 mm



ALUMINIUM PLATE (HOT ROLLED)

CAPACITY: 6000 TONS MONTHLY

ALLOY : 7075, 7050, 7475, 7055, 7155, 2024, 2124, 2014. 6061, 6082, 5083, 5052...ETC.

DIMENSION :

- a) Width: 1220 mm ~ 1270 mm (48" ~ 50")
- b) Thickness: 8~250 mm (0.315"~9.8")

SPECIALTIES OF MATERIAL:

- a) Stretched plate (stress relieved), No deformation after machining
- b) Aerospace material conform to AMS-2154
- c) AMS temper: T351, T651, T7351, T7751, T851, H321, H116, H131
- d) Fine grain size
- e) ASTM Tolerance for Flatness and Thickness
- f) ABS certificate : 5083-H321/H112 ; 5086-H116/H321
DNV certificate: 5083-O/H111/H112/H116/H321



HOT ROLLED

WIRE ROD

Hot Rolled

ALUMINIUM WIRE / ROD



FOR **AEROSPACE** & **AUTOMOTIVE** FASTENER



- Alloy: 7075. 7050. 2024. 2014. 2017. 2117.
6061. 6056. 5056. 6082...more
- Condition: O/H/T
- Redraw Rod: 8.0mm~32mm (0.315"~1.26")
- finished wire: 2mm~30mm (0.08"~1.18")
- Weight : around 250kg / coil (no welding)

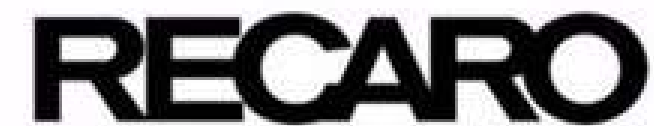
Capacity:

- Redraw Wire: 6000Mts per year (13.3 million LB / year)
- Finished Wire: 3000Mts per year (6.6 million LB / year)

" Surface Shaving is available in house "

CUSTOMERS REFERENCE

YE FONG ALUMINIUM INDUSTRIAL LTD.



CUSTOMER REFERENCE



1. COLD FINISHED ROUND /HEX BAR
2. HOT ROLLED WIRE AND ROD

2024 - T351 / T851/ T4 / O/ H112 ...

2117-O

7050-H13

7075 -T651 / T7351/ O /H13...

5056-O

6061-H14

6056 -H12 / H14

ALLOYS:

7075. 7050. 2024. 2014. 2117.4032. 6061. 6063. 6056. 6082. 5056 . 5052

ETC. (ALL ALLOYS, MAINLY FOCUS ON HIGH STRENGTH ALLOYS)



CUSTOMER REFERENCE

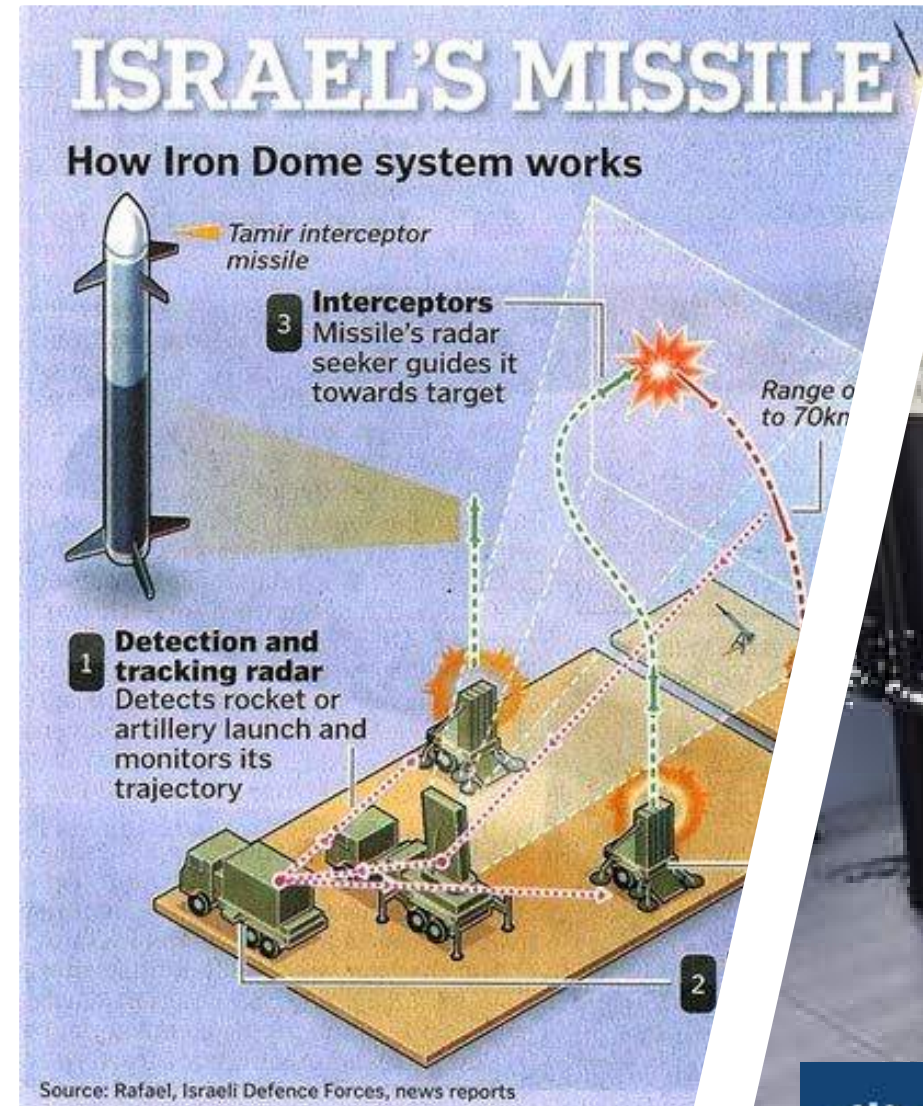
IRON DOME SYSTEM PLATES, TUBES, BARS

AMS 2154,
CLASS A / CLASS AA

- 2024 - T351 / T851
- 7075 - T651 / T7351
- 7050 - T7451
- 5083-H321 / H116

BLACK HAWK HELICOPTER ANTI SHOCK STRUCTURE

- 7075 — T651
- 7050 — T7451



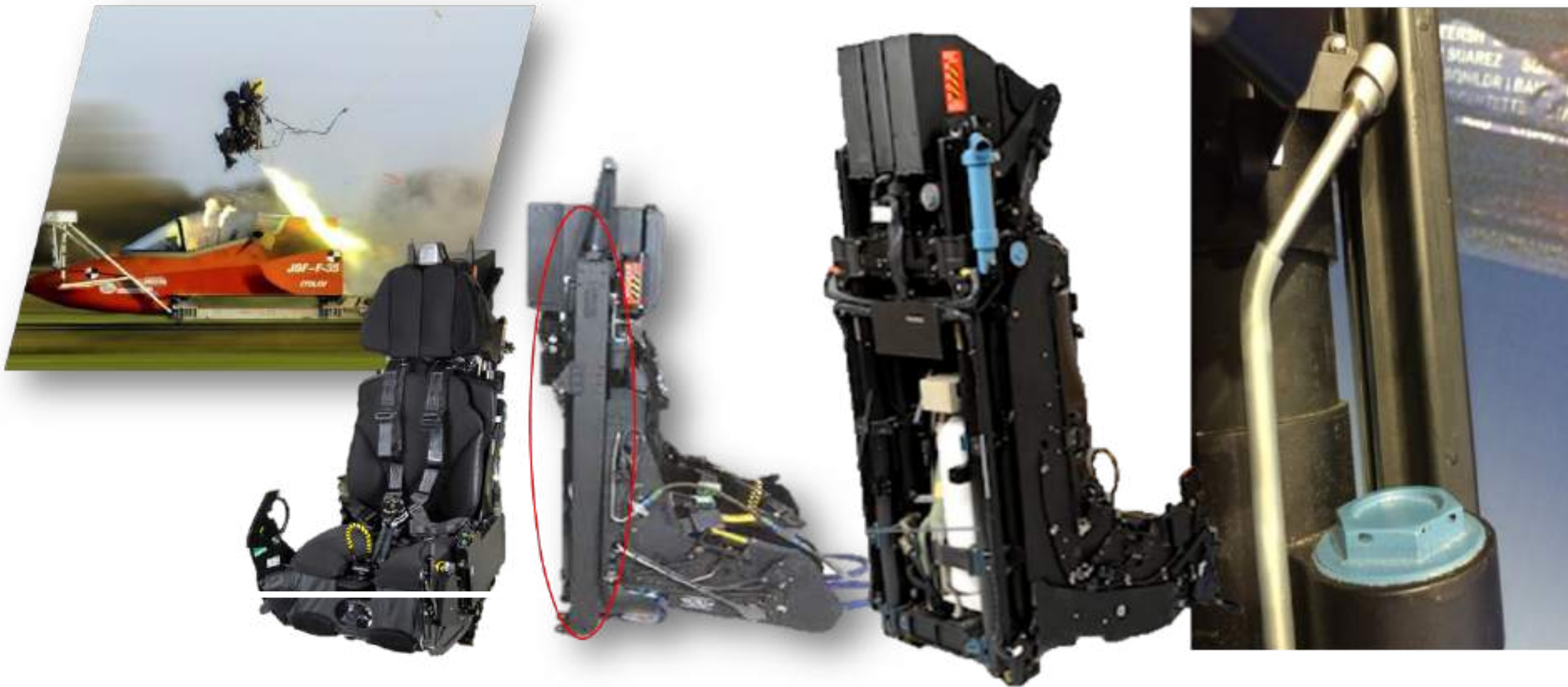
RAFAEL 
ADVANCED DEFENSE SYSTEMS LTD.

 **Sikorsky**
A United Technologies Company



CUSTOMER REFERENCE

NB
Martin-Baker



FIGHTER JET SEAT EJECTOR GUIDE RAIL

- 2014-T6 - L100 spec Rectangular Tube
- 7075-T73511 Extruded Seamless Profile



CUSTOMER REFERENCE



ALUMINIUM TUBE . BAR. PLATE. WIRE/ROD | 2024 . 7050 . 7075



CUSTOMER REFERENCE

- **EMBRAER**

6061 Hydraulic Tube



- **LEONARDO**

7075-T651, 7050-T651 Tube, Bar



- **PT DIRGANTARA INDONESIA (INDONESIAN AEROSPACE)**

7075-T651, 7050-T651 Tube, Bar



- **AIDC**

2024-T851/T351, 7475-T7351, 7050-T7451, 7075-T7351 Plate, Tube, Bar



- **SAFRAN FRANCE**

7075-T7351/ 2024-T3 Seamless Tube, 7055-T7751 Tube, Plate



- **KAWASAKI HEAVY INDUSTRIES, LTD.**

2014-T6 Cold Drawn Rectangular Bar Drawn Rectangular Bar



- **ISRAEL AEROSPACE INDUSTRIES**

7075-T7351 Bar
7050-T7451 Tube
7075-T651 Plate

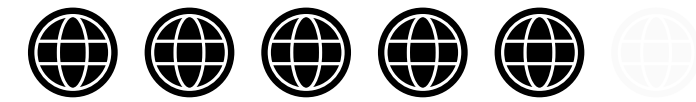


CUSTOMER REFERENCE



TIE ROD

2024 AEROSPACE
SEAMLESS TUBING-TIE ROD
(WL 3.1354)



- 2024 - T4
- 2024 - T351
- Fine Grain Size : structure > 5

GMT

GMT Rubber-Metal-Technic Ltd

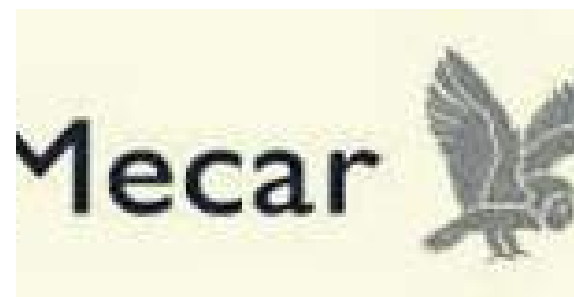
RR
RO-RA
PERFORMANCE

CUSTOMER REFERENCE

AMMUNITIONS

(CARTRIDGE / TAIL FIN / SABOT / BAR)

- 7075-T651 Profile
- 2024-T351 Profile



CUSTOMER REFERENCE



BOEING KC-46 TANKER REFUELING CONNECTOR

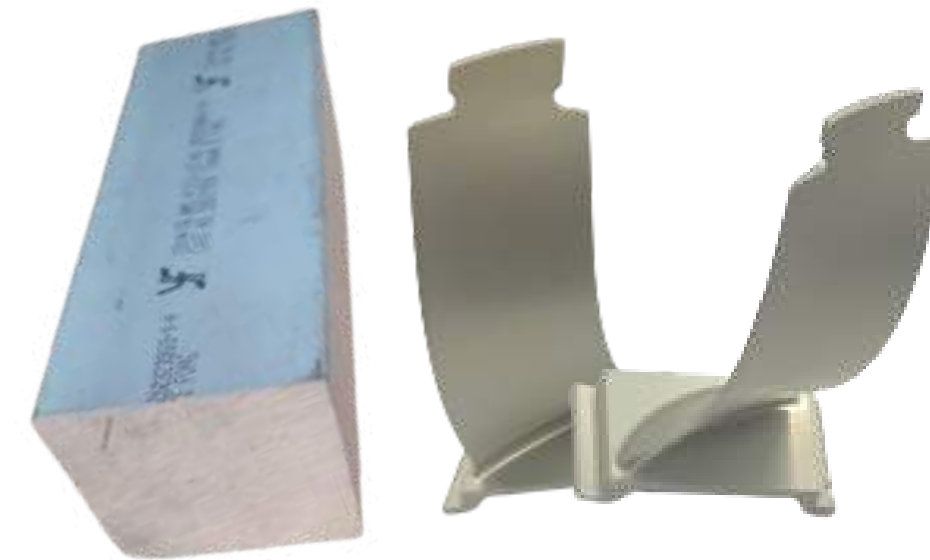
7075 T73 Round Bar

CUSTOMER REFERENCE



PW ENGINE - PW1100G-JM

2014-T6 Cold Drawn Flat Bar



CUSTOMER REFERENCE

ASTM B928 - G66/G67 MARINE HIGHLY CORROSION RESISTANT ALUMINIUM PLATE

- 5083-H116 / H321
- 5052-H32 / H34
- 5086-H116 / H321





CUSTOMER REFERENCE

SEMICONDUCTOR MASK RETICLE

- 7075-T7451 / 6061-T651
- Aluminum Plate



CAMERA LENS

- 5056-H1 12/H32
- 5052-H1 12/H32
- Aluminum seamless tube



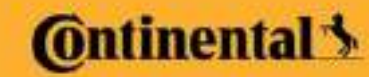
Canon
Nikon
SONY



CUSTOMER REFERENCE

VEHICLE BRAKE PISTON

6061, 6082



VEHICLE PUMP HOUSING

6061, 6082



CUSTOMER REFERENCE

BIKE INDUSTRY

2014/2024/7050/7075/6061/6066
Extruded & Drawn Tube, Bar, Plate

- Fork Suspension Tube, Top Tube
- Seat Tube, Crank, Stem
- Gear plate (Chaining), Hub,
- Crown (Shoulder Frame), Handlebar,
- E-bike Smart Wheel Motor Cover



SRAM

AINTEC
Suspension System • Precision Works

Pacific
Cycles

gogoro
eeyo

POST
MODERNE

燁鋒輕合金股份有限公司
YE FONG ALUMINIUM INDUSTRIAL LTD.

CUSTOMER REFERENCE

Camera Lenses

5056-H112, H32
5052-H112, H32



Copy Roller Drum Tube

3003-H16



Air Compressor Parts

(anti friction corrosion)
4Y32 – T6



Automotive Air Condition Tube Set

3003-T0
6063-T83
5052-H34



Tracking Poles, Ski Poles

7075-T6



Medical Wheel Chair Tubing

6061-T6
7005-T53



QUALITY CONTROL SYSTEM

YE FONG ALUMINIUM INDUSTRIAL LTD.

QUALITY LIES IN THE DETAILS

QA LABORATORY:

- Chemical & Metallurgical Analysis
- Electrical Conductivity & Mechanical Tests (Tensile/Yield/Elongation,...)
- Immerse Ultrasonic Test , also with contact type & Eddy Current Test
- Other special test

Over the years our R&D Team has created over 100 innovative alloy applications for the aerospace industry.....



Tensile Test Machine



Spectral Chemical Composition Tester



Micro Structure Analyzer



Conductivity Tester



Immerse Ultrasonic Test (NADCAP)

The image shows a large industrial facility, likely an aluminum processing plant. In the foreground, there are several long, rectangular aluminum sheets or coils stacked on a conveyor system. The sheets have a metallic, reflective surface. In the background, there are large blue industrial structures, possibly part of a rolling mill or extrusion line. The lighting is bright, highlighting the metallic surfaces and the blue machinery.

IMMERSE ULTRASONIC TEST (AMS-STD-2154)

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