

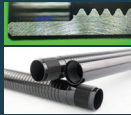
## Products & Technology Roadmap

2023

- 2024-T3 development and mass production of pipes for gliding (Glides), which conform to EN standard.
- Complete prototype samples of 7075 variable wall thickness aviation seating tubes.

2022

- AS9100D Certification Renewal.
- Established 2.5D projection, CNC, honing, polishing and other precision measurements and produced high-precision shock absorber in-house.



2020

- Accepted the commission of aerospace seating tube and shock absorber projects.
- Established inspection equipments and cooperated with machining suppliers to supply steering tubes, hand-tools to overseas.



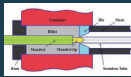
2019

- Accredited by AS9100D
- Built automatic drawing machine and develop high precision tubes which 6xxx inner tube can reach mirror surface.



2018

Factory expansion and set up our own 2,000 tons indirect extrusion machine.



2017

Successfully developed the high strength aluminum alloy A800Sc bar with TS>760MPa and <5um fine grain size.

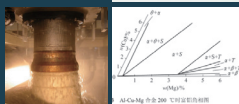
2016

Main supplier for high-end lacrosse shafts.



2013

Project of high strength aluminum alloy and high value technique development phase 1 was finished which sponsored by government, and started the phase 2 in 2018.



2012

Successfully finished the development of 7055 class baseball bat.

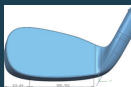


2009

Set up 1,500 tons extrusion machine and hydraulic drawing machine.

2008

- ISO 9001: 2001 Accredited
- Won the R&D Alliance Award of Al- alloy for head of golf club.



2006

AZ61 magnesium alloy sheet was tested by ACR electronic and started the mass production.

2004

AMSpec was founded.

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# AIM FOR THE BEST

**AMSpec** THE BEST SUPPLIER  
OF THE FORMED PRODUCTS  
OF ADVANCED ALUMINUM  
ALLOYS



## Taiwan Top Aluminum Alloy Supplier

We founded in 2004, moved our factory to Yunlin in 2007, and finished factory expansion in 2018. AMSpec stands for **A**ctive, **M**atey, **S**ystematic, **P**henomenal, **E**fficient, **C**onsistent, we uphold continuous creation, customer satisfaction, and do the things right to pursuit of continuous improvement and provide the best performance aluminum alloy products to the world.

## OEM Services

With our professional knowledge and experience, AMSpec is able to provide customized OEM service including CNC, surface finishing, decal application, laser carving, related accessories assembly...etc.

## Facility

Indirect Extrusion Machine



Straightening Machine



Honing Machine



Tube Drawing Machine



Heat Treatment

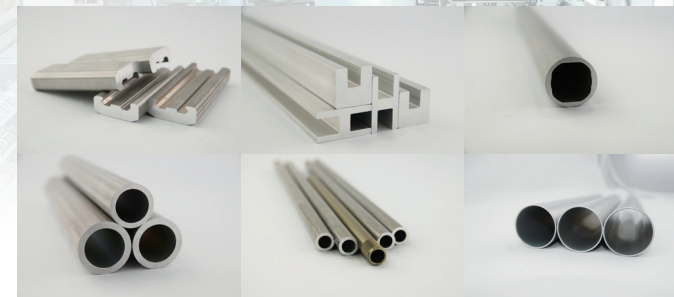


Solution, Aging, Annealing

CNC Lathe



## High Strength Aluminum Alloy Products



Alloy	Product type	Dimensional range	Tolerances	Application
2xxx 5xxx 6xxx 7xxx	Profiles	· According to customer's requirements		· Bicycle/ Motorcycle/ Automotive industry: front forks, handlebar, rim, suspension tube, shock absorber
	Seamless Extruded Tube	· OD < 75 mm (for 7" billet) · OD < 90mm (for 9" billet)	· OD $\pm 0.15 \sim 0.3$ mm · Thickness $\pm 0.2$ mm	· Defense industry · Construction industry: hand-tools · Sporting industry: baseball/softball bat, ice axe, lacrosse shaft
	Seamless Drawn Tube	· OD 7-80 mm · Thickness $\geq 0.7$ mm	· High-precise: $\pm 0.02 \sim \pm 0.05$ mm · Weight $\pm 2$ g	· Aerospace seating system · Safety accessories

## Typical Mechanical Properties

Alloy	Static Mechanical Property			Alloy	Static Mechanical Property		
	TS (MPa)	YS (MPa)	El (%)		TS (MPa)	YS (MPa)	El (%)
7050-T76	598	550	14	2014-T6	450	386	8
7150-T76	607	570	14	6061-T6	319	290	15
7250-T76	720	680	12	M6(6069)-T6	403	369	9.8
7075-T6	605	549	16	6013B-T6x	433	392	20
A600Sc-T6x	735	700	8	6013B-T61	487	459	13.4

※ The testing data will be different based on different specifications.

※ The strength with our designed heat treatment parameter could be better than ASTM standards.