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金橋鋁材集團有限公司
Kam Kiu Aluminium Products Group Ltd.

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生產基地 Production Facility:

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Company Profile

Kam Kiu Aluminium Group (KAP), established in 1983, is an aluminium extrusion company on series 1-7 alloy, which employs over 2,300 people, possesses 30 direct extrusion presses, 4 indirect extrusion presses from 550UST to 6,180UST and 2 AirSlip casting systems. We have the compressive operation system including die design and manufacturing, billet casting, extrusion, surface treatment and precision machining. Our aluminium product covers high end electronics products, automotive, transportation, vessel, industrial applications, building and construction etc. Kam Kiu Aluminium Group is certified with ISO9001, IATF16949, automotive standard; DNV, Norway marine standard; BV, France ship standard; CCS, China ship standard; ISO14001, environmental standard; OHSAS18001 occupational health and safety standard etc.



Process

Remelting

- Ultrasonic flaw detection in Aluminium billets.
- On-line hydrogen degassing system, cartridge filter systems.



Extrusion Process

Kam Kiu possesses 34 extrusion presses equipped with power frequency cascading furnace, online water quenching system, annealing furnace, quenching furnace. The annual output is 140,000 tons.



Precision Machining

Kam Kiu is equipped with 3-axis to 5-axis CNC precision machining centers in order to provide our customers with one-stop-shop services.



Surface Treatment

Kam Kiu has several anodizing lines, for producing anodized, colored and polished extrusions for the length up to 8.5 meters; in the meantime, we also have several powder-coating and spray painting lines.



Testing Centre

Kam Kiu has a completed testing system to guarantee the consistency of product quality and to meet the requirements of our customers.



Certification



ISO9001:2015



IATF16949:2016



ISO14001:2015
GB/T24001:2016



OHSAS18001:2007

Consumer Electronics

Mobile phones and accessories:

Kam Kiu Aluminium Group has been focusing on the R & D and processing of aluminium extrusions for over 30 years. The strong technical history background and the world-class equipment have guaranteed the quality of Kam Kiu and made it a renowned brand. In the consumer electronic product area, Kam Kiu is the approved aluminium supplier for domestic and international renowned brands of mobile phones, smart wearables, tablet PCs. Take the high-strength 7xxx series aluminium alloy for mobile phone case as an example, among the top 10 mobile phone brands, Kam Kiu accounts for 70% market share. In order to guarantee high product quality output, we have implemented strict technical regulations and comprehensive product quality management system on 3C electronic products. We have a professional manufacturing team of high efficiency and technical completion, which covers from alloy R & D, die design and manufacturing, aluminium alloy melting and casting, extrusion, testing, deep-processing to surface treatment. And we are able to provide customized solutions based on specific needs.

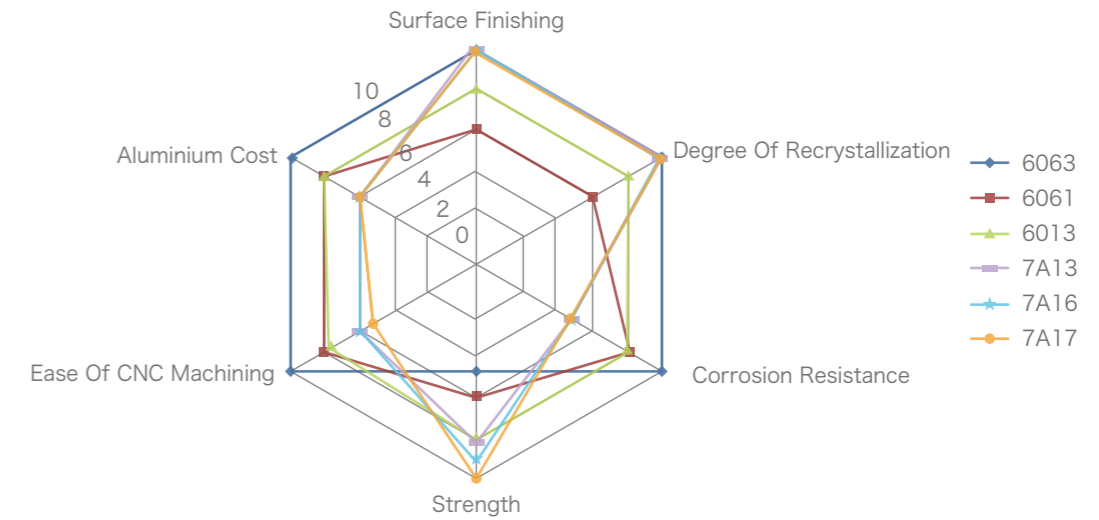


Mobile phone and accessory aluminium alloy comprehensive performance comparison:

Alloy Statu	Rm Tensile Strength MPa		Rp0.2 Yield Strength MPa		Elongation (%)	Hardness HV	Crystal Structure	Appropriate Surface Treatment ⁽¹⁾
	Kam Kiu Standard	European Standard	Kam Kiu Standard	European Standard				
6063-T6	>230	215	>220	170	8	80	equiaxed	A/B/C/D/E/F/G/H/I
6A07-T6	260	New Alloy ⁽²⁾	230	New Alloy ⁽²⁾	8	90	equiaxed	A/B/C/D/E/F/G/H/I
6061-T6	>320	260	>300	240	8	95	equiaxed	A/B/C/D/E/F/G/H/I
6013A-T6	360	360	340	340	10	120	equiaxed	A/B/C/D/E/F/G/H/I
6013H-T6	>400	360	>380	340	10	125	equiaxed	A/B/C/D/E/F/G/H/I
7A13-T6	390	New Alloy ⁽²⁾	360	New Alloy ⁽²⁾	12	130	equiaxed	A/B/C/D/E/F/G/H/I
7A16-T6	400	New Alloy ⁽²⁾	380	New Alloy ⁽²⁾	12	140	equiaxed	A/B/C/D/E/F/G/H/I
7A17-T6	440	New Alloy ⁽²⁾	420	New Alloy ⁽²⁾	12	155	equiaxed	A/B/C/D/E/F/G/H/I

Remarks:
 (1) Surface treatment codes: A. sand effect anodic oxidation; B. mirror anodic oxidation; C. baking finish; D. UV; E. PVD; F. EV; G. laser carving; H. electroplating; I. screen printing
 (2) "New Alloy" refers to new alloy developed by Kam Kiu.

Comprehensive performance comparison:



Common alloy application of mobile phones and accessories:

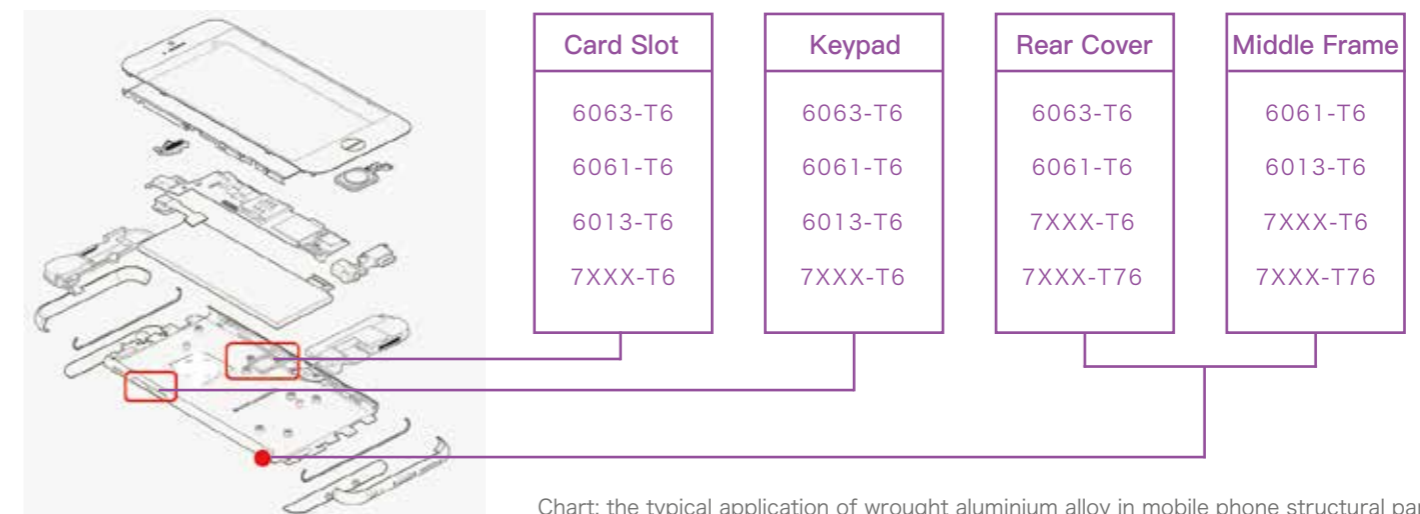
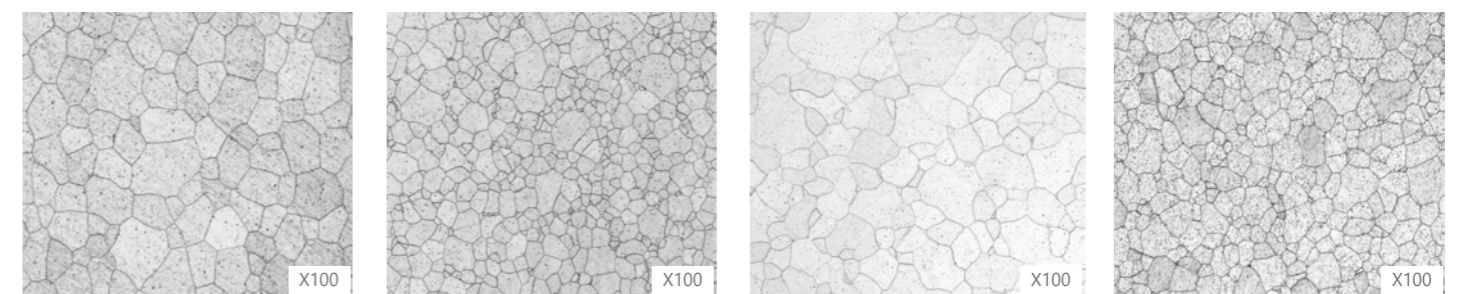


Chart: the typical application of wrought aluminium alloy in mobile phone structural parts



6063-T6

6061-T6

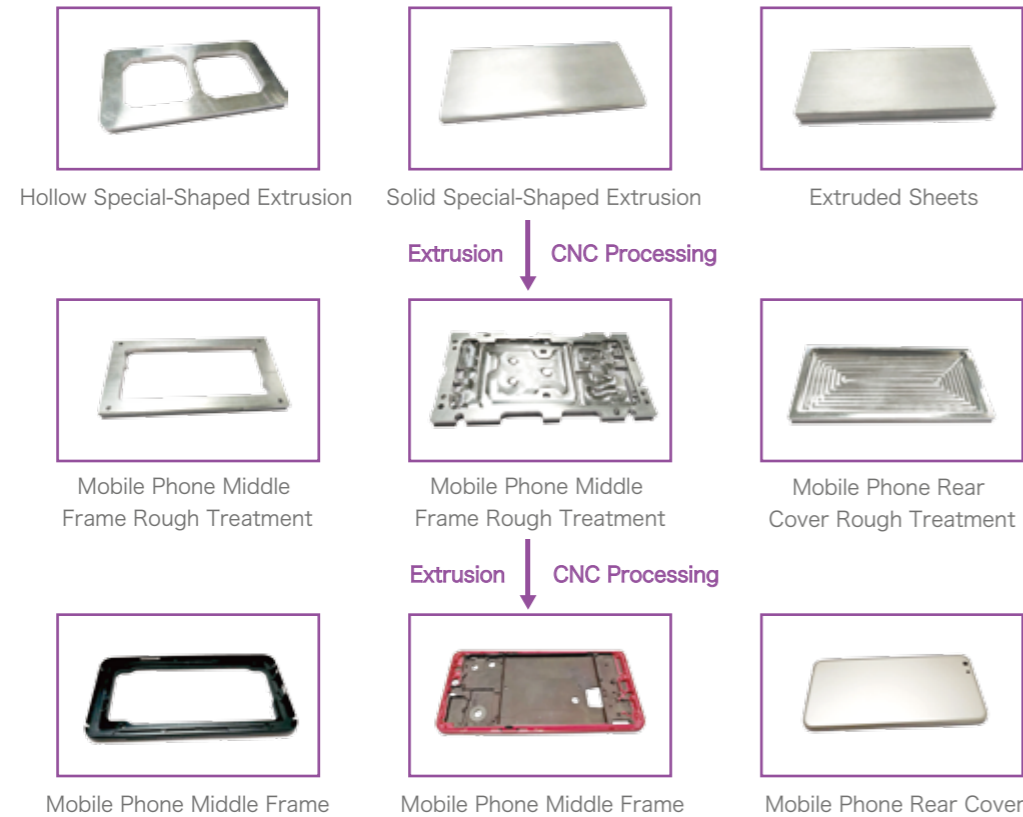
6013-T6

7XXX

Consumer Electronics

Production ability of mobile phone products, development and optimization ability of new alloys:

Production ability of mobile phone products:



Alloy development:

We are able to conduct simulation test according to customer requirements to conduct quantitative control over material micro-organization and corrosion resistance from the stage of composition design, so as to gain the best processing and utilization performances of the material.

Alloy Design Method	Alloy Design Object		Alloy Design Content
Monte Carlo	Nanoscope Organizations	Alloy Composition	Microscale atomic cluster development and dispersion strengthening phase generation
		Valence Structure	
		Atomic Cluster	
Molecular Dynamics	Mesoscopic Organizations	Solid Solution	Coordinative toughening of dispersion strengthening phase and characteristic micro-structure
		Dispersion Strengthening Phase	
		Sub-Crystal Organization	Anti-fatigue micro-structure formation and development
		Crystal Boundary Development	
Finite Element	Macroscale	Crack Origin and Spread	Electrochemistry and corrosion mechanism of feature toughening organization
		Corrosion Mechanism	
		Multi-Physical Field Coupling	Feature organization development during high efficiency welding process

Testing Equipment:



Other consumer electronic product shells and frames:

Case for smart digital video & audio product and network communication products:

These products have special requirements on the mechanical properties, strict standards for material surface and dimensional public tolerance. Manufacturers of these products are required to have strong ability in alloy melting & casting, precision die design & manufacturing, extrusion technique and control. Kam Kiu is a manufacturer of these products for many worldly renowned brands.

Case for tablet PCs:

These products have special requirements on the mechanical properties and demand high material purity and high grade of grain size as well as material consistency due to the large exposed product surface area. Kam Kiu is a high-quality supplier of tablet PC shells for renowned computer brands.

Case for smart wearables:

These products have special requirements on the mechanical properties and demand good surface decoration effect. The 7A series aluminium alloy specially developed by Kam Kiu possess both advantages. Kam Kiu is also able to provide customized solutions based on specific needs.

Frames for TVs:

The highly decorative TV frames have special requirements on the mechanical properties and demand material thinness and are strict on dimensional public tolerance.

