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KAM KIU ALUMINIUM GROUP

www.kamkiu.com

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金桥铝材集团有限公司
Kam Kiu Aluminium Products Group Ltd.

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生产基地 Production Facility:

台山市金桥铝型材厂有限公司
Taishan City Kam Kiu Aluminium Extrusion Co.,Ltd.

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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.
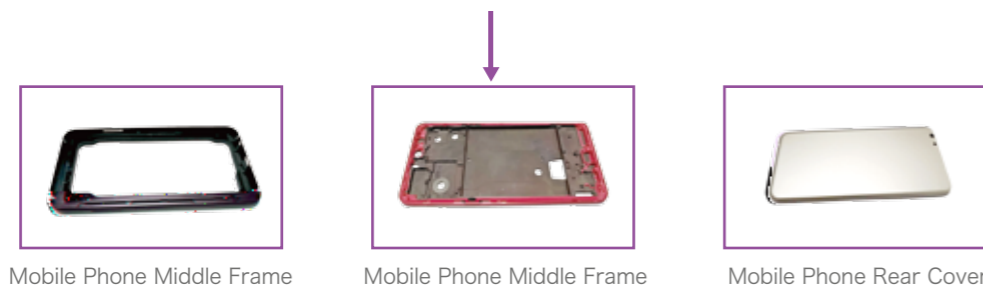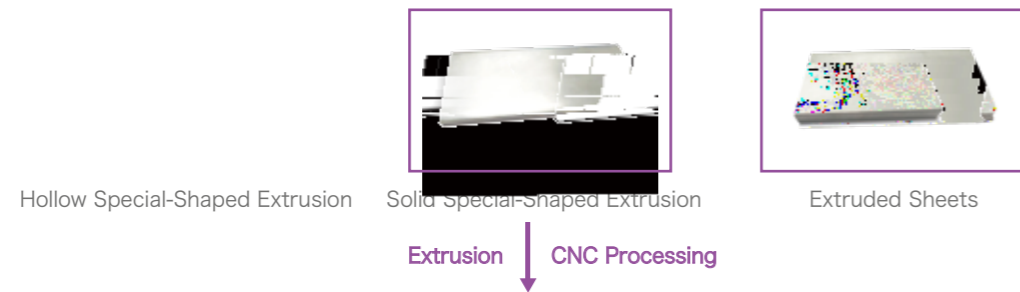
Mobile phone and accessory aluminium alloy comprehensive performance comparison:

Alloy Statu	Rm Tensile Strength MPa	Rp0.2 Yield Strength MPa	Elong– ation (%)

Comprehensive performance comparison:

Common alloy application of mobile phones and accessories:

Consumer Electronics

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

- Production ability of mobile phone products:

Hollow Special-Shaped Extrusion   Solid Special-Shaped Extrusion   Extruded Sheets

Extrusion | **CNC Processing**

Mobile Phone Middle Frame   Mobile Phone Middle Frame   Mobile Phone Rear Cover
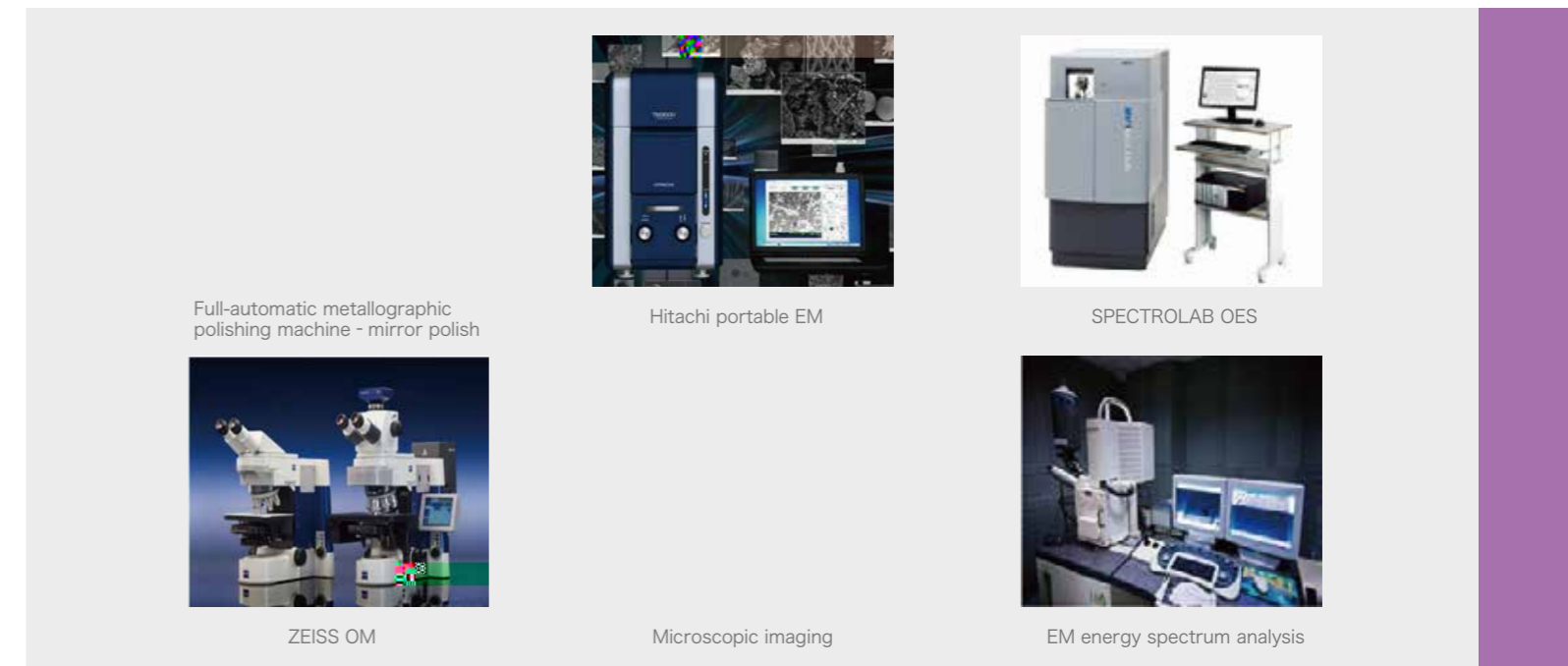
- Alloy development:
  We are able to conduct simulation test according to customer requirements to conduct quantitative control over material micro-organization and corrosion resistance from the stage of composition design, so as to gain the best processing and utilization performances of the material.

Alloy Design Method	Alloy Design Object	Alloy Design Content
Monte Carlo		Microscale atomic cluster development and dispersion strengthening phase generation
		Coordinative toughening of dispersion strengthening phase and characteristic micro-structure
Molecular Dynamics		Anti-fatigue micro-structure formation and development
		Electrochemistry and corrosion mechanism of feature toughening organization
Finite Element		Feature organization development during high efficiency welding process

■ Testing Equipment:

Full-automatic metallographic polishing machine - mirror polish

Hitachi portable EM

SPECTROLAB OES

ZEISS OM

Microscopic imaging

EM energy spectrum analysis

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.