

ALMAG Aluminum

SMARTER · BETTER · FASTER



Thermal Management

Heat transfer by design

ALMAG Aluminum's "whatever it takes" approach to custom aluminum heatsink extrusion lets product designers to push the window of innovation. If you can imagine a better heatsink, ALMAG can extrude, fabricate and finish it.

ALMAG is an ISO 9001 certified single-source aluminum extrusion company specializing in complex, thin wall, tight tolerance and high visual aluminum extrusions.

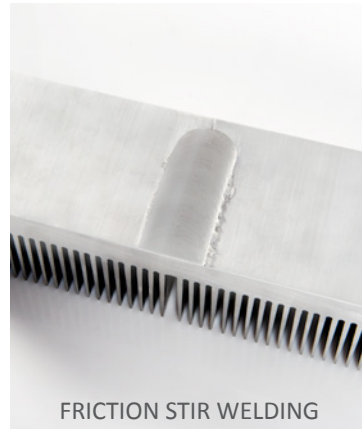


Thermal Management

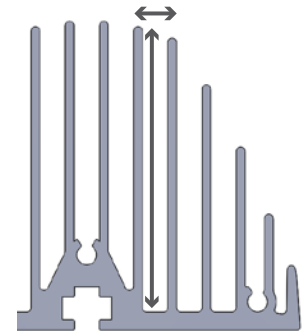
Run cooler. Last longer.

COMMON CHALLENGES

- **Product Development** — Designers look to maximize surface area and thermal management, which are key elements in heatsink design. This optimizes heat dissipation resulting in better-performing LED fixtures.
- **Conductivity** — Engineers know that the heat generated by LED fixtures requires a highly conductive material to maximize longevity.
- **Projection** — Product designers often need the ability to illuminate more area with the same fixture.
- **Value Engineering** — No matter how unique a product engineer's idea is, they need to know it can be manufactured cost-effectively.



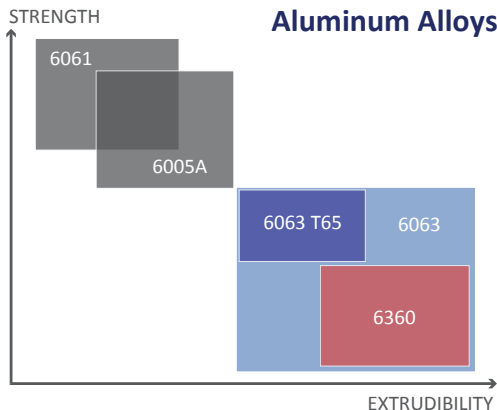
FRICTION STIR WELDING



TONGUE RATIO 10:1

THE ALMAG APPROACH

- **SMARTER DESIGN** — ALMAG will work with your designs to increase your heatsink's surface area using smooth or serrated fins. ALMAG will assist with material distribution for improved heat dissipation which can increase the area where the light is projected by bending your heatsinks.
- **BETTER MATERIAL** — ALMAG extrudes heatsinks with 6360 alloy, which has a 4% better thermal conductivity than the commonly used 6063 alloy, while maintaining the mechanical properties of 6063.
- **FASTER ASSEMBLY** — Let ALMAG engineers work with you to incorporate functions like screw ports and dove tails to optimize die costs, lower part counts and reduce assembly time.



Material design for heatsink profiles

DESIGN • EXTRUDE • FABRICATE • FINISH

What are your most pressing needs?

Contact us at 1.888.462.5624 or at extrusions@almag.com.

Want more illumination?

Discover the rest of the ALMAG heatsink Solution story and other products we design, extrude, fabricate and finish.

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