

BOYD

CORPORATION

WWW.BOYDCORP.COM

MOBILE ELECTRONICS

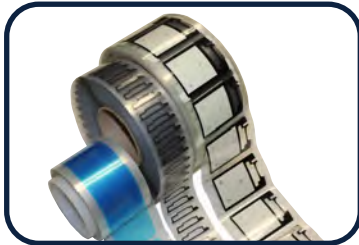
A decorative graphic consisting of several hexagons of varying sizes and colors. The hexagons are arranged in a pattern that is roughly rectangular, with some hexagons missing, creating a honeycomb-like structure. The colors range from bright orange to dark blue, with a gradient effect across the entire graphic.

One Company, Many Solutions

Precision Converting Solutions

Boyd is an innovative precision converter with extensive experience in the Mobile Electronics Industry ranging from integrated display gaskets for advanced hand-held displays to optically clear screen adhesives and sensor & camera protection.

We produce high quality, high accuracy components. From product and process design to clean room manufacturing, Boyd provides complete solutions that bring your innovative ideas into reality.



Applications:

- Anti Glare & Privacy Film
- Bezel Bonding
- Button & Keypad Covers
- Component Identification & Tracking Labels
- Display & Optically Clear Adhesives
- EMI & RFI Management
- Graphic Overlays & LED Deadfront
- Heat Shields & Graphite Heat Spreaders
- Integrated Display Gaskets
- LED Diffusers / Diffusers Films
- Light Control & Enhancement Films
- Microphone & Speaker Wire Mesh
- Protection Films
- Water & Moisture Indicators



Integrated Display Gaskets

With our advanced rotary die cutting capabilities, Boyd is able to integrate multiple functions into a single component with ultra tight tolerances including heat spreading, EMI & RFI management, electrical insulation, & vibration cushioning. Boyd's integrated solutions help customers simplify bill of materials, reduce assembly costs, & simplify supply chains.

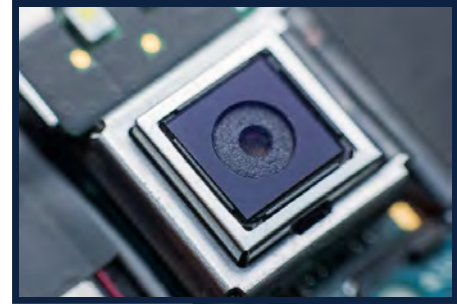
Screen Enhancement Solutions

We utilize high performance materials to help increase display efficiency, reduce power consumption and increase battery life. By processing advanced materials in a clean room environment, Boyd is able to fabricate supreme optically clear solutions for our customers.

Thermal Solutions

Aavid, Thermal Division of Boyd Corporation, provides solutions and services, utilizing both traditional cooling solutions and breakthrough technologies ranging from standard heat sinks to fully custom two phase or liquid systems.

Aavid meets the challenge of thermal control for applications involving increased power, extreme heat loads and tighter space constraints.



Applications:

- High Capacity Batteries
- Wireless & High Speed Charging Systems
- Advanced Camera Solutions
- Sensors & Input Devices
- High Density PCB Assemblies
- LED & OLED Advanced Displays
- Housing & Chassis Solutions

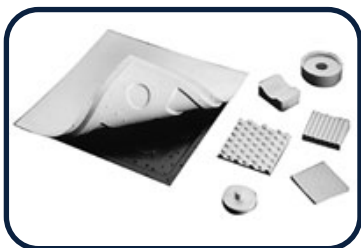
Technologies:

- Vapor Chambers
- EMI & RFI Shielding
- Thermal Interface Materials
- Heat Pipes
- Liquid Cooling Systems
- Heat Shielding

Ultra Thin Solutions

Aavid's engineering expertise enables us to analyze the most challenging designs and apply innovative technologies from our solutions portfolio to create ultra thin thermal solutions. Our passive solutions such as graphite heat spreaders or two phase solutions like heat pipes or ultra thin vapor chambers, exceed both thermal & size requirements for challenging thermal specifications & tight dimensional constraints for mobile phone applications.

Our low profile blowers can easily be paired with zipper fin or folded fin heat sink assemblies to produce high performance active cooling solutions. These solutions extend the performance of notebooks and tablets while minimizing height and weight.





Providing Solutions To Complex Problems

Boyd's fully integrated precision converting and thermal management capabilities are from multi-faceted facilities in the US, Asia, and Europe, providing competitive solutions for a wide range of applications. Boyd offers total solutions with deep material selection expertise, innovative manufacturing technologies and easy-to-integrate production parts with tight tolerances. Converting and fabrication capabilities include rotary and flatbed precision converting, laser and water jet for quick turn prototyping, laminating, slitting, 3D modeling, CNC machining, brazing, welding and other fabrication techniques. Boyd can assist in selecting the most cost-effective material solutions while supporting the design of your solutions within the most comprehensive manufacturing and assembly operations in the industry. The result is a reliable, consistent production execution at the highest quality.

Quality & Processing

Boyd helps you exceed industry standards, regulations and environmental protection goals while maximizing long-term performance and reliability. We put quality first. Our design & production facilities have extensive knowledge of Mobile Electronics OEMs, regulatory, and third party specifications. All facilities are certified to ISO 9001 specifications at minimum for contingency planning and have robust Environmental, Health and Safety programs.

Global Capacity

With production facilities strategically located around the world, Boyd is uniquely positioned to support your needs. No matter where you are designing or building products around the world, we are there to support with design assistance, converting and metal fabrication, immediate customer service, local warehousing, and just-in-time delivery and logistics services efficiently and in close proximity to your R&D and production locations.

Clean Room Capabilities

Boyd's broad offering of advanced display components, such as IP seals, integrated display gaskets and multi-stacked adhesive assemblies, ensure that components like cameras, sensors, speakers, and PCBs stay sealed away from environmental hazards. With advanced rotary converting manufacturing technology in Class 100 clean rooms, Boyd has pure operational environments to provide particulate-free components for extremely sensitive applications with high visual and aesthetic demands.

Global Presence



Corporate Headquarters

5960 Inglewood Dr. Suite 115
Pleasanton, CA 94588
+1(888)244-6931

Mobile Electronics Facilities

Boyd Corporation is a trusted partner for quality Mobile Electronics design and manufacturing. We help you design and validate either in North America or Asia, with prototyping and mass production in low cost regions, regionally aligned with your Contract Manufacturing partners. We seal and protect sensitive components from unpredictable user environments and are the world leader in thermal solutions that manage high heat loads. All which ensure longer product lifetimes and better user safety.

Noida • Wuxi • Shenzhen • Shanghai • Chonburi, • BacNinh • California • New Hampshire • Pennsylvania

Boyd America

Our highly-trained North American support teams are here to assist with your program management requirements, material selections, product design, commodity management, application engineering and raw material or finished goods testing. Our cross-functional team can be tailored to your unique needs and will closely monitor your initiatives and new programs, while ensuring tight management of new product introduction, volume production and delivery deadlines.

Arkansas • California (4) • Connecticut • Georgia • Indiana • Massachusetts • Michigan
New Hampshire • New York • Oregon • Pennsylvania • South Carolina • Tennessee • Wisconsin

Boyd Europe

Our engineers have decades of research and develop experience to provide European customers with the highest quality custom technologies. Boyd excels in rapid prototyping and regional design services deployed for global mass production. We offer sophisticated order management that caters to your custom EDI or supply portal needs with just-in-time stocking and delivery support. Boyd delivers high touch customer service in a global environment, optimized for your complex value chains.

Italy • Germany • United Kingdom

Boyd Asia

With operations spread across Asia, Boyd's global manufacturing footprint, engineering design centers and clean room capabilities from Class 100 to Class 100,000 provide consistent quality, speed and cost-effectiveness with centers of excellence and quality management systems to meet the unique needs of highly diversified industries, providing Asia-Pacific customers as well as global OEMs reliability throughout the product life cycle.

BacNinh • Bangalore • Chonburi • Gujarat • Gumi • New Taipei • Noida • Shanghai • Shenzhen • Wuxi