

# BOYD

## CORPORATION

[WWW.BOYDCORP.COM](http://WWW.BOYDCORP.COM)

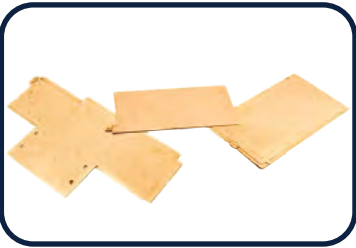
SMART AGRICULTURE & CONSTRUCTION  
ELECTRIFICATION TECHNOLOGY

One Company, Many Solutions

### Thermal Solutions

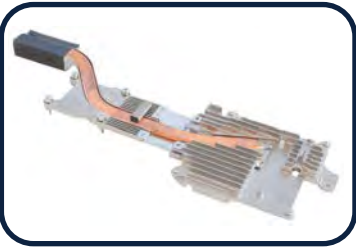
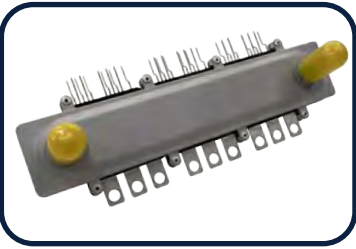
**Aavid, Thermal Division of Boyd Corporation,** provides solutions and services, utilizing both traditional cooling solutions and breakthrough technologies ranging from standard heat sinks to fully custom two phase or liquid systems.

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



#### Applications:

- Battery Module Cooling
- Inverters & DC/DC Converters
- Computer Systems for Autonomous Farming
- IGBT Cooling
- Thermal Management for
  - Self-driving computers
  - Sensors and LiDAR
  - Navigation
  - Telematics Systems
- LED Lighting



#### Technologies:

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



#### Integration of Technology

Agriculture and Construction OEMs are integrating more technology features, like communications systems, on board processing for sensor arrays, and system optimization electronic units. To address the thermal challenges of connectivity and electrification, Boyd designs and manufactures durable thermal solutions & systems for high-performance cooling.

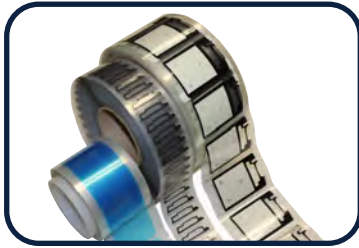
#### Thermal Management

By integrating and optimizing a wide range of cooling technologies, Aavid engineers develop lighter, more reliable thermal systems to meet your application needs, including power conversion solutions, heat shielding, and LED cooling.

### Precision Converting Solutions

**Boyd is an innovative precision converter** with extensive experience in the Agriculture & Construction Industries ranging from display protection and sealing for sensor systems to ergonomic molds for internal cabin control systems.

**We turn concepts into components.** From design to manufacturing to packaging and logistics, Boyd provides full-service solutions that transform your innovative ideas into reality.



#### Applications:

- HMI and Display Films
- Graphite Heat Spreaders for Displays
- Screen & Surface Protectors
- Custom Hoses
- O-Rings
- Acoustic Insulation (NVH)
- Bonding & Attachment Systems
- Environmental Gaskets & Seals
- Electrical Insulation
- EMI / RF Shielding & Absorption
- Display Conductivity & Protection
- Complex Multi-Stack Applications
- Conductive Foam for Gaskets & Seals
- Light Control & Enhancement Films for Autonomous Technology
- Thermal Interface Material



#### Quick-Turn Prototyping

Our CNC Laser, Knife, and Waterjet die-less prototyping systems, with Flashnesting software, allow us to quickly convert drawings to prototype parts without the need of tooling. Same or next day samples are often achievable.

#### Efficient Rotary Die Cutting

Our advanced rotary die cut converting core competencies have become a form of industrial artwork with ultra-tight tolerances (zero-gap), superb clean room manufacturing environments, and innovative raw material combinations that are critical to supporting advanced agriculture and construction OEMs and Tiers.





## 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 Agriculture and Construction OEMs, regulatory, third party and MRO specifications. Multiple facilities are certified to IATF16949 and ISO 9001 specifications for safety and contingency planning.

### Design Engineering

Boyd maintains design centers around the world dedicated to innovative thermal and sealing design solutions as well as product integration. These engineers work closely with our customers and manufacturing teams to provide a streamlined product life cycle from conception to prototyping to production and even to end of life management or retrofitting. Our design centers include both general and specialized teams focused on specific technologies, such as inverter thermal management and systems of connectivity.

### 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.

### Global Presence



#### Corporate Headquarters

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

### Agriculture & Construction Facilities

Boyd Corporation is a trusted partner for quality agriculture & construction manufacturing. Our specialized facilities team up with OEMs to make complex logistics more efficient through regional hubbing of globally manufactured products, helping customers access global best cost solutions with the convenience of localized inventory. As the go-to supplier for sealing and thermal solutions, Boyd Corporation supports Agriculture & Construction by providing solutions for devices, vehicles, and machinery that lead to higher productivity and greater safety.

Georgia • New Hampshire • Oregon • South Carolina

### 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 • 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