

Product leadership is all of us and all we do.





The people and the processes

of BorgWarner define

product leadership.

Every single day, the innovations continue.

Global product leadership begins with focused research and development at the Technology Centers in Markdorf, Germany (left), Marshall, Michigan, USA (middle), and Ningbo, China (right).



At BorgWarner Thermal Systems, worldwide product leadership begins with the innate ability to recognize and integrate breakthrough ideas focused on exceeding customer expectations.

From fuel-efficiency and emissions issues to enhancing stability and performance, BorgWarner provides superior product solutions for the ever-changing global vehicle market.

Up-to-the-minute awareness of the latest engine technology developments and regulatory mandates is the keystone to BorgWarner's keen market sense. Couple this market sense with tightly aligned processes, manufacturing excellence along with speed to market and product leadership is assured.

Global product leadership is the vision at BorgWarner Thermal Systems.

The headquarters of BorgWarner Thermal Systems is located at the Powertrain Technical Center, Auburn Hills, Michigan, USA.



Quality as a vision drives excellence.

The core of BorgWarner's product leadership is its people.

A belief system grounded in respect for others and personal integrity ignites a powerful energy of collaboration.

BorgWarner's worldwide teams of engineers and technicians embrace a passion for excellence and a never-faltering sense of responsibility to our global communities.

Every day, BorgWarner strives to be the world's choice for key technologies, competencies and products. That's why at BorgWarner Thermal Systems, vision becomes reality.

People are the tangible foundation of BorgWarner.



**The vision is to be
the world's choice
for key technologies,
competencies,
and products.**



The technology.

The know-how.

The logical choice.

Creating the next generation of cooling system solutions.

To be the leader in technology takes the right tools and the talent to use them. BorgWarner Thermal Systems has the best of both.



BorgWarner Thermal System's unique structure puts technology and science together with product design to create innovative products through concurrent engineering. That means better results, faster results, and more efficient operations. At BorgWarner, it's the people that make technology work. Our ability to attract and retain the best in the world is why BorgWarner Thermal Systems is the logical choice as a partner in creating the next generation of system solutions.

We continue to invest heavily in the kind of cutting-edge technology required of a leader in the global vehicle industry. Testing facilities simulate real-world environments in astonishing detail. Robotics automate assembly to insure consistent quality and computer-driven systems manage the flow of information to improve efficiency and cost-competitiveness.

As a supplier solely dedicated to the vehicle industry, we work in partnership with manufacturers around the world and in concert with BorgWarner's other divisions to find solutions to today's cost and time pressures and technical demands.

New Product Development

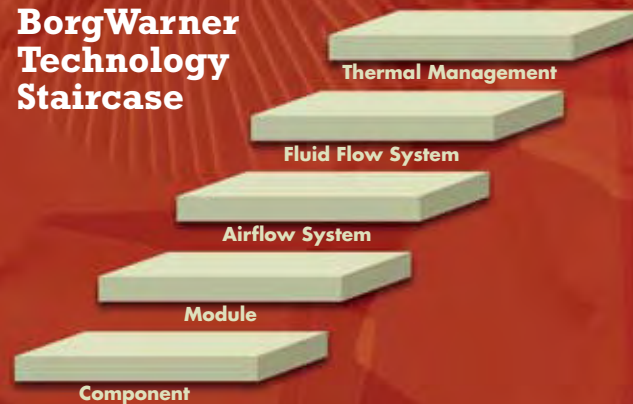
The engine cooling environment is one of constant change: new engine families with higher output result in increased heat load. More airflow obstructions cause greater system resistance.

There are also a number of market-related objectives that impact the global vehicle market:

- Improved fuel economy
- On-demand, electronically managed air flow
- Noise reduction
- Long-term durability

New technology is developed by BorgWarner with these issues in mind.

BorgWarner Technology Staircase



The proprietary BorgWarner Technology Staircase keeps the company ahead of the technological curve. To progress new product development at a faster rate, BorgWarner stays competent one technology advance ahead of current products. The result is being able to anticipate market needs, have proven products available, and remain the leader in cooling system technology.

The technology. The know-how. The logical choice.

Thermal Products

Trust the leader by choosing BorgWarner components.



Viscous Fan Drives

Viscous fan drives are the economical choice for efficiency, performance and quiet operation. BorgWarner fan drives offer the latest in engineering innovations, including fully modulating, cost-effective fan drives that control fan speed in direct proportion to engine cooling needs.



Visctronic® Fan Drives

Visctronic fan drives provide proven viscous technology with precise electronic control. The fan drive is controlled by the engine's control module for precise fan speed modulation. Visctronic fan drives provide better engine cooling and improved fuel economy with no increase in power requirements.



Kysor™ On/Off Fan Drives

The Kysor On/Off Fan Drive offers superior torque capacity to meet today's higher engine cooling demands while maintaining the reliability, ease of maintenance, and higher customer satisfaction.



Cool Logic™ Fan Drives

Cool Logic heavy-duty, multi-speed fan drives are a breakthrough in engine cooling technology. Not only are they electronically controlled and maintenance-free, but provide improved fuel economy while meeting the needs of the stringent North America heavy duty truck emissions requirements.



Polymer Fans

Polymer fans BorgWarner offer improved efficiency, reliability, and performance. BorgWarner offers a complete variety of fans to suit any customer requirement, including ring fans for applications requiring reduced noise and increased cooling.



Fluid Pumps

BorgWarner water pumps keep the engine cool as they control the flow of water circulating through the radiator to the engine. BorgWarner Thermal Systems also supplies pumping systems for lubrication, hydraulic actuation and other cooling needs for engine, transfer case, and transmission applications.



Shutters

BorgWarner Thermal Systems Shutters improve comfort, economy, performance, and life for commercial truck and off highway vehicles.

Aftermarket Superiority

Trust the leader by choosing BorgWarner aftermarket components.

Global product leadership of originally installed components translates into quality aftermarket solutions worldwide.

Nothing can be more costly than replacing an originally specified component with an inferior copy. Using BorgWarner's aftermarket components provides peace of mind knowing they have been designed to match OEM customer-specific applications and performance requirements.

Availability is assured with product applications for everything from passenger cars and heavy duty trucks to off highway vehicles.

Excellent customer support makes BorgWarner the aftermarket product solution.



It's been nearly a century and BorgWarner is still going strong as an industry leader worldwide.

BorgWarner Thermal Systems' 1300 employees at 14 locations in 8 countries are leveraging their

know how, passion and innovation into the next generation of new concepts and integrated systems.

Product leadership is all of us and all we do.

BorgWarner Thermal Systems serves the
 global vehicle industry with strategic locations
 in emerging markets throughout the world.



The Americas

**Auburn Hills
 Business Unit Headquarters /
 Powertrain Technical Center**
 3800 Automation Avenue Suite 400
 Auburn Hills, MI 48326 U.S.A.
 1-248-754-0161 phone
 1-248-754-0554 fax

**Cadillac
 Manufacturing Facility**
 1100 Wright Street
 Cadillac, MI 49601 U.S.A.
 1-800-927-7811 customer service
 1-231-779-7500 phone
 1-231-775-5749 fax

**Campinas
 Manufacturing Facility | Sales Office**
 CX Postal 6540
 CEP 13084-970
 Campinas, Sao Paulo Brazil
 55-19-3787-5700 phone
 55-19-3787-5701 fax

**Fletcher
 Manufacturing Facility**
 Cane Creek Industrial Park
 Fletcher, NC 28732 U.S.A.
 1-828-684-3501 phone
 1-828-687-5325 fax

**Marshall
 Technology Center**
 1507 South Kalamazoo Avenue
 Marshall, MI 49068 U.S.A.
 1-269-565-8100 phone
 1-269-565-8150 fax

Asia

**Chennai
 Manufacturing Facility | Sales Office**
 12, Kasturi Industrial Estate
 Ponniamman Nagar
 Ayanambakkam
 Chennai, 600095, India
 91-44-26534761 phone
 91-44-26534765 fax

**Kyungnam
 Manufacturing Facility**
 #4-5, The 3rd Standard Plant
 36, Palyong-Doug, Changwon-Shi
 Kyungnam 641-847, Korea
 82-55-237-6771 phone
 82-55-237-6770 fax

**Ningbo
 Technology Center
 Manufacturing Facility | Sales Office**
 888 East Songjiang
 Central District, Ying County
 Ningbo 315192, China
 88-574-820-9696 phone
 88-574-820-8111 fax

**Tokyo
 Sales Office**
 Nippon Building 6F
 2-6-2 Ohtemachi, Chiyoda-ku
 Tokyo 100-0004, Japan
 81-03-3746-3385 phone
 81-03-3746-3148 fax

Europe

**Bradford
 Business Centre**
 Hammerain House
 Hookstone Avenue
 Harrogate HG2 8ER
 United Kingdom
 +44 1423 876316 phone
 +44 1423 549957 fax

**Huddersfield
 Sales Office**
 Ian Hinchcliffe
 Suite F6, The Media Centre
 Northumberland Street
 Huddersfield, ID1 1RL
 United Kingdom
 44-1484-437-414 phone

**Markdorf
 Technology Center
 Manufacturing Facility | Sales Office**
 Planckstrasse 4 + 6
 D-88677 Markdorf, Germany
 49-7544-969-207 phone
 49-7544-969-220 fax

**Virginia Water
 Sales Office**
 Alexander House
 21 Station Approach
 Virginia Water, Surrey, U.K.
 GU25 4DW
 44-1344-846-700 phone
 44-1344-846-709 fax
 44-1344-846-709 fax



**BorgWarner
 Thermal Systems**

Business Unit Headquarters
 3800 Automation Avenue Suite 200
 Auburn Hills, MI 48326 U.S.A.
 1-248-754-0161 phone
 1-248-754-0554 fax