

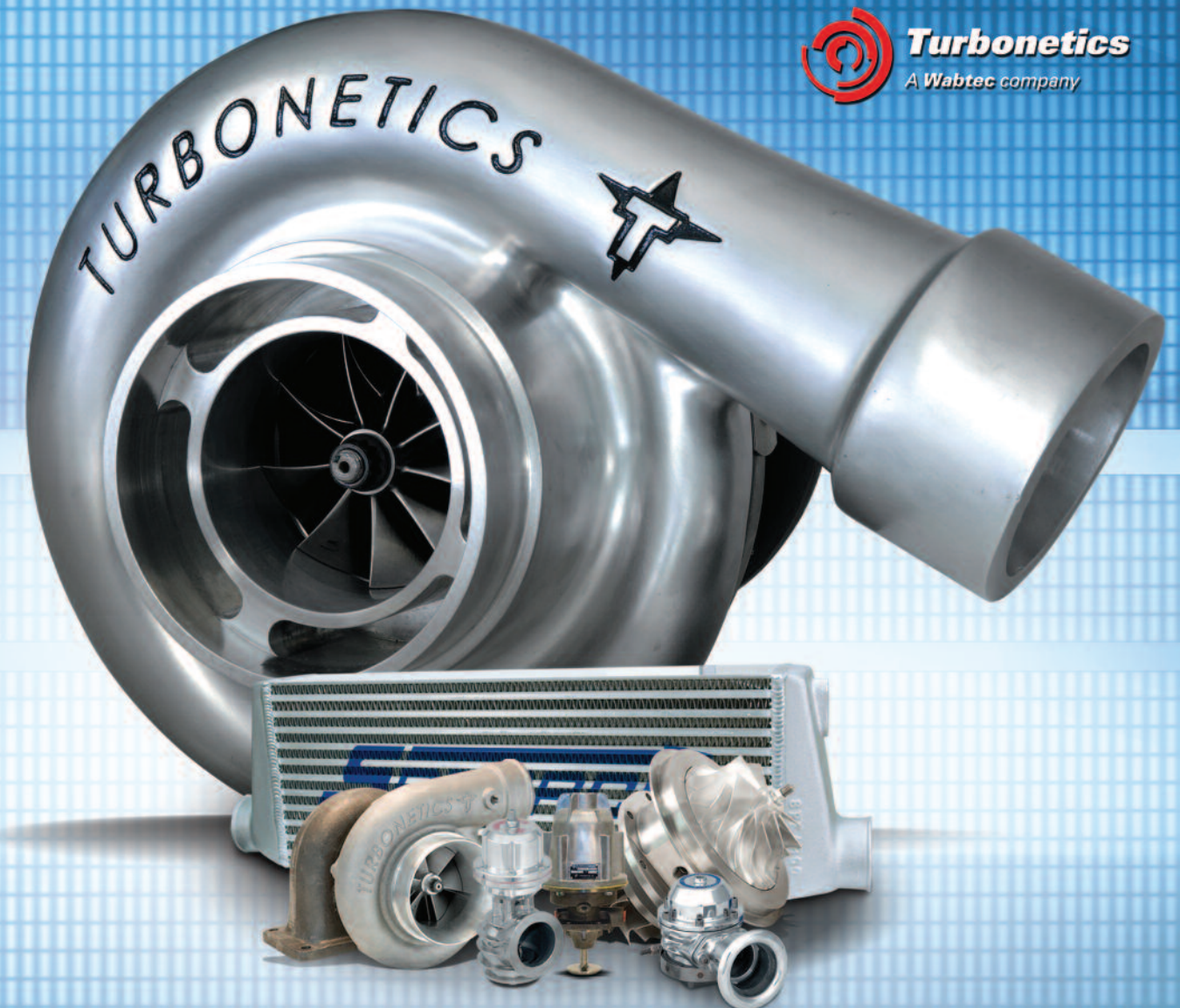
TURBONETICS

Turbonetics
A Wabtec company

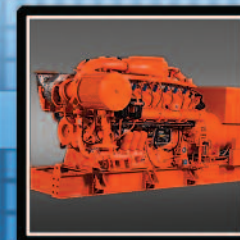
TURBONETICS

Turbonetics Inc.

14399 Princeton Ave. Moorpark, CA 93021
Phone: 805-581-0333 • Fax: 805-584-1913



INDUSTRIAL CAPABILITIES



www.turboneticsinc.com

TURBOCHARGERS • HEAT EXCHANGERS • CONTROLS



COMPANY HISTORY

Since 1978, Turbonetics has been a leading source for OEM and aftermarket turbochargers and forced induction components. From its roots as a turbocharger customization workshop, Turbonetics has expanded to become a world class small to medium volume OE and aftermarket manufacturer of turbochargers, heat exchangers and pressure control components for customers in the industrial, military and motorsport sectors.

All Turbonetics products are designed and manufactured in house to deliver best in class performance and outstanding durability, wherever they are installed. With complete, in house design and engineering capabilities, Turbonetics works closely with customers to develop unique solutions for any boosted engine challenge, from one off custom parts to medium level production up to 10,000 units per year.

CUSTOMERS

Turbonetics' products deliver the best possible performance while minimizing total cost to the customer. Often times, the use of less than perfectly matched turbo components result in premature failure and related downtime and repair cost. Inadequate performance results in premature failure and related downtime and repair costs. At Turbonetics, we develop the products for the application, so that inadequate off-the-shelf parts can be avoided.

- Our customers include: OEMs such as Caterpillar, Cummins, Ford, General Atomics, GM, Tuthill, Woodward.
- Engine fleet operators in harsh environments such as natural gas generators or refuse trucks.
- Motorsports applications from short term drag racing to long distance endurance racing.

CAPABILITIES

R&D: With extensive experience and research in engine boost technology, Turbonetics helps customers to not only choose the right components, but to balance the total engine package perfectly.

No one size fits all.

Gas stand testing and simulation capabilities means we get it right the first time.



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PARTNER BENEFITS

- In house design and development of advanced turbo components
- Personalized support and program management
- Flexible and scalable production of custom components from one offs to high volume.
- Short lead times for prototypes and production parts
- Outstanding performance and reliability

PERSONALIZED PROGRAMS

Personalized program managements - no matter how small the project, Turbonetics engineers will stay your turbo partner until all requirements are met. No need to struggle with an off the shelf turbo and no support. Certified as a world class Caterpillar supplier under the prestigious SQEP (Supplier Quality Excellence Program). ITAR Registered



SCALABLE MANUFACTURING

Turbonetics' flexible assembly lines can be modified quickly to manufacture varying batch sizes at the lowest possible cost without compromising quality. Whether the project is for one engine, or 10,000 per year all Turbonetics' products are produced with the same focus on quality and performance.



TURBONETICS PRODUCTS

TURBOCHARGERS • HEAT EXCHANGERS • CONTROLS

TURBOCHARGERS

Turbonetics offers a wide range of customizable turbos to support 100HP applications to over 2000HP with a single turbo. This allows delivery of working concept prototypes within weeks rather than months and enables fine tuning of the complete engine package very early in the development phase.

Some of the advantages of Turbonetics' turbochargers include:

- Standard journal bearings or, for increased thrust load capacity, patented ceramic angular contact ball bearings.
- Continuous aerodynamics development to achieve higher pressure ratio operating points and better fuel efficiency. We can also include a water cooling option on turbo center housing.
- Internally and externally castigated turbine housings.
- High speed VSR (Vibration Sorting Rig) balancing for smooth operation and extended service life.
- Choice of turbine housing material from standard cast iron to investment cast stainless steel.



HEAT EXCHANGERS

Turbonetics' air to air and air to liquid heat exchangers are engineered to maximize temperature reduction of boosted air while minimizing packaging size and pressure drop.

TURBONETICS' HEAT EXCHANGERS OFFER:

W.A.V.E. (Wide Area Vane Effectiveness) technology for high efficiency and minimal pressure drop. Bar and plate aluminum cores to last in rugged conditions and under extreme pressures. Complete assembly designed and manufactured to meet tough packaging and performance requirements.



CONTROLS

The power that boosted engines produce needs to be controlled accurately and reliably to ensure safe and long lasting engine performance. Turbonetics' pressure control valves have a longstanding history of maintaining control under the toughest conditions. Valve configurations to control less than 5psi to 100psi of boost pressure. High temperature wastegates for exhaust gas pressure control and low temperature bypass valves for overboost protection. With more than fifteen years as an OEM and aftermarket supplier, Turbonetics has developed procedures for In house, high cycle durability testing which we use to assure the quality and precision of all control products.

