



*1 US Patent*

*8 Indian patents pending*

*Present in 17 countries*

*7,00,000 tonnes  
of CO<sub>2</sub> emission prevented*

*5,00,000 MW-h  
energy generated annually*

# You're just one step away from joining the rest of the world

**The future belongs to the energy  
efficient and the sustainable.**

This is the reason why some of the most respected brands in India and the world use our steam turbines to help them harness energy.





**TurboTech** is a one-stop global energy solutions provider. Our central offering is the production of state-of-the-art steam turbines and turbine parts. We also provide BOOT, EPC, FEED, engineering and project management services to set up new plants and support existing plants in energy, power and chemical industries.



**25+ YEARS OF EXCELLENCE**



**GLOBAL PRESENCE**

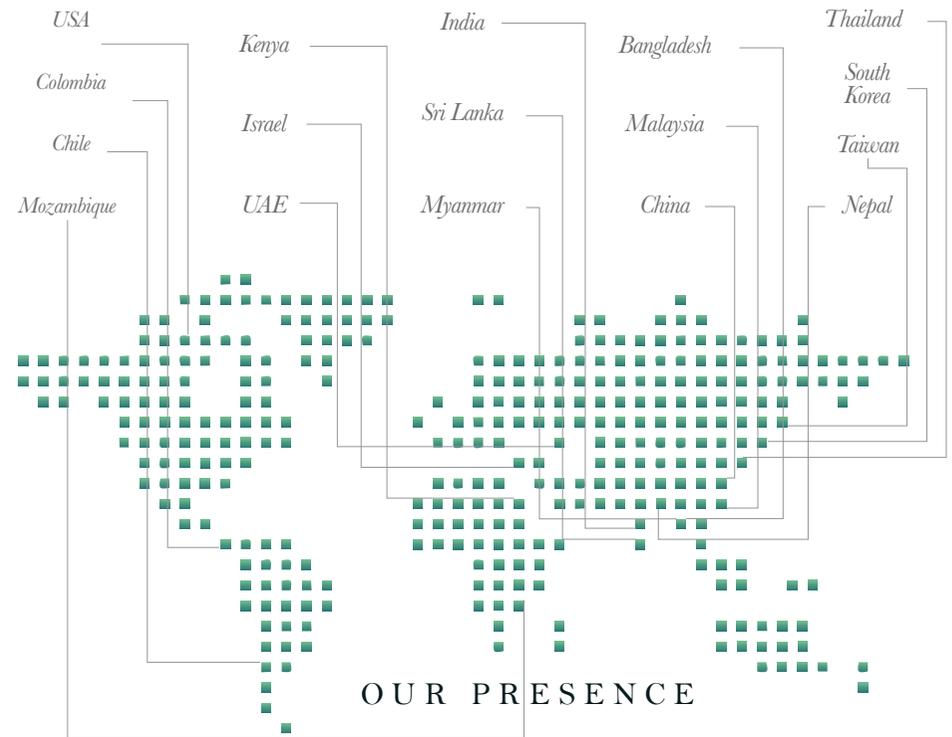


**DESIGN EXPERTISE**



**ENGINEERING & TECHNOLOGY COMPETENCE**

We were the first in the country to have indigenously developed turbo-chargers, helicopter oil cooling systems, UP-lock system and other items for organisations like ADA, NAL, HAL, GTRE, NSTL. Join us in this journey of making the world more sustainable. This culture of innovation is part of the reason why we have so many firsts and patents under our belt.



## OUR CLIENTELE



## TESTIMONIALS

“The performance of the Steam Turbine as committed and the service after sales is found satisfactory.”



“The energy conservation turbine ... is performing satisfactorily according to the specifications in our plant. Service rendered by the personnel of TurboTech Precision Engineering(P)Ltd., Bangalore at our plant is at satisfactory level.”



“This is to certify that we initially procured the Energy Conservation Turbine ... The same is performing efficiently and satisfactorily in our plant at Dubai. We are pleased and satisfied by both the products and their dedicated service support.”



**ECT<sup>TM</sup>** This device is designed to reuse pressure energy in a process plant PRV/PRDS, which is otherwise not utilized. ECT<sup>TM</sup> can be adapted based on the steam requirement for a particular process - back pressure, extraction cum back pressure, straight condensing, and extraction cum condensing or extraction bleed cum condensing. ECT<sup>TM</sup> is capable of utilizing both saturated steam as well as super-heated steam which enables it to cater to a wide range of industrial processes.

## ENERGY CONSERVATION STEAM TURBINE



It first reduces the steam pressure to the required process, ie. back pressure.



It converts this pressure energy to high velocity that gives an impulse to rotate the turbine wheel at a speed of 12000 RPM.



This high speed is reduced through a reduction gear box to 1500/3000 RPM to generate incidental clean, green electric power

**12,000 RPM**  
Better performance

**IoT ready**  
Easy status monitoring

**Aerodynamic blade design**  
Higher efficiency

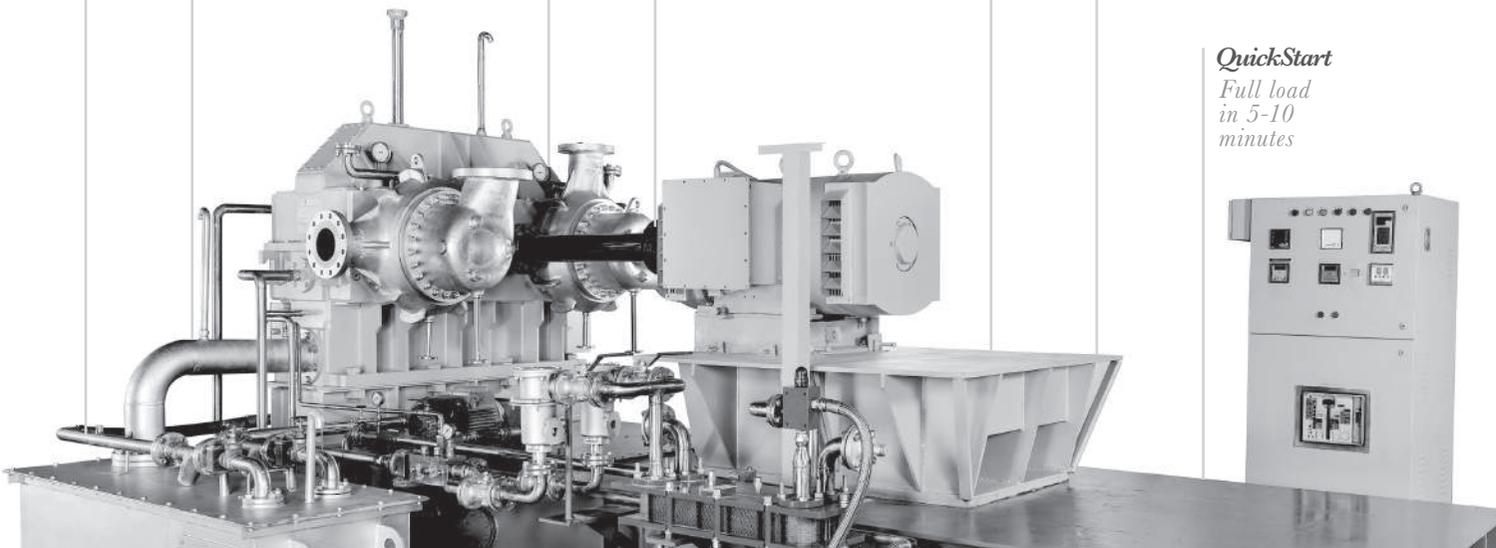
**Aerospace-grade precipitated, hardened, stainless steel**  
Corrosion resistant

**Electro-pneumatic control (web-enabled)**  
Finer process control



**Multiple starts and stops possible**  
Operational flexibility

**QuickStart**  
Full load in 5-10 minutes



## What makes our turbines better?



### RELIABLE

99.5% uptime; erosion-resistant stainless steel, steam-wetted parts ensuring longer life vs. higher standard overhaul costs + downtime



### ECONOMIC

Quick start, quick stoppage; lower installation, maintenance costs; Lower oil replenishment cost



### SAFE

Blisk rotors never dislodged during operation; superior containment due to stainless-steel volute casings; zero accidents



### QUICK COMMISSIONING

Significantly lower E&C time than the industry standard



### LOW MAINTENANCE

Significantly lower overhaul maintenance time vs. the standard; no specialized operator required

## OUR OTHER SPECIALIZED OFFERINGS



### **BOOT (Build Own Operate Transfer)**

An option that allows you the flexibility of not having to make a large investment upfront.

We bear the capital investment for the equipment, its Operation & maintenance under this scheme. You are only billed for the power consumed on a monthly basis for the contracted period of time, at the end of which you are offered the option of acquiring the equipment for a nominal amount.

### **ENGINEERING, PROCUREMENT & CONSTRUCTION (EPC) SERVICES**

Single point solution to the execution of plants, including project engineering, procurement construction as well as commissioning. From proposal engineering to post commissioning, start up services, we handle it all. We execute turnkey projects in steel, cement, power, refineries, oil and gas, general industries and other sectors.

### **GAS TURBINE | 500 KW MICRO GAS TURBINE**

These are turbines designed and developed for multi-gas and liquid fuel input.

### **TURBO-EXPANDERS**

TurboTech has designed and developed a simple and efficient machine with innovation insulation to achieve an optimal power output.



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