



**EVEREST TURBO, a division Of EVEREST BLOWERS Pvt. Ltd. proudly presents  
EVEREST SIDE CHANNEL / REGENERATIVE Blower Technology:**

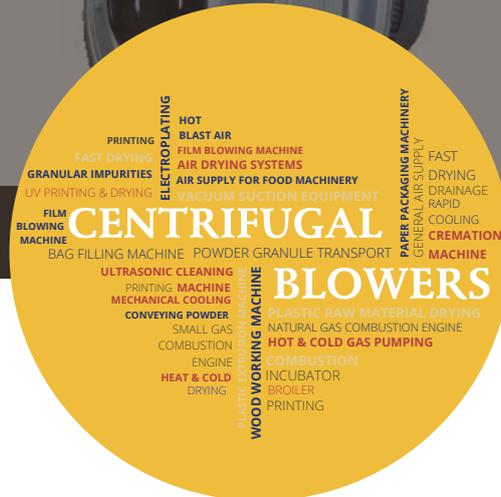
**Everest Side Channel Blowers**, also known as Regenerative Blowers / Vortex Blowers / Ring Blowers / Turbine Blowers, are designed for all areas where pulsation-free vacuum and pressure services are required. Units may be installed horizontally or vertically. The die-cast Aluminium construction makes this a very robust product. Sealed-for-life bearings, a fan-cooled drive and a non-contact impeller all ensure that the Everest Side Channel Blowers are maintenance-free. Everest Side Channel Blowers are exceptionally environment-friendly, as they require no operating fluids. An internal silencer allows the Everest Side Channel Blowers to run very quietly, whilst the drive has energy-efficient motors. Special Anti-Corrosion blowers for highly corrosive environments & Anti-Explosion blowers for highly explosive environments are also available.

**The Salient Features Of EVEREST SIDE CHANNEL BLOWERS are:**

- 100% Oil Free and Dry Quality Air, safe for critical applications. First choice in many automation projects for applications requiring Low & Medium volumes of clean, dry air at low pressures and vacuum.
- Bottom Mounting Base Design to reduce Vibration & Noise. Low noise operation (64-88db(A)) with small footprint (compact) & virtually maintenance free design. Low vibration.
- Constructed from Die Cast Aluminium Alloy. All our blowers are extremely robust, corrosion resistant and are suitable for the most demanding applications.
- Available in single/three phase configuration & single/double/triple stage design.
- Designed for continual use up to a maximum ambient temp of 45°C - 50°C.
- Equipped with a low-noise, high-efficiency, Class F, IE2/IE3 Induction Motors (50/60 Hz Dual Frequency)
- Direct Driven: maximize energy efficiency by eliminating gears or transmission box losses.
- Zero maintenance cost: Our blowers do not use gearboxes and oil lubricants used by conventional blowers, minimizing maintenance requirements, lowering user maintenance costs and improving overall system stability, Direct Driven, hence maximize energy efficiency. In addition, by adopting air-cooled cooling, there is no need for cooling water circulation and associated maintenance cost.
- Everest Turbo Side Channel Blowers suitable for vertical and horizontal operation. Full ATEX range available.



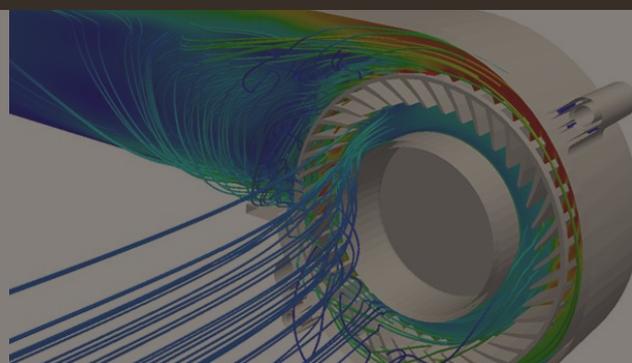




**EVEREST TURBO, a division Of EVEREST BLOWERS Pvt. Ltd. proudly presents  
EVEREST ALUMINIUM DIECAST CENTRIFUGAL BLOWER Technology:**

**The Salient Features Of EVEREST TURBO Centrifugal Blowers are:**

- Made from Die Cast Aluminium (ADC-12): High strength Aluminium alloy for light weight, high volumes of clean, oil free, dry air at low pressure and vacuum.
- For the same power, the air flow is 10 times higher than Side Channel Blowers, however, pressures are limited.
- Adjustable outlets & motor position.
- Available in single/three phase configurations.
- Have the added benefits of low noise operation.
- Virtually maintenance free.
- Extremely robust, corrosion resistant and are suitable for the most demanding applications.
- Designed for continual use up to a maximum ambient temp of 45°C to 50°C.
- Equipped with a low-noise, high-efficiency, class F insulated IE2/IE3 induction Motors.
- No - oil operation, No vibration.
- 100% Oil Free and Dry quality Air, safe for critical applications.
- Established characteristics are based on actual tests instead of calculations, hence more accurate. This can help you determine the performance of your system/application in advance.
- Zero maintenance cost: Our blowers do not use gearboxes and oil lubricants used by conventional blowers, minimizing maintenance requirements, lowering user maintenance costs and improving overall system stability. In addition, by adopting air-cooled cooling in the entire model, there is no need for a cooling water circulation system and associated maintenance cost.
- Direct Driven Blowers, eliminating gears or transmission boxes, hence maximize energy efficiency.
- Everest Turbo Centrifugal Blowers are suitable for vertical and horizontal operation.
- Can be customized for High Temperature Operation (Up to 200°C), Variable Inlet & Outlet Sizes, & Special Voltage Operation.
- Full ATEX range.





**CENTRIFUGAL BLOWERS**

PRINTING  
 FAST DRYING  
 GRANULAR IMPURITIES  
 UV PRINTING & DRYING  
 FILM BLOWING MACHINE  
 BAG FILLING MACHINE  
 ULTRASONIC CLEANING  
 PRINTING MACHINE  
 MECHANICAL COOLING  
 CONVEYING POWDER  
 SMALL GAS COMBUSTION ENGINE  
 HEAT & COLD DRYING  
 ELECTROPLATING  
 HOT BLAST AIR  
 FILM BLOWING MACHINE  
 AIR DRYING SYSTEMS  
 AIR SUPPLY FOR FOOD MACHINERY  
 VACUUM SUCTION EQUIPMENT  
 POWDER GRANULE TRANSPORT  
 PLASTIC RAW MATERIAL DRYING  
 NATURAL GAS COMBUSTION ENGINE  
 HOT & COLD GAS PUMPING  
 COMBUSTION INCUBATOR  
 BROILER  
 PRINTING  
 PAPER PACKAGING MACHINERY  
 GENERAL AIR SUPPLY  
 FAST DRYING  
 DRAINAGE  
 RAPID COOLING  
 CREMATION MACHINE



**APPLICATIONS:** BLOWING OFF, SUCTION, HEATING, AERATION & VENTILATION, CONVEYING, COOLING, DRYING, INCINERATORS, GENERATE NEGATIVE PRESSURE

**INDUSTRIES WE SERVE:**

- PLASTICS INDUSTRY
- WATER TECHNOLOGY
- FILLING & PACKAGING TECHNOLOGY
- AUTOMOTIVE INDUSTRY
- PRINTING INDUSTRY
- FILTER TECHNOLOGY
- FOODSTUFF / LUXURY FOOD TECHNOLOGY
- CLEANING & SURFACE TECHNOLOGY
- RAIL TECHNOLOGY
- DRYING TECHNOLOGY
- ENVIRONMENTAL TECHNOLOGY
- PHARMACEUTICAL INDUSTRY
- AND MANY MORE.....

Blower Type	CX	TB	HTB	MS	FMS	PF
Volume Flow Rate (m <sup>3</sup> /min) (50 Hz)	4.5 - 46	18 - 90	6 - 13	8 - 39	8 - 39	5 - 63
Volume Flow Rate (m <sup>3</sup> /min) (60 Hz)	5.3 - 53	22 - 100	7 - 15	10 - 47	10 - 47	6 - 71
Pressure (kPa)	1.1 - 4.4	2.1 - 7	2.6 - 26	0.8 - 1.7	0.8 - 1.7	0.7 - 3.8
Vacuum (kPa)	0.7 - 3.2	1.3 - 5	2.1 - 18	0.5 - 1.1	0.5 - 1.1	0.5 - 2.6
Impeller Type	Semi-Open Impeller	Double Plate & Clip Impeller	Double Plate & Clip Impeller	Multi Vane Impeller	Multi Vane Impeller	Straight Blade Impeller





**HIGH SPEED CENTRIFUGAL BLOWERS AND AIR KNIFE SYSTEMS**

COANDA AIR KNIFE  
TERTILE FIBRING AND BLOW OFF  
COMBINE FINISHING & BLOW OFF  
DUST DRYING  
PHARMACEUTICAL  
AUTO PARTS CLEANING  
LCD DISPLAY DESICCATION  
INDUSTRIAL PRODUCT DRYING  
ALUMINUM ALLOY AIR KNIFE  
WIRE & CABLE DRYING AND BLOW OFF  
CAN PRODUCTION LINE DRYING  
DRYING WINE BOTTLE BEFORE LABELING  
ELECTROPLATING SURFACE TREATMENT  
BOTTLE PRODUCTION LINE DRYING  
INDUSTRIAL PRODUCTS CLEANING DRYING PCB CIRCUIT BOARD  
STAINLESS STEEL HIGH SPEED NOZZLE  
PACKAGING PROCESS DRYING  
DIE CASTING PARTS  
WIRE & CABLE DRYING AND BLOW OFF  
COMPRESSED AIR  
AIR KNIFE



**EVEREST TURBO, a division of EVEREST BLOWERS Pvt. Ltd. proudly presents  
EVEREST HIGH SPEED CENTRIFUGAL BLOWER Technology:**

Everest High-Speed Centrifugal Blowers & Air Knife Systems are the most professional Air Knife Drying systems designed to meet specific application needs while maximizing energy efficiency and lowering operating costs. The technology is derived from the world's advanced design concepts and decades of experience in blower industry.

**Phoenix** (Belt Driven) & **Challenger** (Direct Drive) Series are available with higher efficiencies, lower energy consumption, longer service life, wider applicability and unparalleled control systems. A wide range of air knives including Stainless steel air knives, Aluminium alloy air knives, Coanda effect air knives, Stainless-steel high-speed nozzles, Spider air knives, Super air knives & Air wipes are also available for various drying & blow off applications.

When coupled with a professionally designed air delivery device, centrifugal air blowers provide superior blow off, drying or air rinsing, to improve product quality, while reducing energy usage by 50-80%. Because of these energy savings, the return on investment (ROI) for an Everest High Speed Centrifugal Blower is often about one year.





**HIGH SPEED CENTRIFUGAL BLOWERS AND AIR KNIFE SYSTEMS**

TERTILE FIBRING AND BLOW OFF  
 CONTAINER FINISHING & BLOW OFF  
 CONDAN AIR KNIFE  
 DUST DRYING PHARMACEUTICAL  
 AUTO PARTS CLEANING  
 LCD DISPLAY DESICCATION  
 INDUSTRIAL PRODUCT DRYING  
 ALUMINUM ALLOY AIR KNIFE  
 WIRE & CABLE DRYING AND BLOW OFF  
 CAN PRODUCTION LINE DRYING  
 ELECTROPLATING SURFACE TREATMENT  
 BOTTLE PRODUCTION LINE DRYING  
 INDUSTRIAL PRODUCTS CLEANING DRYING PCB CIRCUIT BOARD  
 STAINLESS STEEL HIGH SPEED NOZZLE  
 PACKAGING PROCESS DRYING  
 DIE CASTING PARTS  
 SPIDER ARM  
 AIR KNIFE  
 DRYING WINE BOTTLE BEFORE LABELING  
 WIRE & CABLE DRYING AND BLOW OFF  
 CAN PRODUCTION LINE DRYING  
 ELECTROPLATING SURFACE TREATMENT  
 BOTTLE PRODUCTION LINE DRYING  
 INDUSTRIAL PRODUCTS CLEANING DRYING PCB CIRCUIT BOARD  
 STAINLESS STEEL HIGH SPEED NOZZLE  
 PACKAGING PROCESS DRYING  
 DIE CASTING PARTS  
 WIRE & CABLE DRYING AND BLOW OFF  
 COMPRESSED AIR  
 AIR KNIFE



**The Salient Features of Everest Phoenix (Belt Driven) Series High Speed Centrifugal Blowers are:**

- Oil Free Operation provides dry, clean, oil-free air.
- Unlike compressed air systems, this is safe to cost effective, runs at low pressure, and allows for increased production speeds or levels.
- Excellent driving structure: Impellers can reach speed of 13000 - 28400 RPM.
- Anti-Corrosion Teflon Coating: Blower can work in acidic and corrosive atmosphere.
- Fitted with ceramic hybrid bearings, flexible air outlet, easy to remove steel bearing housing assembly, and zinc plated steel motor pulley.
- Lower energy consumption: Driven by IE2/IE3 motor, can improve power consumption by up to 50% compared with Side Channel Blower.
- Genuine SKF & NSK bearings applied to achieve higher speed and greater reliability.
- Special fluid design, energy efficiency ratio can reach more than 70% (2 times higher than that of other high-pressure blowers).
- Large airflow and excellent power-saving ability (improve 2-3 times production efficiency and save more than 60% power).

**The Salient Features of Everest Challenger (Direct Driven) Series High Speed Centrifugal Blowers, in addition to most of the features of Phoenix Belt Driven Blowers are:**

- **Higher Efficiency (Up to 85%)** - Under the same energy consumption & pressure the air flow of the Challenger Series Bower is 30% more than other high-speed centrifugal blowers.
- **Lower Energy Consumption** - The Challenger-85 7.5 kW can replace the Phoenix-100 11 kW. That means you can save more than 25000 kW per year.
- **Longer Service Life** - Challenger Series Blowers are directly driven, hence no belts, tensioners, etc are required. This results in greater stability with longer service life.
- **Wider Applicability** - The size & weight are only half of the belt driven high speed centrifugal blower, resulting in smaller footprint, more convenient to install & transport. Available with IE3/IE4 Brushless Magnetic High Efficiency Motor with bearing working temperatures up to 200°C.





**HIGH SPEED CENTRIFUGAL BLOWERS AND AIR KNIFE SYSTEMS**

COMMON AIR KNIFE & BLOW OFF SYSTEMS  
TEXTILE FINISHING AND BLOW OFF  
COMBUSTION ENGINEERING & BLOW OFF  
DUST DRYING  
PHARMACEUTICAL  
AUTO PARTS CLEANING  
LCD DISPLAY DESICCATION  
INDUSTRIAL PRODUCT DRYING  
ALUMINUM ALLOY AIR KNIFE  
WIRE & CABLE DRYING AND BLOW OFF  
CAN PRODUCTION LINE DRYING  
DRYING WINE BOTTLE BEFORE LABELING  
ELECTROPLATING SURFACE TREATMENT  
BOTTLE PRODUCTION LINE DRYING  
INDUSTRIAL PRODUCTS CLEANING DRYING PCB CIRCUIT BOARD  
STAINLESS STEEL  
HIGH SPEED NOZZLE  
PACKAGING PROTECTIVE DRYING  
DIE CASTING PARTS  
WIRE & CABLE DRYING AND BLOW OFF  
COMPRESSED AIR  
AIR KNIFE  
SPIDER ARM  
AIR KNIFE  
INDUSTRIAL PRODUCT DRYING



EVEREST TURBO offers **Design and Application Engineering Solutions** for **Components/Product Drying** needs which are Critical to Productivity and Quality. EVEREST TURBO Offers Package Solutions comprising of the High-Speed Centrifugal Blower along with Drying Systems. Air Knife Drying Systems are specially designed for a complete air drying & blow off air system. It can be used for drying and blow off for a wide variety of bottles, cans, and jars, auto components and so on.

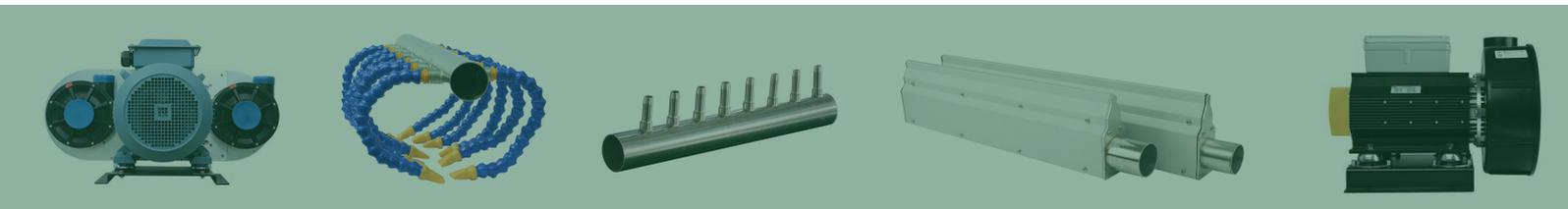
EVEREST TURBO Air Knife Drying Systems are composed of many different components. It must be paired with EVEREST TURBO High-Speed Centrifugal Blowers & Air Knives in order to deliver the necessary air velocity to meet our customer's needs. **Save up to 60% of total energy consumption**, when compared to compressed air systems.

**APPLICATIONS:**

Everest High Speed Centrifugal Blowers and Air Knife Systems are widely used for Automobile spare parts drying, Plastic parts drying, Lithium battery drying, Painting and drying, Food package drying, Electroplating surface treatment, Drying beverage bottle before labelling, Wire & cable drying and blow off and many other drying & blow off applications

**INDUSTRIES WE SERVE:**

- AUTOMOBILE & ALLIED ANCILLARY PLANTS
  - FOOD & BEVERAGE PLANTS
  - BOTTLING PLANTS
  - PHARMACEUTICAL INDUSTRY
  - ELECTRONIC INDUSTRY
- AND MANY MORE, WHEREVER PRECISION DRYING SOLUTIONS ARE CRITICAL TO QUALITY.







**The Salient Features of EVEREST NAMWON TURBOONE TURBO Blowers are:**

• **Core Technology 1: Air Foil Bearing**

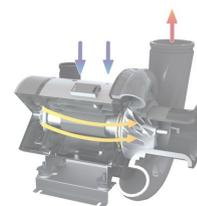
Non-contact bearing supporting the load of the rotating body by using the force which is compressed by the wedge effect around the shaft rotating at high speed. Requires no lubricant, 20 years maintenance free life, simple system components & power loss under 0.5% with high speed motor.

• **Core Technology 2: Impeller & PMS Motor**

Manufactured with state-of-the-art aerodynamic style technology ensuring high efficiency with the most sophisticated design & precise processing. High durability due to use of high strength heat treated Aluminium AL7075. High Efficiency, High Speed Permanent Magnet Motors are optimized for high speed rotation, minimizing current loss and delivering maximum efficiency of 98%.

• **Core Technology 3: VFD & PLC**

VFD (Inverter) which enables to start the motor with minimal starting current, thereby reducing electricity & cable investment. Low noise, high performance soft start, digital control, over 96% efficiency, high stability, high reliability and good response to sudden load changes. PLC (Programmable Logical Controllers) of internationally renowned brands, and their automation solutions meet global quality standards, providing users with solutions from control to final connection to load.



**The Advantages of EVEREST NAMWON TURBOONE TURBO Blowers are:**

- Complete One-Stop System that does not allow for a single error.
- Highly Efficient & Energy Saving: Air Bearing Turbo Blowers maximize energy efficiency by using air foil bearings, direct connection technology, high efficiency impellers, and permanent magnet motors.
- Low Noise: Due to combination of Turbo Technology and Air Foil Bearing Technology, the noise is low in the entire area of the blower operation, so no additional sound proofing is required.
- No-Oil Operation, No Vibration: By adopting air foil bearing, Everest Namwon Turboone Turbo Blower achieves ISO 8573-1 Class 0 air quality & no vibration operation.
- Low Maintenance Cost: Our blowers do not use gear boxes and oil lubricants used by conventional blowers, minimizing maintenance requirements, lowering user maintenance costs and improving overall system stability. In addition, by adopting air-cooled cooling in the entire model, there is no need for cooling water circulation and its maintenance cost required for water cooling.
- Compact Structure: The structure is simple, compact, lightweight, and easy to move & install.
- Convenient Operation & Control: All information related to the operation of the blower, such as flow rate, pressure, temperature and operating speed can be monitored and controlled by a central control system.
- HMI (Human-Machine Interface): The touch-based HMI (Touch Panel) is easy to operate and provides all information about the operation of the device and supports multiple languages.

