

*Leaders In Pressure & Vacuum Technology*



EVEREST BLOWERS

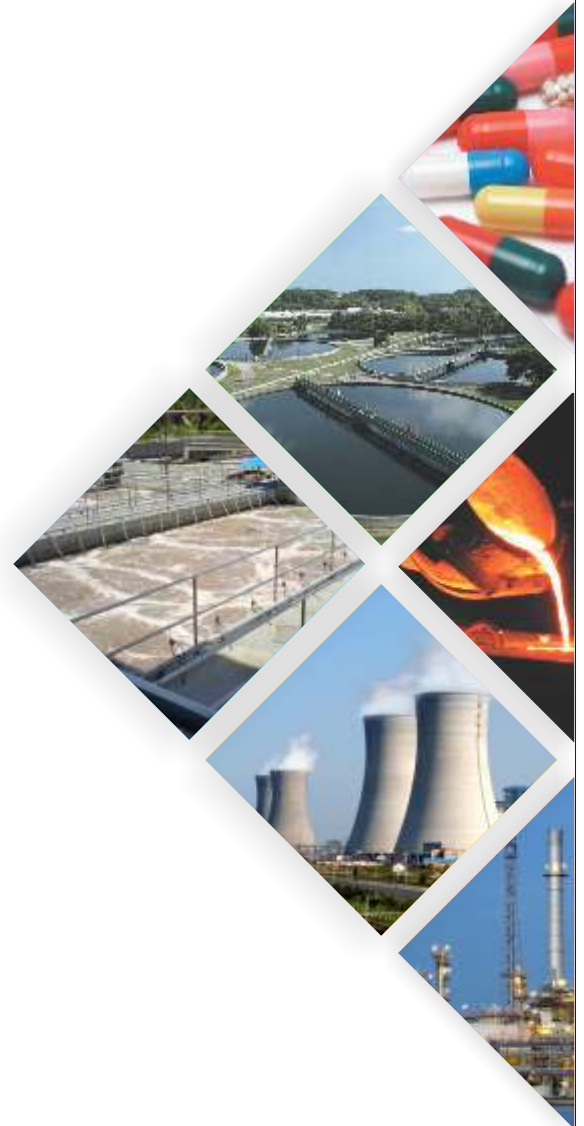
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C O R P O R A T E

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PRODUCTS CATALOGUE

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[www.everestblowers.com](http://www.everestblowers.com)

## PRESSURE DIVISION PRODUCTS



### TWIN LOBE ROTARY AIR BLOWERS

Robust, tried & tested Positive Displacement Blowers for various Industrial Applications.

- Powerful, reliable & maintenance free
- 100% Oil Free Air Delivery
- Over 1,00,000 successful installations
- Available as bare blower units or complete package
- Air Cooled & Water Cooled configurations available

20 m<sup>3</sup>/hr to 20,000 m<sup>3</sup>/hr in single stage  
Up to 2bar(A)



### TRI-LOBE ROTARY AIR BLOWERS

Everest Tri-Lobe blowers are the latest design blowers with high capacities, reduced noise levels & reduced vibrations.

- Oil free air with contact less sealing, maintenance free
- High Efficiency
- Different configurations available for special applications
- 1,000's of units installed globally
- Air Cooled & Water Cooled configurations available

16 m<sup>3</sup>/hr to 20,000 m<sup>3</sup>/hr in single stage  
Up to 2bar(A)



### GAS BLOWERS ~ BIOGAS BLOWERS

Everest Gas Blowers include special features usually found only on premium grade blowers. These blowers are renowned for their quality, dependability & outstanding performance.

- 100% Leak tight construction
- 100% Oil Free Air Delivery with positive sealing arrangement
- Ideal for gases like Co<sub>2</sub>, Biogas, He, Nitrogen, Flue Gas, Air + Hydro carbon mixtures and many more
- Powerful, maintenance free and robust design
- Air Cooled & Water Cooled configurations available

50 m<sup>3</sup>/hr to 10,000 m<sup>3</sup>/hr in single stage  
Up to 2bar(A)



# PRESSURE DIVISION PRODUCTS



## VACUUM DUTY BLOWERS

- Suitable for vacuum upto 0.5 bar (A) (Single Stage)
- 100% Oil Free
- Powerful, maintenance free & robust design
- 1,000's of units running successfully
- Multistage configurations available for vacuum levels below 100 mbar

16 m<sup>3</sup>/hr to 20,000 m<sup>3</sup>/hr  
Up to 0.5 bar(A) (Single Stage)



## ACOUSTIC HOODS

Everest Sound reduction enclosures have been designed for effective noise reduction of blowers placed inside. Everest's economical design provides noise reduction of 12-25 dB(A) bringing down the total noise emitted to safe acceptable limits.



- Noise Control: Noise level reduction to the tune of 25-30% is achieved
- Mobility: The enclosures can be easily shifted or transported
- Ease of Maintenance: Adequate space is available inside the canopy for easy maintenance
- Elimination of Civil Work: Enclosures are suitable for open installation and hence require no separate building or shed

## SPARES & ACCESSORIES

Retain your advantage with factory genuine replacement parts & accessories. All parts meet original manufacturing specifications and tolerances for guaranteed fit and function. Pre-Packaged overall kits with detailed service manuals are available on request.

- Readily available
- Fast delivery
- Guaranteed fit and function
- Service kits for routine product maintenance



# VACUUM DIVISION PRODUCTS



## MECHANICAL VACUUM BOOSTERS

Everest configuration of lip seal & seal less design Mechanical Vacuum Boosters are the ideal vacuum pumps for use in vacuum systems as combination with any backing pump.

- High suction capability
- Extremely reliable, less wear & tear due to optimum rpm operations
- Robust design, suitable for harsh environments
- Over 15,000 successful installations
- Maintenance Free, 100% Oil Free

250 m<sup>3</sup>/hr - 18,000 m<sup>3</sup>/hr (single stage)

Models with high cut-in pressure ( $1.3 \times 10^{-3}$  mbar) also available.



## OIL SYST VACUUM PUMPS

A new milestone product by Everest, our oil syst single stage variported design liquid ring vacuum pumps have introduced new levels of performance & reliability concepts.



- Outcome of Everest experience & end customer suggestions
- Available in double stage configurations with oil as service liquid
- Impellers and internals in SS for longer durability
- Modifications in internal designs as compared to traditional liquid ring pumps, resulting in longer life of bearings & mechanical seals
- Supplied with standard feature of closed loop recirculation system comprising of air - liquid separator, heat exchanger, centrifugal pump for recirculation, along with valves & gauges

175 - 600 m<sup>3</sup>/hr

≤ 8 mbar

## HIGH END DRY SCREW VACUUM PUMPS

Marketed under collaboration between Everest Group & LOT Vacuum. High End Dry Screw Vacuum Pumps for semi-conductor & solar industries.

- Models offered are Dura Dry (DD LD, HD, GD) & GHD (Industrial Series)
- Best suited for applications like flat panel display, OLED/LED, Solar PV, CVD & PVD





# VACUUM DIVISION PRODUCTS



## DRY SCREW VACUUM PUMPS

Everest standard and anti - corrosive Dry Screw type Vacuum Pumps are the most ideal pumps for many applications in process industries.

- 100% Oil & Water Free
- Sealing arrangement: Mechanical Seals (SS & Hast Alloy)
- Various coating options available for specific processes
- Available in configuration of Top Suction & Bottom Discharge
- Hybrid variable pitch configuration with reduced power consumption



120 m<sup>3</sup>/hr - 2,700 m<sup>3</sup>/hr  
7.5 x 10<sup>-2</sup> mbar

## ROTARY VANE VACUUM PUMPS

Robust, tried & tested EMVO Series Vacuum Pumps - oil circulated rotary vane pumps. Widely used for various clean applications.



- Powerful, reliable, service friendly
- Special versions available for high water vapour tolerance
- Varied pumping capacities & ultimate vacuum
- Direct coupled motor and integral oil mist eliminator
- All models include gas ballast

20 m<sup>3</sup>/hr - 630 m<sup>3</sup>/hr  
0.5 mbar

## WATER RING VACUUM PUMPS

Everest Water ring vacuum pumps operate according to tried & tested principle of a liquid ring formation & are widely used in all sectors of the industry.

- Robust, tried & tested, application oriented
- Compact construction
- Single stage & double stage variants available
- Can go upto high vacuum levels of 13.5 mbar, however low pressure performance is limited by vapour pressure of sealing liquid like water / ethylene glycol / process liquids etc.

75-500 m<sup>3</sup>/hr  
33 mbar





## SUPERVAC SERIES VACUUM PUMPING SYSTEMS

Booster/Dry Screw Pump Vacuum Pumping Systems. These systems combine high pumping speed with deep vacuum levels and operate free of oil, water or other sealing liquids.

- Available in 2-Stage & 3-Stage configurations
- Flexible options for customization
  - (a) Inlet filters (for Drying / Powder applications)
  - (b) Automatic solvent flushing
  - (c) Automatic Nitrogen purging & Nitrogen flushing
  - (d) Post condensers with receivers
  - (e) Automation & instrumentations
  - (f) Electric control panels with variable frequency drives
  - (g) Standard & flame proof type, varying electrical motors
  - (h) Skid mounted system with interconnecting piping & valves
- 100's of successful installations in various chemical & pharmaceutical industries
- Everest being the only indigenous manufacturer can provide shortest lead time, most competitive pricing & efficient after sales service



600 - 10,000 m<sup>3</sup>/hr  
10<sup>-3</sup>mbar

## WATER RING PUMP & BOOSTER VACUUM PUMPING SYSTEMS

Booster/Water Ring Pump Vacuum Pumping Systems - Ideal for pumping wet gas mixtures at low pressure. Sealing liquid used being water gives this system good flexibility for use in various applications.

- Extremely sturdy systems - No maintenance
- 100's of successful installations in food & pharmaceutical industries
- Available in 2 stage & 3 stage configurations
- Widely used in various essential oil, cardanol distillations & CNSL applications
- Flexible options for customization
  - (a) Inlet filters (for Drying / Powder applications)
  - (b) Post condensers with receivers
  - (c) Automation & instrumentations
  - (d) Electric control panels with variable frequency drives
  - (g) Standard & flame proof type, varying electrical motors
  - (h) Skid mounted system with interconnecting piping & valves
- Everest being the only indigenous manufacturer can provide shortest lead time, most competitive pricing & efficient after sales service



400 - 10,000 m<sup>3</sup>/hr  
1 mbar



## OIL SYST VACUUM PUMP & BOOSTER VACUUM PUMPING SYSTEMS

Booster/Oil Syst Pump Vacuum Pumping Systems. These are ideal for pumping hydrocarbons/oil vapours at low pressures/high vacuum levels for continuous and long term operations.

- Extremely robust
- Suitable for harsh applications involving carbon carryovers
- Capable of maintaining high displacements as well as high vacuum levels under continuous operations
- Available in 2,3 & 4 stage configurations
- 100's of systems installed in both batch & continuous processes (Direct Heating / Wiped Film Evaporators)
- Owing to this high displacement & high vacuum, considerable improvement observed in end product (Colour, Smell, Viscosity, Output etc)
- Rated as the "World's Best" vacuum systems for waste oil re-refining processes



3000 - 20,000 m<sup>3</sup>/hr  
≤ 0.1 mbar

## RECIPROCATING PISTON PUMP & BOOSTER VACUUM PUMPING SYSTEMS

Booster/Reciprocating Piston Pump Vacuum Pumping Systems. Everest offers Piston Pump -Booster combination systems with high pumping volumes at low operating pressures. This is typically done when a high capacity dry rotary lobe vacuum booster is matched to a smaller reciprocating piston vacuum pump for continuous operation.

- Extremely sturdy systems - No maintenance
- 100's of successful installations in various industries like waste oil re-refining, glycerine distillation, biodiesel distillation, chemical industrial processes etc
- Flexible options for customization
  - (a) Inlet filters (for Drying / Powder applications)
  - (b) Post condensers with receivers
  - (c) Automation & instrumentations
  - (d) Electric control panels with variable frequency drives
  - (e) Standard & flame proof type, varying electrical motors
  - (f) Skid mounted system with interconnecting piping & valves
- Everest being the only indigenous manufacturer can provide shortest lead time, most competitive pricing & efficient after sales service
- Dry reciprocating Piston Pumps offer individual vacuum ranging between 10-25 mbar in single & double stage configuration
- Dry reciprocating piston pumps are 100% free of oil, water & steam
- Our application engineering team can help you make the best selection



1,000 - 18,000 m<sup>3</sup>/hr  
≤ 0.5 mbar (in 3 stage configuration)





## MECHANICAL VAPOUR RECOMPRESSORS

Everest Mechanical Vapor Recompessors are the latest and first of its kind “Recompression Blowers” in India. These specially designed blowers are meant to handle “Steam Vapors” across itself, which can further be reused to recover the latent heat of vaporization, in-turn providing heavy savings in energy.

Being Positive Displacement type of compressors, the differential temperature and pressure that can be achieved across Everest MVR’s is high, resulting in improved process results.

Due to the increasing cost of steam (Boilers) and allied problems related to the same, there has been a growing demand of Mechanical Vapor Recompessors. These act as a very energy efficient and pollution free alternatives. MVR’s can typically even be termed as “**Energy Recovery Equipments**”

- Robust & rugged design, proven technology, efficient performance
- Successfully installed and running for over a decade
- Specially designed for high temperature operation (up to 180 °C)
- Everest MVR’s have high grade material Gears, Special Bearings & Special Sealing arrangements
- Can withstand high differential pressures, resulting in effective heat transfer
- Safety provisions incorporated
- Low on maintenance
- Wide applications: ZLD units, all process industries, distillation processes etc

Available for flow rates 200 kg/hr up to 6,000 kg/hr of water vapour.

$\Delta P$ : 100 mbar – 1 Bar(G)

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ENGINEERING

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EVALUATION

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DESIGNING

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MANUFACTURING

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TESTING

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EXECUTION

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POST SALES AND SERVICE





# INDUSTRIES SERVED



## ROOTS BLOWERS

- Water Treatment Plants
- Effluent Treatment Plants
- Sewage Treatment Plants
- Cement Plants
- Aquaculture
- Chemical Plants
- Electroplating Plants



- Paper Plants
- Yarn Drying
- Polyester Chip Conveying & Drying
- Bag Filters
- Regeneration of Dryers & Molecular Sieves
- Pneumatic Conveying
- Vacuum Pressure Swing Adsorption (VPSA)
- Flue Gas Desulphurization (FGD)



## VACUUM PUMPS & SYSTEMS

- Agrochemicals
- Aromatics & Essential Oils
- Biodiesel
- Bulb & Tube Light Manufacturing
- Chemical & Pharmaceutical Processes
- Edible Oil
- Food Processing



- Lube Oil Re-Refining
- Menthol Crystal
- Metallizing
- Vapour Recovery
- Steel Degassing
- Low Temp. Thermal Desalination
- Super Sucker for Desilting of Sewer Manholes
- Turnkey Plants



## EVEREST SERVICE: We want you to focus on your processes and leave all your maintenance & service issues on us.

Everest is proud to announce the opening of new Everest Support Centers in all metropolitan cities in India with an idea to provide local service / repairs to minimize risk & downtime and maximize uptime. You get Everest guaranteed local repair support with best in class quality that improves your productivity.



### EVEREST ADVANTAGE

Retain your advantage with factory genuine replacement parts & accessories. All parts meet original manufacturing specifications and tolerances for guaranteed fit and function. Pre-packaged overall kits with detailed service manuals are available on request.



- Factory trained personnel
- Everest certified tools
- Everest certified processes

### CUSTOMER SUPPORT

T: +91 11 45457740 | E: [customercare@everestblowers.com](mailto:customercare@everestblowers.com)

## MANUFACTURING FACILITIES: State-of-the-art, World Class.



### PRESSURE DIVISION

(Plot No. 83, Sector 16, HSIIDC, Industrial Area, Bahadurgarh - 124507, Haryana, India)



### VACUUM DIVISION

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*For Energy Efficient Pumps & Research & Development*



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Group Companies

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