

EVEREST TRANSMISSION

Blowers & Vacuum Boosters

Delhi-based ISO 9001:2000 certified Everest Transmission manufactures & exports Blowers & Vacuum Boosters. The wide product range includes air cooled blowers, water cooled blowers, gas blowers, mechanical Vacuum boosters, dry vane pumps, acoustic hoods & allied accessories.

Everest was established in 1980, with the manufacturing of Twin Lobe Rotary Air Blowers. Over the years, the company expanded its technology base, bringing a wide range of products. With one state-of-the-art manufacturing facility in New Delhi and another two modern manufacturing facilities in Bahadurgarh, Haryana the company is ISO9001:2000 certified which attests its quality. Facilities include in-house design, production, manufacturing, quality control, inspection and after sales service.

Sales are through a network of direct sales representatives, distributors and agents. Everest has a complete marketing infrastructure all over India.

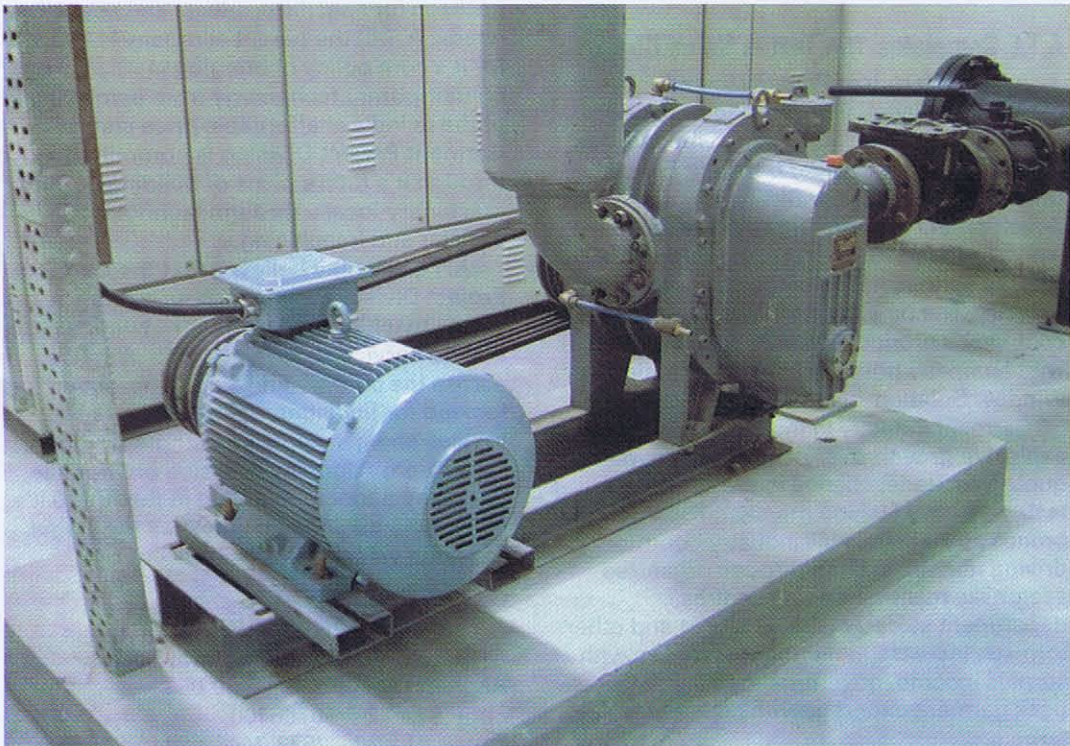
Company's sales people have years of application experience and are totally capable of helping you determine your best hardware solutions, if questions exist. "We provide in-depth technical support both before and after

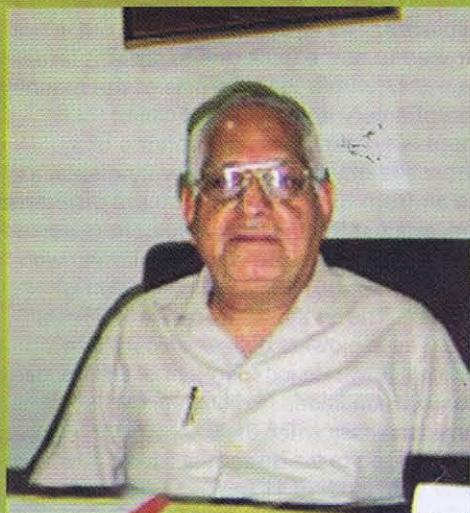
the sale. This support is critical because our products are designed with the flexibility and dependability to provide years of service in cutting edge and demanding applications, says Amit Kapur, Director (Marketing).

A focus on innovative design and high quality machined parts has earned Everest a reputation for excellent workmanship amongst its users. For nearly two decades Everest has offered its customers quality, cost-effective machines necessary to meet the changing technology. Our commitment to total quality in both our products and services is the foundation upon which our future business is based.

Broad Product Line Serves Wide Variety of Applications

Performance of the OEM's design ultimately depends on the quality and dependability of its components. That's why





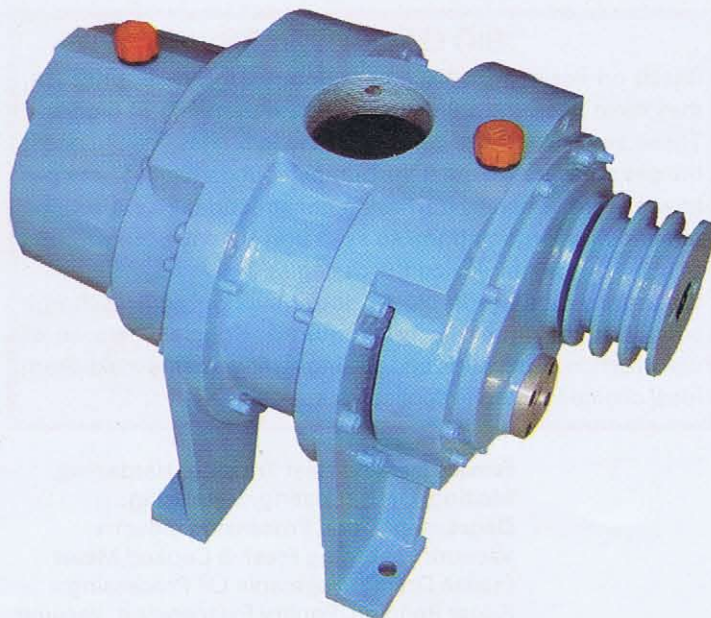
YASH PAL KAPUR, DIRECTOR



RAJESH MALHOTRA, TECHNICAL DIRECTOR



AMIT KAPUR, DIRECTOR



OEM's, we understand the critical requirements that each OEM application has in terms of power, space, noise, air flow, vibration, cost and more. With our standard models of Air Compressors and Vacuum Pumps, we're able, through our unique design and engineering expertise, to develop a completely new model, or modify an existing design. The result is a custom air compressor or vacuum pump that meets the exact requirements of OEM application at the lowest possible cost.

Our Commitment To Quality – ISO 9001:2000:

The hallmark of company's commitment to quality is the International Standards Organisation (ISO) registration. This ensures that the OEM customers receive products of highest quality.

Global Presence

The hallmark of our commitment to Quality is approval of our quality by leading International & National consultants such as Bechtel, Dailem, Mitsubishi, NTPC, BHEL, Tata Projects, BSES... to name a few, who regularly buy Everest Blowers for their various National & International projects. Regular direct & indirect exports are made to countries like U.S.A., Iraq, Maldives, Sri Lanka, Vietnam, Nepal, Bhutan & Bangladesh.

Industries Served

For Mechanical Vacuum Boosters Industrial Processing: Filling Automotive Fluid Systems, Impregnating Windings, Drying Textiles, Sterilizers Evacuating Refrigeration Systems, Holding & Chucking, Central Systems for Electronic Assembly, Light Bulbs Manufacture, TV Tubes Manufacture.
Chemical & Pharmaceutical: Degassers, Vacuum Distillation, vaporators, Crystallizers, Vacuum Filters, Vacuum Dryers. Vacuum

so many manufacturers of Water Treatment Plants, Effluent Treatment Plants, Cement Plants, Aquaculture Farms, Chemical Plants, Paper Plants, Vacuum Plants and Systems, and Pneumatic Conveying Systems have entrusted their reputation to Everest.

Broad product line of Air Blowers, Water Cooled Blowers, Gas Blowers, Expo Series Air Blowers, Aqua Series Air Blowers, Dry Vane Pumps, Vacuum Booster Pumps, Acoustic Hoods and Enclosures consists of standard and custom models that fall into major product group.

Engineering Expertise

As a company structured to serve the

BIO GAS BLOWERS

Based on Positive Displacement Rotary Air Blower principle, they have been specially developed for pumping of Biogas. These gas blowers are generally used in Biogas lines to boost the gas pressures to meet the burner input demand. These gas blowers are generally vertical in construction, that is suction top and discharge bottom, so as to prevent any accumulation of corrosive matter inside the casing. Since they operate in closed loop, suction and discharge silencers are generally not required. Special material of construction, lubrication and sealing arrangements make them ideal choice for Biogas applications.

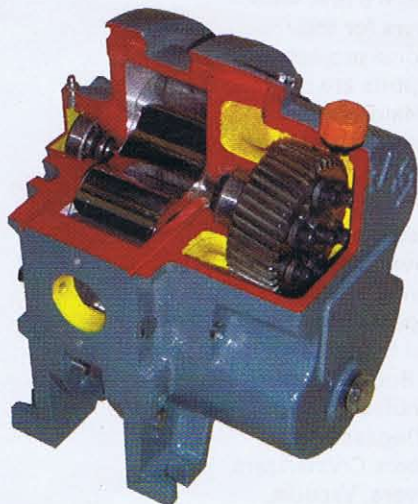
Furnace Industry: Heat Treating, Hardening, Melting, OpticaCoating, Metallizing, Degreasers. **Food Processing Industry:** Vacuum Packaging Fresh & Cooked Meats, Freeze Drying, Vegetable Oil Processing, Sugar Refining, Poultry Evisceration, Vacuum Cooling. **Semiconductor Industry:** Crystal Growing, PCVD Ion, Implantation, Sputtering, Plasma Deposition. **Electrical Industry:** Transformer Drying & Service, Transformer Oil Purifiers, Vapor Phase Drying.

For Air & Gas Blowers : Milling & Baking : Blending & Conveying Resin & Plastic : Processing & Conveying Power Generation : Fly Ash Conveying & Aeration Chemical : Vacuum Processing & Conveying Wastewater : Aeration & Backwashing Pulp & Paper : Chip Conveying, & Process Vacuum Cement & Lime : Fluidization & Conveying Oil & Gas : Gas Collection & Sparging Soil Remediation : Vacuum Extraction & Sparging Dry Bulk Handling : Trailer Unloading & Extraction Glass : Burner Air & Mould Cooling Vacuum Loader : For emptying Septic Tanks Aquaculture : Aeration for fish farm Electroplating : Aeration of plating tanks

Working Principle

Basic Twin Lobe Rotary Air Blower:
Everest Twin Lobe Rotary Air Blowers belong to the category of Positive Displacement Blowers. They consist of a pair of lobes, rotating inside a properly shaped casing, closed at ends by side plates. The drive lobe is connected to the driven lobe, through a pair of gears & they always rotate in opposite directions.

As the rotors rotate, air is drawn into inlet side of the cylinder casing & forced out from the outlet side against the system pressure. With



each revolution, four such volumes are displaced. The air which is forced out is not allowed to come back due to small internal clearance within the internals of the machine except a very small amount called 'SLIP'. There is no change in the volume of air within the machine but it merely displaces the air from the suction end to the discharge end, against the discharge system resistance.

Since the lobes run within the casing with finite clearances, no internal lubrication is required. The air thus delivered is 100% Oil Free. These blowers deliver, practically, a constant flow rate independent of the discharge pressure conditions. To illustrate further, let us consider a case when the discharge of a blower is connected to the bottom of a tank, having water to a depth of 'H' mm.

The air discharged out of the blower accumulates in the discharge line until sufficient pressure is built (slightly over 'H' mm of WG), when it starts to escape out. The system resistance or the static load on the blower is thus 'H' mm of WG. The power consumed by the blower depends upon the flow rate and the total pressure head on the blower.

A blower is capable of resisting high pressures but the mechanical limitations arising due to increased power intake, temperature rises and increase in 'SLIP' restricts the working pressure head to about 7000 mm WG for Air Cooled Blowers and 10,000 mm WG for Water Cooled Blowers in single stage operation. The blowers are generally selected for the maximum system pressure which they may encounter during operation & the prime mover is selected accordingly. When in operation, the blower offers a considerable power saving since the power consumed by it depends upon the actual working pressure under which it operates and not the rated pressure. Consider a case when Everest Twin Lobe Rotary Air blower is selected for an application requiring a capacity of 'Q' m³/hr at 'H' mm of WG at which the power is specified as 'P' KW. Under the rated condition it would consume 'P' KW, but if the system back pressure falls from the rated/design value, the blower automatically starts working under lesser head & power requirement falls accordingly. These salient features make Rotary Air Blowers a versatile machine. They are ideal for applications requiring Constant Flow Rate at Varying Discharge Pressures.

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