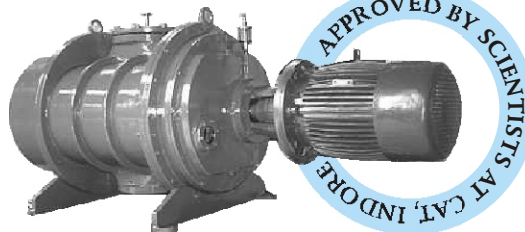




VACUUM BOOSTERS

EVEREST

The First Successful Indian Booster-100's of Installations



EVEREST Mechanical Booster Pumps, import substitutes, are used in growing number of applications where fast pump down times are required, and environmental or energy usage concerns, rule out any alternative pump selection.

EVEREST Booster Pumps enhance the performance, ultimate vacuum and pumping speed of oil-sealed/water-ring/dry vacuum type of mechanical pumps, which are widely used in the industry.

Our technology is so flexible, we can custom manufacture "Special Vacuum Boosters" by alloying and cross linking diverse designs to suit individual requirements and import substitutes.

OUTSTANDING ADVANTAGES

- ⊙ High vacuum of the order of 0.001 Torr or better.
- ⊙ High pumping speeds at low pressures, speed is boosted by 3 to 10 times or more.
- ⊙ Relatively low power consumption for such performance boosting.
- ⊙ Considerable reduction in pump down time of vacuum machines.
- ⊙ Prevents oil back streaming from Rotary pumps.
- ⊙ Dry Pumping suitable for Gas/Vapour Loads.
- ⊙ Boosts vacuum performance of existing plant and machinery.

OUTSTANDING FEATURES

- ⊙ Entirely mechanical, light weight and compact design.
- ⊙ High operating speeds because of dynamically balanced rotors and helical ground gears for long life and quiet operation.
- ⊙ Can be mounted separately from the backing pump or directly on the inlet of the backing pump.
- ⊙ ISO Flanges
- ⊙ Unique impeller design for high volumetric efficiency.
- ⊙ Compatible with all Vacuum systems.
- ⊙ Efficient air-cooled design.
- ⊙ Simple to maintain.

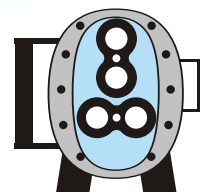
OPERATING PRINCIPLE

EVEREST vacuum boosters are positive displacement pumps with two figure eight shaped impellers rotating in opposite directions inside the casing.

As each lobe of an impeller passes the blower inlet, it traps a quantity of air equal to exactly one fourth the displacement of the blower.

This entrapment occurs four times per revolution. The entrained air is forced around the case to the blower outlet. Timing gears accurately position the impellers in relation to each other to maintain the minute clearances so vital to the high volumetric efficiency of the pump.

ECONOMIC
RELIABLE
DURABLE
with the
NEWLY DEVELOPED
EVEREST PROFILE



WE JUST DON'T
OFFER BOOSTERS,
WE OFFER
SOLUTIONS!

PRODUCT RANGE

Air Blowers ~ Water Cooled Blowers ~ Gas Blowers ~ Vacuum Booster Pumps ~ Acoustic Hoods & Enclosures ~ Dry Vane Pumps

EVEREST Transmission

VACUUM BOOSTERS

EVEREST

EXTENSIVELY USED FOR

Evaporative Concentration, Vacuum Distillation, Polymerization, Crystallization, Vacuum Impregnation, Vacuum Drying, Sterilization, Vacuum Cooling, Object Metallising, Roll Metallisation, Semi-conductor Processing, Manufacture of Vacuum & Microwave Tubes, Manufacture of GLS Automotive & Miniature Lamps, Tube Light Production, Sintering, Brazing, Electron Beam Welding, Heat Treatment, Ionic Nitriding, Tool Coating, Vacuum Casting, Degassing & Refining, Plasma Welding, Evaporation, Sputtering, Space Research and Development Applications.

MAJOR INDUSTRIES SERVED

Chemical & Pharmaceutical, Food Processing, Industrial Processing, Vacuum Furnace, Semi-conductor, Electrical and Lighting Industries.

TECHNICAL SPECIFICATIONS

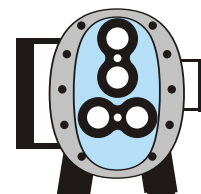
MODEL	SPEED (SWEPT VOLUME @ 1500 RPM) (PR. RANGE 10-10 ³ TORR) LPM (m ³ /hr)	RATED MOTOR HP (1500 RPM)	LINE SIZE (MM)	MAX DIFF. PRESSURE (TORR)	RECOMMENDED BACKING PUMP (LPM)
EVB01M	4300 (260)	1 / 1.5	65	35 / 70	300 - 500
EVB05	6700 (400)	2 / 3	65	50 / 90	500 - 1000
EVB15	13300 (800)	3 / 5	80	30 / 70	1000 - 3000
EVB30	27800 (1670)	5 / 7.5	125	30 / 55	3000 - 5000
EVB50	48800 (2930)	7.5 / 10	125	20 / 40	5000 - 10000
EVB60	65100 (3900)	10 / 15	200	30 / 50	Consult Everest
EVB70	87000 (5250)	10 / 15	200	20 / 36	Consult Everest

The maximum differential pressures indicated correspond to the motor power and recommended backing pump indicated above is only for reference which may change due to change in process parameters. For further assistance, please consult Everest.



Wide range of Booster Pumps from 2000 LPM to 100000 LPM are commercially available. For further clarifications, contact our technical team who shall be glad to assist you to overcome application problems.

Vacuum Booster System -
Low Temperature Thermal
Desalination Process for
NIOT, Chennai



EVEREST Transmission

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