Mechanical Booster Pumps are used in a 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.

**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.
EXTENSIVELY USED FOR

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

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SPEED (SWEPT VOLUME @ 1500 RPM)</th>
<th>RATED MOTOR HP (1500 RPM)</th>
<th>FLANGE DIAMETER (MM)</th>
<th>MAX CUT IN PR AT INLET (TORR)</th>
<th>RECOMMENDED BACKING PUMP (LPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVB05</td>
<td>6700 (400)</td>
<td>2</td>
<td>145 (ISO 80)</td>
<td>50</td>
<td>500 - 1000</td>
</tr>
<tr>
<td>EVB15</td>
<td>13300 (800)</td>
<td>3</td>
<td>165 (ISO 100)</td>
<td>30</td>
<td>1000 - 3000</td>
</tr>
<tr>
<td>EVB30</td>
<td>27800 (1670)</td>
<td>5</td>
<td>225 (ISO 160)</td>
<td>30</td>
<td>3000 - 5000</td>
</tr>
<tr>
<td>EVB50</td>
<td>48800 (2930)</td>
<td>7.5</td>
<td>225 (ISO 160)</td>
<td>20</td>
<td>5000 - 10000</td>
</tr>
<tr>
<td>EVB60*</td>
<td>65100 (3900)</td>
<td>7.5/10</td>
<td>225 (ISO 160)</td>
<td>30/60</td>
<td>2 X (5000 - 10000)</td>
</tr>
</tbody>
</table>

* At 2000 rpm

The cut in pressures indicated, correspond to the Motor power. For higher range, refer Everest.

Wide range of Booster Pumps from 530 GPM (2,000 LPM) to 26,400 GPM (100,000 LPM) are commercially available. For further clarifications, contact our technical team who shall be glad to assist you to overcome application problems.

All dimensions are in mm.

Due to constant improvements, technical specifications are subject to change without notice.