



Innovative Engineered Solutions

SUPERVAC DRY SCREW VACUUM PUMPING SYSTEMS

EverestVacuum a brand of Everest Blower Systems Private Limited brings to its customers, high efficiency and high displacement Dry Vacuum Pumping Systems | **SuperVac**. These are completely engineered vacuum packages consisting of Mechanical Vacuum Booster and Dry Screw Vacuum Pump along with a combination of allied accessories, specific to industry and application.

As these systems are completely dry, i.e there is no sealing fluid in the pump casing, these systems are becoming very popular in various applications where customers' requirements are for clean, oil-free vacuum. As these systems are dry, the process vapour can pass through the pumps without any contamination and be collected at the discharge of the system by a vent condenser, thereby offering the customer a very efficient vapour recovery management to build an environment-friendly vacuum ecosystem.

SuperVac typically consists of a Dry Screw Pump as backup in combination with Mechanical Vacuum Booster (single/multiple) stages. The Pump and booster are both the latest technology available in the market, offering our customer's high volumetric efficiency coupled with lower per m³ consumed KW, resulting in lowering overall cost of ownership.

ENGINEERING | EVALUATION | DESIGNING | **EverestVacuum**
MANUFACTURING | TESTING | EXECUTION | POST SALES AND SERVICE



EVERESTVACUUM SUPERVAC ENJOYS A GOOD
REPUTATION FOR THEIR INNOVATIVE DESIGN
AND RELIABILITY IN OPERATION

EverestVacuum, leaders in Vacuum Technology, offer these **SuperVac** vacuum pumping systems developed using diverse designs and cross-links to suit the most complex and demanding process requirements.

EverestVacuum supplies a diverse range of vacuum systems for standard compact units to complex engineered built systems with integrated instrumentation and control panels for local or remote operation. These systems are supplied as skid-mounted ready to connect units.

EverestVacuum **SuperVac** enjoys a good repute for their innovative design and reliability in operation, offer unmatched quality, value and performance. They are easy to operate and maintain.

Everest has been closely associated with various scientific and research organizations for research and development projects related to medium and high vacuum requirements, some of them being the first time in the world.

Our mission has always been to continually offer new and superior industrial vacuum solutions to the global market, for all industries and applications with an objective to ensure the lowest total cost of ownership for our customers.

THIONYL
CHLORIDE SOCl_2 ,
PHOSPHORYL
CHLORIDE POCl_3
AND HCL SHALL
HAUNT YOU NO
MORE.

EVEREST HAS
THE SOLUTION

EverestVacuum

SuperVac Dry Screw Vacuum Pumping Systems

APPLICATIONS

Vacuum Drying
Solvent Recovery
Vacuum Distillation
Vacuum Degassing
Vacuum Impregnation
Space Research
Development Applications

HIGHLY RECOMMENDED FOR

- Solvent Recovery
- Vacuum Drying
- Low Pressure Low
Temperature Distillation
- Freeze Drying



TYPICAL SUPERVAC
STANDARD VACUUM SYSTEM FOR
CHEMICAL AND PHARMA INDUSTRIES



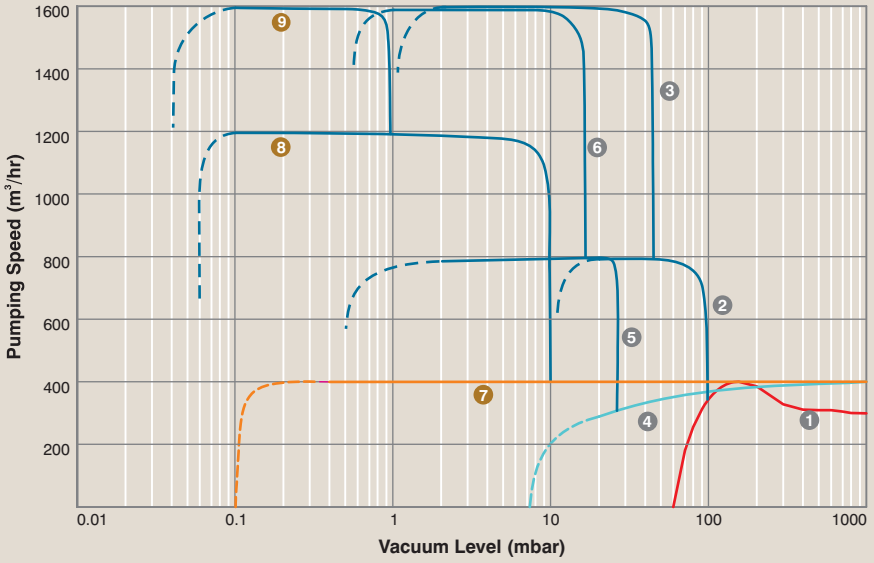
ENGINEERED SUPERVAC
FOR OIL AND GAS INDUSTRY



TYPICAL SUPERVAC
ENGINEERED VACUUM SYSTEM

EVEREST VACUUM SUPPLIES A DIVERSE RANGE OF VACUUM SYSTEMS FROM STANDARD COMPACT UNITS TO COMPLEX ENGINEERED BUILT SYSTEMS

IMPROVED PUMPING CAPACITY BY MULTISTAGING



LIQUID RING PUMP

PISTON PUMP

DRY SCREW PUMP

VACUUM BOOSTER

1 Liquid Ring Pump (400 m³/hr)

2 Liquid Ring Pump + Mechanical Vacuum Booster

3 Liquid Ring Pump + 2 No. Mechanical Vacuum Boosters

4 Piston Pump (400 m³/hr)

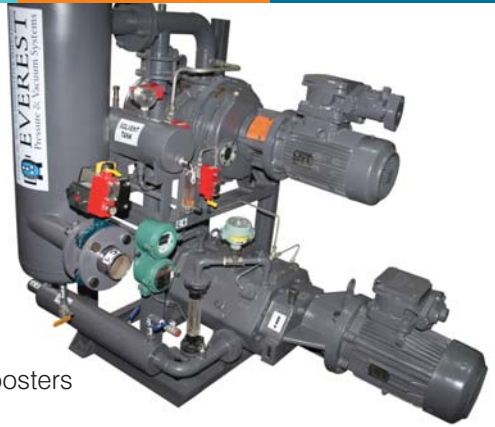
5 Piston Pump + Mechanical Vacuum Booster

6 Piston Pump + 2 No. Mechanical Vacuum Boosters

7 Superscrew Screw Pump (400 m³/hr - Vacuum of 0.1 Torr)

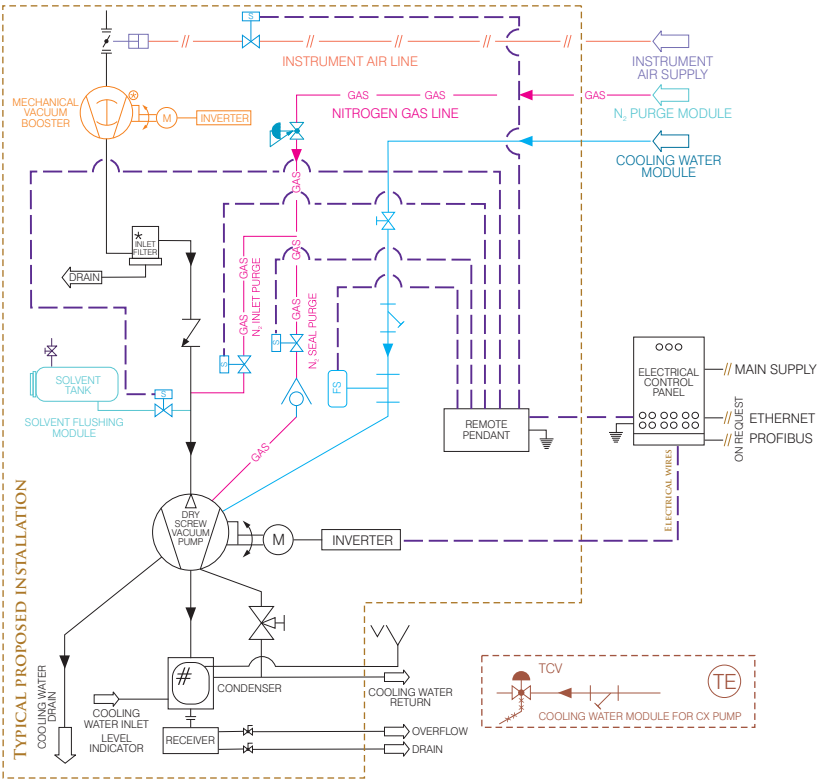
8 Superscrew Screw Pump + Mechanical Vacuum Booster

9 Superscrew Screw Pump + 2 No. Mechanical Vacuum Boosters



EVEREST ADVANTAGE HIGH VOLUMETRIC EFFICIENCY
LOW ENERGY CONSUMPTION | PACKAGE SUPPLY | PLUG AND PLAY CONCEPT

P&I DIAGRAM OF A TYPICAL SUPERVAC SYSTEM



STANDARD SUPPLY | Screw Pump, Motor, VFD, Seal-Purge, Cooling Water Module (Standard), Non-Return Valve, Main Isolation Valve

★ Contact Everest for more details

Can be placed Upstream/Downstream as per requirement

⊕ Can be added in multiple stages to enhance pumping capacities

SUPERVAC DRY SCREW VACUUM PUMPING SYSTEMS

SPECIFICATIONS

Model	Nominal Displacement		Ultimate Vacuum		Power KW		Port Size mm NB		No. of Stages
	m ³ /hr	CFM	Torr	Pa	Connected	Consumed	Suction	Discharge	
SUPERVAC 600	600	350	0.01	1.33	6.00	3.90	65	40	2
SUPERVAC 1200	1200	700	0.01	1.33	11.00	7.20	80	50	2
SUPERVAC 1600	1600	950	0.01	1.33	13.00	8.50	100	50	2
SUPERVAC 2000	2000	1,175	0.01	1.33	16.50	11.00	125	50	2
SUPERVAC 3000	3000	1,770	0.005	0.66	18.50	13.00	150	65	3
SUPERVAC 5000	5000	2,950	0.005	0.66	22.20	15.50	150	50	3
SUPERVAC 10000	10000	5,890	0.005	0.66	40.50	30.00	300	65	3
SUPERVAC 18000	18000	10,600	0.005	0.66	52.00	36.50	350	65	3

The following shall be part of the Standard Package

1. Isolation Valve : Electropneumatic Solenoid + NRV (SS + PTFE).
2. Skid Structure: ISMC, IS:808 1989.
3. Accessories: N2 Seal Purge, N2 Inlet Purge, CW Circuit, BVG with Siphon at the inlet.

Note

- Power consumption may vary as per individual system design/customization. Specifications are subject to change without prior notice.
- CX Variant (CORROSIVE ENVIRONMENT PUMPING) is also available. Refer to the website for the latest information on the model and variants.
- Also available in CX configuration for corrosive vapour pumping

Our experts can help you in process optimization thru customization resulting in a vacuum package that is optimally designed for your requirement and applications. Using varied combinations of Dry Screw Vacuum Pumps, Mechanical Vacuum Boosters, Filters, Condensers, Traps and Electronic Interlocking safeties results in the lowest overall cost of total ownership.

EVEREST ADVANTAGE

EVEREST HAS THE SKILL, EXPERTISE, KNOWLEDGE AND CAPABILITY THAT IT HAS ACQUIRED OVER THE YEARS TO CUSTOM DESIGN VACUUM SYSTEMS FOR SPECIFIC CUSTOMER REQUIREMENTS AND DELIVER GUARANTEED RESULTS

EVEREST PRODUCT RANGE

VACUUM

MECHANICAL VACUUM BOOSTERS
 DRY SCREW VACUUM PUMPS
 SUPERVAC
 ROTARY VANE VACUUM PUMP
 SUPERVANE
 VACUUM SYSTEMS (WET)
 ENGINEERED VACUUM SYSTEMS
 MECHANICAL VAPOUR RECOMPRESSOR (MVR|MVC)

PRESSURE

TWIN LOBE ROOTS BLOWERS
 TRI LOBE ROOTS BLOWERS
 CENTRIFUGAL BLOWERS
 TURBO BLOWERS
 BLOWER PACKAGES

INDUSTRIES SERVED

CHEMICAL & PHARMACEUTICAL

Degassers
 Vacuum Distillation
 Evaporators
 Crystallizers
 Vacuum Filters
 Vacuum Dryers

VACUUM FURNACE INDUSTRY

Heat Treatment
 Hardening
 Optical Coating
 Metallizing
 Degreasers in Furnace

ELECTRICAL INDUSTRY

Transformer Vacuum Impregnation
 Transformer Oil Purifier
 Vapour Phase Drying

INDUSTRIAL PROCESSING

Impregnating Windings
 Drying Textiles Mills
 Sterilizing re-circulation through Ethylene Dioxide
 Incandescent CFL and Tube Light Manufacturing
 TV Tubes Manufacture

FOOD PROCESSING INDUSTRY

Vacuum Packaging-Fresh & Cooked Meats
 Freeze Drying
 Deodorization of Vegetable Oil (FFA Distillation)
 Sugar Refining
 Vacuum Evaporative Cooling
 Vacuum Tray Drying
 Flash Drying

Our technology is so flexible, we can custom manufacture **Special Blowers, Vacuum Pumps & Systems** by alloying and cross linking diverse designs to suit individual requirements and import substitutes.



EVEREST
 PRESSURE & VACUUM SYSTEMS

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