



**Leading Dealers of
Vacuum Pumps in India**

www.upbringingindia.com



Upbringing Technologies maintains
one of the largest inventories of vacuum pumps,
spares and accessories in India.

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ABOUT US

We are exclusive dealers of the entire product range in India. We have our own business development and technical teams to assist you. Our highly trained service department can provide you the best after sales support. We can take up the responsibility of your vacuum application.

We have been in the business of providing vacuum solutions for more than 15 years. We are now dealing with multiple brands so we can provide solutions for the entire vacuum and pressure range. We can also provide custom solutions by combining equipment and accessories from our large range of products.

OUR VISION

The well-being and development of our employees are important to us as these are our company's biggest asset. Together, we take our customers seriously and meet them openly and honestly on a level playing field. We achieve our goals with a great deal of personal responsibility.

OUR MISSION

UPB is a global solution provider for Vacuum Technology and End-of-Arm-Tooling (EOAT). We impress our customers with a high level of flexibility and customized service. Our core competences lie in the development and designing of innovative products for automation. We work with our customers and employees in a fair, respectful manner and assume responsibility for our environment.

EXCELLENCE IN NUMBERS

15+ Years

EXPERIENCE

5

BRANDS

0 to 16.000 m³/hr

DISPLACEMENT

6500+

PRODUCTS

WHAT WE DO?

We are dealers of Vacuum pumps and blowers from General Europe Vacuum, an Italian manufacturer of vacuum pumps and blowers. GEV has more than 20 years of experience in this field and they have a large share in the European market, we are ready to dominate the Indian market with GEV.

We also exclusively deal in vacuum pumps and blowers from Briwatec GMBH, a German manufacturer of high quality vacuum pumps and blowers. With two of the most innovative and reliable brands from Europe, we can take care of your every vacuum application need.

Vanes are the heart of the vacuum pumps and that is the part which wears out the most. We can make replacing vanes surprisingly economic with Supervane parts. Supervane provides carbon and plastic vane kits at a lower price without any compromise with the quality.

Application of vacuum is made possible not only by the vacuum equipment but with the correct accessories. FIPA is a leading manufacturer from Germany, who manufacture the largest range of accessories and parts in the vacuum industry.

From vacuum/pressure equipment to spare parts & accessories we provide all of it.

OUR PRODUCTS

Robust products from
leading European manufacturers.

The best quality vacuum pumps,
blowers, spare parts, and accessories for
the application of vacuum technology.



GENERAL
EUROPE
VACUUM S.r.l.
Tecnologie Del Vuoto

About General Europe Vacuum

Vacuum components especially vacuum pump play an extremely crucial role in wide number of industries. Our associates General Europe Vacuum (GEV), Italy an organization born from 20 years of experience are manufacturers of a comprehensive range of oil-less and lubricated vanes vacuum pumps with capacities ranging from 3 to 800 m³/h in addition to custom made vacuum plants.

GEV, Italy vacuum pumps are installed in many industrial sectors especially in power, chemical and pharmaceutical applications.

Oilless/ Dry Vacuum Pumps

1. GS Series



GS 6 - 10

GS - 6 - 7.2 m³/hr | 150 mbar (Abs.)
GS - 10 - 11 m³/hr | 150 mbar (Abs.)



GS 16 - 25 - 40

GS - 16 - 17.1 m³/hr | 150 mbar (Abs.)
GS - 25 - 26.1 m³/hr | 150 mbar (Abs.)
GS - 40 - 45 m³/hr | 150 mbar (Abs.)



GS 100

GS 100/50Hz - 100 m³/hr | 150 mbar (Abs.)
GS 100/60Hz - 120 m³/hr | 150 mbar (Abs.)



TECHNICAL FEATURES:

- GS suction version, max vacuum 150 mbarAbs
- GS C pressure version, max pressure 1.000-1.500 mbar g
- GS V/P suction/pressure, performances -0.6 bar/+0.6 bar
- Displacements from 3 to 100 m³/h
- Displacement upon request 140-250 m³/h

- Without lubrication
- Air cooled
- No maintenance
- Optionals: paper cartridges filters in suction, vacuum pressure adjustment valve.

2. The GPR-Series - Claw Pumps



TECHNICAL FEATURES:

- Ultimate vacuum 70 mbarAbs
- Displacement 150 - 175 m³/h
- Without lubrication
- Air cooled
- No maintenance
- Optionals: paper cartridges filters in suction, vacuum pressure adjustment valve.

3. The GK/GKL/GKLDV/GSL Series: Side channel blowers



TECHNICAL FEATURES:

- GKL single stage with max delta P 250-300 mbar;
- GKLDV /GKLBS /GKLBP double stage with max delta P 550-600 mbar;
- Displacements from 30 to 1600 m³/h;
- Air cooling system;
- Optionals: paper cartridges filters in suction; safety vacuum valve/ pressure; discharge thermo switch.

Other Products:

1. **Oilless screw pumps:** 300 to 800 m³/hr & 0.01 mbar
2. **Rotary lobes:** 100 to 1600m³/hr & P 500 mbar (available in ATEX)
3. **Vacuum Roots:** 200 to 1600m³/hr (available in ATEX)

Oil Lubricated/ Oil Sealed Vacuum Pump

1. GPM Series - Oil lubricated rotary vane vacuum pumps

Having low running costs GP-GP/M vacuum pumps use special profile vanes.

Extremely efficient when running in heavy applications and in case of water or vapours presence enabling silent start up thus avoiding oil fluttering into pump chamber.



GP-GP/M 11 - 21

GP-M 11 - 11 m³/hr | Vacuum Level - 1 mbar (Abs.)
GP-M 21 - 21 m³/hr | Vacuum Level - 1 mbar (Abs.)



GP-GP/M 45 - 65

GP-M 45 E - 45 m³/hr | Vacuum Level - <0.1 mbar (Abs.)
GP-M 65 E - 65 m³/hr | Vacuum Level - <0.1 mbar (Abs.)



GP-GP/M 100E

GP-M 100 E - 100 m³/hr | Vacuum Level - <0.1 mbar (Abs.)



GP-GP/M 300E

GP-M 300 E - 300 m³/hr | Vacuum Level - <0.1 mbar (Abs.)

TECHNICAL FEATURES:

- GP max vacuum 10 mbarAbs
- GPM max vacuum 0.5MbarAbs
- Displacements from 11 to 300 m³/h
- Displacements upon request 400-600-750-1000 m³/h
- Air cooled

- Oil mist eliminators at discharge
- Oil filter, standard non return valve
- Optionals: min oil level switch, max liquid level switch, gasballast valve; paper, inox and oil sump suction filters; vacuum adjustment valve; discharge thermal switch.



2. GPM-Series (ATEX) - All GPM models available in ATEX

GEV manufactures oil lubricated rotary vanes vacuum pumps complying with ATEX 94/9/EC standards.

GP-GP/M Atex vacuum pumps can run in zone 2, 1 and 0.



3. GC Series - Oil lubricated high-pressure compressors

TECHNICAL FEATURES:

- GC limit pressure 2 - 2.5 bar g
- Flow rates from 7 - 600 m³ / h
- Air cooled
- Optionals: oil level switch; safety pressure switch; suction filters; exhaust thermostat; pressure gauge; safety valve or by-pass with convoluted drain; cyclone filter; hydraulic motor.

Packages & Systems for Special Applications

Environmental friendly and technologically advanced process vacuum system consisted of vacuum pumps like SATURNO, EASYVAC, NEWVAC.



1. EASYVAC

TECHNICAL FEATURES:

- Oilless process vacuum package consisting of oilless pumps Easyvac Combined with vacuum roots pumps
- Easyvac pump consisting of three stages threelobes profile vacuum roots combined in a unique compact pumping body
- Max vacuum EASYVAC 0.3 mbarAbs
- Max vacuum EASYVAC + ROOTS VUOTO 0.001 mbar
- Displacements up to 20.000 m³/h;
- Fit for vacuum condensation recovery inside package special materials construction and custom-made control instruments;
- ATEX 100a certification.



2. NEWVAC

TECHNICAL FEATURES:

- Oilless process vacuum packages consisting of: combined roots pumps
- Sizes 1-2-3-4 stages with max vacuum 0.05 mbarAbs
- Displacements up to 16.000 m³/h
- Fit for vacuum condensation recovery inside package
- Special materials construction and custom-made control instruments
- Properly fit for "dirty" applications sucking process products
- ATEX 100a certification



3. Vacuum package with rotary screw pump SATURNO

Oilless process vacuum package consisting of rotary screw vacuum pump Saturn combined with vacuum roots.

TECHNICAL FEATURES:

- Max vacuum SATURNO 0.02 mbarAbs;
- Max vacuum SATURNO + ROOTS VUOTO 0.0001 mbar Abs;
- Displacements up to 20000 m³/h;
- Fit for vapour condensation recovery inside package;
- Special materials constructions and custom-made control;
- Instruments;
- ATEX 100a certification.

Process vacuum systems – traditional vacuum packages

Process vacuum packages consisting of backing pumps like : liquid ring vacuum pump,rotary vanes vacuum pumps, rotary piston pumps etc. combined with ejectors or roots vacuum pumps in order to betterize max vacuum consequently increasing sucked volumetric displacement.

1. Liquid ring vacuum packages

Liquid ring vacuum pumps reliable and cheap can be applied in different applications.

Usual running liquid is water but other liquids can be used like, mineral oil, glycol, solvents etc.

- Limit vacuum 0.01 mbar
- Displacement up to 20000 m³/h
- Special materials construction and custom-made control instruments
- Possibility of pre-post condensers installation
- ATEX 100a certification.

2. Vacuum packages with vacuum pumps GPM

These packages can be applied in "cleaned" processes, where sucked gases do not contain largest condensed mists.

Backing pump is connected in combination with vacuum roots in order to betterize max vacuum, increasing consequently sucked volumetric displacement.

- Limit vacuum 0.0001 mbar
- Displacement up to 20000 m³/h
- Special materials construction and custom-made control instruments
- Possibility to pre-post condensers installation
- ATEX 100a certification.

General Europe Vacuum Special Applications: Vacuum Systems & Packages

Medical Application

What is vacuum used for in hospitals?

Medical vacuum pumps keep medical professionals safe from potentially harmful substances. These vacuum pumps are used within hospitals, vet clinics, and medical clinics at large. Vacuum Pumps can be used for applications such as: Draining wounds.

Medical Range:

- Anaesthetic gas evacuation system model GSE
- Anti bacteria filters group model FFMVEx2
- Emergency third pump kit model KGP
- GPx3 in compliance with the UNI 73961



Atex



Beverage industry



Bricks manufacturing



Chemical
Pharmaceutical



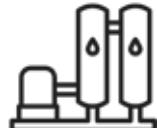
Composite



Drying & essication



Electronics



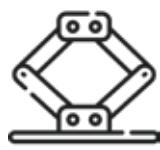
Environmental
technology



Food industry



Laboratory analysis



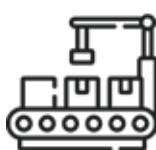
Lifting



Marble, clay, glass



Medical and hospital



Packaging



Paletizing



Plastic & thermoforming



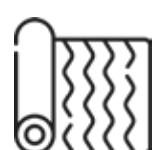
Pneumatic conveying



Process gases



Pulp & paper



Textile industry



Water treatment



Woodworking



Medical Vacuum

About FIPA

Founded 1985 in Munich, Germany, FIPA is the leading innovator in Vacuum Technology and End-of-Arm Tooling solutions. We specialize in developing quality products and dynamic solutions for all aspects of your material flow systems.

The individual components are perfectly tailored to suit the needs of the widest variety of sectors in terms of type, size and material – and we also offer a complete range of peripheral hardware for the generation and control of vacuums, hoses, fittings – in brief, everything you need for the implementation of this material flow solution of the future.

Ergonomic Handling



1. FIPA LIFTpro

FIPALIFTpro with its unique control handle design, allows for powerful lifting of loads up to 75kg. The intuitive, ergonomic, easy to use single handed controls create a versatile, user friendly and powerful solution. Lift, lower and balance the load all with one hand.

- 75kg load capacity
- Simple one-hand control
- Ergonomic and efficient
- Work with ease
- Robust and durable
- For use in every industrial environment



2. FIPA LIFTmax

The new tube lifter FIPALIFTmax by FIPA with the simple rotary handle can is configurable according to requirements for universal use.

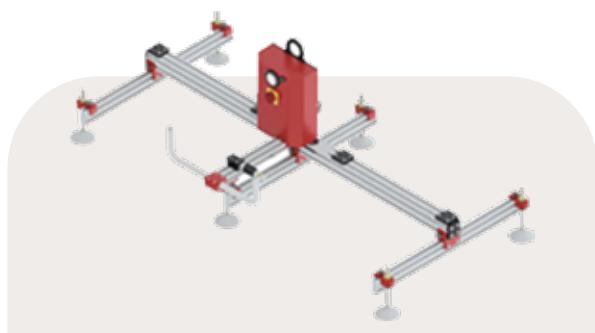
- Lifting capacity of up to 160 kg
- Flexible and durable solution
- Ergonomic and efficient
- Work with ease
- Robust and durable
- Ideal solution for rough production environments.



3. FIPA FORMHAND

Bulky package, soft fleece or unwieldy object - FORMHAND is a universal gripping pad for flexibilisation of production & logistics.

- High gripping force
- Easy integration
- Form-flexible shape fit
- Gentle gripping
- Multifunctional use



4. FIPA SPIDER

Put on the vacuum cups, operate the manual slide valve, wait two to three seconds for the vacuum to build up, and get started.

This is how easy it is to work with the FIPA Spider vacuum lifter! The FIPA Spider vacuum lifting device is a vacuum traverse that was developed "plug & play" for use on a chain hoist. Vacuum traverses, also commonly called vacuum lifters, are used for handling plates, disks and sheets. The vacuum lifters are mainly used in the wood, sheet metal and glass processing industries. They facilitate the loading of processing machines or the storage of various goods. The FIPA Spider is available as standard for loads up to 250 and 500 kg.



5. Sprue Grippers

- Available with and without sensors.
- Sizes: 10mm to 20mm
- Closing force (at 87 psi or 6 bar): 3.5 N to 52 N

6. Air Nippers

- Range: Force up to 343 N
- Applications: Plastics & ferrous metals



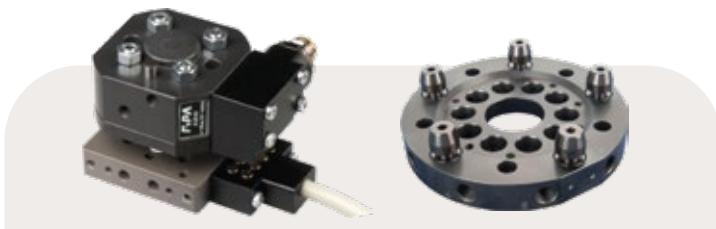
7. Suction Cups

- Types: Flat/ Bellows
- Materials: NBR, Silicone, HNBR, NR, Vinyl, PU, PU-Varioflex
- Suitable for temperature range: ambient to 250°C
- Shapes: Round / Oval and many more.

Available for all industries including but not limited to: auto-body, food, plastics, sheet metal, glass, wood, curved surfaces, high temperature surfaces, medical, etc.

8. Area Grippers

Various shapes and sizes available to handle variety of loads.



9. Quick Change Systems for Robotic Integration

- Various sizes
- Styles and shapes available



10. Ejectors

Mini ejectors to heavy duty multi-stage Ejectors available.

Other Products

- Silencer
- Parallel Clamps
- Connectors
- Extrusion Systems
- Sensors
- Clamps
- Gripper Arms
- Bolts
- Electronics
- Valves & many more.

About Briwatec

We at briwatec offer you complete system solutions with our ready-to-use KORUND vacuum system. This can be configured – tailor-made for your requirements – with a wide range of technologies: Vacuum pumps, compressors, side channel compressors, side channel blowers, radial compressors, radial blowers, rotary lobe pumps, rotary lobe blowers and claw vacuum pumps.

The entire spectrum of customised solutions is available to you, from simple small mobile units to complex systems. From vacuum pumps and compressors through to vacuum compressors, including a wide range of accessories.

Durability, efficiency and cost-effectiveness are always in focus during the entire planning and implementation process. Of course, we at briwatec also take care of the complete installation and commissioning as well as maintenance, optimisation and servicing over the entire lifespan of the system.

Briwatec Zirkon Series: Oilless or dry rotary vane vacuum pumps

Environmentally friendly, oil and lubricant-free technology

Our briwatec vacuum pumps and compressors (ZIRKON series) operate with environmentally friendly, oil- and lubricant-free rotary vane technology. The briwatec dry-running rotary vane vacuum pumps and dry-running rotary vane compressors are characterised by great durability and extremely economical operation. They are user-friendly, low-maintenance, efficient in drive and have very long vane service lives.

- Displacements from 3m³/hr to 140 m³/hr.
- Absolute vacuum: 150 mbar
- Maintenance friendly
- Less number of replacement parts / simpler construction
- Can be used a compressor as well (pressure up to 1.3 bar)

Bestsellers:

Zirkon D040 V - 40m³/hr Zirkon D101 V - 100m³/hr
 Zirkon D081 V - 80m³/hr Zirkon D141 V - 140m³/hr.



Briwatec Rubin Series: Side channel blowers

The dynamic principle

Our briwatec side channel compressors and side channel blowers (RUBIN series) operate according to a dynamic principle that is suitable for air as well as for non-explosive/non-aggressive gases. The units are largely maintenance-free, quiet, light and very reliable. In addition, side channel blowers and compressors guarantee high efficiency due to flow-optimised components.

The drives have thermal protection contacts or PTC thermistor sensors as standard. They are ideally suited for frequency control. Special motors are available optionally.

- Displacements from 40m³/hr to 2200m³/hr
- Maximum differential pressure up to 500 mbar
- Contact-free and quiet operation
- Virtually maintenance-free
- Robust
- Thermal protection contact / PTC thermistor sensor as standard
- Suitable for frequency converter operation



Briwatec Peridot Series: Rotary lobes blowers and vacuum pumps

The dry-running displacement principle

The technological basis of our briwatec rotary lobe pumps, rotary lobe compressors and rotary lobe blowers (PERIDOT series) is the dry-running displacement principle. Since the robust rotary pistons are designed with three lobes, air and gases can be conveyed with low pulsation. In addition, the contactless and oil-free operation guarantees a clean pumped medium, free of lubricant residue and abrasion.

The rotary lobe pumps, rotary lobe compressors and rotary lobe blowers may be driven directly or via belts. Frequency control is available on request

Sizes

Pumping volumes from 40 to 3,400 m³/h are available. Other sizes and installation options are available on request.

Pressures

Differential pressures range from +1 bar to -0.8 bar.



Briwatec Compressor Range



Briwatec offers you a wide range of compressors and rotary compressors:

- Side channel blowers (RUBIN series)
- Rotary vane compressor (ZIRKON series)
- Centrifugal compressor (OPAL series)
- Rotary piston compressor (PERIDOT series)

Systems and Products

Accessories

- Spare Parts
- Consumables (Different Brands)
- Maintenance and Service
- Accessories
- Retrofit Kits to reduce Maintenance and extend production availability





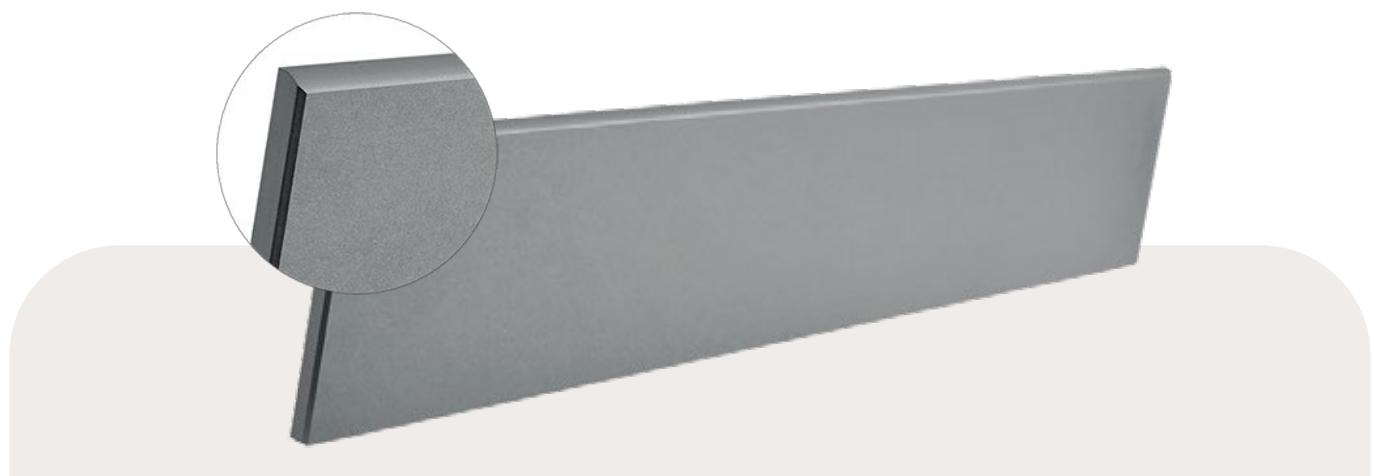
SUPERVANE

About Supervane

Established in 2013 as a distributor of carbon vanes for vacuum pumps and compressors, Supervane became a producer of OEM quality carbon vanes in 2018. As well as one of the top companies among alternative carbon vanes suppliers.

We've built our reputation on high quality products and exceptional service which has become standard for our team. We've been supplying to over 70 countries worldwide and are still expanding our geography.

Should you want to partner with a trustworthy and reliable company offering excellent products - welcome aboard, Supervane is looking for distributors worldwide!



Unsurpassed Alternative

- Original Vane Shape
- Unbeatable Accuracy
- High Precision CNC Machining
- OEM Quality Surface Grinding
- Various Dedicated Graphite Grades Direct from OEM Suppliers

7 Reasons Why you should avoid cheap low-quality vanes



THEY WEAR OUT FAST

Here at Supervane, we've been testing vanes created from different types of graphite and made by different manufacturers. It's been proved that cheap, low-quality vanes wear out 4 times faster than the original vanes.



THEY INCREASE THE PUMP'S RUNNING COSTS

Low-quality carbon vanes have a higher wear rate. This produces more carbon dust which means you will need to change the filters more often.



THEY INCREASE PUMP RUNNING TEMPERATURES

Due to the low graphite quality, pump running temperatures increase by 10°-20°C. Higher temperatures, over time will affect the bearings grease and eventually lead to the bearings premature failure.



THEY WEAR OUT THE PUMP

Cheap graphite is normally hard and does not possess sufficient resilience, which is required for the vane to smoothly slide on the stator. Therefore, hard graphite will cause premature wear to the surfaces of the stator.



THEY REDUCE THE PUMP'S EFFICIENCY

The way that cheap vanes are made means that it is impossible to achieve the exact dimensions and high tolerances that are required to obtain the best performance. If a vane's dimensions are larger than they should be, it would normally break down. If the dimensions are smaller, it leads to a poorer pump performance and lower vacuum.



THEY INCREASE THE RISK OF THE PUMP BREAKING DOWN

Every vane has a minimum allowed height that is determined by the manufacturer. It is recommended by the manufacturers that this height is regularly checked. If you fail to do this and allow the pump to run on vanes that are shorter than the allowed size, it will inevitably break down. The problem with low-quality cheap vanes is they need to be measured 4 times more often than high-quality vanes, and you are more likely to miss a measurement sooner or later.



THEY CAN CAUSE THE PUMP TO COMPLETELY FAIL LEAVING YOU WITH THE COST OF A NEW PUMP

When low-quality vanes break down, sharp chunks of hard graphite break off and cause irrecoverable damage to the pump by scratching the surface of the rotor and stator. This normally means the pump will have to be replaced.



Why choose Supervane?



ORIGINAL PRODUCT QUALITY

The graphite comes from the suppliers of OEM vanes manufacturers. The exact shape and dimensions of the vane are achieved by precise CNC machining.



SAVINGS OF AT LEAST 27%

Compared to OEM vanes This is based on real product tests and the official price lists comparison, carried out by Supervane and the original manufacturers.



LARGE INVENTORY

The vanes and filters that are used in all of the common models of pumps and compressors made by Becker, Elmo Rietschle, Busch, Orion and DVP are constantly available.



QUICK DELIVERY

We provide same day dispatch and next day delivery throughout the UK, Europe, USA and Canada. Information with tracking details is provided with every order.



EASY ONLINE ORDERING

Real-time stock information is provided, and VISA, MasterCard, AMEX and PayPal are all accepted. You will receive immediate order confirmation.



TIMELY CUSTOMER SUPPORT

Supervane is not only about providing a quality product, but also a quality service and support. We only consider our job done when your order is delivered.



PROVEN COMPANY

Supervane is ranked as "excellent" by Trustpilot. Check our reviews at:
<https://www.trustpilot.com/review/supervane.com>

Service/customs installations and AMC Package

We are multi-brand distributors of Vacuum pumps and blowers. We also deal in state-of-the-art protection gear. We can provide customized solutions for your requirements. We are your one-stop solution when comes to Vacuum equipment and safety devices.

At Upbringing Technologies, we provide tailor-made services as per clients requirements. We provide spare-parts & maintainance services like customised installation, Annual maintainance program and support, comprehensive service, maintainance kits and many more.



1. Custom Installations:

We develop and install vacuum-integrated automation systems and setups.

Vacuum systems are installed ergonomically efficient using a variety of electronic controllers. There are many machines that can be integrated with vacuum technology, including Powder transfer machines, Packaging machines, CNC machines, Moulding machines, Capsule filling machines and a wide range of pharma machinery, Die Cutters, Printing machines, Sewage treatment plants, etc.

2. AMC Packages & Support:

Our team can draw up a regular maintenance program for the vacuum technology in your setup. We will send you reminders and carry out preventive maintenance jobs.

Support for large-scale vacuum systems for special applications is provided for one year free of charge. We also provide inspection and diagnosis services. Our technicians can tell you which spare parts need to be replaced.

3. Comprehensive service for all model of vacuum pumps and blowers from all the leading manufacturers:

We have our own service centre. We can carry out major service jobs for all models of vacuum equipment from multiple different brands. We use OEM original and SUPERVANE original spares to get the best performance from any vacuum equipment.

4. Beyond Vacuum:

We can design and deliver comprehensive systems. We collaborate with some machine manufacturers to deliver the complete solutions as well to our clients.

Maintenance Kits and Spare part Packages

Your pump is delivering top performance day in and day out. In order for each component to function properly, it must be matched and coordinated accurately. For this reason, demand genuine spare and replacement parts so that you can be sure to attain optimum performance, quality and cost-effectiveness.

Our original spare parts offer more than simply a supply of repair components.

Maintenance, repair, and refurbishment materials are subject to stringent quality requirements. This ensures that your vacuum equipment lasts a long time and is trouble-free.

1. Maintenance Kits:

We supply repair kits and maintenance kits for your vacuum equipment. We stock these kits for all the leading brands of the vacuum pumps. We can supply you with genuine spares which will protect your vacuum pump from all sorts of damage and give you the optimum performance.

2. Gaskets:

We can supply customized Gaskets for your pump. If you wish to add extra insulation, we have got it covered. We can supply OEM quality Gaskets and seals.



3. Carbon Vanes, Filters & other wear n tear parts:

SUPERVANE produces best quality carbon vanes and filters. We can supply you with OEM products for both dry rotary vane pumps and oil lubricated rotary vane pumps. We also have maintenance kits and replacement parts for Blowers, Screw Pumps and Claw Pumps. We can supply spares for your Roots system.

4. Controllers, Valves and VFD's:

We can supply all kinds of control panels and valves. You can gain additional control with electronics and pneumatics.

We can supply components for modification of the OEM designs such flame proof motors, silencers, switches, VFD's so that the OEM vacuum pump's capabilities are enhanced, and that equipment become eligible to handle tough applications.

Online Support:

Call us on **+ 91 97630 88881** or write to us at **office@upbringingindia.com** for minor problems and our team of expert can even guide you online.

We can provide do's & don't lists on demand for your equipment to make operator's job easier.

All Brands. All Types. All Grades

Vacuum Pump Oil is a top quality rust and oxidation inhibited oil designed to provide excellent service in vacuum pumps, hydraulic circulating lubrication systems, small air compressors and a wide variety of other applications. The inhibitors formulated into Vacuum Pump Oil make it highly resistant to oxidation and give it a longer service than most conventional oils.



WHY DO YOU NEED VACUUM PUMP OIL?

Vacuum pump oil and lubricants provide four basic needs to your equipment, these are:

1. **TO COOL** To help maintain proper operating temperatures in the Vacuum Pump
2. **TO CLEAN** To migrate the particles and impurities from the Vacuum Pump into the filter for removal
3. **TO SEAL** Creates a barrier between the open gaps to maintain compression
4. **TO LUBRICATE** Lubricating all moving parts to limit wear and high temperatures caused by friction

WHAT TO LOOK FOR WHEN PURCHASING A VACUUM PUMP OIL?

- **SUITABLE LIFETIME** / change interval
- **THERMAL STABILITY:** Does not break down at high temperatures
- **LUBRICITY RESISTANCE TO OXIDATION:** Strong molecular structure that resist attack from oxidizers and free radicals
- **SYNERGY WITH ADDITIVES:** Good solvency / works in conjunction with additives. Does not compete with additives

HERE ARE SOME OILS THAT INDUSTRY EXPERTS RECOMMEND:



Vacuum Pump Oils | NEOVAC MR Series

Rotary pump vacuum oil is used with the purposes of lubrication and the preservation of airtight seals. It has a low steam pressure, suitable viscosity, and is difficult to emulsify (it has anti-emulsification properties).

In other words, it easily separates from water and removes water.



Vacuum Pump Oils | NEOVAC SX & SY

Diffusion pump vacuum oil is sprayed either as molecules or as a steam and is used to obtain a vacuum state. It is necessary for these oils to be chemically stable such as by having low steam pressures, by not being transformed due to heat (heat resistance), and by not reacting easily with oxygen (oxidation resistance).



Food Grade Air Compressor Oil: AEON 6000

4000 hour synthetic PAO protection

This food grade air compressor oil is authorized by the USDA as an H-1 approved lubricant for use in federally inspected meat and poultry plants. It complies with FDA 21 CFR178.3570 – lubricants for incidental food contact. AEON 6000 Food Grade air compressor oil is an extended life lubricant formulated to reduce maintenance intervals and extend compressor life.

THESE OILS ARE SUITABLE FOR VACUUM EQUIPMENT MANUFACTURED BY THE FOLLOWING MANUFACTURERS:

- Gardner Denver/ Elmo Rietschle
- General Europe Vacuum
- Becker
- Atlas Copco/Leybold
- Busch
- Edwards and many more

About Optrel



Optrel AG settled in Wattwil, Switzerland, is a leading manufacturer of active eye protection products, which are first of all used in fields of applications like welding, grinding and health care focussing on safety, health and efficiency of its users.

The internationally working company was founded in 1986 and since that is known as a technology leader in the market of ADFs for welders, but also throughout other opto-electronical protection systems.

With its world-leading innovations optrel regularly raises this claim and offers customers and users enormous advantages world-wide.



- CRYSTAL LENS TECHNOLOGY WITH LIGHT STATE 2.0
See clearly what happens before, during and after the welding process.
- AUTOPILOT SHADE LEVEL 4 TO 12
Your welding helmet automatically adapts to changing light conditions.
- TWILIGHT FUNCTION
You can always remain relaxed even in case fast lighting changes.
- SENSITIVITY CONTROL
Adapts the helmet to your environment and requirements.
- GRIND MODE
The brightest vision during grinding work ever to be offered by a welding helmet.

Clearmaxx

OPTREL MEANS QUALITY

Using the Swiss made sign Optrel queues in the long tradition of Swiss companies reaching for unequaled quality, highest performance and absolute safety by working on outrageous innovation and reliability. Optimal and method adapted protection is the central factor when it comes to the safety and health of the welder:

Trust in highest Swiss quality. Trust Optrel.

- HEAT-REFLECTING PAINT
Helping you keep a cool head at all times.
- SENSOR SLIDE
Set the sensor detection angle individually to your requirements.
- PATENTED EXCENTER
Positions the helmet optimally on your head with just one twist.
- COMFORT HEADBAND
Offers an optimized weight balance to protect your neck and your back.
- 3-YEAR WARRANTY AFTER REGISTRATION
Simply register at register.optrel.com



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