LEADING THE WAY IN MANUFACTURING
ROOTS BLOWERS SINCE 1966

MASTERY IN PRESSURE & VACUUM TECHNOLOGY

AN ISO 9001:2008 CERTIFIED COMPANY
From a humble beginning in 1966 as a micro unit with small infrastructure to a 30,000 square yards state-of-the-art plant with over 350 employees, a global clientele of over 5000 companies across the world, KAY International at Sonepat, Haryana, is at the forefront of manufacturing Twin/Tri Lobe (Roots Blowers) in India. Our competition so far has been to challenge our own set quality standards and consistently break them to set new ones.

Mr. K.L. Arora, one of the early forrunners of India’s post-independence breed of entrepreneurs, rightly identified the need and opportunity of manufacturing rotary Twin Lobe Compressors in India, which until then were fully imported. This focused idea and vision led to the establishment of KAY International which has stood the testimony of times serving varied industries with its unmatched product line.

WHAT SETS US APART?
Superior, Customized Service
Our operations are spread over major business centers in India including Ahmedabad, Bangalore, Chennai, Delhi, Durg, Jamshedpur, Kolkata and Mumbai. Our teams are highly trained and equipped to recommend and deliver the exact air blower system to your facility. With our vast experience, we have developed import substitutes of major international blowers. We also offer servicing and spare-parts replacement of imported blowers in 1:1 ratio. We can give tailor-made blowers as per your special construction material needs like stainless steel, Bronze, Nickel/chrome plating etc.

SUCCESSFUL COMPANIES ARE CONCEIVED BY VISIONARIES
Founder, KAY International
“To ensure customer satisfaction by delivering unmatched quality products through constant research and innovation thus ushering profitability through efficiency”
TWIN LOBE BLOWERS
Twin Lobe Rotary Blowers are available in low RPM high pressure and high RPM low pressure variants. They perform superbly in single as well as double stage. Also available in air-cooled and water-cooled variants.

Models Available:
KE Series, PRT Series, 2KHC Series, INDIANA Series.
Capacity: Max 55,000 m³/hr + Pressure 1Kg

TRI LOBE BLOWERS
The Tri Lobe Blower, with rotor tips disposed at 120° on each rotor, causes the rotor set to be much more resistant to angular deflection along its length. Five bearing technology makes the blower more robust and sturdy. Also available in air-cooled and water-cooled variants.

Models Available:
K3H Series Capacity: Max 64,000 m³/hr + Pressure 1Kg

TRUCK MOUNTED BLOWERS
The unique DRY-HIGH VACUUM PUMP (Positive Displacement Type) is capable of attaining 28”Hg vacuum and eliminates the need for water or oil sealing. The 3HVP series pumps do not require Heat Exchanges and are suitable for inlet temperatures without use of Pre-coolers.

Models Available:
3HVP Series
To ensure complete safety and quality we recommend our high quality range of accessories which includes:

- Acoustic Hood
- Common Base Frame
- Slide Rail
- Suction Filter
- Discharge Silencer
- Motor Pulley
- Blower Pulley
- V-Belt / Coupling
- V-Belt / Coupling Guard
- Pressure Gauge with Isolation Valve & Syphon
- Safety Valve
- Non Return Valve
- Anti Vibration Pads
- Expansion joint/Bellow
- Foundation Bolts
- Gasket
- Filter choking Device

**KAYPAC I**
Standard Arrangement 3” to 24”
This arrangement is available for frame sizes ranging from 3” to 16” for oil free compression of air and gases.
Flow Rate: From 5 m³/hr to 55,000 m³/hr

**KAYPAC II**
Standard arrangement (available at an extra cost)
This compact arrangement with very low noise & vibration is available for frame size ranging from 6” to 12” for oil free compression of air and gases.
Flow Rate: From 400 m³/hr to 10,000 m³/hr
QUALITY YOU CAN RELY ON

PRODUCT DESIGN FEATURES

**Solid Design:** Our compact, sturdy design is engineered for continuous service when operated in accordance with speed and pressure ratings. Timing gears are secured to the shaft with taper mounting and locknuts. This eliminates the need for unreliable taper pins, aiding field maintenance. Spherical roller bearings are engineered for reliable and long service life. All rotating parts like impellers and pulleys are dynamically balanced to avoid undue load on the bearings.

**Efficiency and Reliability:** Each KAY Compressor has computer calculated profiles and is precision machined on the latest CNC equipment assuring close tolerance between the impellers, casing and side plates to minimize "back slippage" of air, improving efficiency and reliability.

**Smooth Operation:** Precision hardened and ground helical steel gears are used to ensure smooth, silent running and accurate timing of the rotating impellers. A controlled lubrication system is provided to ensure efficient operation without wastage of energy in the gear case.

**High Standards:** Performance tests are conducted on all our machines and components as per BS standard 15/71 Part II under the most arduous design conditions before dispatch. Kay Rotary Twin Lobe Compressors are designed, manufactured and supported with maintenance as per ISO 9001 standards.

**Stringent Tests:** Measurement of characteristics (flow, pressure, power) and vibration measurements analysis is taken and recorded. Noise level measurement can be conducted after the installation of the compressor at site. We also offer quality control program, technical documentation, special calculations or certificates of compliance to ASTM, DIN AND ISI codes, if required.

**A Complete Solution:** KAY Compressors may be supplied as self-contained package unit consisting of base frame, safety valve, suction filter, suction silencer, discharge silencer, non-return valve, pressure gauge, anti-vibration pads, v-belts, v-belt guards, drive and driven pulleys, Set of special tools, foundation bolts and interconnecting pipings with flange or alternatively with any of the above items, specified as optional equipment.

**Eco-Friendly Machines:** Our research for energy conservation, safety during operation and optimization of the manufacturing processes is undertaken to meet your expectations, while preserving the environment and natural resources. Committed to persistent innovative effort, KAY engages important resources for research and development to offer state-of-the-art solutions.
**MATERIALS OF CONSTRUCTION**

**Highest quality material backed by superior Workmanship**

**CASING** - Newly Designed monolithic style, made of Cast Iron Grade 26, including extra deep rib sections for greater rigidity under vacuum or pressure service.

**IMPELLERS** - Accurately machined for close tolerance operation, dynamically balanced for smooth running and lower bearing loads. I.S. 210 Grade FG 260 is used in standard model, however in higher speed of compressors, Forged/S.G. iron material is used with integral shaft arrangement.

**TIMING GEARS** - Alloy Steel, heat treated taper bore, helical ground cut for greater strength and quieter operation. Easy fitting with hydraulic jack ensures longer life of bearings.

**BEARINGS** - Heavy Duty spherical roller bearings, double row for maximum loading. The bearings are held in machined cartridges. Gears and bearings are fixed axially against shaft shoulder to control thrust load and maintain end clearance.

All blowers components are being machined on state-of-the-art latest CNC machines.
With clients across India, and other Asian European and Middle Eastern Countries our high-quality compressors are widely used in varied industries like:

- Cement / Thermal Plants (FGD, CBFC, Lime Klin, Ash Handling, Fluidizing)
- Metallurgy
- Waste Water Treatment Plants
- Sugar Plants
- Steel Plants
- Ice Factories
- Gas Plants / COG Gas Booster
- Chemical Plants
- Hospitals
- Tanning Industry
- Pharmaceutical Industry
- Food & Agriculture Industry
- Glass Industry
- Power Plants
- Paper Industry
- GLS Lamp Plants
- Textile Industry
- Bulk Transport Vehicles
- Detergents
- Wood
- Mining
- Nuclear Plants
- and many more...

Applications:
- Pressure / Vacuum: Gases (H₂, He, CO₂, COG, Bio Gas etc. as Gas Boosters)

Enabling the leading organizations to grow bigger

We have achieved our dominant position through continued investment in engineering personnel, latest CNC machines advanced inspection and testing technologies.

Our air blower solutions were chosen by public sector giants like ‘Nuclear Power Corporation Of India’ and ‘Bhabha Atomic Research Centre’ to substitute their existing fully imported blowers. This is a true testimony to our finest quality yet cost effective solutions, that have also marked their presence in the rapidly growing and highly demanding international markets across industries. Apart from this, many major Indian corporate use our products for their specific needs.
### PERFORMANCE DATA CALIFORNIA PRT SERIES

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### PERFORMANCE DATA 2KHC SERIES

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Note:
1. All horsepower ratings are based on inlet air temperature of 70°F, 14.7 psig, specific gravity of 1.0.
2. Performance testing as per BS 1571 Part II.
3. Above 7300 MMVC pressure water cooled arrangement shall be provided.
4. All specifications are subject to change without notice.
### PERFORMANCE DATA - K3H NEW SERIES

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**Note:**
1. The above ratings are based on inlet air temperature of 104°F, ambient pressure 1 kg/cm², specific gravity 1.0.
2. Performance testing as per BS 1571 Part II.
3. Above 7000 MMWG pressure, water cooled arrangement shall be provided.
4. All specifications are subject to change without notice.
REGISTERED OFFICE
KAY INTERNATIONAL LIMITED
Plot No-64, Phase-5, Sec-53, Industrial Estate Kundli, Sonepat (Haryana) – 131028 INDIA.
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SALES CUM SERVICE CENTERS

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durg@kayblowers.com

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KIL/BLR/201701