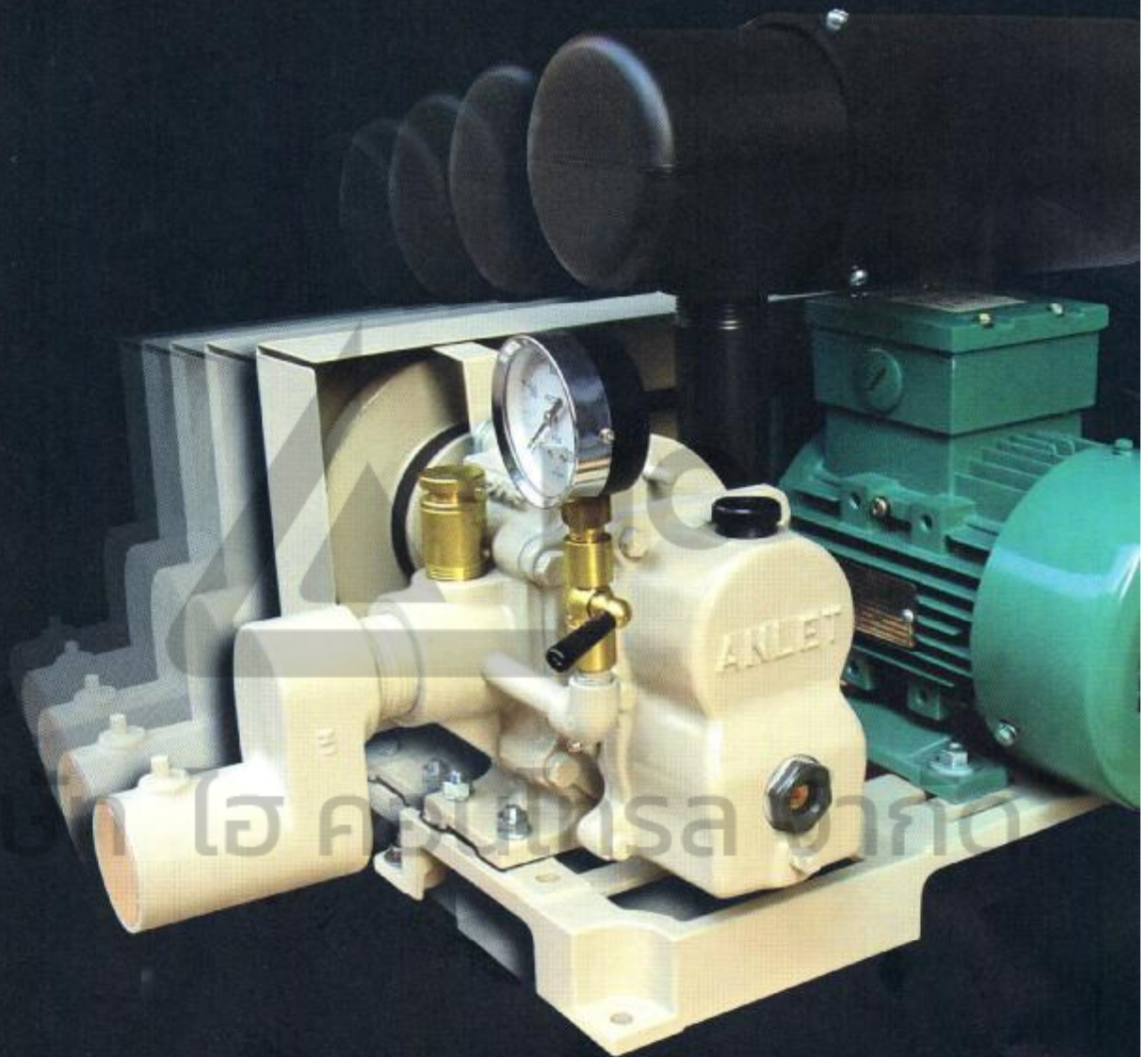


# ANLET

COMPACT ROOTS BLOWER MODEL : BSR-A



KPMG REGISTRAR CR-E2049 EMS Accreditation RE013  
ISO 14001 Certificate received (Head Office Plant)





## Company profile

|               |  |
|---------------|--|
| Company name  | ANLET Co., Ltd.  |
| Head Office   | 1-24 Takawa, Kunita-cho, Aomori-ken, Aomori Prefecture |
| Establishment | 1964   |
| Capital       | 78 million yen   |
| Employees     | 200 (as of January 2005)                               |
| Main products | Root blower, Roots pump, Roots vacuum pump             |

## BSR-A Type

### Three-Lobes Blower

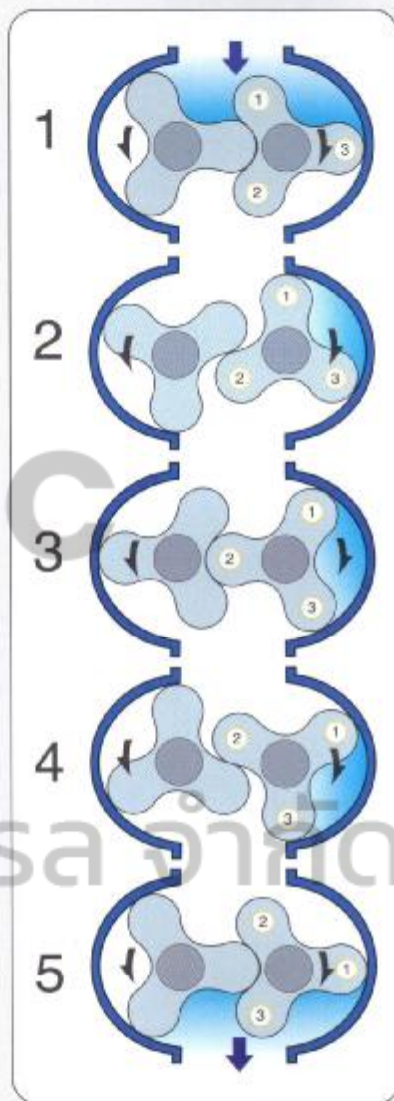
Initially, nearly all blowers were of the two-lobed type, and although the design of the three-lobed type was understood to offer the advantages lower noise and vibration as well as greater efficiency, construction was difficult. Anlet alone has been able to produce high-performance yet low-cost blowers using a patented three-lobe rotor machining tool.

### ANLET Blower

1. The three-lobes blower with helical casing offers a virtually
2. no noise, no vibration operation.

There is no oil mixing, so the air obtained is clean, with no spraying of oil mist to soil the environment.

3. The rotor and shaft have been combined as a single unit, and because there is no wear, the performance of the blower does not change over time, permitting long-term continuous operation.
4. High-speed, high performance applications are possible.
5. Design is simple and compact. The special bearings ensure outstanding durability and maintenance is easy to conduct.
6. The unit is equipped with a gear oil overshooter, to prevent any oil leakage problems.
7. The device can be used in conditions ranging from strong vacuum to high pressure.
8. Land and submersible types have been produced to meet required application.
9. Small quantities of slurry or water mixtures do not adversely effect the blower.
10. Strong vacuum possible even with wet type, much less water required.



### Operating Principle

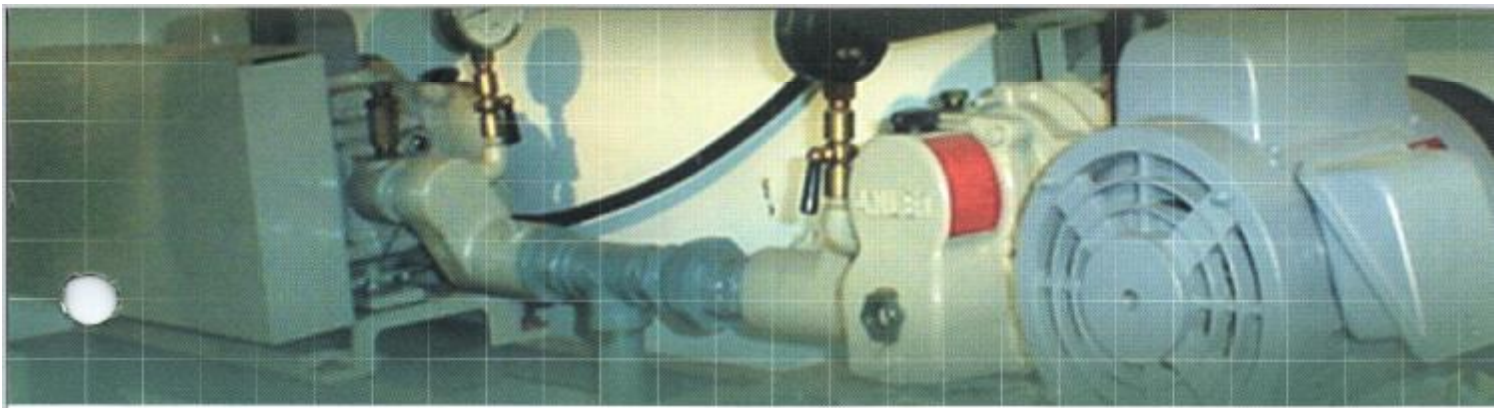
The blower is a displacement blower, and sends a fixed amount of air in proportion to its rotation speed. With the three-lobed rotors, the two rotors make six intake and exhaust cycles per revolution, and because the air has less pulses than with the two-lobed type, fluctuations in load are small, mechanical strength is high, and less noise and vibration are generated. Figure 1 shows the operation principle.

While the two three-lobed rotors mounted on two parallel shafts maintain only a very small clearance between themselves and the inner surface of the oval casing operating chamber

and between each other, they are rotated in opposite directions at an equal speed, moving a fixed volume of the air enclosed by the casing and rotors from the intake side to the output side.

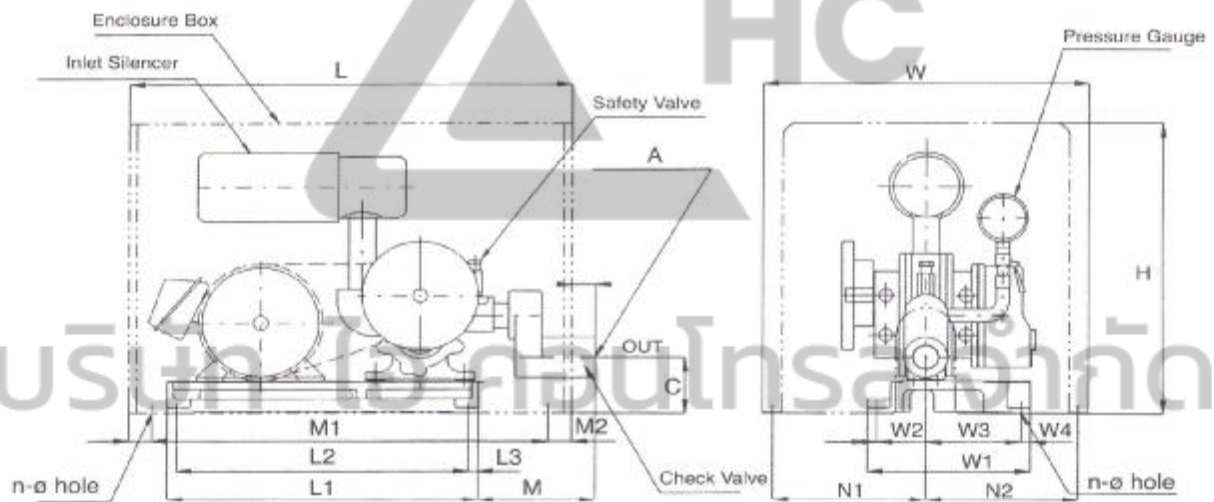
Because each rotor phase is synchronized correctly by a timing gear, there is no contact. This permits high speed and eliminates the need for internal lubrication. Moreover, the simple design, easy handling, and stable performance make possible a wide range of applications.





| Model   | Bore | Motor (Kw) | RPM  | Capacity (l/min)    |                     |                     |
|---------|------|------------|------|---------------------|---------------------|---------------------|
|         |      |            |      | 10kPa<br>(1020mmAq) | 20kPa<br>(2040mmAq) | 30kPa<br>(3060mmAq) |
| BSR 32A | 32A  | 0.75       | 2300 | 550                 | 500                 | 450                 |
|         |      | 0.75       | 2600 | 700                 | 650                 | 600                 |
|         |      | 1.5        | 3000 | 850                 | 800                 | 750                 |

• Drawing 1 (MODEL : BSR 32A)



| MODEL   | KW   | A                 | C  | H   | L   | L1  | L2  | L3 | M   | M1  | M2 | N1  | N2  | W   | W1  | W2 | W3  | W4 | n-ø hole | (kg)<br>Weight |
|---------|------|-------------------|----|-----|-----|-----|-----|----|-----|-----|----|-----|-----|-----|-----|----|-----|----|----------|----------------|
| BSR 32A | 0.75 | Rc1 $\frac{1}{4}$ | 77 | 480 | 600 | 400 | 376 | 12 | 155 | 500 | 50 | 215 | 255 | 500 | 210 | 73 | 113 | 12 | 4-ø10    | 41             |
|         | 1.5  | Rc1 $\frac{1}{4}$ | 77 | 480 | 600 | 400 | 376 | 12 | 155 | 500 | 50 | 215 | 255 | 500 | 210 | 73 | 113 | 12 | 4-ø10    | 43             |

\* Weight includes Motor & Enclosure Box

\* Standard Accessories : Base, Belt Cover, V-Belt, V-Pulley, Inlet Silencer, Safety Valve, Check Valve, Pressure Gauge

\* Option Accessories : Enclosure Box