TBV SERIES 2026.08

微信公众号
WeChat public account

官方网站
Website

服务热线：400-080-2622
Service hotline

www.cn-tanabe.com

喷油螺杆空压机
Oil-Injected Screw Compressor



TA系列螺杆式空压机
TA Series Screw Air Compressor
7.5~850kW



至美系列螺杆式空压机
Tech Master Series Screw Air Compressor
7.5~75kW



激光切割机专用空压机
Laser Cutting Air Compressor
11~37kW

无油空压机
Oil-Free Compressor



TN系列干式无油螺杆空压机
TN Series Dry Oil-Free Screw Air Compressor
37~630kW



TH系列离心式空压机
TH Series Centrifugal Air Compressor
100~15000kW



TW系列水润滑无油空压机
TW Series Water-Lubricated Air Compressor
11~470kW



TC系列磁悬浮空压机
TC Series Maglev Air Compressor
75~400kW

真空泵
Vacuum Pump



TB系列微油螺杆真空泵
TB Series Oil-Injected Screw Vacuum Pump
5.5~110kW



TBV系列旋片真空泵
TBV Series Rotary Vane Vacuum Pump
0.75~7.5kW



TBD系列无油真空泵
TBD Series Oil-Free Vacuum Pump
1.5~75kW

定制产品
Customized Products



二氧化碳专用压缩机
CO_2 Compressor



无油氮气增压机
Dry Oil-free N_2 Booster



干式无油空气增压机
Dry Oil-free Air Booster



TS系列中高压螺杆增压机
TS Series Medium/High Pressure Booster

运营中心
Operations Center

深圳田边精机有限公司
SHENZHEN TECBELL PRECISION MACHINERY CO.,LTD

地址：深圳市宝安区新桥街道中心路 102 号时代中心 A 座 12 层
Address: 12th Floor, Tower A, Times Center Building, No.102 Central Road, Xinqiao Street, Bao'an District, Shenzhen

制造中心
Manufacturing Center

田边（福建）智能装备有限公司
TECBELL (FUJIAN) INTELLIGENT EQUIPMENT CO.,LTD

地址：福建省武平县武平工业园区环城南路98号
Address: No.98, Huancheng South Road, Wuping Industrial Park, Wuping County, Fujian Province

田边精機 TECBELL



TBV系列 TBV series

旋片真空泵
Rotary vane vacuum pump

关于我们 ABOUT US

田边精机于2006年3月在深圳前海创立，并于2007年相继注册运营“田边”“TECBELL”品牌。公司立足国际化视野，是集空气压缩机系统及真空负压系统产品研发、制造、销售、服务为一体的大型国际化公司。

Tecbell Precision Machinery was founded in March 2006 in Qianhai, Shenzhen. In 2007, the company officially registered and launched the “TECBELL” brands. With a global perspective, Tecbell has developed into a large-scale international enterprise integrating R&D, manufacturing, sales, and service of compressed air systems and vacuum systems.

企业产品 Enterprise Products

田边精机产品线涵盖永磁变频单双级螺杆式空压机、干式无油螺杆空压机、离心式空压机、水润滑无油空压机、螺杆真空泵、旋片真空泵、无油真空泵、磁悬浮空压机、磁悬浮鼓风机、激光切割机专用空压机、中高压螺杆增压机等系列节能产品。

Tecbell offers a comprehensive portfolio of energy-efficient solutions, covering permanent magnet variable frequency screw air compressors (single-stage and two-stage), oil-free and centrifugal compressors, advanced vacuum systems, and magnetic levitation (maglev) compressors and blowers. Our products also include specialized solutions for laser cutting applications, as well as medium- and high-pressure screw booster compressors.

生产基地 Production Base

田边精机在福建武平县兴建生产基地，成立田边(福建)智能装备有限公司，集自主研发、制造、销售、服务为一体;为进一步满足市场需求，田边再次投资建造一座占地面积40000㎡的现代化压缩机制造中心。

Tecbell is establishing a production base in Wuping County, Fujian Province, through the newly founded Tecbell (Fujian) Intelligent Equipment Co., Ltd. This integrated facility encompasses independent R&D, manufacturing, sales, and after-sale service. To further meet market demands, Tecbell is investing in construction of a modern compressor manufacturing center covering over 40,000 square meters.



2006
成立
Established

40000㎡
现代化压缩机制造中心
Modern Compressor Manufacturing Center

20+
国内办事处
Domestic Offices Across China

100+国家
countries
核心业务遍布全球
Core Business Presence in Worldwide

打造高精尖的产品体系

Develop a high-end,
precision-engineered product portfolio

让中国智造的气体品牌走向世界

Promote Chinese intelligent manufacturing
in the global compressed air industry

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TBV Single-Stage Vacuum Pump

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TBV 双级真空泵
TBV Two-Stage Vacuum Pump

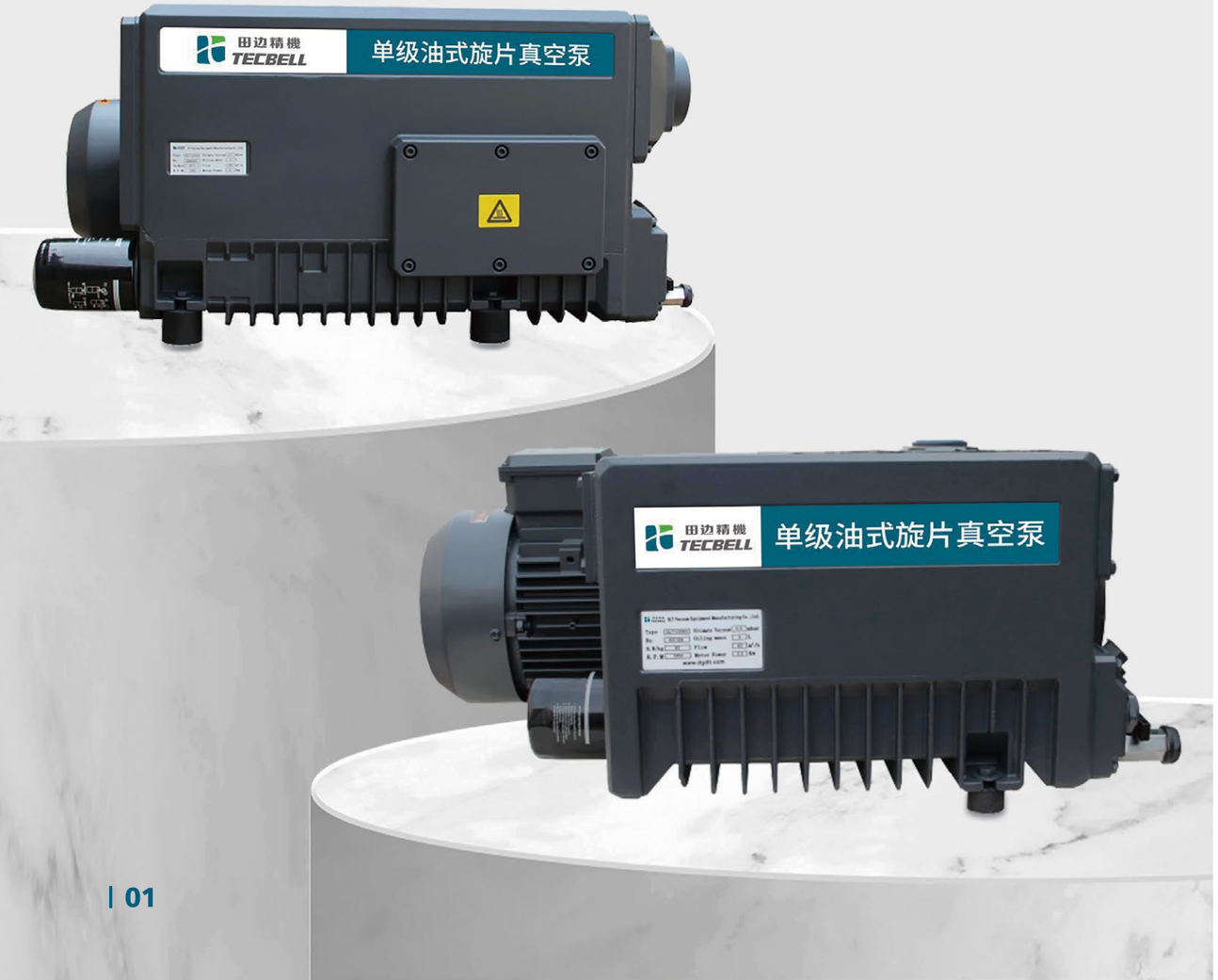
TBV-080/275 Ⅱ 08

单级油式旋片真空泵

Single-stage oil-sealed rotary vane vacuum pump

单级旋片真空泵真空度稳定、实用性强、结构简单。广泛应用于真空包装、脱泡、浸渗、浓缩、干燥真空吸附、吸盘等行业。

The single-stage rotary vane vacuum pump offers stable vacuum performance, strong practicality, and a simple structure. It is widely used in industries such as vacuum packaging, degassing, impregnation, concentration, drying, vacuum adsorption, and suction cup applications.



TBV-025/040

高可靠性

High Reliability



- 高品质油雾过滤器有效地解决喷油、冒烟，延长产品寿命。
- 密封件采用氟橡胶材料，提高抗腐蚀性，解决漏油问题。
- 日本马扎克数控加工中心高精度加工，确保产品的高可靠性。
- 工业造型设计，美观、大方。
- 泵与电机整体式设计，更轻、更小。

- High-quality oil mist filters effectively eliminate oil spray and smoke, extending the product's service life.
- Sealing components are made of fluororubber for enhanced corrosion resistance and to prevent oil leakage.
- Precision machining with Japan's Mazak CNC equipment ensures exceptional product reliability.
- Industrial-grade design offers a clean, modern, and professional appearance.
- Integrated pump and motor design provides a more compact and lightweight structure.

技术参数

Technical Specifications

型　号 Model	TBV-025	TBV-040
分　类 Type / Category	单级旋片泵 Single-Stage Rotary Vane Pump	单级旋片泵 Single-Stage Rotary Vane Pump
额定流量(m^3/h) Rated Flow Rate (m^3/h)	25	40
开气镇阀极限真空度(mbar) Ultimate Vacuum with Gas Ballast Valve Open (mbar)	0.5	0.5
关气镇阀极限真空度(mbar) Ultimate Vacuum with Gas Ballast Valve Closed (mbar)	0.1	0.1
电机功率(kW) Motor Power (kW)	0.75	1.5
进气口连接 Inlet Connection	G 3/4"	G1 1/4"
排气口连接 Outlet Connection	/	G1 1/4"
转　速(rpm) Rotational Speed (rpm)	2850	1450
噪　音(db) Noise Level (dB)	62	62
尺寸mm(长x宽x高) Dimensions (L × W × H) in mm	324x246x213	615x285x265
重量(KG) Weight (kg)	20	43
油量(L) Oil Capacity (L)	1	1.5

TBV-063/100

高可靠性
High Reliability



- 高品质油雾过滤器有效地解决喷油、冒烟，延长产品寿命。
- 密封件采用氟橡胶材料，提高抗腐蚀性，解决漏油问题。
- 多档气镇设计，满足不同客户的真空度要求和水蒸气处理能力。
- 日本马扎克数控加工中心高精度加工，确保产品的高可靠性。
- 工业造型设计，美观、大方。

- High-quality oil mist filters effectively eliminate oil spray and smoke, extending the product's service life.
- Sealing components are made of fluororubber for enhanced corrosion resistance and to prevent oil leakage.
- Multi-stage gas ballast design meets varying vacuum requirements and handles water vapor efficiently.
- Precision machining with Japan's Mazak CNC equipment ensures exceptional product reliability.
- Industrial design for an aesthetic and professional appearance.

技术参数
Technical Specifications

型 号 Model	TBV-063	TBV-100
分 类 Type / Category	单级旋片泵 Single-Stage Rotary Vane Pump	单级旋片泵 Single-Stage Rotary Vane Pump
额定流量(m^3/h) Rated Flow Rate (m^3/h)	63	100
开气镇阀极限真空度(mbar) Ultimate Vacuum with Gas Ballast Valve Open (mbar)	0.5	0.5
关气镇阀极限真空度(mbar) Ultimate Vacuum with Gas Ballast Valve Closed (mbar)	0.1	0.1
电机功率(kW) Motor Power (kW)	2.2	3
进气口连接 Inlet Connection	G1 1/4"	G1 1/4"
排气口连接 Outlet Connection	G1 1/4"	G1 1/4"
转 速(rpm) Rotational Speed (rpm)	1450	1450
噪 音(db) Noise Level (dB)	64	65
尺寸mm(长x宽x高) Dimensions (L × W × H) in mm	650x410x295	700x410x295
重量(KG) Weight (kg)	62	75
油量(L) Oil Capacity (L)	2	2

TBV-160/200/300

高可靠性
High Reliability



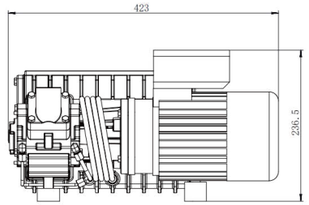
- 高品质油雾过滤器有效地解决喷油、冒烟，延长产品寿命。
- 密封件采用氟橡胶材料，提高抗腐蚀性，解决漏油问题。
- 多档气镇设计，满足不同客户的真空度要求和水蒸气处理能力。
- 日本马扎克数控加工中心高精度加工，确保产品的高可靠性。
- 工业造型设计，美观、大方。

- High-quality oil mist filters effectively eliminate oil spray and smoke, extending the product's service life.
- Sealing components are made of fluororubber for enhanced corrosion resistance and to prevent oil leakage.
- Multi-stage gas ballast design meets varying vacuum requirements and handles water vapor efficiently.
- Precision machining with Japan's Mazak CNC equipment ensures exceptional product reliability.
- Industrial design for an aesthetic and professional appearance.

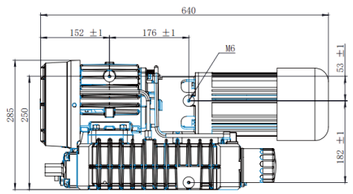
技术参数
Technical Specifications

型 号 Model	TBV-160	TBV-200	TBV-300
分 类 Type / Category	单级旋片泵 Single-Stage Rotary Vane Pump	单级旋片泵 Single-Stage Rotary Vane Pump	单级旋片泵 Single-Stage Rotary Vane Pump
额定流量(m^3/h) Rated Flow Rate (m^3/h)	160	200	300
开气镇阀极限真空度(mbar) Ultimate Vacuum with Gas Ballast Valve Open (mbar)	0.3	0.3	0.3
关气镇阀极限真空度(mbar) Ultimate Vacuum with Gas Ballast Valve Closed (mbar)	0.1	0.1	0.1
电机功率(kW) Motor Power (kW)	4	5.5	7.5
进气口连接 Inlet Connection	G2"	G2"	G2"
排气口连接 Outlet Connection	G2"	G2"	G2"
转 速(rpm) Rotational Speed (rpm)	1450	1450	1450
噪 音(db) Noise Level (dB)	70	72	74
尺寸mm(长x宽x高) Dimensions (L × W × H) in mm	880x485x410	942x485x410	1040x537x410
重量(KG) Weight (kg)	120	140	190
油量(L) Oil Capacity (L)	5	5	8

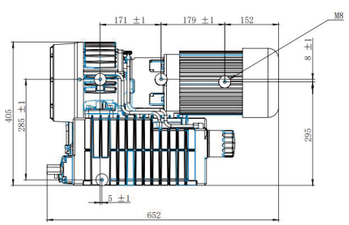
结构尺寸图
Structural Dimension Drawing



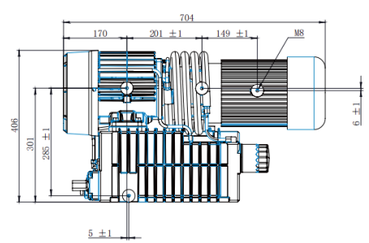
TBV-025



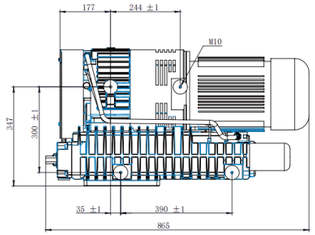
TBV-040



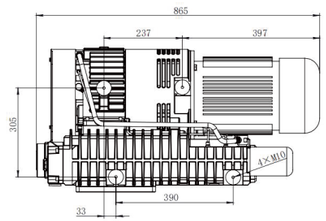
TBV-063



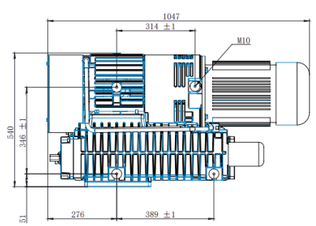
TBV-100



TBV-160



TBV-200



TBV-300

满足不同行业的需求
Meets the Demands of Diverse Industries



风能
Wind Energy



太阳能
Solar Energy



石油
Petroleum



电力工程
Power Engineering



汽车
Automotive



玻璃
Glass



航天航空
Aerospace



塑料与橡胶
Plastics & Rubber



实验室
Laboratories



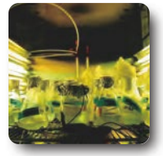
电池
Batteries



硫化
Vulcanization



医疗
Medical



滤油机
Oil Filtration



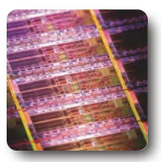
机械臂
Machinery



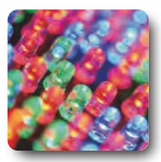
废物处理
Waste Management



冶金
Metallurgy



半导体
Semiconductors



LED
LED



印刷
Printing



木工机械
Woodworking Machinery



吸吊
Lifting & Suction



包装
Packaging



镀膜
Coating



表面处理
Surface Treatment



吸塑
Thermoforming

双级油式旋片真空泵
Double-Stage Oil-Sealed Rotary Vane Vacuum Pump

双级旋片真空泵高效节能、真空度稳定、噪音小、 震动低、安全环保。广泛应用于真空镀膜、微电子、光电半导体、封装测试、真空含浸、等离子清洗等行业 。

Double-stage oil-sealed rotary vane vacuum pump features high efficiency and energy saving, stable ultimate vacuum, low noise, minimal vibration, and is safe and environmentally friendly. It is widely used in vacuum coating, microelectronics, optoelectronic semiconductors, packaging and testing, vacuum impregnation, plasma cleaning and other industries.



TBV-080II/275II
卓越性能
Exceptional Performance



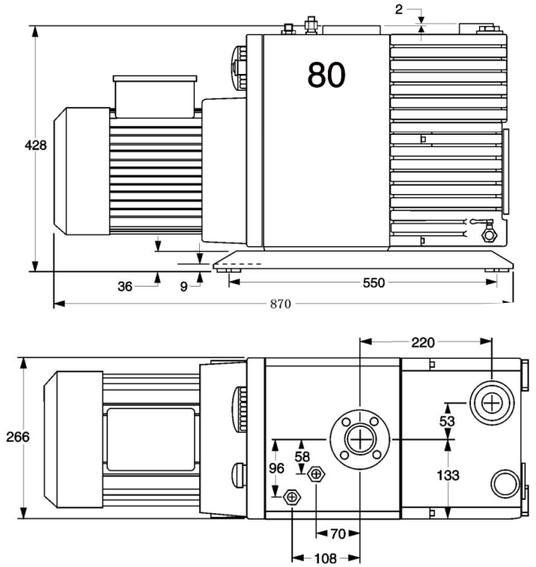
- 弹簧采用不锈钢材料，具有较高的耐腐蚀性。
- 两档气镇设计，更方便不同工艺对蒸汽排出量的需求。
- 自动防返油阀设计，更可靠地保护您的真空系统在停机后免受油的污染。
- 内置齿轮泵及恒压供油机构强制供油，高吸气压强下也能稳定可靠运行。
- 零部件数量少，重复性好，便于维护及保养。

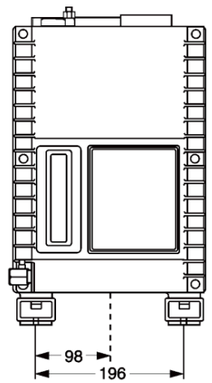
- Springs made of stainless steel provide enhanced corrosion resistance.
- Two-stage gas ballast design allows flexible adjustment to meet varying steam exhaust requirements for different processes.
- Automatic anti-return oil valve ensures reliable protection of your vacuum system against oil contamination after shutdown.
- Built-in gear pump and constant-pressure oil supply mechanism deliver forced lubrication, enabling stable and reliable operation even under high intake pressure.
- Fewer components and consistent repeatability simplify maintenance and servicing.

技术参数
Technical Specifications

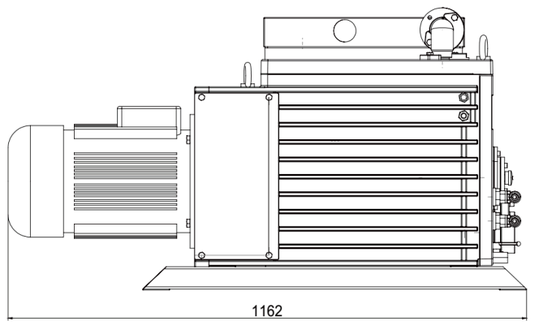
型　号 Model	TBV-080 II	TBV-275 II
分　类 Type / Category	双级旋片泵 Double-Stage Rotary Vane Pump	双级旋片泵 Double-Stage Rotary Vane Pump
额定流量(m^3/h) Rated Flow Rate (m^3/h)	80	275
开气镇阀极限真空度(mbar) Ultimate Vacuum with Gas Ballast Valve Open (mbar)	$5x10^{-3}$	$5x10^{-3}$
关气镇阀极限真空度(mbar) Ultimate Vacuum with Gas Ballast Valve Closed (mbar)	$4x10^{-4}$	$5x10^{-4}$
电机功率(kW) Motor Power (kW)	3	7.5
进气口连接 Inlet Connection	G1 1/2"	G2 1/2"
排气口连接 Outlet Connection	G1"	G1 1/2"
转　速(rpm) Rotational Speed (rpm)	1450	1450
噪　音(db) Noise Level (dB)	70	70
尺寸mm(长x宽x高) Dimensions (L × W × H) in mm	870x266x428	1162x599x633
重量(KG) Weight (kg)	125	225
油量(L) Oil Capacity (L)	5	18

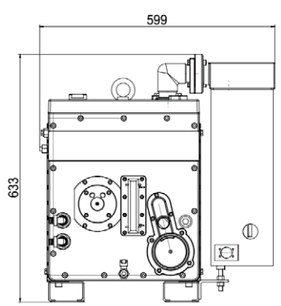
结构尺寸图
Structural Dimension Drawing





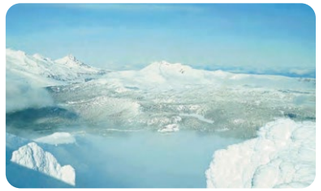
TBV-080 Ⅱ





TBV-275 Ⅱ

满足不同行业需求
Meets the Demands of Diverse Industries



制冷行业：
Refrigeration Industry :

空调、冰箱、饮水机、压缩机的自动抽空线(全套配件供选购)；冷媒注入机；氦检漏系统、氦回收系统等。

Air conditioners, refrigerators, water dispensers, automatic evacuation lines for compressor production (complete accessories available for purchase); refrigerant charging machines; helium leak detection systems, helium recovery systems, etc.



医疗行业：
Medical Industry :

等离子灭菌器、真空冷冻干燥、真空搅拌等针对等离子灭菌器排气中有大量的H_2O_2气体及水蒸气的特点。

Plasma sterilizers, vacuum freeze drying, vacuum stirring, etc., designed to handle high H_2O_2 gas and water vapor content in plasma sterilizer exhaust.



各种分析仪器：
Analytical Instruments :

光谱仪、色谱仪、理化分析仪器、电子显微镜、检漏仪等(如要求噪音低及环境洁净,建议加装油雾过滤器)。

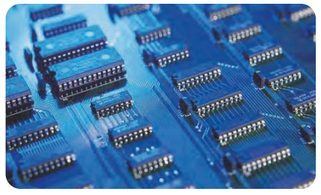
Spectrometers, chromatographs, physicochemical analyzers, electron microscopes, leak detectors, etc. (For applications requiring low noise and clean environment, oil mist filters are recommended.)



电力行业：
Power Industry :

SF_6回收、检测仪器、滤油机等。

SF_6 recovery and testing instruments, oil filtration machines, etc.



电子、半导体行业：
Electronics & Semiconductor Industry :

真空烘箱、手套箱；蓝宝石炉、多晶炉、单晶炉、真空退火、淬火炉、真空烧结炉、热处理炉等等；蒸发镀、离子镀、溅射设备；液晶注入；等离子清洗；作为罗茨泵、扩散泵、分子泵、低温泵等的前级辅助泵。

Vacuum ovens, glove boxes; sapphire crystal growing furnaces, polycrystalline furnaces, monocrystalline furnaces, vacuum annealing furnaces, quenching furnaces, vacuum sintering furnaces, heat treatment furnaces, etc.; evaporation coating, ion plating, sputtering equipment; LCD injection; plasma cleaning; as backing pumps for roots pumps, diffusion pumps, molecular pumps, cryogenic pumps, etc.