TS SERIES 2026.08

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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

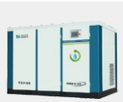
无油空压机
Oil-Free Compressor



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

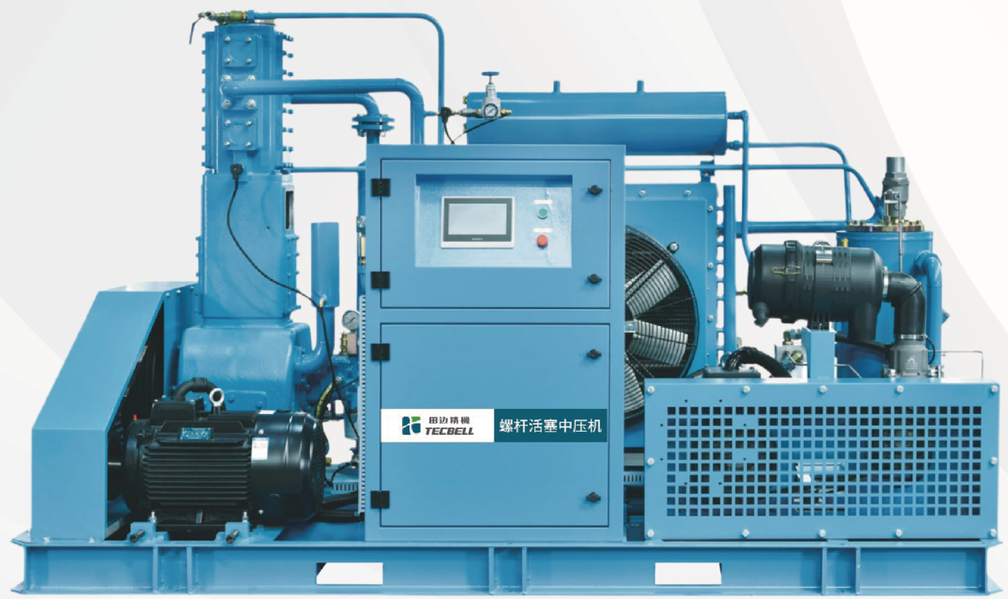
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制造中心
Manufacturing Center

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



TS系列 TS SERIES

中高压螺杆增压机
Medium-High Pressure Booster

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

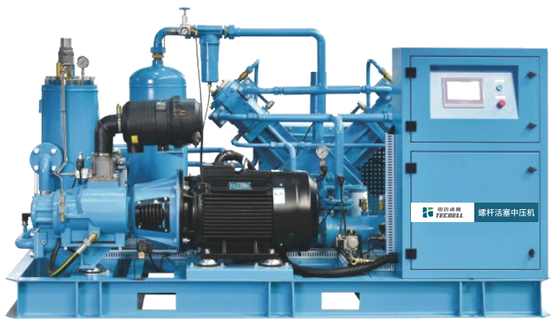
40000㎡
现代化压缩机制造中心
Modern Compressor Manufacturing Center

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

中高压螺杆增压机

田边螺杆增压机为二级压缩和三级压缩设计，一级采用螺杆压缩到1.0MPa，压缩效率高、稳定、节能，压缩后通过后部冷却器冷却、过滤后进入二级活塞式压缩机压缩到4.0MPa，通过分段压缩，分段冷却，分段过滤大大提高了压缩效率，做到24小时不间断工作。



Medium-High Pressure Booster

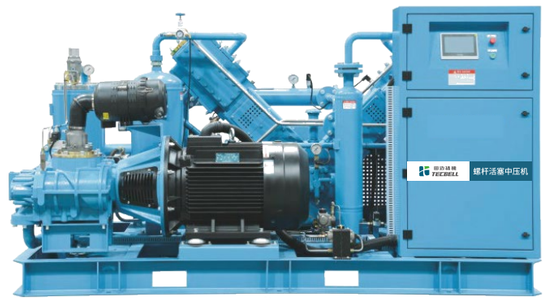
The TECBELL booster is designed for two-stage and three-stage compression. In the primary stage, air is compressed to 1.0 MPa by a screw compressor, which ensures high efficiency, stability, and energy savings. The compressed air is then cooled by a rear cooler and filtered before entering the secondary piston compressor, where it is compressed to 4.0 MPa. This approach of multi-stage compression, inter-stage cooling, and inter-stage filtration significantly enhances overall compression efficiency, enabling 24-hour non-stop operation.

技术参数
Technical Specifications

型号 Models	TSE-26A/40	TSE-37A/40	TSE-67W/40
装机功率(kW) Power	26	37	67
排气压力(MPa) Pressure	4.0	4.0	4.0
排气量(m^3/min) Flow rate	2.5	3.0	6.0
排气出口尺寸 Outlet size	RC1"	RC1"	DN40
冷却水进出口尺寸 The inlet and outlet size of cooling water	/	/	RC-1-1/2"
重量(kg) Weight	1500	1600	2500
冷却水量(t/h) Water consumption	/	/	25
外形尺寸(mm) Dimension	2200*1200*1300	2400*1350*1300	2600*1500*1300

中高压螺杆无油增压机

整体管道系统采用不锈钢管道，保证气体质量，减少因管道生锈造成气阀组件的故障，增加效率；机组采用变频驱动技术，运行成本与能耗显著降低，低维护成本，低无功消耗，在空载和满载之间实现变频自动的调节，节约能源；双作用的高效无泄漏压缩，降低部件磨损，增强寿命。



Medium-High Pressure Oil-Free Booster

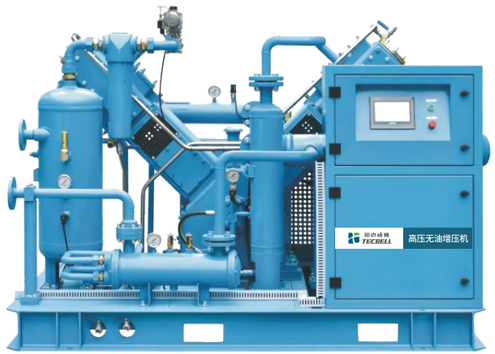
The entire pipeline system utilizes stainless steel pipes to ensure gas quality, reduce valve component failures caused by pipeline rust, and improve efficiency. The unit employs variable frequency drive technology, significantly lowering operating costs and energy consumption, with reduced maintenance requirements and low reactive power consumption. It automatically adjusts frequency between idle and full load to save energy. The double-acting, high-efficiency leak-free compression design minimizes component wear and extends service life.

技术参数
Technical Specifications

型号 Models	TSS-45A/40	TSS-67W/40	TSS-85W/40	TSS-120W/40	TSS-145W/40	TSS-165W/40	TSS-220W/40
装机功率(kW) Power	45	67	85	120	145	165	220
排气压力(MPa) Pressure	4.0	4.0	4.0	4.0	4.0	4.0	4.0
排气量(m^3/min) Flow rate	4.0	6.0	8.0	12	14	16	20
排气出口尺寸 Outlet size	RC1"	DN40	DN40	DN40	DN40	DN40	DN50
冷却水进出口尺寸 The inlet and outlet size of cooling water	/	RC-1-1/2"	RC-1-1/2"	RC-2 "	RC-2 "	RC-2 "	RC2-1/2 "
重量(kg) Weight	2100	2800	3000	5200	5400	5600	6500
冷却水量(t/h) Water consumption	/	30	35	40	45	45	60
外形尺寸(mm) Dimension	2800*1500*1700	2900*1500*1500	2900*1500*1500	3600*1800*2000	3600*1800*2000	3900*2100*2000	4380*2250*2000

中高压无油活塞增压机

增压机主要原理是在原有一定压力范围内的压缩空气通过增压机再提高到需要的压力，主要增压压力范围为0.2MPa开始增压，最高压力可增压至8MPa，单机气量从0.1m³/min到40m³/min，如需更大气量，更高压力可定制。



Medium-High Pressure Oil-Free Piston Booster

The main principle of a booster compressor is to further increase the pressure of compressed air that is already within a certain pressure range to the required level. The boosting typically starts from 0.2 MPa and can reach a maximum pressure of up to 8 MPa. The single-unit airflow ranges from 0.1 m³/min to 40 m³/min. For larger flow rates or higher pressures, customized solutions are available.

技术参数
Technical Specifications

型号 Models	TSV-30W/6-40 Ⅱ	TSV-37W/6-40Ⅲ	TSV-30W/6-55 Ⅱ	TSV-45W/6-55 Ⅲ	TSV-55W/6-60 Ⅲ
装机功率(kW) Power	30	37	30	45	55
进气压力(MPa) Pressure	0.6	0.6	0.6	0.6	0.6
排气压力(MPa) Inlet pressure	4.0	4.0	5.5	5.5	6.0
排气量(m³/min) Flow rate	3.4	5.0	3.4	5.0	6.7
排气出口尺寸 Outlet size	DN40	DN40	DN25	DN40	DN40
冷却水进出口尺寸 The inlet and outlet size of cooling water	DN40	DN40	DN40	DN40	DN40

中高压工艺无油活塞增压机

增压机可以压缩各种气体:空气、氮气、氧气、气、氨气、气、氧化碳等，不同气体运用需要特别说明，并特别定制。



Medium-High Pressure Oil-Free Piston Booster Compressor

This booster compressor is compatible with various gases such as air, nitrogen, oxygen, argon, ammonia, helium, and carbon dioxide. Specific customization is mandatory for different gas types to ensure safety and performance.

技术参数
Technical Specifications

型号 Models	TSV-30W/8-40 Ⅱ	TSV-55W/8-40Ⅲ	TSD-132W/8-40	TSM-250W/8-40
装机功率(kW) Power	30	55	132	250
进气压力(MPa) Pressure	0.8	0.8	0.8	0.8
排气压力(MPa) Inlet pressure	4.0	4.0	4.0	4.0
排气量(m³/min) Flow rate	6.0	16	30	60
排气出口尺寸 Outlet size	DN40	DN40	DN50	DN80
冷却水进出口尺寸 The inlet and outlet size of cooling water	DN40	DN40	DN50	DN80

二级活塞压缩机

采用风冷冷却系统，高效的中间及后冷冷却器，整机结构紧凑。压缩机设计有低油位保护系统，适时地检测油位，一旦缺油实行停机保护，机组可选配储气罐(标准机器出厂不配气罐)。



Two-Stage Piston Compressor

The compressor adopts an air-cooling system with efficient intercooler and aftercooler, ensuring a compact overall structure. It is equipped with a low oil level protection system that continuously monitors the oil level and automatically shuts down the unit in case of oil deficiency. An air receiver tank is available as an optional accessory (not included as standard).

技术参数
Technical Specifications

型号 Models	TSH-7A/30Ⅱ	TSH-7A/35Ⅱ	TSH-11A/30Ⅱ
装机功率(kW) Power	7.5	7.5	11
压力(MPa) Pressure	3.0	3.5	3.0
排气量(m^3/min) Flow rate	0.7	0.6	1.0
外形尺寸(mm) Dimension	1360*630*780	1360*630*780	1475*730*910
重量(kg) Weight	310	310	430

二级活塞压缩机

田边精机中高压空气压缩机，现已应用于各种行业、并远销海外。经济、节能是我们的显著特点。压缩机主机所有的气缸都是精密铸件，坚固耐用，在气缸的表面铸有翅片，有利于压缩机 主机的散热。整机占地面积小，不需要特殊的基础安装，为特殊行业所需的高压气源提供多种选择 。



Two-Stage Piston Compressor

TECBELL's medium and high-pressure air compressors are now widely used across various industries and have been exported overseas. Economic efficiency and energy conservation are our distinctive features. All cylinders of the compressor unit are precision castings, robust and durable, with fins cast on the surface of the cylinders to enhance heat dissipation. The machine occupies a small footprint and requires no special foundation for installation, providing multiple options for high-pressure air supply required by specialized industries.

技术参数
Technical Specifications

型号 Models	TSH-15A/30Ⅱ	TSH-18A/30Ⅱ	TSH-22A/30Ⅱ
装机功率(kW) Power	15	18.5	22
压力(MPa) Pressure	3.0	3.0	3.0
排气量(m^3/min) Flow rate	1.2	1.5	2.2
外形尺寸(mm) Dimension	1475*730*910	1490*760*910	1150*860*1600
重量(kg) Weight	430	513	615

三级活塞压缩机

环形阀密封性好，泄漏量小，提高吸气效率降低能耗。压缩机内部装有高效的高压气阀，阀组结合进气口配有4微米的进气滤清器确保压缩机空 气纯净。压缩机整机进排气阀组采用环型阀组件，气流对阀片冲击小，气体流动阻力小，噪音低，寿命长。



Three-Stage Piston Compressor

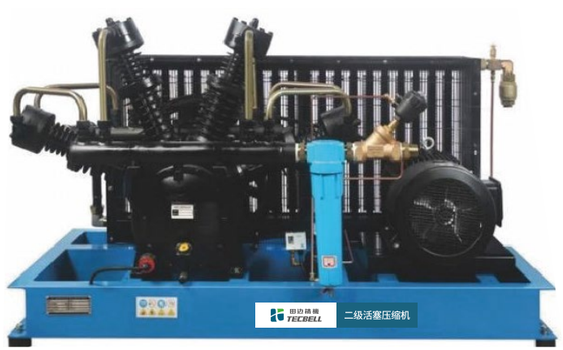
The ring valve ensures excellent sealing with minimal leakage, improving suction efficiency and reducing energy consumption. The compressor is equipped with highly efficient high-pressure air valves internally. The valve assembly, combined with an intake port fitted with a 4-micron air filter, guarantees the purity of the compressed air. The entire compressor utilizes ring valve assemblies for both intake and exhaust, which feature minimal impact on the valve discs by the airflow, low flow resistance, reduced noise levels, and extended service life.

技术参数
Technical Specifications

型号 Models	TSH-11A/40Ⅲ	TSH-15A/55Ⅲ	TSH-15A/105Ⅲ	TSH-22A/40Ⅲ	TSH-30A/40Ⅲ	TSH-44A/40Ⅲ	TSH-60A/40Ⅲ
装机功率(kW) Power	11	15	15	22	30	44	60
压力(MPa) Pressure	4.0	5.5	10.5	4.0	4.0	4.0	4.0
排气量(m^3/min) Flow rate	1.0	1.0	0.6	2.0	3.0	4.0	6.0
外形尺寸(mm) Dimension	1420*840*840	1420*840*840	1420*840*840	1800*850*1110	2020*935*1100	2200*1120*2250	2200*1120*2250
重量(kg) Weight	470	470	470	660	920	1905	1905

增压机系列

压缩机主机采用多级增压压缩设计，配合风冷冷却与皮带驱动方式，具备稳定可靠的产品性能。机组配备独特高级的冷却器，结构合理，散热效果优良；多级增压可以压缩各种气体、空气、氮气、氦气等各种气体。



Booster Series

The compressor unit adopts a multi-stage boosting compression design, combined with an air-cooling system and belt drive, ensuring stable and reliable performance. It is equipped with a uniquely advanced cooler that features a rational design and excellent heat dissipation efficiency. The multi-stage boosting system enables the compression of various gases, including air, nitrogen, helium, and others.

技术参数
Technical Specifications

型号 Models	TSHZ-11A/40Ⅱ	TSHZ-15A/40Ⅱ	TSHZ-22A/40Ⅱ	TSHZ-30A/40Ⅱ
装机功率(kW) Power	11	15	22	30
压力(MPa) Pressure	4.0	4.0	4.0	4.0
排气量(m^3/min) Flow rate	3.0	4.0	6.0	10
外形尺寸(mm) Dimension	935*940*1325	1330*735*1600	2070*1000*1160	2130*1020*1200
重量(kg) Weight	430	460	845	895