TC SERIES 2026.08

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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

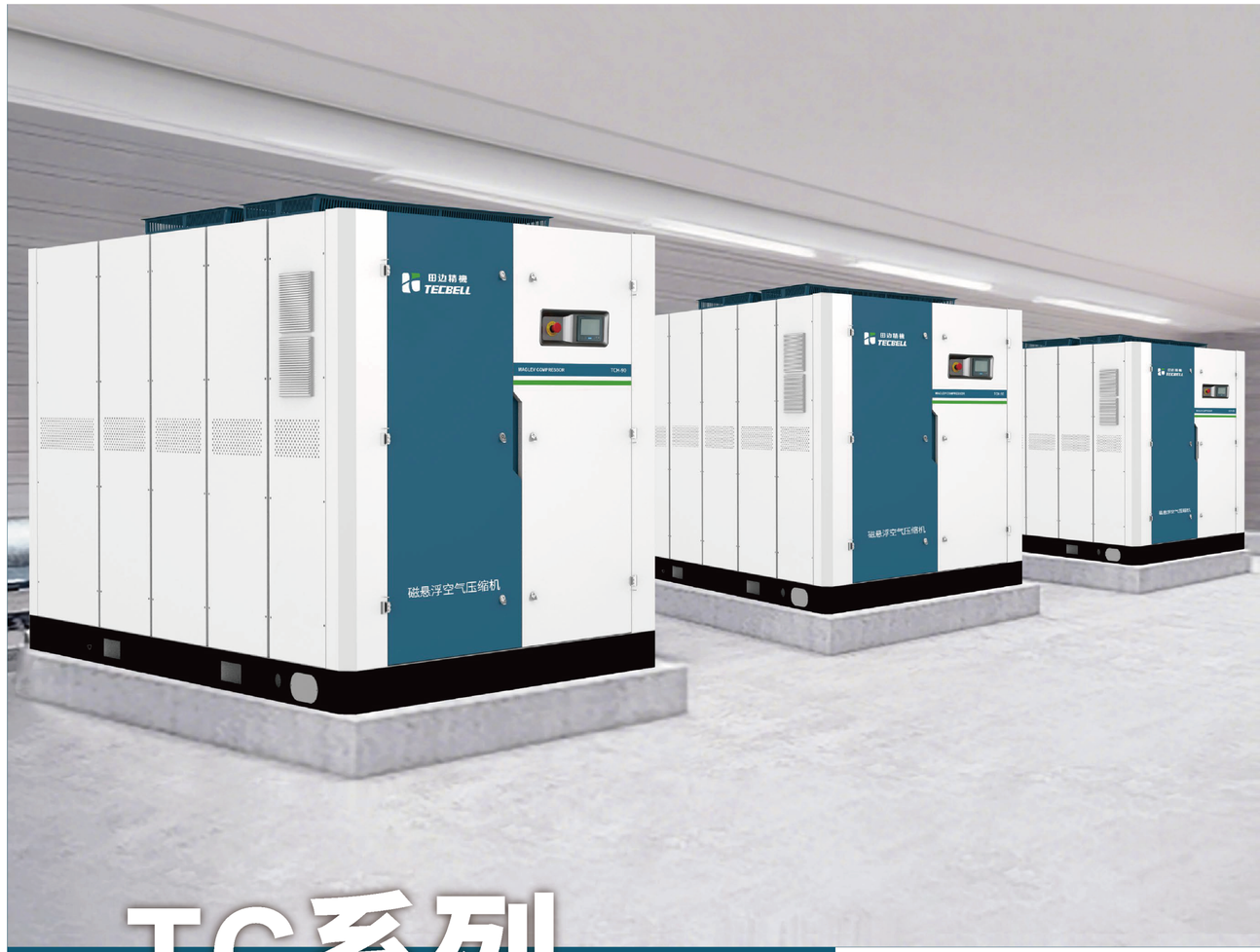
地址：深圳市宝安区新桥街道中心路 102 号时代中心 A 座 12 层
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制造中心
Manufacturing Center

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



TC系列 TC series

磁悬浮空气压缩机

Maglev Air Compressor

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

目 录 CONTENTS

01 磁悬浮空压机
Maglev Compressor

压缩机采用磁悬浮高速驱动技术，实现 100% 无油的压缩空气供给，消除了与润滑机油和有机硅污染相关的所有可能风险。

The compressor adopts magnetic levitation high-speed drive technology to achieve 100%oil-free compressed air supply,eliminating all possible risks related to lubricating oil and silicone pollution.

02 磁悬浮鼓风机
Maglev Blower

风机采用 “电气、机械、电子 ”一体化技术设计，包含三元流叶轮和涡壳的气动单元、高速变频器以及磁浮电机驱动单元、电机悬浮控制和风机运行控制的中央控制单元。

The blower features the integrated design of "electrical,mechanical and electronic".It comprises the pneumatic unit of ternary flow impeller and volute shell,the high-speed frequency inverter and the maglev motor drive unit, and the central control unit for motor suspension and blower operation.

03 应用领域
Areas of Application

磁悬系列产品的应用领域主要包括污水处理、水泥厂、化工、食品、药品、水产养殖业、造纸厂、酿造业、纺织业、乳制品加工业、热电等多个行业领域。

The application fields of magnetic levitation series include sewage treatment,cement plant,paper mill,chemicals,medicine,aquaculture,food, brewing,textile industry,dairy processing industry, thermoelectric industry,and other industries in demand.

04 物联网监控系统
Internet of Things (IoT) Monitoring System

物联网监控系统以网络为基础、平台为中枢、数据为要素、安全为保障，利用信息通信技术与磁悬浮电机、鼓风机、压缩机等智能设备深度融合，全面连接人、机、物、系统，构建起全新的产品应用模式和售后服务体系。

Taking the network as foundation,platform as pivot,data as element,and security as barrier,W360 platform integrates with maglev motor,blower, compressor and other intelligent equipment through information and communication technology,so that connects people,machines,objects,and systems to build a new product application mode and post-sales service system.

01 磁悬浮空压机
Maglev Compressor



您可以获得100%无油的洁净压缩空气
You can obtain 100%oil-free clean compressed air

压缩机采用磁悬浮高速驱动技术，实现100%无油的压缩空气供给，消除了与润滑机油和有机硅污染相关的所有可能风险。它的设计和制造旨在让旨在压缩空气用户完全放心，提供100%无油洁净空气。

The air compressor adopts magnetic levitation high-speed drive technology to achieve 100%oil-free compressed air supply,eliminating all possible risks related to lubricating oil and silicone pollution.Its design and manufacturing aim is to provide compressed air users with complete confidence and provide 100%oil-free clean air.

革命性的无油压缩空气技术
Revolutionary oil-free compressed air technology

与传统无油螺杆技术相比，磁悬浮离心式空气压缩机具有显著优势，出色的整机效率、高可靠性和低环境影响，还提供69dB(a)的低噪音水平，同时完全符合ISO8573-1(2010)关于压缩空气清洁度的CLASS 0等级要求。

Compared with traditional oil-free screw technology,magnetic levitation centrifugal air compressors have significant advantages,such as excellent overall efficiency,high reliability,and low environmental impact.They also provide a low noise level of 69dB(a)and fully comply with the Classo level requirements of ISO8573-1(2010)for compressed air cleanliness.

是什么让磁悬浮空压机与众不同？
What sets magnetic levitation air compressors apart?

所有磁悬浮空压机均为变频调速控制，采用直驱高速永磁电机驱动，为客户生产完全无油、洁净的压缩空气。叶轮直接集成在电机转子上，无需额外传动齿轮箱和联轴器。

All magnetic levitation air compressors are controlled by frequency conversion and speed regulation,using direct drive high-speed permanent magnet motors to produce completely oil-free and clean compressed air for customers.The impeller is directly integrated into the motor rotor,without the need for external transmission gearbox and coupling.

压力范围覆盖	流量范围覆盖	电机功率范围
1.5bar至4.5bar	22至209m³/min	75至400 kW



磁浮控制完全符合国际磁悬浮 IS014839 标准

Complies with the international magnetic levitation ISO14839 standard

不需齿轮箱，不需润滑油，不需联轴器。采用主动式磁悬浮轴承和高速永磁电机技术，实现磁悬浮高速直驱，没有任何部件发生接触或摩擦，转动部件悬浮于其中，转速可高达60000rpm。

No gearbox no lubricating oil no coupling required.Adopting active magnetic levitation bearings and high-speed permanent magnet motor technology to achieve magnetic levitation The floating high-speed direct drive system has no contact or friction with any components and the rotating components are suspended in it,with a speed of up to 60000 rpm.

额定转速下，转子振动幅值小于10um

轴承各个控制自由度灵敏度均小于9.5dB

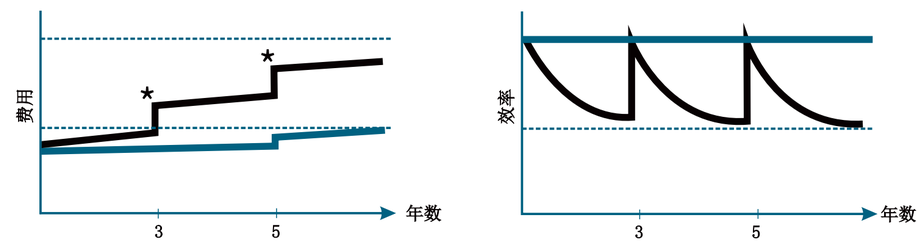
启动之后，磁悬浮轴承同频控制电流小于偏置电流5%



At rated speed,the rotor vibration amplitude is less than 10um,The sensitivity of each control degree of freedom of the magnetic levitation bearing is less than 9.5dB,After startup,the same frequency control current of the magnetic levitation bearing is less than 5%of the bias current.

先进的磁悬浮空气压缩技术

Magnetic levitation air compression technology



磁悬浮压缩机
Magneticlevitation compressor

干式无油螺杆压缩机
Oil free screw compressor

*随着螺杆元件的改变，需要定期大修。

*With the changes in screw components,regular major repairs are required.

与“无油”螺杆压缩机不同，磁悬浮压缩机无需齿轮传动装置，主轴始终悬浮，不产生摩擦或磨损，效率随着时间的推移可保持不变。不会出现“无油”螺杆压缩机典型的能耗峰谷值特征。

Unlike the "oil free"screw compressor,the magnetic levitation compressor does not require a gear transmission device,and the main shaft is always suspended Produce friction or wear,and the efficiency can remain unchanged over time.There will be no "oil free"screw compressors Typical peak to valley energy consumption characteristics.

高质量的组件
High quality components

为了确保最高的可靠性，我们在产品中不断优化方案。例如叶轮可选用钵材料；可选不锈钢或紫铜中冷器和后冷器核心组件；推荐采用标准纯铝超级智慧管道，使用寿命长，效率损失低。我们的主机设计巧妙而简洁，只有高速电机和主动磁浮轴承系统以及叶轮，没有任何齿轮、联轴器、机械轴承或油封。

To ensure the highest reliability,we continuously optimize our solutions in our products.For example,the impeller can be made of bowl material;Optional stainless steel or copper intercooler and aftercooler core components;It is recommended to use standard pure aluminum super smart pipes,which have a long service life and low efficiency loss.Our host design is clever and simple,with only high-speed motors and active magnetic bearing systems as well as impellers,without any gears,couplings,mechanical bearings or oil seals.

最少的检修维护
Minimal maintenance and repair

无论计划内还是计划外停机，都会给企业运营造成损失。与典型的螺杆机需要安排特定时段进行维护不同。磁悬浮压缩机仅在必要时维护没有可磨损的运动零件，不需要更换机油或组件，维护工作实际仅限于更换空气过滤器和垫片等少量耗材。所以磁悬浮压缩机无需停止运行，且压缩机的整体寿命远超于“无油”干式螺杆压缩机。

The magnetic levitation compressor only needs to be maintained when necessary without any wearable moving parts,and does not require the replacement of oil or components.Maintenance work is actually limited to replacing a small amount of consumables such as air filters and gaskets.

减少电费支出
Reduce electricity expenses

我们领先于行业的磁悬浮高速离心式压缩机，针对宽容量范围进行优化，容量调节范围高达63%, 不会因为排出压缩空气而浪费能源，同时相较于传统压缩机电费账单可以减少15-25%。

Our industry-leading maglev high-speed centrifugal compressor is optimized for a wide capacity range,with a capacity adjustment range of up to 63%.It does not waste energy due to the discharge of compressed air,and can reduce electricity bills by 15-25% compared to traditional compressors.

选型参数：
Selection of Parameters

型号 model	额定功率 kW	最大排气压力bar	最大流量 m^3/min
TCH-75/2.0 II	75	2.0	40
TCH-75/2.5 II	75	2.5	31
TCH-75/3.0 II	75	3.0	26
TCH-90/2.0 II	90	2.0	47
TCH-90/2.5 II	90	2.5	39
TCH-90/3.0 II	90	3.0	33
TCH-90/3.5 II	90	3.5	29
TCH-90/4.0 II	90	4.0	26
TCH-90/4.5 II	90	4.5	24
TCH-110/2.0 II	110	2.0	58
TCH-110/2.5 II	110	2.5	47
TCH-110/3.0 II	110	3.0	40
TCH-110/3.5 II	110	3.5	36
TCH-110/4.0 II	110	4.0	32
TCH-110/4.5 II	110	4.5	30
TCH-132/2.0 II	132	2.0	69
TCH-132/2.5 II	132	2.5	59
TCH-132/3.0 II	132	3.0	49
TCH-132/3.5 II	132	3.5	44
TCH-132/4.0 II	132	4.0	41
TCH-132/4.5 II	132	4.5	38
TCH-160/2.0 II	160	2.0	84
TCH-160/2.5 II	160	2.5	71
TCH-160/3.0 II	160	3.0	60
TCH-160/3.5 II	160	3.5	53
TCH-160/4.0 II	160	4.0	49
TCH-160/4.5 II	160	4.5	46
TCH-185/2.0 II	185	2.0	97
TCH-185/2.5 II	185	2.5	82
TCH-185/3.0 II	185	3.0	69
TCH-185/3.5 II	185	3.5	61
TCH-185/4.0 II	185	4.0	57
TCH-185/4.5 II	185	4.5	53

选型参数：

Selection of Parameters

型号 model	额定功率 kW	最大排气压力bar	最大流量 m^3/min
TCH-200/2.0 II	200	2.0	105
TCH-200/2.5 II	200	2.5	89
TCH-200/3.0 II	200	3.0	75
TCH-200/3.5 II	200	3.5	66
TCH-200/4.0 II	200	4.0	62
TCH-200/4.5 II	200	4.5	58
TCH-220/2.0 II	220	2.0	115
TCH-220/2.5 II	220	2.5	98
TCH-220/3.0 II	220	3.0	82
TCH-220/3.5 II	220	3.5	73
TCH-220/4.0 II	220	4.0	68
TCH-220/4.5 II	220	4.5	63
TCH-250/2.0 II	250	2.0	130
TCH-250/2.5 II	250	2.5	111
TCH-250/3.0 II	250	3.0	93
TCH-250/3.5 II	250	3.5	83
TCH-250/4.0 II	250	4.0	77
TCH-250/4.5 II	250	4.5	72
TCH-280/2.0 II	280	2.0	146
TCH-280/2.5 II	280	2.5	125
TCH-280/3.0 II	280	3.0	105
TCH-280/3.5 II	280	3.5	93
TCH-280/4.0 II	280	4.0	86
TCH-280/4.5 II	280	4.5	81
TCH-300/2.0 II	300	2.0	156
TCH-300/2.5 II	300	2.5	134
TCH-300/3.0 II	300	3.0	112
TCH-300/3.5 II	300	3.5	99
TCH-300/4.0 II	300	4.0	92
TCH-300/4.5 II	300	4.5	86
TCH-315/2.0 II	315	2.0	164
TCH-315/2.5 II	315	2.5	140
TCH-315/3.0 II	315	3.0	118
TCH-315/3.5 II	315	3.5	104
TCH-315/4.0 II	315	4.0	97

型号 model	额定功率 kW	最大排气压力bar	最大流量 m^3/min
TCH-315/4.5 II	315	4.5	91
TCH-350/2.0 II	350	2.0	183
TCH-350/2.5 II	350	2.5	156
TCH-350/3.0 II	350	3.0	131
TCH-350/3.5 II	350	3.5	116
TCH-350/4.0 II	350	4.0	108
TCH-350/4.5 II	350	4.5	101
TCH-400/2.0 II	400	2.0	209
TCH-400/2.5 II	400	2.5	178
TCH-400/3.0 II	400	3.0	150
TCH-400/3.5 II	400	3.5	132
TCH-400/4.0 II	400	4.0	123
TCH-400/4.5 II	400	4.5	115

型号说明 TCH - 220 / 2.0 II

- TCH：磁悬浮空压机
- 220：电机功率(kW)
- 2.0：压力规格(bar)
- II：双级压缩

02 磁悬浮鼓风机
Maglev Blower



磁悬浮鼓风机的原理
The Principle of Maglev Blower

TCM 系列磁悬浮离心风机采用主动磁悬浮轴承和高速永磁同步电机。由三元流叶轮直接驱动，通过磁力使转子系统悬浮，并通过高速旋转的叶轮产生动能，实现吹风功能。

TCM series maglev centrifugal blower adopts active magnetic bearing and high-speed permanent magnet synchronous motor.It is directly driven by ternary flow impeller,levitating the rotor system through magnetic force,and generating kinetic energy by high-speed rotating impeller to achieve blowing function.



磁悬浮鼓风机的一体化设计
Integrated Design of Maglev Blower

风机采用“电气、机械、电子”一体化技术设计，包含三元流叶轮和涡壳的气动单元、高速变频器以及磁浮电机驱动单元、电机悬浮控制和风机运行控制的中央控制单元。

The blower features the integrated design of "electrical,mechanical and electronic".It comprises the pneumatic unit of ternary flow impeller and volute shell,the high-speed frequency inverter and the maglev motor drive unit,and the central control unit for motor suspension and blower operation.

高速永磁电机

High-Speed Permanent Magnet Motor



高速永磁电机具有体积小、功率密度高、效率高以及可与负载直接相连等优点，已成为鼓风机行业应用的优选。我们根据电机温升、转子应力和转子动力学这三个方面对高速永磁电机进行研究，建立分析了TCM系列电机的解析模型。

High speed permanent magnet motor can directly connect to the load and has advantages of small size,high power density and high efficiency.It has become a preferential choice in blower industry.BOKES studied the motor temperature rise,rotor stress and rotor dynamics and established the analytic model of TCM series motor.

新型三元流叶轮

New Ternary Flow Impeller



三元流叶轮是依据三元流动理论设计出多曲面形状的叶片，使流道更适应流体的真实流态，结合CFD分析，解决叶片复杂三维流动的数值计算问题，提高了风机的效率、可靠性和安全性。通过三元优化减少流道内的流动损失，减少分离流、漩涡、二次流等对气动性能的影响，终获得符合气流流动的优化设计。

Based on three-dimensional flowing theory,the ternary flow impeller is designed with multi-curved blade,so that the flow channel is more adapted to the true flow state of fluid.The CFD analysis is used to solve complex calculation of quantitative value of three-dimensional flow of the blade,so that improves the efficiency,reliability,and safety of blower.Through ternary optimization,the flow loss in the flow channel is reduced,the influence of separation flow,vortex,secondary flow and other effects on the aerodynamic performance are reduced,and then an optimized design that conforms to air flow is finally obtained.

田边精機 TECBELL

TCM系列磁悬浮鼓风机特点

Features of TCM Series Maglev Blower

前沿科技

Cutting-Edge Technology

采用高性能变频器对转速进行控制。采用先进的控制系统，多种控制模式可以选择，运行转台可以实施监控，并且可以远程控制，无需人员现场值守。采用全封闭水冷、风冷系统对电机进行散热，确保风机处于稳定高效的运行状态，设备使用寿命长。模块化设计，维修方便快捷。

High performance frequency converter is adopted to control speed.Advanced control system is adopted to provide multiple control modes.The turntable can monitor running process and can be controlled remotely,saving labor costs.Fully enclosed water-cooling and air-cooling system are adopted to dissipate heat from motor,ensuring stable running and prolonging blower's service life.Modular design makes it easy to maintain.

低运营成本

Low Operating Costs

磁悬浮轴承完全无摩擦，减少产品的损坏几率，鼓风机的使用寿命可以达到20年以上。磁悬浮鼓风机维护简单，只需定期更换过滤器。磁悬浮鼓风机不需要润滑系统，节约了润滑油、清洁等费用。电机采用直联驱动，体积小，重量轻，节约空间。国内生产，可保障备品备件及时供应。

Frictionless maglev bearing reduces product damage and extends blower's service life to 20 years or more. Maglev blower is easy to maintain,requiring only regular filter change.The maglev blower is lubricant-free, which saves the cost of lubricating oil and cleaning.The motor adopts direct drive,small size,light weight,and space saving.Domestic production ensures timely supply of spare parts.

节能优势

Energy Saving

与罗茨鼓风机相比，磁悬浮鼓风机的效率提高了30~40%。以160kW磁悬浮鼓风机为例，与罗茨鼓风机相比，每台磁悬浮鼓风机每年可以节约用电 50多万度，节约电费30多万元。

Compared with Roots blower's efficiency,maglev blower's efficiency increased 30%~40%.Taking the 160kW maglev blower as an example,each blower can save more than 500,000 kWh electricity and ¥300,000 in bills per year.

环保优势

Eco-Friendly

磁悬浮鼓风机无需润滑，输送的空气清洁无污染。磁悬浮轴承完全无摩擦，鼓风机运行噪音低，不会影响周边办公及居住环境。以160kW磁悬浮鼓风机计算，每台鼓风机每年可减少约500吨的二氧化碳排放量。

Maglev blower is lubricant-free;the air transmitted is pollution-free.The Maglev bearing is frictionless and operates without noise,bringing no effect to the surrounding office and living environment.take 160kW maglev blower for example,each blower can reduce carbon dioxide emissions by approximately 500 tons per year.

多种风机性能列表：

List of Blower Performance

对比项目 Comparing Items		磁悬鼓风机 Magnetic levitation blower	空悬鼓风机 Air levitation blower	罗茨鼓风机 Roots blower	单级离心风机 single-stage centifugal
轴承 Bearing	轴承类型 Bearing type	磁浮轴 Maglev bearing	铂片轴承 Foil bearing	滚珠轴承 Ball bearing	可倾瓦轴承 Tilting pad bearing
	使用寿命 Service life	半永久 Semi permanent	5-7年 5 to 7 years	2-3年 2 to 3 years	3-5年 3 to 5 years
	承 载 Load bearing	高 high	低 low	高 high	高 high
	机械摩擦 Mechanical friction	无摩擦 Frictionless	有摩擦 With friction	有摩擦 With friction	有摩擦 With friction
叶轮 Impeller	形式 Form	三元流叶轮 Three element flow impeller	三元流叶轮 Three element flow impeller	铸造二叶／三叶 Cast leaf/three leaf	三元流叶轮 Three element flow impeller
	寿命 Life	20年以上 More than 20 years	15－20年 15 to 20 years	5-8年 5-8 years	15年 15 years
	气动效率 Aerodynamic efficiency	高 high	高 high	低 low	高 high
电机 Motor	电机类型 Motor type	高速永磁电机 High speed permanent magnet motor	高速永磁电机 High speed permanent magnet motor	低速异步电机 Low speed asynchronous motor	异步交流电机 Asynchronous AC motor
	电机效率 Motor efficiency	96%	95%	86%	94%
	转速控制 speed control	精确调速 Precise speed regulation	精确调速 Precise speed tontrol	不能 Unable to control	不能 Unable to control
	风量调节 Air volume control	30－100%范围 30%~100% range	45－100%范围 45%~100% range	需加装变频器 Frequency converterr is required	50－100%范围 50%~100% range
维护 Maintenance	周期 Cycle	定期更换过滤器 Replace the filter regularly	定期更换过滤器 Replace the filter regularly	定期专人保养 Regular maintennance by specially assigned person	定期专人保养 Regular maintennance by specially assigned person
	润滑油 Lubricating oil	无需润滑 No lubrication required	无需润滑 No lubrication required	定期添加 Add periodically	定期添加 Add periodically
	易损件 Wearing parts	过滤器 Filter	轴承、过滤器 Bearing and filter	轴承、齿轮 Bearing and gear	轴承、齿轮、油泵 Bearing,gear,oil pump
	维修费用 Maintenance costs	最低 Minimum	高 High	低 Low	高 High
运行 Run	频繁启动 Frequent startup	可以 Doable	不可以 Unable to do	可以 Doable	可以 Doable
	噪音 Noise	≤ 80分贝 Upto 80 decibels	75－85分贝 75-85 decibels	100分贝以上 Above 100 decibels	90-100分贝 90-100 decibels
	震动 Vibration	非常小 Small	非常小 Small	非常大 Large	中小 Moderate to small
	整机效率 overall eficiency	77-80%	70-77%	49-60%	68-75%
	运行费用 Operating expenses	最低 Lowest	低 Low	最高 Highest	高 High
整体概括 Overall summary		维修及时快捷 能耗低，噪音小 Timely and fast mainte-nance, low energy cons-umption and low noise.	技术壁垒严重 国内无法维修 能耗低，噪音小 Unable to repair due to technical barriers.Ithas the characteristics oflow energy consumptionand low noise.	维修及时快捷，但维护过程繁琐 能耗比较大，需要配备隔音措施 The maintenance is timely and fast,but the maintenance process is complicated and energy consumption is high,so sound insulation measures should be provided.	

产品与选型

Model Selection



磁悬浮鼓风机的选型一般参考电机输出轴的额定功率、风量、风压三个参数。

The model selection should generally consider three parameters:the rated power of motor output shaft,air volume,and air pressure.

1、电机输出轴功率

Rated Power of Motor Output Shaft

指电机在额定电压下能够正常运转的最大输出功率，也是指电动机在规定的额定情况下运行时，其输出端的机械功率，单位一般为千瓦（kW）。

It generally refers to the maximum power that the motor can output under rated voltage;it also refers to motor's mechanical power at the output port when motor runs under specified conditions.The unit is generally kW.

2、风量和风压

Air Volume and Pressure

风量和风压是磁悬浮鼓风机选型的重要参数，通过常用风量和风压换算电机功率，选择对应型号的磁悬浮鼓风机。

The air volume and air pressure are important parameters in maglev blower selecting.The corresponding type of maglev blower could be selected by converting commonly used air volume and air pressure to motor power.

型 号 MODEL	25kpa	40kpa	60kpa	70kpa	80kpa	100kpa	120kpa	冷却方式	外形尺寸 (LxWxH mm)	重量 kg	出口尺寸
	流量（m^3/min）										
TCM-15	33	19	13					风冷	1134*1456*1537	680	200
TCM-18	40	23	16	13	11			风冷		680	200
TCM-22	48	27	20	15	13			风冷		680	200
TCM-30	65	35	26	21	18			风冷		680	200
TCM-37	75	45	33	28	23			风冷		680	200
TCM-45		52	43	35	31	25		风冷		680	200
TCM-55		63	53	43	38	32		风冷		680	200
TCM-75		100	72	60	50	40	35	风冷	1435*1457*1650	680	200
TCM-90		115	83	72	64	51	44	风冷		680	200
TCM-110		140	101	88	78	62	54	风冷		680	200
TCM-132		177	124	109	99	79	66	风冷		1200	300
TCM-160		215	150	132	120	96	80	风冷	1531*1535*1857	1200	300
TCM-185		240	167	150	134	111	93	风冷		1200	300
TCM-200		260	180	160	145	120	100	风冷		1200	300
TCM-220		290	207	180	163	134	110	风冷		1680	300
TCM-250		330	250	205	185	152	125	风冷		1680	300
TCM-280		370	263	230	207	170	140	风冷	1733*1776*2168	1680	300
TCM-300		410	286	248	224	186	152	水冷		1680	300
TCM-315		430	300	260	235	195	160	水冷		1680	300
TCM-350		465	325	285	255	215	180	水冷		1680	300
TCM-400		500	350	310	270	230	200	水冷	1983*2275*2030	1680	350
TCM-450		560	395	350	305	260	225	水冷		1680	350

标准条件：一个大气压 20℃相对湿度65%密度1.2kg/m³

Standard conditions:one atmospheric pressure 20℃, relative humidity 65%,density 1.2kg/m³.

03 应用领域
Areas of Application

物料气体输送

可用于水泥厂、化工、食品等行业；

应用场景为：工业原料、粉尘、食品等气力输送。

Conveying material and gas

Can be used in cement factory,chemical,food and other industries;

Application scenarios:pneumatic conveying of industrial raw materials, dust and food.

污水处理

可应用于向污水池曝气，使污水处理池中的生物活性物能充分与污水中的物质接触，从而达到除污的目的。

Sewage treatment

The maglev blower can be applied to aeration of sewage tank,so that the biological active substances in sewage treatment tank can fully contact with the substances in sewage, achieving the purpose of decontamination.

水产养殖业

通过对水产品养殖池底部鼓入空气，增加池内氧气含量，增加水产品存活率。

Aquaculture

By pumping air into the bottom of the aquaculture tank,the oxygen content in the tank is increased and the survival rate of aquatic products is increased.

其他行业

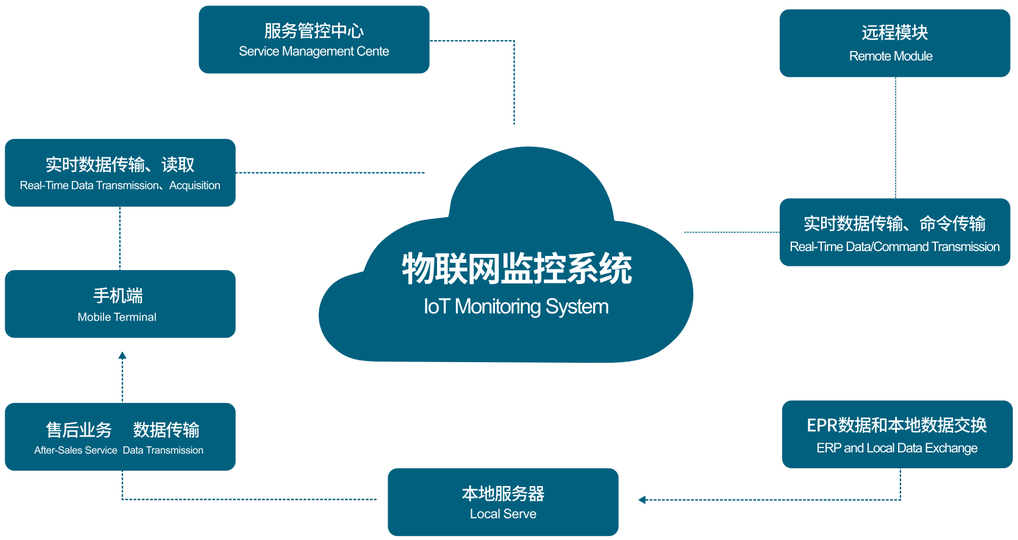
例如造纸厂、酿造业、纺织业、乳制品加工业、热电行业等。

Other industries

Paper mill,brewing industry,textile industry,dairy industry,thermal power industry,etc.



04 物联网监控系统
Internet of Things (IoT) Monitoring System



通过与云端服务器连接设备可以实时上传数据，包括设备状态、运行参数等等。

这些数据可以帮助企业分析设备的运行状况，及时发现潜在的故障，并采取相应的措施进行修复，从而最大程度地减少设备停机时间和生产损失。

系统可以根据设备上传的数据，预测设备需要更换的零部件和保养周期，从而帮助企业建立科学的设备维护计划，减少不必要的维护成本。在线售后服务一站式提交，去除用户频繁收集证据的痛点，服务链条事实清晰可查。

By connecting devices to the cloud server, real-time data such as equipment status and operating parameters can be uploaded continuously.

This data enables enterprises to analyze equipment performance, identify potential faults early, and take timely corrective actions—minimizing downtime and production losses to the greatest extent possible.

Based on the uploaded data, the system can predict parts replacement needs and maintenance intervals, helping enterprises establish a scientific maintenance plan and reduce unnecessary maintenance costs. After-sales service can be submitted online in a one-stop manner, eliminating the hassle of frequent evidence collection by users and ensuring a clear, traceable service process.