Zhicheng Fan (Shandong) Co., LTD

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Zhi Cheng
Fan & Blower Company

COMPACT
TURBO BLOWER

为节省能源而做的最有效率的技术

HIGH ENERGE TECHNOLOGY

志诚风机（山东）有限公司
Zhicheng Fan (Shandong) Co., LTD

ABOUTUS 公司简介

志诚风机（山东）有限公司是一家专业从事空气悬浮风机设计、制造和
Zhicheng Fan (Shandong) Co., Ltd. is a professional engaged in air suspension fan design, manufacturing and

销售的现代化科技型企业，公司坐落于天下第一村——淄博周村，是全球少
sales of modern science and technology enterprises, the company is located in the world's first village - Zibo Zhoucun,

数拥有混合轴承专利技术的制造商。
is the world's few manufacturers with hybrid bearing patent technology. The company's main air suspension centrifugal

公司主营空气悬浮离心鼓风机等产品的销售以及节能技术推广与服务，
blower and other products sales and energy-saving technology promotion and services, the stability and efficiency to

将稳定性和效率性做了完美融合。我们设备先进、技术力量雄厚，工艺流程
do a perfect integration. We have advanced equipment, strong technical force, advanced and reasonable process flow,

先进合理，检测手段齐全，具有设计新颖、结构合理、节能高效、低噪音、
complete detection means, with novel design, reasonable structure, energy saving and high efficiency, low noise,

操作简单维修方便等其他产品不可替代的优点。
simple operation and easy maintenance and other products can not be replaced.

产品应用于污水处理、水泥、钢铁、化工粉体运输、脱硫、电镀、喷
The products are used in sewage treatment, cement, steel, chemical powder transportation, desulfurization,

砂、电子、食品、医药、造纸、纺织、印染等行业领域，致力于向全球客户
electroplating, sandblasting, electronics, food, medicine, paper, textile, printing and dyeing industries, and are committed

提供空气动力终极节能装备和系统解决方案。
to providing the ultimate air power energy saving equipment and system solutions to global customers.Our company

我们公司秉承“海纳百川，宾迎天下”的企业文化，重视人才发展。专
adheres to the corporate culture of "embracing all rivers and welcoming the world" and attaches great importance to

业的技术团队、优秀的员工，精良的设备，严格的管理使公司得以不断壮
talent development. Professional technical team, excellent staff, sophisticated equipment, strict management so that

大，热忱的服务态度也是产品赢得用户信赖的根本所在。
the company can continue to grow, enthusiastic service attitude is also the product to win the trust of users.

志诚风机（山东）有限公司颠覆的不止是技术——开创了离心压缩机行
Zhicheng Fan (Shandong) Co., Ltd. subverts more than technology - it has created a new technological precedent

业新的技术先河。与传统离心机相比，它能节能30%以上的电费及能耗，且
in the centrifugal compressor industry. Compared with the traditional centrifuge, it can save more than 30% of the

100%纯无润滑油系统，无需要保养，为使用客户大大节省了运用成本，颠覆
electricity and energy consumption, and 100% pure lubricating oil system, no maintenance, for the use of customers

了整个离心机械行业，是走在未来前端的节能环保离心机技术。
greatly save the use of costs, subvert the entire centrifugal machinery industry, is in the front of the future of energy

在产品的品质，售前、售中、售后服务网络等方面推陈出新不断升级，
saving and environmental protection centrifuge technology.In the quality of products, pre-sale, sale, after-sales

使我们公司的规模进一步壮大，我们公司产品销量稳步上升。
service network and other aspects continue to upgrade the old and new, so that the scale of our company
further expanded, our company's product sales steadily increased.

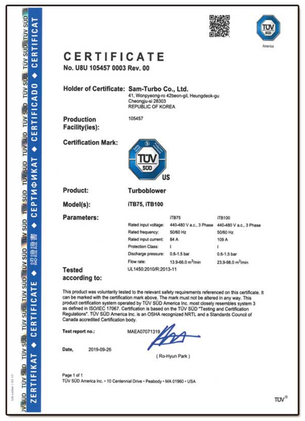
Zhi Cheng
Fan & Blower Company

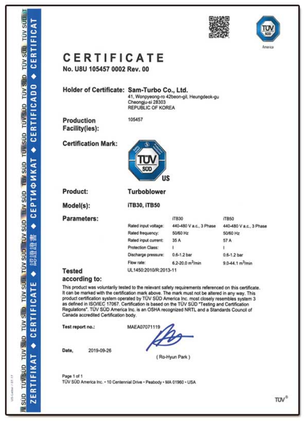
资质证书

责任为重、诚信为本
稳健经营、科学管理
企业人开放前瞻的广
阔胸怀，势必预示着
一种非凡天下的收揽

Zhi Cheng
Fan & Blower Company
志诚风机（山东）有限公司
Zhicheng Fan (Shandong) Co., LTD

厚德/创新/卓越/共赢
HOUDE INNOVATION EXCELLENCE WIN





行业应用

Industrial application

8.制药
Pharmaceuticals

1.污水处理
Sewage treatment

7.玻璃
Glass

2.发电脱硫
Desulfurization of power generation

6.电镀
Plating

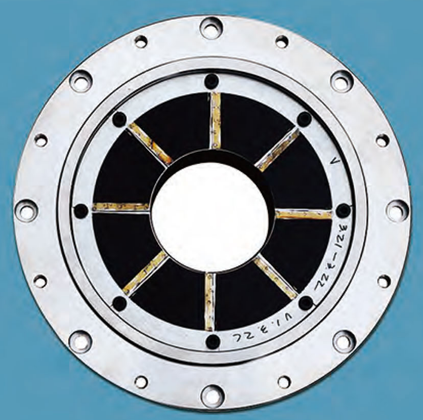
3.纺织
Textiles

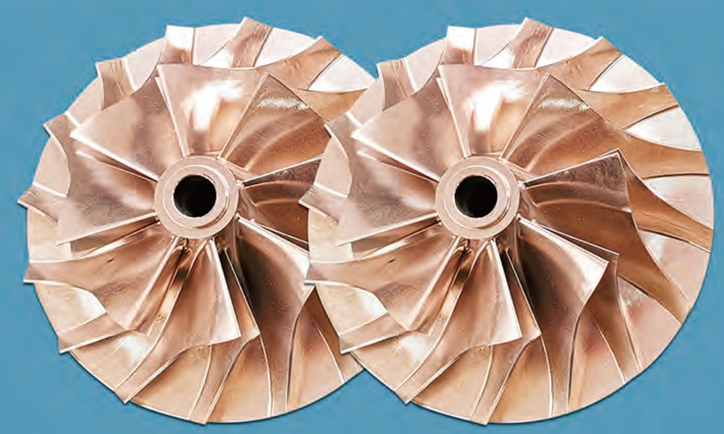
5.生物发酵
Biological fermentation

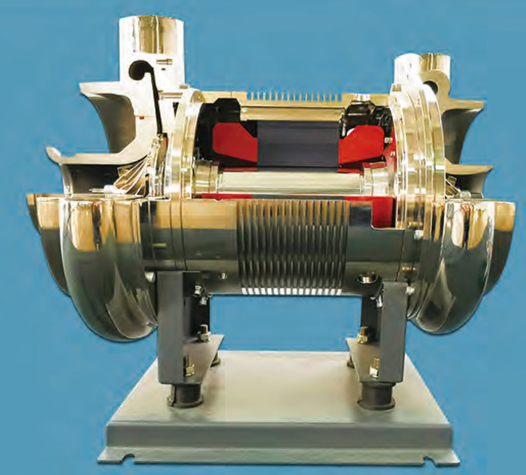
4.水泥
Cement

核心技术

Core technology







空气轴承

采用柔性表面支撑的自作用式动压空气轴承，具有运行寿命长、可靠性高、稳定性好、承载能力强、耐高温能力强等特点。无需润滑，几乎没有功率损耗，节能效果明显。
动压空气轴承内部无摩擦存在，抑制转子振动，转子振幅小于0.02mm。
转子通过20000次启停测试，是真正意义上的半永久性轴承。

Air bearing

Self-acting hydrodynamic air bearing with flexible surface support has the characteristics of long service life, high reliability, good stability, strong bearing capacity and strong high temperature resistance. No lubrication, almost no power loss, and obvious energy saving effect.
There is no friction in the dynamic air bearing, and the rotor vibration is restrained, and the rotor vibration amplitude is less than 0.02 mm. The rotor passes through 20000 start-stop TEST, which is a semi-permanent bearing in the true sense.

三元流叶轮

叶轮选材为7075，可实现超高速下的稳定运行。
五轴加工中心精密加工而成。
采用三元流设计理念，叶轮多变效率达到92%。

Three-dimensional flow impeller

The impeller material is 7075, which can realize stable operation at ultra-high speed.
Five-axis machining center is precisely machined.
Using the three-dimensional flow design concept, the variable efficiency of impeller reaches 92%.

高速永磁电机

采用先进的电机风冷技术，电机效率可达97%。变频调速、高效节能、整体结构简单、功率密度高、调幅范围大、过载能力强、可靠性高。

High speed permanent magnet motor

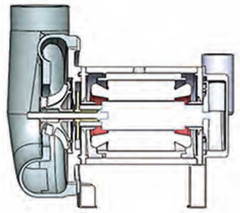
Adopting advanced motor air cooling technology, the motor efficiency can reach 97%. Frequency conversion speed regulation, high efficiency and energy saving, simple overall structure, high power density, large amplitude modulation range, strong overload capacity and high reliability.

高速永磁同步电动机PMSM（PERMANENT MAGNET SYNCHRO-NOUSMOTOR）的RPM通过变频器控制。与主轴直接连接、提升动力传递效率、减少噪音，使用空气悬浮轴承无物理接触点、机械摩擦将会减少（最大效率96%~98%）

The RPM of high speed permanent magnet synchronous motor PERMANENTMAGNET SYNCHRO-NOUSMOTOR (PMSM) is controlled by frequency converter, which can direct connection with spindle, improve power transmission efficiency, reduce noise, use air bearing without physical contact point, mechanical friction will be reduced (maximum efficiency 96% ~ 98%)

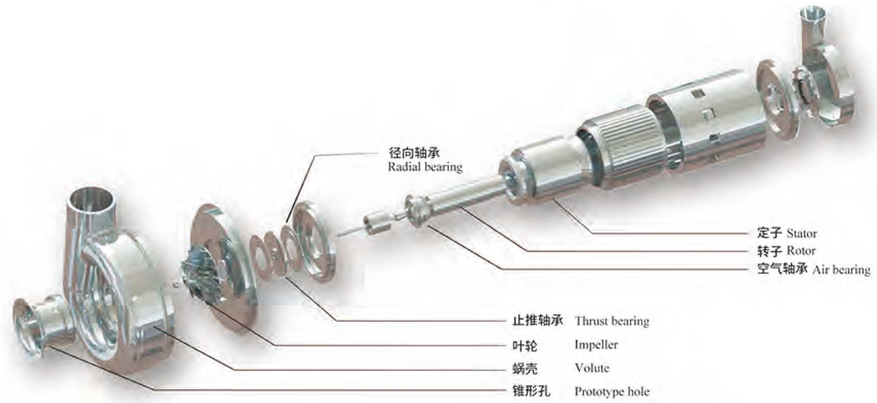
+ 从技术上先进的马达
+ 最优化的空气力学设计
+ 定制设计的变频器
+ 智能的控制技术

+ Technically advanced motors
+ Optimal aerodynamic design
+ Custom-designed inverter
+ Intelligent control technology

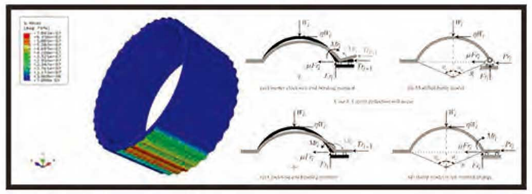


+ 利用空气悬浮轴承（AIR FOIL BEAR-ING)的高速永磁马达(MOTOR)、应用高效率叶轮(IMPELLER)核心技术最优化
+ 实现节能30%以上

+ High-speed permanent magnet MOTOR (MOTOR) with air bearing (AIR FOIL BEAR-ING), optimized with high-efficiency IMPELLER (IMPELLER) core technology
+ Achieve energy saving by more than 30%



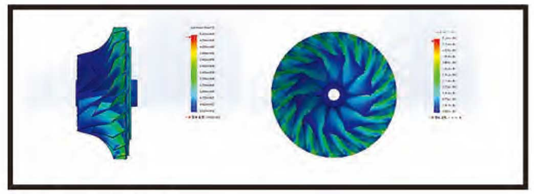
Air Foil Bearing



+结构简单、无润滑油系统
+低噪音、无振动
+ 无机械摩擦、最大限度提高效率
+启动时转轴和轴承相对运动以形成空气膜

+Simple structure, no lubricating oil system
+Low noise, no vibration
+No mechanical friction to maximize efficiency
+During startup, the shaft and bearing move relative to each other to form an air film

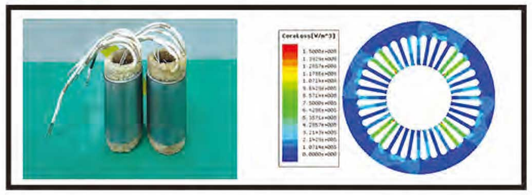
Impeller



• 三元流叶轮设计
• 流体解析技术
• 通过五轴加工表面光滑干净、重量轻、能耗少
• 铝合金(AI7075-T6)
• 高效率和广泛的多变空气流动

· Three-dimensional flow impeller design
· Fluid analysis technology
· Smooth and clean surface, light weight and low energy consumption through five-axis machining
· Aluminum alloy (AI7075-T6)
· High efficiency and wide range of variable

Stator



+通过星玛科领的特殊含浸技术、提高线圈的耐用性及可靠性
+采用最适合客户使用领域的量身定制式设计、全面提高了性能及效率
+采用额定值的130%以上的余量设计，提高产品的耐久性及稳定性

+Enhance the durability and reliability of the coil through the special immersion technology of Xingma Keling
+Adopt the tailor-made design that is most suitable for the customer's use field, which improves the performance and efficiency in an all-round way
+Adopt more than 130% of the rated allowance design to improve the durability and stability of the product

Balancing

• 通过精密的转子平衡(ROTOR BALANCING)作业、提高耐久性

·Improve durability through precise ROTOR BALANCING (ROTOR BALANCING) operation

ETC.

• 构建星玛科领独有的冷却系统

·Construct the unique cooling system of Xingma Keling

技术优势

Technical advantage

先进的物联网平台

我们拥有先进的物联网平台，可实时远程控制实时操作，可以根据网络来设定，而且可以确认电气连接状态。

Advanced Internet of Things platform

We have an advanced Internet of Things platform, which can control real-time operation remotely in real time, set according to the network, and confirm the electrical connection status.

售后服务

维修质保服务时间短快，淄博市内2小时，省内12小时内，全国24小时内，最大限度保证客户的权益与利益。做好服务的同时最大限度的帮助用户做到了节能减排节省费用。

After-sales service

The maintenance warranty service time is short and fast, 2 hours in Zibo City, 12 hours in the province and 24 hours in the whole country, so as to ensure the rights and interests of customers to the maximum extent. While doing a good job in service, it helps users to save energy, reduce emissions and save costs to the maximum extent.

混合轴承技术

是我们独家专利，这项技术提高了产品的耐久性。

Hybrid bearing technology

It is our exclusive benefit. This technology improves the durability of products.

独家发动机冷却

自动的发动机冷却系统，提供发动机的效率和可靠性。

Exclusive engine cooling

Automatic engine cooling system provides engine efficiency and reliability.

处理器

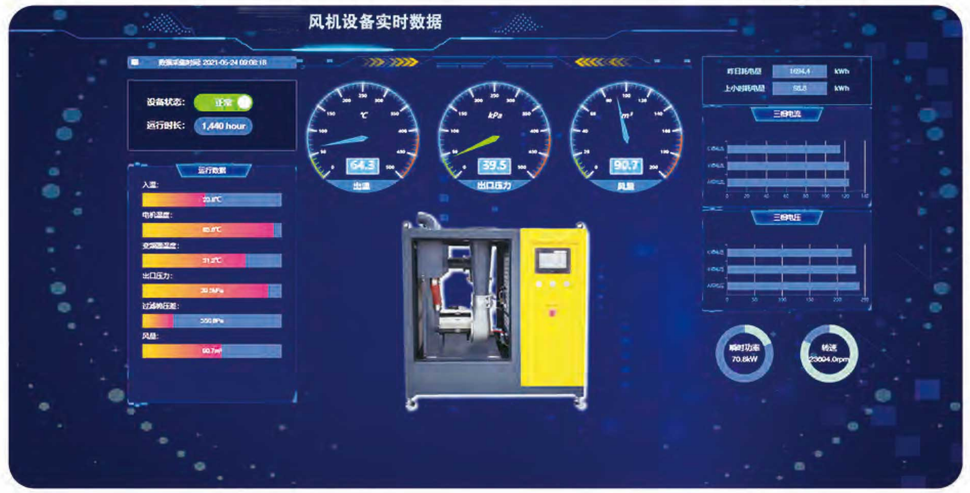
使用了PMSM专用的存取处理器，提高了可信度和精确的变速控制。

Processor

PMSM dedicated access processor is used to improve reliability and accurate speed change control.

物 联 网

Internet of Things



缩短故障相应时间，提升服务水平。

Shorten the corresponding time of failure and improve the service level.

实时监控设备运行状态，预判断设备运行情况，提前预防。

Real time monitoring of equipment operation status, pre judgment of equipment operation, prevention in advance.

通过实时运行和维修数据，经过数据分析，优化提升设备生产。

Through real-time operation and maintenance data, through data analysis, optimize and improve equipment production.

一站式设备管理、实时监控设备场景，物联网复杂应用的搭建灵活简便。

One stop equipment management, real-time monitoring equipment scenarios, and the construction of complex applications of the Internet of things are flexible and simple.

Frequency changer

用变频器控制马达、可调整流量及压力使其控制便捷

- 采用矢量控制(SENSOR LESS VECTOR CONTROL)可安全高速的运转
- 高效率（96%）运行及维修简便
- 自动设定高速运转所需最佳参数
- 具有自动防喘振和超负荷控制的系统保护

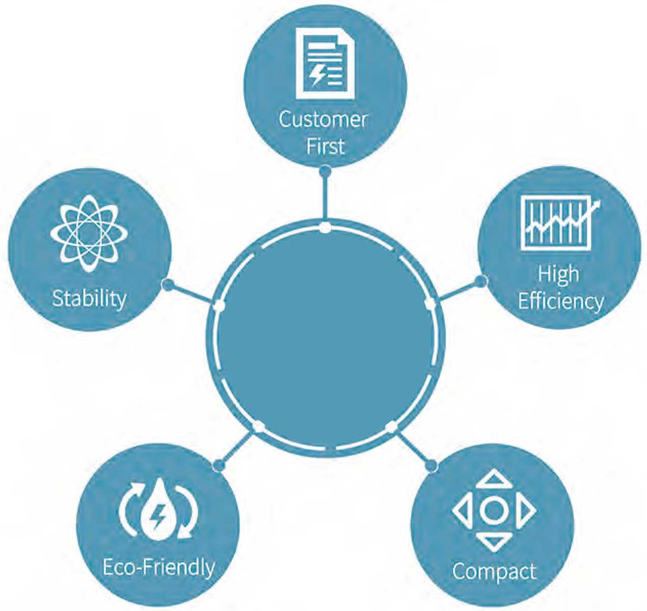
The motor is controlled by frequency converter, which can adjust the flow rate and pressure to make it easy to control
·SENSOR LESS VECTOR CONTROL can run safely and at high speed
·High efficiency (96%), easy operation and maintenance, automatically setting the best parameters required for high-speed operation
·System protection with automatic anti-surge and overload control

Controller

以累积的控制技术为基础、适用于涡轮机械的最优控制器、以使用者为中心提供操作环境

- 可编程逻辑控制器(PLC) 及触感控制板(TOUCH PANEL)的使用
- MODBUS TCP/IP及RTU基本提供

Based on tired control technology, it is suitable for the most controller of machinery and provides operation with user as the center
·The use of programmable controller (PLC) with only two Key and touch control board (TOUCH PANEL)
· MODBUS TCP/IP and RTU basic provision



根据长期经验和技术开发最优化的应用性能、满足顾客需求、追求稳定的高效率。

Develop optimized application performance based on long-term experience and technology to meet customer needs and pursue stable high efficiency.

Package Design

采用一体化结构和采用最适合涡轮鼓风机（TURBO BL-OWER）的最优冷却结构设计采用自动泄压阀以快速的动作保护马达（MOTOR）

Adopt integrated structure and adopt optimal cooling structure design which is most suitable for TURBO BL-OWER
Automatic pressure relief valve is used to protect the MOTOR for quick action (MOTOR)

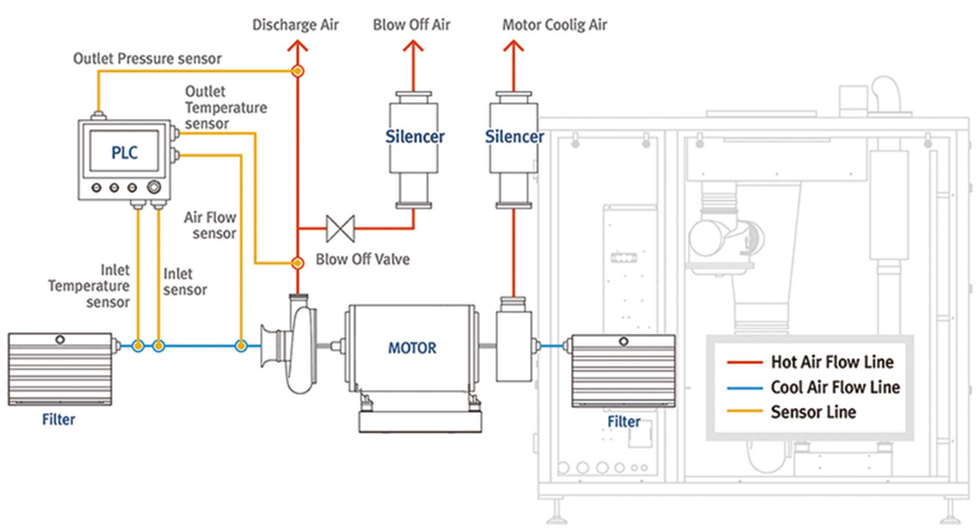
Easy Maintenance

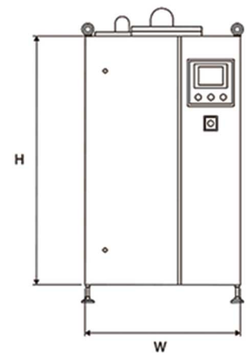
除定期更换过滤器外，无需另外维护，基本更换周期为6个月一次，根据使用环境更换，周期会有所变动

In addition to regular replacement of filters, no additional maintenance is required. The basic replacement cycle is once every 6 months, and the cycle will change according to the use environment

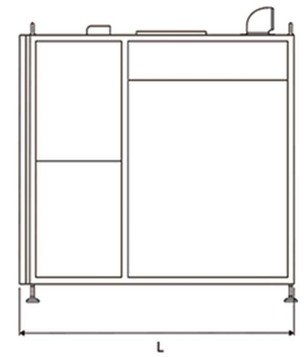
	pre-filter	main-filter
补集效率 Complement set efficiency	80%@1100mmm	99%@2mm
材质 Material	无纺布 Nonwoven fabric	合成纤维 Synthetic fibre
更换周期 Replacement cycle	1 month	6 month

空气悬浮风机





FRONT VIEW



RIGHT SIDE VIEW

明细		ST30	ST50	ST75	ST100	ST125	ST150	ST200	ST250	ST300	ST400	ST500	ST600	冷却方式
种类		单级									双级			
排气压力（kpa）		空气流量（m³/min）:latm/20℃、65%相对湿度、密度=1.2kg/m³/耐受性±5%												
60		20	34	51	69	82	105	140	175	210	280	345	420	空气冷却
70		18	30	45	60	74	90	120	150	180	240	300	360	
80		17	28	42	54	70	84	109	135	164	218	270	328	
90		–	–	37	50	61	71	92	–	140	184	–	–	
100		–	–	34	45	55	67	87	–	133	–	230	260	
150		–	–	–	32	48	60	69	81	121	–	–	–	
200								65	71	–				水冷
300										105				
350		–	–	–	20	–	–	37	–	–	–	–	–	
400		–	–	–	–	–	–	25	–	80	–	–	–	
电机功率（kw）		22	37	55	75	90	110	150	185	220	300	375	450	
排气管		150	150	200	200	200	300	300	300	400	500	500	500	
尺寸（mm）	宽	900	900	900	900	1100	1100	1100	1300	1500	1600	2100	2100	
	长	1500	1500	1500	1500	2000	2000	1925	2100	2300	2125	2300	2300	
	高	1465	1465	1465	1465	1480	1480	1700	1675	1900	2000	2000	2000	
重量（kg）		1000	1000	1000	1000	1000	1000	1100	1100	1320	1520	1800	1800	

关于产品的规格，为了提高性能，可能会没有事先预告的变化

合作品牌

Cooperative brand

SUNNSY
新華®
CHALCO 中国铝业
ESSE
ZDHK 中大慧科
中国石化 SINOPEC
中国石油
JIALONG NEW MATERIAL 嘉隆新型材料
金昌集团 GOLDEN SHINING REAL ESTATE GROUP
水发 SHUIFA
海江印染 Haijiang Printing and Dyeing
ZG·JXY
镔鑫特钢 BIN XIN ALLOY STEEL
中国华能 CHINA HUANENG
泰钢 TAIGANG
中国华电 CHD
山东华韵 SHANDONG HUAYUN
中国国电 CHINA GUODIAN
力赫 LI HE HUAN BAO
彩佳悦 CAIJIAYUE
ROCKCHECK 荣程联合 ROCKCHECK
宝泉环保 BAOQUAN ENVIDNMENT
思科莱斯

*排名不分先后
* Ranked in no particular order