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TSDQH2018-A



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MOB: 132 4051 2550

股票代码Stock Code:300607

辅机系统篇

AUXILIARY SERIES



让工业文明回归自然之美
Let Industrial Civilization Return To Natural Beauty



让工业文明回归自然之美 *Let Industrial Civilization Return To Natural Beauty*

作为中国整厂自动化第一品牌，拓斯达专注于高端智能装备，主张让工业文明回归自然之美的品牌价值，即随着技术不断进步与突破，用智能系统替代人工，开拓可替代的应用领域，推动产业进步助力企业发展，同时把制造业从劳动密集型带入完全的自动化，回归到自然，人性，和谐的状态。

As the top brand of complete factory automation in China, TOPSTAR focuses on high-end innovative equipment, proposes the brand value of *Let Industrial Civilization Return To Natural Beauty*. We initiate to replace labor with intelligent systems, expand replaceable application areas and promote industrial progress to help enterprise developing, transform labor intensive type to full automation and return to a natural, human-oriented and harmonious status.

新出现的文明与传统的旧工业文明有许多矛盾之处：它既有高度的科学技术，同时又是反工业化的。

摘自《第三次浪潮》
——阿尔文·托夫勒

Much in this emerging civilization contradicts the old traditional industrial civilization. It is, at one and the same time, highly technological and anti-industrial.

from *TheThird Wave*,
Alvin Toffler

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除湿干燥机系统
Drying and Dehumidifying System

A

自动送料系统
Feeding and Conveying System

B

模温控制系统
Mold Temperature Control System

C

自动冷却系统
Tcooling System

D

计量混合系统
Dosing&Mixing System

E

粉碎回收系统
Granulating&Recycling System

F

公司简介

广东拓斯达科技股份有限公司是一家创业板上市的智能制造综合服务商（简称：拓斯达，股票代码：300607），专注于工业机器人为代表的智能装备的研发、制造、销售，致力于打造系统集成+本体制造+软件开发三位一体的工业机器人生态系统和整体自动化解决方案。

2007年成立以来，坚持“让工业文明回归自然之美”的品牌主张及“做一年回本的自动化”的核心价值观理念，企业一直保持着高速增长的态势，2015年被国家工信部电子信息产业发展研究院评为“中国工业自动化领军企业”。主要客户包括世界500强企业在内的国内外知名企业近4千家，销售服务网络遍布全国，产品远销亚、美、欧、非等30多个国家。

2014年，被世界权威杂志《福布斯》评为“中国非上市潜力企业百强”第30名；2015年，被国际四大会计师事务所之一安永联合复旦大学评为“中国最具潜力企业”，同时荣获高新技术企业，广东省级企业技术中心、广东省高成长性中小企业，作为唯一一家机器人企业入选广东省制造业500强。2014、2015年度高工金球奖等多项荣誉。2016年被评为广东省首批机器人骨干企业，多次受到省、国家部委、市领导高度评价。

拓斯达聚集了加拿大、韩国、台湾等全球顶尖研发人才，长期与清华大学、华中科技大学、华南理工大学、东莞理工、深圳大学等研究机构和知名高校开展了产学研合作。企业获得国家授权的发明及实用新型专利100项，软件著作权10项。具有完全自主知识产权的直角坐标机器人荣获广东名牌产品3个，广东高新技术产品5项，多项产品通过欧洲CE认证。



Company profile

Guangdong Topstar Technology Co., Ltd. is a GEM listed intelligent manufacturing integrated service provider (Abbr. TOPSTAR, stock code: 300607), focusing on the R&D, manufacturing and sale of the industrial robots as the representative of intelligent equipment, dedicated to system integration, product manufacturing and software development--three in one integration of industrial robot ecosystem and turn-key automation solution.

Since the establishment in 2007, adhering to the brand advocate "Let Industrial Civilization Return To The Natural Beauty" and the core value "one year investment return for the automation solution", the business has maintained a rapid growth. In 2015, Topstar was assessed as "China Industrial Automation Leading Enterprise" by the State Ministry of Information Industry Development Institute. We have served about 4000 customers in domestic and oversea market, including well-known companies from Global 500. Now our sales and service network are all over the country in China and the products have been exported to more than 30 countries in Asia, America, Europe, Africa, etc.

In 2014, we were ranked on the 30th as "Potential 100 Non-Listed Chinese Enterprises" by Forbes. In 2015, we were assessed as "China's Most Potential Enterprise" by Ernst & Young with Fudan University, at the same time won the Guangdong Provincial-level Enterprise Technical Center, the Rapid Growth of Small&Medium Enterprises of Guangdong Province, and as the only one robot enterprise selected in Guangdong Province Manufacturing 500, honored "2014 and 2015 Annual Golden Globe" by GG Robots, etc. In 2016, was assessed as the first batch of robot key enterprises in Guangdong Province. Our enterprise is highly appreciated by national ministries, provincial and municipal leaders.

Topstar has recruited top R&D experts from Canada, Korea and Taiwan, and carried out long-term research cooperation with Tsinghua University, Huazhong University of Science and Technology, South China University of Technology, Dongguan Institute of Technology, Shenzhen University and other research institutions and well-known colleges. We have achieved 100 national patents and 10 software copyrights. Three kinds of Robots with independent intellectual property are named as Guangdong Provincial Famous Brand and five kinds of machines are named as Guangdong High-Tech Products. Many machines have been certified by CE.





智能制造综合服务商

广东省首个登陆创业板的机器人企业
广东省首批机器人骨干企业
首倡“做一年回本的自动化解决方案”服务理念
也是中国“无人工厂”、“智慧工厂”“智能制造”的早期践行者
多次获得“最具投资价值企业”、“最具成长性企业”等殊荣

Intelligent manufacturing integrated service providers

The first robot enterprise in Guangdong Province landed on the GEM.
The first batch of robot backbone enterprise in Guangdong Province.
Initiated a service philosophy of "To do automation solution which can back within one year".
It is also the pioneer of China's 'Unmanned Factory', 'Wisdom factory', 'Intelligent manufacturing'.
Awarded with 'The Enterprise With the Best Investment Value'; 'The Enterprise With the Most Growth' and many other honors.

企业文化

|| 公司宗旨

全心全意为客户服务。

|| 公司愿景

让工业文明回归自然之美。

|| 公司使命

聚焦全球制造业智能化需求，为客户提供有竞争力的智能制造解决方案与服务。

|| 公司定位

专注建立工业机器人、自动化解决方案生态圈的全球智能制造综合服务商。

|| 核心价值观

诚信 / 务实 / 专注 / 创新

|| 企业理念

共赢 / 分享 / 感恩

|| 企业精神

乐于拼搏，勇于进取

Company Culture

Company Purpose

Serve customers wholeheartedly.

Corporate Vision

Let the industrial civilization to regain nature beauty.

Corporate Mission

Focus on global manufacturing intelligence needs, providing a competitive manufacturing intelligence solutions and services to customers.

Corporate Positioning

Focus on the establishment of industrial robots, automated solutions for the ecological circle of intelligent manufacturing integrated service providers.

Core Values

Honesty / Pragmatic / Dedicated / Innovative

Corporate Philosophy

Win-win / Share / Gratitude

Entrepreneurial Spirit

Be happy to struggle and bold to make progress.



拓斯达不是雇佣和解雇型企业，而是打造创业型平台，集众人之力，实现凭一己之力所无法达成目标的平台，其核心精神是‘分享’。

——《拓斯达宣言》

TOPSTAR is not a hiring or dismissal enterprise, but aim to create a business platform, which setting the power of everyone to achieve the goal which can not achieve by their own. Its core spirit is 'Share'.

《TOPSTAR'S Declaration》

发展历程
Development History

2007 奇迹起点 横空出世

- 确立“打造世界一流品质”的企业和产品定位；
- 制订出行业第一个内部标准，细化每个制程，专注产品细节。
- 重新定义了行业最顶端产品的标准。

2008 技术先行 迅速崛起

- 研发出新型节能三机一体，省电70%以上；
- 行业首创直接冷却160度水温机，降温速度缩短80%；
- 业绩保持50%以上的增量。

2009 抓住机遇 高歌猛进

- 成立拓斯达商学院；
- 成为海天注塑机合格配套供应商；市场成交客户量突破一千家；
- 二厂正式成立，钣金完全自制，产量再上新台阶。

2010 系统整合 整体输出

- 无锡分公司成立，设立上海、昆山、苏州等地办事处；
- 与清华大学强强联手，引入最先进的企业管理理念，成立拓斯达商学院；
- 成功并购机械手生产厂商，成为自动化系统输出全套产业链运营商，产能扩大5倍以上。

2011 众志成城 阔步前行

- 自主研发的三轴、五轴伺服机械手下线，通过客户验证并获得广泛好评；
- 建立整体设备维修外包规模60人以上的客服中心，提供全方位的维修外包服务；
- “华南塑料工业高峰论坛”在商学院正式成立。

2012 立足国内 布局全球

- 外贸部成功打开东南亚、欧洲、南美洲等地市场；
- 市场部迈入正轨，覆盖全国；
- 与华南理工大学签署产学研合作协议；
- 获得国家高新技术企业称号。

2013 增资扩产 海纳百川

- 投资6亿扩产，建设国内最大的自动化制造基地，该项目被纳入东莞市重点建设项目；
- 成立浙江分公司；
- 机械手获得广东省名牌产品，多项产品通过CE认证；
- 面向全球引进人才，组建自动化项目部；
- 成功导入3D打印机项目。

2014 成功上市 乘风破浪

- 被评为“福布斯中国非上市潜力企业百强”，排第30名；
- 荣获高工机器人“全球奖”；
- 汽车领域专用大吨位牛头机成功下线应用于客户现场；
- 9月81亩地新厂区奠基开工，届时将成为华南最大的自动化生产基地；
- 12月成功在新三板挂牌上市（股票代码：831535）并实现同步定增，引入第二轮风投；
- 北京、武汉两大营销中心成立，并在全国各省市新设20多个办事处。

2015 布局深耕 逆势成长

- 申报创业板上市；被安永联合复旦评为“中国最具潜力企业”；
- 荣获4项高工机器人“全球奖”；
- 被工信部直属机构评选为“中国自动化领军企业”；
- 自动化行业首个在线平台“达云在线”上线运营，信息化建设高速前进；
- 与清华大学签订清大拓斯达机器人开发框架合作协议；

2016 合纵连横 打造生态

- 战略合作签约ABB，携手国际巨头，打造机器人生态圈；
- 本体TSR090-05成功上市；
- 被评为首批“广东省机器人骨干企业”；广东省机器人名牌产品；
- 确立四大事业部，商学院、机器人研究院，矩阵式组织架构；
- 创业板上市成功过会；

2017 研发生产 智能制造

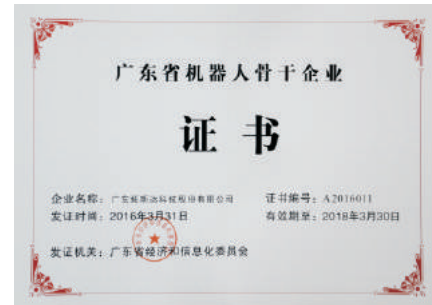
- 登陆创业板，股票代码 300607；
- ABB亚洲价值服务商最具创新奖；
- 3项机器人自动化发明专利；

What we are proud of is
not just history.....

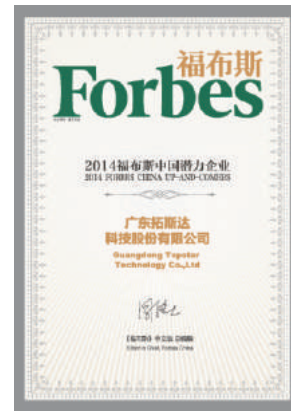
骄傲,不仅仅是历史.....

资质评定 Qualification evaluation

拓斯达坚持技术为王的经营理念，先后取得了各项高新技术企业的资质和认证，为客户提供最先进和高端的产品。TOPSTAR adheres to the business philosophy, which puts technology in the dominant position. It has successively obtained many qualifications and certifications of high-tech enterprises, and provided the most advanced and high-end product to customers.



国家级高新技术企业认证
欧盟CE认证
ISO9001质量体系认证
广东省名牌机器人
广东省名牌机械手
机器人控制系统软件著作权5项
累计产品技术专利100项
广东省级企业技术中心
华南理工大学产学研合作基地
校企合作实践基地
.....



National high-tech enterprise certification
CE Certification
ISO9001 Quality System Certification
Guangdong Province Top Brand Robot
Guangdong Province Top Brand Manipulator

Five kinds of copyright in software of Robot control system
100 technology patents for products
Guangdong provincial enterprise technology center
South China University of Technology production and research cooperation base
School-enterprise cooperation practice base

行业影响 Development History

拓斯达致力于为客户打造健康机器人生态圈，提供有竞争力的自动化解决方案和服务。与国内外知名企业保持良好的合作关系，更好服务行业发展和客户需求。

TOPSTAR committed to creating a healthy robot ecosystem for customers, provided competitive automation solutions and services. And it established a good working relationship with famous domestic and foreign enterprises, provided a better service for industry development and customer demand.



A

A



THD系列普通型干燥机
THD Series Hopper Dryers

A-1

THD系列不锈钢干燥机
THD Series Stainless Hopper Dryers

A-3

TCD系列箱型干燥机
TCD Series Cabinet Dryers

A-5

TDH系列蜂巢式转轮除湿机
TDH Series Honeycomb Rotor Dehumidifiers

A-7

TDA系列三机一体
(节能除湿干燥机)
TDA Series 3 in 1 Heatless Dehumidifying
Dryers-Energy saving type

A-9

TDB系列三机一体
(蜂巢转轮型三机一体)
TDB Series 3 in 1 Compact
Dehumidifying Dryers

A-13

TDA、TDB双筒式三机一体
TDA,TDB Double hopper 3 in 1
compact dehumidifying dryer

A-17

TDN氮气三机一体
TDN Nitrogen Dryer Series

A-20

THD系列普通型干燥机 THD Series Hopper Dryers

除湿干燥系统
Drying and Dehumidifying System



主要用于塑料颗粒的干燥。用高温热风处理各种潮湿的原料，使原料充分干燥，确保产品质量。装料容量从12~600公斤可供选择。可加装排风过滤(选配)，过滤粉尘避免空气污染，确保工作环境之整洁。加装热风回收(选配)，使热风形成半封闭循环回路，加速热风循环速度，能降低损耗，省电30%。

Hopper Dryers are mainly applied to plastic material drying. Hot air is used to dry all wet materials which gain an even hot air flow to improve drying efficiency for assuring quality of products. Hopper capacities rang from 12kgs ~600kgs can be offered for selection. Exhaust air filter (option) can filter the dust-contain air effectively from discharging to the surrounding area. Hot air recyclers (option) to make hot air form a semi-closed circulated loop to speed up hot air circulation for shorten heating time to achieve energy saving up to 30%.

特点 Features

◆原料接触面为全不锈钢设计，确保原料不被污染。

All material contact surfaces are made of stainless steel to avoid material contamination.

◆精密压铸的铝质外壳，表面光滑，保温性能好。

Precise aluminum casting hopper barrel features smooth surface & good performance on temperature keeping.

◆隔尘静音风机可隔绝尘埃，确保原料不受污染。

Sound-proof blower with anti-dust design eliminates dust for ensuring material free from contamination.

◆桶体机座设计有视料窗，可直接观察内部工作情况。

Hopper barrel is fitted with see-through windows to observe inside material level.

◆上吹式干燥机发热管弯型设计，避免因原料落入管内而引起发热管损坏。

Hot air inlet elbow design can prevent dust piling up at the bottom of the heaters to avoid burning.

◆采用均匀分散热风之高性能热风扩散装置，保持塑料干燥温度均匀，增加干燥效率。

To adopt hot air diffuser for acquiring an even hot air flow to improve drying efficiency.

◆桶身与料斗分离式设计，方便清料的。

Hopper barrel separated from its base for easy cleaning.

◆具有超温过载等安全保护装置。

Safety device with overheat and overload protection.

◆各机种可选配定时装置。

24 hours auto start/stop timers are available as option.

◆配备入料口盖，方便吸料机的安装。

Equipped with the flap, convenient suction machine installation

选择加装配件 Options



磁力底座
Magnetic Seat



料斗磁石磁力架
Hopper Magnet



热风回收过滤器
Hot Air Recycler



排风过滤器
Exhaust Air Filter

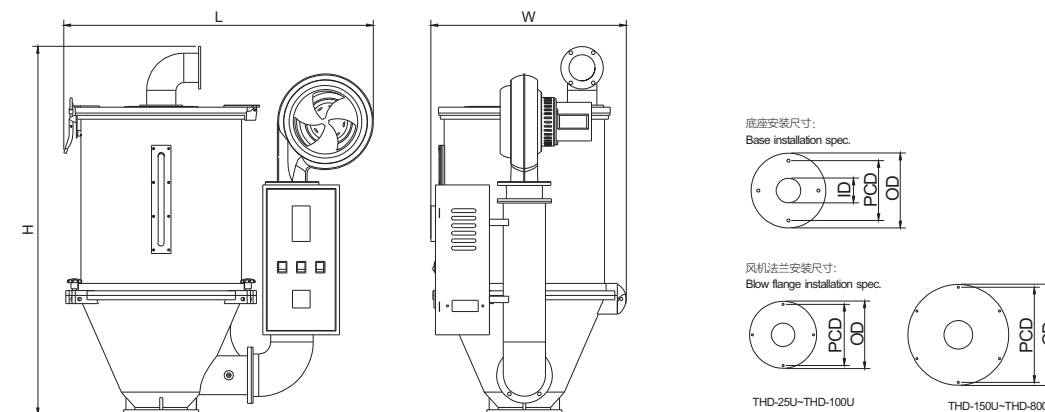


吸料箱
Material suction box



脚架
Floor Stand

产品结构图 Product Structure Diagram



规格表 Specification Sheet

| 产品型号 Model | THD-6U | THD-12U | THD-25U | THD-50U | THD-75U | THD-100U | THD-150U | THD-200U | THD-300U | THD-400U | THD-600U | |
|----------------------------|-----------------|---|----------|----------------------------|----------|------------------------------|-----------|---------------|-----------------------------|-----------|----------------|-------|
| | THD-6UT | THD-12UT | THD-25UT | THD-50UT | THD-75UT | THD-100UT | THD-150UT | THD-200UT | THD-300UT | THD-400UT | THD-600UT | |
| 料桶容量 Hopper Capacity | KG | 6 | 12 | 25 | 50 | 75 | 100 | 150 | 200 | 300 | 400 | 600 |
| 风机功率 Blower Power | W | 75 | 75 | 135 | 155 | 210 | 215 | 320 | 320 | 320 | 340 | 350 |
| 电热功率 Heater Power | KW | 1.8 | 1.8 | 3.0 | 4.0 | 4.0 | 6.0 | 9.0 | 12.0 | 12.0 | 15.0 | 21.0 |
| 干燥温度 Drying temp | ℃ | 最高150 | | | | | | | | | | |
| 出口口径 Outlet Size | inch | 1.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 3.5 | 5 | 3.5 | 5 | 6 |
| 桶身直径 Hopper Body Dia. | M | 0.26 | 0.26 | 0.348 | 0.422 | 0.495 | 0.562 | 0.6 | 0.76 | 0.71 | 0.892 | 0.992 |
| 法兰ID 直径 Flange ID Dia. | M | 0.052 | 0.052 | 0.066 | 0.066 | 0.066 | 0.076 | 0.085 | 0.11 | 0.11 | 0.12 | 0.13 |
| 法兰PCD 直径 Flange PCD Dia. | M | 根据实际开孔 Openings according to the actual | | | | | | | | | | |
| 法兰OD 直径 Flange OD Dia. | M | 0.128 | 0.128 | 0.17 | 0.2 | 0.2 | 0.23 | 0.23 | 0.095 | 0.295 | 0.31 | 0.32 |
| 风机PCD 直径 Blower PCD Dia. | M | 0.136 | 0.136 | 0.163 | | 0.208 | | 0.254 | | | | |
| 风机OD 直径 Blower OD Dia. | M | 0.148 | 0.148 | 0.18 | | 0.22 | | 0.27 | | | | |
| 系统电源 Power Supply | V | 380VAC 3P/PE 50Hz | | | | | | | | | | |
| 控制电源 control voltage | V | 220VAC IP/PE 50Hz | | | | | | | | | | |
| 总功率 Total Power | KW | 2 | 2 | 3.5 | 4.5 | 4.5 | 6.4 | 9.5 | 12.5 | 12.5 | 15.5 | 21.6 |
| 电源线规格 Wires Specifications | mm ² | 5 × 1.5 | 5 × 1.5 | 5 × 1.5 | 5 × 2.5 | 4 × 4 + 1 × 2.5 | | 4 × 6 + 1 × 4 | | | 4 × 10 + 1 × 6 | |
| 电源线长度 Wires Length | M | 3.5 | 3.5 | 3.5 | 3.5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 外观尺寸 Dimensions | L(mm) | 0.6 | 0.6 | 0.75 | 0.826 | 0.94 | 0.97 | 1.1 | 1.29 | 1.29 | 1.5 | 1.54 |
| | W(mm) | 0.4 | 0.4 | 0.48 | 0.49 | 0.586 | 0.684 | 0.728 | 0.9 | 1.0 | 1.058 | 1.158 |
| | H(mm) | 0.58 | 0.65 | 0.86 | 0.982 | 1.03 | 1.166 | 1.4 | 1.5 | 1.66 | 1.8 | 2.1 |
| 机器重量 Weight | KG | 35 | 40 | 45 | 50 | 60 | 75 | 80 | 120 | 125 | 170 | 250 |
| 选配配件 Optional Accessories | | 1.磁力底座 Magnet Seats | | 2.磁力架 Hopper Magnets | | 3.热风回收过滤器 Hot Air Recyclers | | | 4.排风过滤器 Exhaust Air Filters | | | |
| | | 5.L型脚架 L Type Floor Stands | | 6.A型脚架 A Type Floor Stands | | 7.吸料箱 Material Suction Boxes | | | | | | |

产品编号如"THD-12U"表示不带定时器;"THD-12UT"表示带定时器

注:产品规格若有变更,恕不另行通知。 We reserve right to change specifications without prior notice

除湿干燥系统
Drying and Dehumidifying System

THD系列不锈钢干燥机 THD Series Stainless Hopper Dryers

除湿干燥系统
Drying and Dehumidifying System



一体成型设计且桶身内外采特殊抛光处理。采用“热风下吹式”和“空气旋风排气”原理，能保证干燥效果均匀统一。不锈钢材质，确保原料不受污染，特别适用于光学级产品。

Stainless and polished one-unit design ensures material free from contamination. It adapts "Hot Air Down-Blowing" and "Cyclonic Air Exhausting" principle to ensure uniform dry efficiency. All these models are particularly for optics.

不锈钢干燥机获得实用新型专利
Practical New Patent for Stainless Hopper Dryers
专利号/Patent No: ZL 201120302379.3

特点 Features

- ◆采用双层不锈钢材质制成，保温效果极好，节省能源。

Double-layer stainless steel hopper dryer features with superior temperature keeping to improve energy saving greatly.

- ◆配备入料口盖，方便吸料机的安装。

The material inlet lid of hopper is equipped for easy installation of auto loader.

- ◆采用“热风下吹式”和“空气旋风排气”原理，保证干燥效果均匀统一。

Drying under the principle of hot air down-blowing and cyclone air exhausting result in consistent drying effects evenly.

- ◆可调式过热安全保护装置。

Adjustable overheat safety thermostat.

- ◆标准外接式绝缘主电源。

Main power isolator externally installed as standard.

- ◆桶体机座设计有视料窗，可直接观察内部工作情况。

Hopper barrel is fitted with see-through windows to observe inside material level.

- ◆具有超温过载等安全保护装置。

Hopper barrel separated from its base for easy cleaning. Safety device with overheat and overload protection.

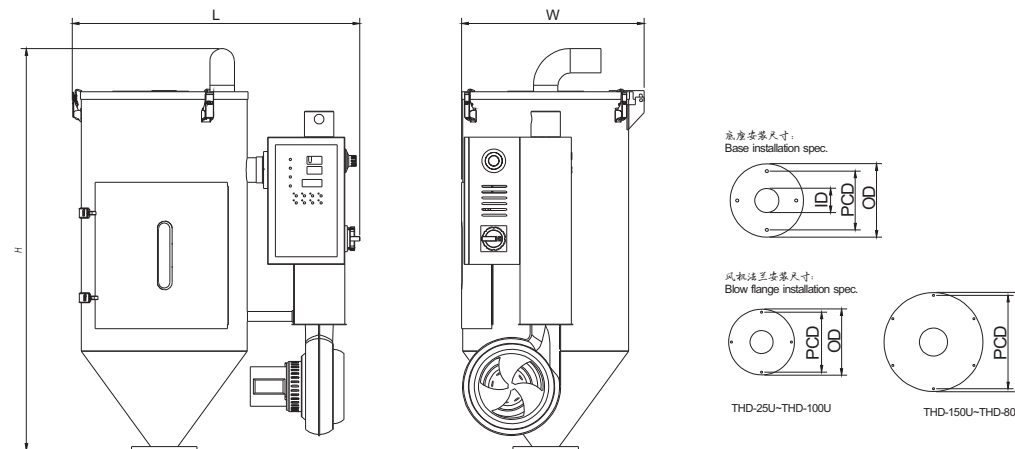
- ◆各机种配定时装置

24 hours auto start/stop timers as standard.

选择加装配件 Options

- | | |
|------------|---------------------------|
| 1. 磁力底座 | 1. Magnetic Seats |
| 2. 料斗磁石磁力架 | 2. Hopper Magnet |
| 3. 热风回收过滤器 | 3. Hot Air Recyclers |
| 4. 排风过滤器 | 4. Exhaust Air Filters |
| 5. 吸料箱 | 5. Material suction boxes |
| 6. 脚架 | 6. Floor Stand |

产品结构图 Product Structure Diagram



规格表 Specification Sheet

| 产品型号 Model | THD-6DT | THD-12DT | THD-25DT | THD-50T | THD-75DT | THD-100DT | THD-150DT | THD-200DT | THD-300DT | THD-400DT | THD-500DT | THD-600DT | THD-800DT | THD-1000DT | THD-1500DT | THD-2000DT | THD-2400DT |
|----------------------------|-----------------|---|-----------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|-----------|-----------|------------|------------|------------|------------|
| 料桶容量 Hopper Capacity | KG | 6 | 12 | 25 | 50 | 75 | 100 | 150 | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | 1500 | 2400 |
| 风机功率 Blower Power | W | 75 | 75 | 135 | 155 | 210 | 215 | 320 | 320 | 340 | 340 | 1000 | 1500 | 1500 | 2200 | 2200 | 3700 |
| 电热功率 Heater Power | KW | 0.9 | 1.8 | 3 | 4 | 4 | 6 | 9 | 12 | 15 | 18 | 21 | 21 | 24 | 32 | 48 | 32 |
| 干燥温度 Drying temp | ℃ | 150 (150℃ - 180℃ 选配 Option) | | | | | | | | | | | | | | | |
| 出口口径 Outlet Size | inch | 1.5 | 1.5 | 1.5 | 2 | 2 | 2.5 | 2.5 | 2.5 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 6 |
| 内桶直径 Inside Hopper | M | 0.2106 | 0.25 | 0.287 | 0.387 | 0.422 | 0.457 | 0.512 | 0.607 | 0.67 | 0.856 | 0.9 | 0.9 | 1 | 1.2 | 1.2 | 1.4 |
| 外桶直径 Outside Hopper | M | 0.253 | 0.293 | 0.33 | 0.43 | 0.465 | 0.5 | 0.595 | 0.69 | 0.754 | 0.844 | 0.94 | 0.985 | 0.944 | 1.05 | 1.25 | 1.5 |
| 法兰ID直径 Flange ID Dia. | M | 0.04 | 0.04 | 0.05 | 0.05 | 0.065 | 0.065 | 0.065 | 0.0762 | 0.1 | 0.1 | 0.1 | 0.11 | 0.11 | 0.11 | 0.11 | 0.1 |
| 法兰PCD直径 Flange PCD Dia. | M | 0.09 | 0.09 | 0.125×0.125 | 0.13×0.13 | 0.13×0.13 | 0.13×0.13 | 0.13×0.13 | 0.15×0.2 | 0.15×0.2 | 0.21×0.25 | 0.21×0.25 | 0.2 | 0.2 | 0.2 | 0.2 | 0.21×0.25 |
| 法兰OD直径 Flange OD Dia. | M | 0.12 | 0.12×0.12 | 0.175×0.175 | 0.175×0.175 | 0.175×0.175 | 0.175×0.175 | 0.175×0.175 | 0.175×0.175 | 0.18×0.245 | 0.18×0.245 | 0.25×0.3 | 0.25×0.3 | 0.23 | 0.23 | 0.23 | 0.25×0.3 |
| 风机PCD直径 Blower PCD Dia. | M | 0.07 | 0.136 | | | | 0.208 | | | 0.254 | | | | | | 0.27 | |
| 风机OD直径 Blower OD Dia. | M | 0.1 | 0.148 | | 0.18 | | 0.22 | | | 0.27 | | | | | | 0.3 | |
| 系统电源 Power Supply | V | 380VAC 3P/PE 50Hz | | | | | | | | | | | | | | | |
| 控制电源 control voltage | V | 220VAC 1P/PE 50Hz | | | | | | | | | | | | | | | |
| 总功率 Total Power | KW | 1 | 2.1 | 3.4 | 4.4 | 4.4 | 6.4 | 9.5 | 12.5 | 15.5 | 18.5 | 21.5 | 22.5 | 25.5 | 33.8 | 50.5 | 36 |
| 电源线规格 Wires Specifications | mm ² | 5*1.5 | 5*1.5 | 5*2.5 | 5*2.5 | 5*2.5 | 4*4+1*2.5 | 4*4+1*0.5 | 4*6+1*4 | 4*6+1*4 | 4*10+1*6 | 4*10+1*6 | 4*10+1*6 | 4*16 | 4*25 | 4*25 | 4*25 |
| 电源线长度 Wires Length | M | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | | | |
| 外观尺寸 Dimensions | L(mm) | 0.49 | 0.525 | 0.605 | 0.715 | 0.74 | 0.8 | 0.95 | 1.05 | 1.14 | 1.26 | 1.36 | 1.49 | 1.86 | 1.35 | 1.55 | 2.18 |
| | W(mm) | 0.36 | 0.36 | 0.57 | 0.66 | 0.67 | 0.69 | 0.85 | 0.9 | 0.91 | 0.98 | 1.05 | 1.1 | 1.25 | 1.05 | 1.25 | 1.62 |
| | H(mm) | 0.55 | 0.65 | 0.88 | 1.09 | 1.26 | 1.385 | 1.55 | 1.64 | 1.76 | 1.86 | 2.02 | 2.57 | 2.75 | 2.5 | 2.8 | 4.11 |
| 机器重量 Weight | KG | 30 | 30 | 47 | 63 | 65 | 95 | 130 | 155 | 186 | 225 | 260 | 280 | 320 | 380 | 500 | 580 |
| 选配配件 Optional Accessories | | 1.磁力底座 Magnet Seats 2.磁力架 Hopper Magnets 3.热风回收过滤器 Hot Air Recyclers 4.排风过滤器 Exhaust Air Filters 5.L型脚架 L Type Floor Stands 6.A型脚架 A Type Floor Stands 7.吸料箱 Material Suction Boxes | | | | | | | | | | | | | | | |

注：产品规格若有变更，恕不另行通知

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除湿干燥系统
Drying and Dehumidifying System

TCD系列箱型干燥机 TCD Series Cabinet Dryers

除湿干燥机系统
Drying and Dehumidifying System



主要用于塑胶原料的乾燥，尤其处理少量多样或测试用之塑胶的乾燥，可免除换料、清料之困扰，节省工时。全机采用精密PID电子温度控制，24小时开关机定时功能，操作简单，性能稳定，能耗更低，乾燥最高温度达250℃。

Cabinet Dryers are mainly applied to plastic material drying, particularly for simultaneous drying various plastic materials with small quantities or for trial molding purpose. It can avoid annoy on changing and cleaning plastic materials to save working time. All these models adapt precise P.I.D temperature control to have the function of 24 hours timer for start/ close dryer at setting time and drying temperature up to 250. This series is with superior features on easy operation, stable function, and low consumption.

特点 Features

◆采用PID温度控制系统,提供均匀的烘干效果。

To adapt P.I.D temperature control system for achieving an even dry effect.

◆高温密封门保持一致的温度和降低电力的损耗。

Air-proofed insulated door can keep temperature constantly inside to reduce energy consumption.

◆不锈钢烤盘，可防止烘干过程中污染原料。

Stainless Steel tray can ensure material free from contamination.

◆高效率之回圈热风回收再利用设计，省电、耐用，可同时乾燥多种塑胶，节省能源。

High efficient return air recycling for significant power saving and can simultaneously dry various materials.

◆可调式空气阀门设计,入风口,排风口均采用可调式设计,可方便调节风量。

Adjustable air inlet and outlet design, easy for adjust air capacities.

◆可调式超温保护器,避免超温乾燥。

Adjustable overheat protector can prevent excessive drying.

◆具有超温过载等安全保护装置。

Hopper barrel separated from its base for easy cleaning.

◆配备警示灯,可立即反应故障。

Alarm lamp is fitted for indicating malfunction immediately.

◆马达过载保护及故障指示,方便维护保养。

Motor overload protection and malfunction indication, easy maintenance.

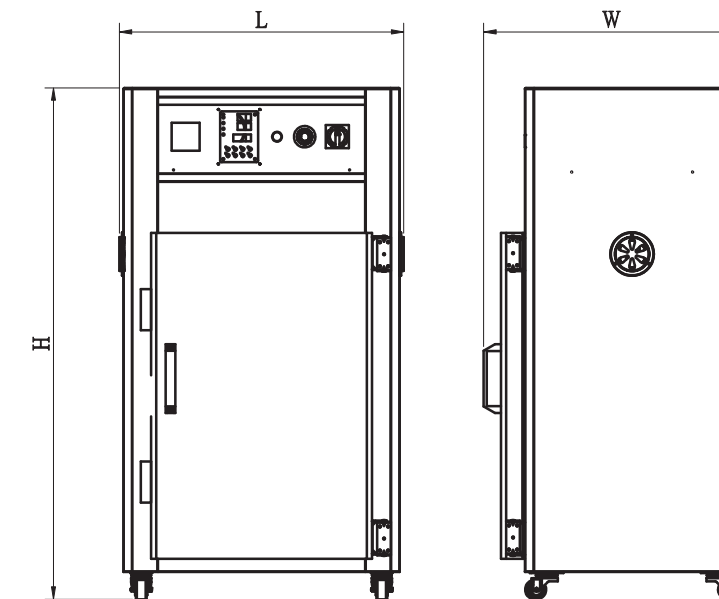
◆活动式台车设计,方便移动。

Caster wheels design for easy moving.

◆配有24小时定时装置,可预先设定任何时间,予以乾燥,操作方便。

24 hours auto start/stop timers can be set at anytime for drying, easy operation.

产品结构图 Product Structure Diagram



除湿干燥机系统
Drying and Dehumidifying System

规格表 Specification Sheet

| 型号Model | | TCD-5 | TCD-9 | TCD-20 |
|------------------------------|----|-------------------|--------------|----------------|
| 内部尺寸Inside Dimensions HxWxD | m | 0.5*0.6*0.55 | 0.9*0.6*0.55 | 2.5*1.5*1.4 |
| 外部尺寸Outside Dimensions HxWxD | m | 1.1*0.62*0.8 | 1.5*0.62*0.8 | 1.44*1.58*2.54 |
| 电热功率Heater Power | kw | 4 | 4 | 6 |
| 风轮马达功率Blower | kw | 0.37 | 0.37 | 1 |
| 温控范围Temperature Range | ℃ | | | |
| 盘架数Num. of Trays | | 5 | 9 | 20 |
| 装料量Capacity | kg | 45 | 81 | 180 |
| 重量Weight | kg | 110 | 140 | 400 |
| 电源Voltage | V | 380VAC 3P/PE 50Hz | | |

注: 产品规格若有变更, 恕不另行通知

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TDH系列蜂巢式转轮除湿机

TDH Series Honeycomb Rotor Dehumidifiers

除湿干燥机系统
Drying and Dehumidifying System



主要与热风式干燥机搭配,专门对吸湿性较强的工程塑料(如: Nylon, PC, PBT, PET等)进行高效率的除湿干燥作业,该系列采用高效能转轮,在理想状态下,能确保-40℃露点的稳定除湿效果。干燥风量50~3000 m3/hr。

Honeycomb Rotor Dehumidifier are mainly to work with hopper dryers together which are specialized for drying engineering plastics to contain high hygroscopicity such as Nylon, PC, PBT, PET etc. It adapts high efficiency rotor which can ensure dew-point at -40℃ with stable dehumidifying effect. The drying air flow ranges from 50~3000 m3/hr.

特点 Features

- ◆ 采用PID温度控制系统,可精准控制再生温度,确保露点的稳定性。

To adopt P.I.D temperature controller to accurately control regenerative temperature to ensure dew-point stable.

- ◆ 采用双冷却器结构,确保更低回风温度及露点。

To employ double coolers for ensuring lower return air temperature and dew-point value.

- ◆ 内部装有回风过滤器,确保蜂巢转轮不受原料粉尘污染。

Return air filter is installed inside to ensure no powder & dust contamination to the honeycomb rotor.

- ◆ 采用进口蜂巢状除湿转轮,为干燥机提供露点-40以下的成型条件。

To adopt imported honeycomb rotor for providing molding condition with dew-point -40℃ & even below for hoper dryer

- ◆ 采用硅胶吸附式蜂巢除湿,再生温度只需180℃,相对于分子筛结构需200℃以上的再生温度要节约能源。

To adopt silica gel absorption honeycomb with low regenerative temperature at 180℃ which can save more power if compare with molecular sieve structure with regenerative temperature at 200℃ above.

- ◆ 采用国外高级进口零部件,提高性能及延长使用寿命,节省维修成本。

Using imported superb parts which enhance function and extend service life for saving maintenance cost.

- ◆ 外型粉体烤漆,美观大方。

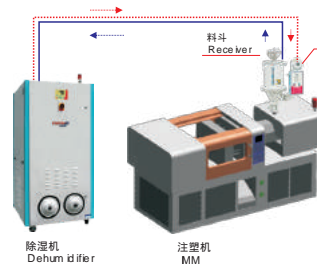
Powder coated frame of machine with exquisite appearance.

- ◆ 结构简单紧凑,机器占地小,节省空间,移动方便,可任意更换,机台使用,设计人性化方便保养维修。

Compact construction; small footprint to save space; move conveniently for any machines use; optimum design for easy maintenance.

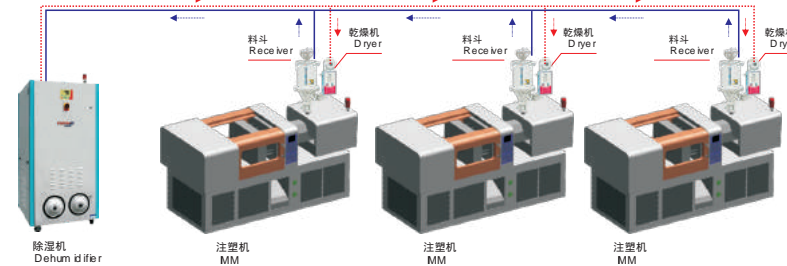
一对一除湿系统

One to One Dehumidifying System



一对多除湿系统

One to Multiple Dehumidifying System



规格表 Specification Sheet

| 产品型号 Model | TDH-50 | TDH-80 | TDH-120 | TDH-150 | TDH-200 | TDH-300 | TDH-400 | TDH-500 | TDH-700 | TDH-1000 | TDH-1500 | TDH-2000 | TDH-3000 |
|---------------------------------|---------------------------|-------------------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| 除湿风量 Dehumidifying Air Capacity | CMH | 50 | 80 | 120 | 150 | 200 | 300 | 400 | 500 | 700 | 1000 | 1500 | 2000 |
| 除湿马达 Dehumidifying Motor | KW | 0.37 | 0.75 | 1.1 | 1.5 | 2.2 | 4 | 5.5 | 7.5 | 3.7 | 9 | 18 | 26 |
| 再生马达 Regen. Motor | KW | 0.18 | 0.25 | 0.37 | 0.37 | 0.55 | 0.75 | 0.75 | 1.5 | 1.5 | 2.4 | 3.4 | 5.5 |
| 再生电热 Regen. Heater | KW | 2 | 3 | 4 | 4 | 6 | 8 | 8 | 10 | 12 | 15 | 20 | 30 |
| 除湿口径 Pipe Size | inch | 2 | 2 | 2 | 2.5 | 2.5 | 3 | 3 | 4 | 5 | 6.5 | 6.5 | 6.5 |
| 转轮马达功率 Rotor Motor Capacity | W | 15 | | | 40 | | | 60 | | 60 | | 120 | |
| 系统电源 Power Supply | V | 380VAC 3P/PE 50Hz | | | | | | | | | | | |
| 控制电压 Control Voltage | V | 220VAC 1P/PE 50Hz | | | | | | | | | | | |
| 总功率 Total Power | KW | 2.7 | 4.2 | 5.6 | 6 | 10 | 13 | 14.5 | 20 | 18 | 26.5 | 41.5 | 51.6 |
| 电源线规格 Wires Specifications | mm ² | 4x2.5 | 4x2.5 | 4x4 | 4x4 | 4x4 | 4x6 | | 3x10+1X6 | 4x10 | 4x10 | 4x16 | 4x25 |
| 电源线长度 Wires Length | M | 5 | | | | | | | | | | | |
| 外观尺寸 Dimensions | L(m) | 0.74 | 0.79 | 0.79 | 0.883 | 0.883 | 1.02 | 1.02 | 1.37 | 1.37 | 1.37 | 1.91 | 2.15 |
| | W(m) | 0.632 | 0.72 | 0.72 | 0.8 | 0.8 | 0.935 | 0.935 | 1.3 | 1.3 | 1.3 | 1.3 | 1.41 |
| | H(m) | 1.33 | 1.48 | 1.48 | 1.7 | 1.7 | 2 | 2 | 2.25 | 2.25 | 2.25 | 2.145 | 2.06 |
| 冷却水流量 Cooling Water Flow | GPM | 1.5 | | 3 | | | 9 | | | 15 | | 25 | |
| 冷却水接管 Cooling Water Pipe Size | inch | 3/4 | | | 1 | | | 1 | | | 1.5 | | |
| 机器重量 Weight | KG | 150 | 200 | 220 | 260 | 280 | 320 | 330 | 420 | 445 | 470 | 600 | 710 |
| 选配Option | 露点显示 Dew-point Indicators | | | | | | | | | | | | |

干燥能力 Drying Capacities

| 原料 Material | 干燥温度 Drying(1) Temperature (℃) | 干燥时间 Drying(2) Time (hr) | 比热 Specific Heat | 原料比重 Specific Gravity (kg/dm ³) | 干燥能力/Drying Capacities(kg/hr) | | | | | | | | | | | | | | | |
|-------------|--------------------------------|--------------------------|------------------|---|-------------------------------|--------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|--|--|--|
| | | | | | TDH-50 | TDH-80 | TDH-120 | TDH-150 | TDH-200 | TDH-300 | TDH-400 | TDH-500 | TDH-700 | TDH-1000 | TDH-1500 | TDH-2000 | TDH-3000 | | | |
| ABS | 80 | 2-3 | 0.34 | 0.6 | 18 | 27 | 35 | 71 | 105 | 180 | 210 | 285 | 355 | 425 | 710 | 1065 | 1500 | | | |
| CA | 75 | 2-3 | 0.5 | 0.5 | 15 | 22 | 30 | 60 | 90 | 150 | 180 | 235 | 295 | 355 | 590 | 885 | 1200 | | | |
| CAB | 75 | 2-3 | 0.5 | 0.5 | 15 | 22 | 30 | 60 | 90 | 150 | 180 | 235 | 295 | 355 | 590 | 885 | 1200 | | | |
| CP | 75 | 2-3 | 0.6 | 0.6 | 18 | 27 | 35 | 71 | 106 | 180 | 210 | 285 | 355 | 425 | 710 | 1060 | 1500 | | | |
| LCP | 150 | 4 | 0.6 | 0.6 | 13 | 20 | 27 | 55 | 80 | 135 | 160 | 210 | 265 | 320 | 530 | 800 | 1150 | | | |
| POM | 100 | 2 | 0.35 | 0.6 | 27 | 40 | 53 | 105 | 160 | 265 | 320 | 425 | 530 | 640 | 1060 | 1600 | 2400 | | | |
| PMMA | 80 | 3 | 0.35 | 0.65 | 19 | 29 | 38 | 77 | 115 | 192 | 230 | 307 | 383 | 460 | 767 | 1150 | 1530 | | | |
| IONOMER | 190 | 3-4 | 0.55 | 0.5 | 11 | 17 | 22 | 44 | 66 | 111 | 133 | 177 | 220 | 265 | 442 | 663 | 1000 | | | |
| PAB6.66.10 | 75 | 4-6 | 0.4 | 0.65 | 10 | 14 | 19 | 38 | 58 | 96 | 115 | 153 | 192 | 230 | 383 | 575 | 960 | | | |
| PA11 | 75 | 4-5 | 0.58 | 0.65 | 12 | 17 | 23 | 46 | 69 | 115 | 138 | 184 | 230 | 275 | 460 | 690 | 1000 | | | |
| PA12 | 75 | 4-5 | 0.28 | 0.65 | 12 | 17 | 23 | 46 | 69 | 115 | 138 | 184 | 230 | 275 | 460 | 690 | 1000 | | | |
| PC | 120 | 2-3 | 0.28 | 0.7 | 21 | 31 | 41 | 83 | 124 | 206 | 250 | 330 | 413 | 495 | 826 | 1238 | 2000 | | | |
| PU | 90 | 2-3 | 0.45 | 0.65 | 19 | 29 | 38 | 77 | 115 | 190 | 230 | 307 | 383 | 460 | 767 | 1150 | 1530 | | | |
| PBT | 130 | 3-4 | 0.3-0.5 | 0.7 | 15 | 23 | 31 | 62 | 93 | 155 | 186 | 248 | 310 | 372 | 620 | 930 | 1103 | | | |
| PE | 90 | 1 | 0.55 | 0.6 | 53 | 80 | 106 | 212 | 318 | 531 | 637 | 850 | 1062 | 1275 | 2125 | 3185 | 4000 | | | |
| PEI | 150 | 3-4 | 0.6 | 0.6 | 13 | 20 | 27 | 53 | 80 | 133 | 160 | 212 | 265 | 320 | 530 | 800 | 1200 | | | |
| PET | 160 | 4-6 | 0.3-0.5 | 0.85 | 13 | 19 | 25 | 50 | 75 | 125 | 150 | 200 | 250 | 300 | 500 | 750 | 1150 | | | |
| PETG | 70 | 3-4 | 0.6 | 0.6 | 13 | 20 | 27 | 53 | 80 | 133 | 160 | 212 | 265 | 320 | 530 | 800 | 1200 | | | |
| PEN | 170 | 5 | 0.85 | 0.85 | 15 | 23 | 30 | 60 | 90 | 150 | 180 | 240 | 300 | 360 | 600 | 900 | 1300 | | | |
| PES | 150 | 4 | 0.7 | 0.7 | 15 | 23 | 30 | 60 | 90 | 150 | 180 | 240 | 300 | 360 | 600 | 900 | 1300 | | | |
| PMMA | 80 | 3 | 0.65 | 0.65 | 19 | 29 | 38 | 77 | 115 | 190 | 230 | 307 | 383 | 460 | 765 | 1150 | 1530 | | | |
| PPO | 110 | 1-2 | 0.4 | 0.5 | 22 | 33 | 44 | 88 | 133 | 220 | 265 | 355 | 440 | 430 | 885 | 1330 | 1730 | | | |
| PPS | 150 | 3-4 | 0.6 | 0.6 | 13 | 20 | 27 | 53 | 80 | 133 | 160 | 212 | 265 | 320 | 530 | 800 | 1200 | | | |
| PI | 120 | 2 | 0.27 | 0.6 | 27 | 40 | 53 | 105 | 160 | 265 | 320 | 425 | 530 | 640 | 1060 | 1600 | 2400 | | | |
| PP | 90 | 1 | 0.46 | 0.5 | 44 | 66 | 88 | 180 | 265 | 442 | 530 | 710 | 885 | 1060 | 1770 | 2655 | 3500 | | | |
| PS(GP) | 80 | 1 | 0.28 | 0.5 | 44 | 66 | 88 | 180 | 265 | 442 | 531 | 708 | 885 | 1062 | 1770 | 2655 | 3500 | | | |
| PSU | 120 | 3-4 | 0.31 | 0.65 | 14 | 22 | 29 | 60 | 85 | 145 | 173 | 230 | 290 | 345 | 575 | 865 | 1300 | | | |
| PVC | 70 | 1-2 | 0.2 | 0.5 | 22 | 33 | 44 | 90 | 135 | 220 | 265 | 355 | 442 | 530 | 885 | 1330 | 1730 | | | |
| SAN(AS) | 80 | 1-2 | 0.32 | 0.5 | 22 | 33 | 44 | 90 | 135 | 220 | 265 | 355 | 442 | 530 | 885 | 1330 | 1730 | | | |
| TPE | 110 | 3 | 0.7 | 0.7 | 20 | 30 | 40 | 85 | 125 | 205 | 250 | 330 | 413 | 495 | 826 | 1238 | 1650 | | | |

备注: (1)使用独立的干燥料斗; (2)在20℃的大气温度及65%的相对湿度下,干燥后其水份含量低于0.05%。
Remark: (1)In an independent drying hopper; (2)Base on relative humidity 65% with ambient temperature of 20℃, moisture content after drying can be 0.05% or less.

注: 产品规格若有变更,恕不另行通知 We reserve right to change specifications without prior notice.

除湿干燥机系统
Drying and Dehumidifying System

TDA系列三机一体(节能除湿干燥机) TDA Series 3 in 1 Heatless Dehumidifying Dryers—Energy saving type

除湿干燥机系统
Drying and Dehumidifying System



节能型三机一体的设计系统更为简化，不仅减少系统之耗电量，功效高，超节能省电高达60%，且体积小，不占空间，特别适用于无尘车间。不需接冷却水，故移动方便。构造简单，机器信赖度高。全机采用微电脑控制，操作简单，性能稳定，能耗更低，干燥风量30~200 m³/hr。此外也针对光学级产品之生产制造而设计光学级节能型三机一体除湿干燥机，以满足客户不同之需求。

The energy saving type simplifies the design of system which reduces power consumption, high efficiency, ultra energy saving up to 60%. The design of machine appearance is compact to save space, ideal to high demands on limited space of clean workshop. It can move everywhere conveniently thanks to no requirement of cooling water for machines. The mechanical construction is simple to enhance machine reliable. The series design particularly for optic products. It adapts PLC controller with the superior features on easy operation, stable function, low power consumption. The drying air flow ranges from 30~200 m³/hr. In addition, we design optic class 3 in 1 compact heatless dehumidifying dryers (energy saving type) for optic products to satisfy with customers' various demands.

特点 Features

- ◆ 集除湿、干燥、二段送料三种功能于一体，并可选择三段送料功能。

To integrate the function of dehumidifying, drying and two-stage conveying into single unit. Three-stage conveying function is optional.

- ◆ 稳定供应-40露点的除湿空气大幅度提高产品品质。

To improve the quality of finished products greatly thanks to supply stable dehumidified at -40 dew-point.

- ◆ 耗电低、功效高。(每小时耗电量0.6度，传统型耗电2.5度)

Low power consumption, high efficiency (power consumption for energy saving type with reading 0.6 kW.h while conventional type with reading 2.5 kW.h)

- ◆ 双层保温干燥料桶采用下吹式风管设计，防止热能流失，提高干燥效率。

Double-wall insulated hopper dryers features down-blowing pipe design to avoid heat dispersion for improving drying efficiency.

- ◆ 全不锈钢上、下送料系统，避免原料污染。

Feeding system is made of stainless steel to eliminate material contamination.

- ◆ 封闭式循环除湿气及送料系统，可避免干燥后的原料因接触外界空气而再度回潮。

Closed-loop circulation for dehumidified air & feeding system to avoid the possibility of moisture regain for absorbing outside air during material conveying.

- ◆ 采用无触点固态继电器控制加热。(选配)

To adopt electromagnetic contactless relay control heating. (option)

- ◆ 故障智能警报，时间智能预约。

Intelligent microprocessor control for faulty alarm & pre-heating setting.

- ◆ 光学级除粉式三机一体专用于无尘或净化车间。

Optical-class powder-removing models are suitable for clean workshop.

- ◆ 多重保护装置。

Multiple safety protection device.

- ◆ 采用国外高级进口零组件，提高性能及延长使用寿命，节省维修成本。

Using imported superb parts which enhance function and extend service life for saving maintenance cost.

- ◆ 外型粉体烤漆，美观大方。

Powder coated frame of machine with exquisite appearance.

- ◆ 结构简单紧凑，机器占地小，节省空间，移动方便，可任意更换机台使用。

Compact construction; small footprint to save space; move conveniently for any machines use.

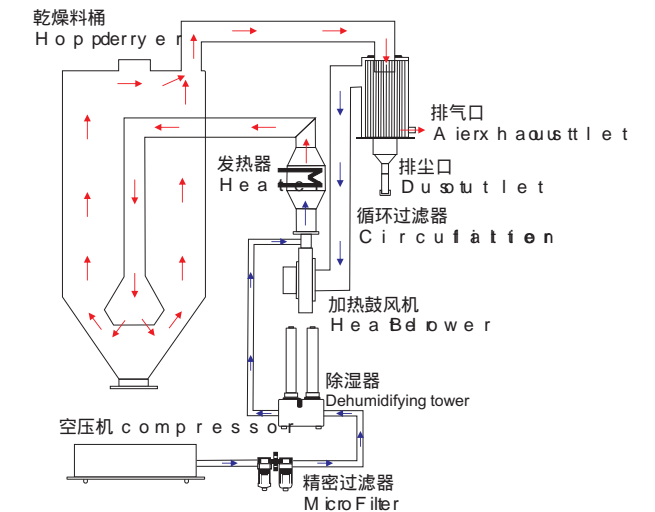
- ◆ 设计人性化方便保养维修。

optimum design for easy maintenance.

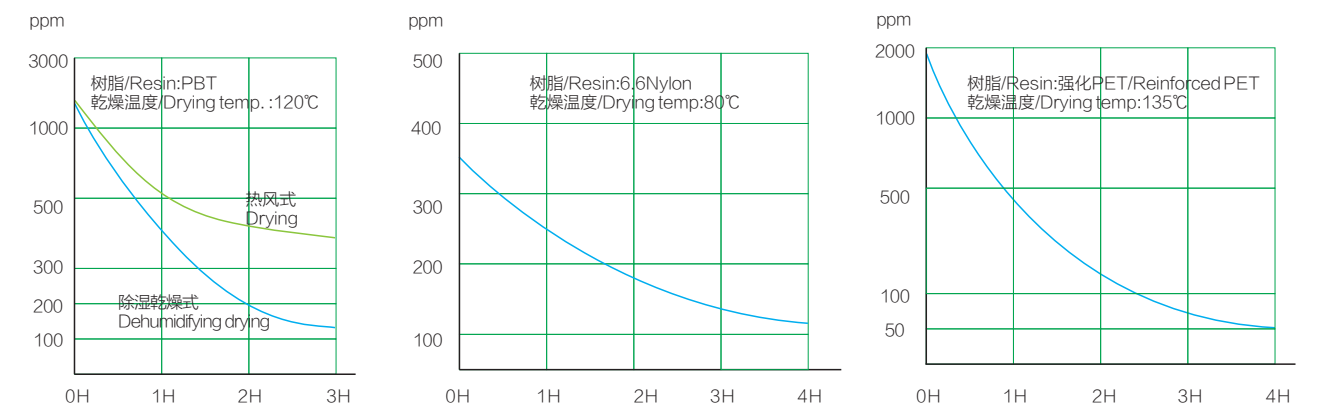
除湿干燥机系统
Drying and Dehumidifying System

干燥程式 Drying Procedure

- ◆ 在变缸除湿塔内急速降压的同时，就能获得-40的露点除湿气。
- ◆ Low dew point -40 of dehumidified air will be obtained simultaneously by reducing pressure rapidly in the dehumidifying tower.
- ◆ 除水除油筛检程式将车间送来的压缩空气中的水份及油份过滤清洁，再送到除湿塔。
- ◆ Excessive oil and water content from compressed air supply of workshop will be filtered before sending to dehumidifying tower.
- ◆ 把-40露点除湿气(单向输送)不停的送到密封式真空除湿料桶，将料桶内所有原材料的湿气吸干。
- ◆ -40 dew point of dehumidified air will be continuously delivered to close hopper dryer until moisture expelled to dried.
- ◆ 该系统是单向送气，无须使用再生除湿气。
- ◆ Air is delivered in one way direction under the system which no required regeneration of dehumidified air.



工程塑料干燥曲线图 Engineering Plastic Drying Curve Chart

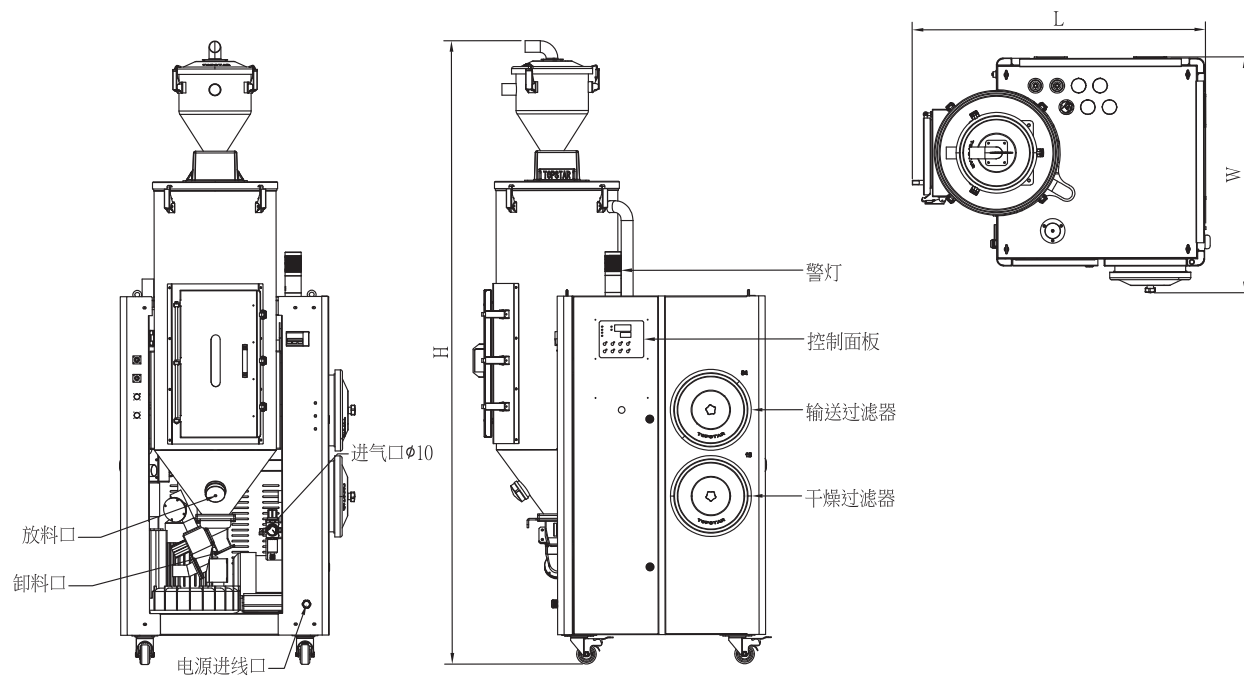


选择加装配件 Options



旋风分离器图
Cyclone Separator

产品结构图 Product Structure Diagram



| 机型 | TDA-15 | TDA-25 | TDA-50 | TDA-75 | TDA-100 | TDA-150 | TDA-200 | TDA-300 |
|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| L (mm) | 921 | 917 | 953 | 1158 | 1158 | 1280 | 1280 | 1481 |
| W (mm) | 766.5 | 766.5 | 766.5 | 836 | 836 | 942 | 942 | 951 |
| H (mm) | 1745 | 1795 | 2018 | 1992 | 2253 | 2365 | 2727 | 2800 |

规格表 Specification Sheet

| 产品型号 Model | | TDA-15 | TDA-25 | TDA-50 | TDA-75 | TDA-100 | TDA-150 | TDA-200 | TDA-300 | TDA-400 |
|-------------------------------------|-----------------|--|--------|--------|--------|---------|---------|---------|---------|---------|
| 料桶容量 Hopper Capacity | KG | 15 | 25 | 50 | 75 | 100 | 150 | 200 | 300 | 400 |
| 干燥电热功率 Drying Heater Capacity | KW | 3 | 3 | 4 | 4 | 6 | 9 | 12 | 15 | 18 |
| 干燥风机功率 Drying Blower Capacity | KW | 0.18 | 0.25 | 0.37 | 0.55 | 0.75 | 1.1 | 1.5 | 2.2 | 3.0 |
| 输送风机功率 Conveying Blower Capacity | KW | 0.75 | 0.75 | 0.75 | 0.75 | 1.1 | 1.1 | 1.1 | 1.5 | 1.5 |
| 处理风量 Air Capacity | L/min | 50 | 65 | 70 | 82 | 120 | 155 | 195 | 305 | 410 |
| 系统电源 Power Supply | V | 380VAC 3P/PE 50Hz | | | | | | | | |
| 控制电源 Control Voltage | V | 220VAC 1P/PE 50Hz | | | | | | | | |
| 总功率 Total Power | KW | 4.5 | 4.6 | 5.5 | 6 | 7.5 | 11.5 | 15 | 19 | 22.7 |
| 电源线规格 Wires Specifications | mm ² | 4x2.5 | 4x2.5 | 4x4.0 | 4x4.0 | 4x4.0 | 4x4.0 | 4x6.0 | 4x10 | |
| 电源线长度 Wires Length | M | 5 | | | | | | | | |
| 外观尺寸 Dimensions | L(m) | 0.82 | 0.82 | 0.9 | 0.94 | 1.05 | 1.26 | 1.29 | 1.69 | 1.75 |
| | W(m) | 0.76 | 0.76 | 0.83 | 0.86 | 0.9 | 0.93 | 0.93 | 1.036 | 1.12 |
| | H(m) | 1.6 | 1.8 | 1.9 | 2.06 | 2.18 | 2.3 | 2.39 | 2.85 | 2.81 |
| 露点 Dew point | °C | -40以下 Below -40 | | | | | | | | |
| 料管口径 Material Pipe Size | inch | 1.5 | | | | | | | | |
| 料斗(成型机上) Hopper Receiver | | SR-3E | | | | SR-6E | | | | |
| 机器重量 Weight | KG | 159 | 160 | 182 | 205 | 217 | 316 | 332 | 400 | 430 |
| 选配Option | | 1.露点显示 Dew-point Indicators 2.旋风分离器 Cyclone Separator 3.高温 High Temperature(150°C ~ 180°C) | | | | | | | | |

注：产品规格若有变更，恕不另行通知 We reserve right to change specifications without prior notice.

干燥能力 Drying Capacities

| 原料 Material | 干燥温度 Drying(1) Temperature (°C) | 干燥时间 Drying(2) Time (hr) | 干燥能力/Drying Capacities | | | | | | | | |
|----------------|--|-----------------------------------|------------------------|--------|--------|--------|---------|---------|---------|---------|---------|
| | | | TDA-15 | TDA-25 | TDA-50 | TDA-75 | TDA-100 | TDA-150 | TDA-200 | TDA-300 | TDA-400 |
| ABS | 80°C | 3-4 h | 3.5 | 5 | 10 | 18 | 25 | 38 | 50 | 76 | 100 |
| POM | 100°C | 2 h | 7.5 | 13 | 25 | 30 | 50 | 75 | 100 | 150 | 200 |
| PMMA | 80°C | 2-3 h | 7.5 | 12.5 | 17 | 22.5 | 35 | 46.5 | 58.5 | 100 | 133 |
| LONOMER | 90°C | 4-5 h | 3.2 | 5 | 10.5 | 12.5 | 20 | 25 | 36.5 | 60 | 80 |
| Pa6 | 75°C | 4-6 h | 3 | 4.5 | 9 | 10 | 17 | 25 | 34 | 50 | 68 |
| Pa6.6 | 75°C | 4-6 h | 3 | 4.5 | 9 | 10 | 17 | 25 | 34 | 50 | 68 |
| Pa6.10 | 75°C | 4-6 h | 3 | 4.5 | 9 | 11 | 17 | 25 | 34 | 50 | 68 |
| PC | 120°C | 3-4 h | 6 | 7.5 | 13 | 16.5 | 25 | 38 | 50 | 76 | 100 |
| PU | 90°C | 2-3 h | 7.5 | 12.5 | 17 | 22.5 | 35 | 46.5 | 58.5 | 100 | 133 |
| PBT | 130°C | 3-4 h | 6 | 8 | 13 | 17 | 24 | 36 | 48 | 72 | 76 |
| PE | 90°C | 1 h | 15 | 25 | 50 | 70 | 100 | 150 | 200 | 300 | 400 |
| PET | 160°C | 4-6 h | 5.5 | 7 | 9 | 12 | 17 | 25 | 34 | 50 | 68 |
| PETG | 70°C | 3-4 h | 6 | 7.5 | 13 | 16.5 | 25 | 38 | 50 | 72 | 100 |
| PPO | 110°C | 2 h | 10 | 15 | 25 | 37.5 | 50 | 75 | 100 | 150 | 200 |
| PP | 90°C | 1 h | 15 | 25 | 50 | 70 | 100 | 150 | 200 | 300 | 400 |
| PD(GP) | 80°C | 1 h | 15 | 25 | 50 | 70 | 100 | 150 | 200 | 300 | 400 |
| PSU | 120°C | 3-4 h | 5 | 7 | 13 | 17 | 27 | 36 | 50 | 72 | 100 |
| PVC | 70°C | 1 h | 15 | 25 | 50 | 70 | 100 | 150 | 200 | 300 | 400 |
| SAN(AS) | 80°C | 2 h | 10 | 15 | 25 | 37.5 | 50 | 75 | 100 | 150 | 200 |

注：产品规格若有变更，恕不另行通知 We reserve right to change specifications without prior notice.

TDB系列三机一体(蜂巢转轮型三机一体) TDB Series 3 in 1 Compact Dehumidifying Dryers

除湿干燥机系统
Drying and Dehumidifying System



陶瓷蜂巢转轮除湿机
Ceramics Honeycomb Rotor Dehumidifier
50-700风量 Air volume

+
全不锈钢保温下吹式干燥机
Full stainless insulated hopper dryer
(hot air down - blowing type)
15-800KG

+
全不锈钢二段或三段送料机
管中无料装置
Full stainless autoloader for 2-stage or 3-stage
conveying (no residual material in the pipe)

||
高质量高效率的干燥输送系统
High-quality and high-efficiency
drying delivery system

原料除尘装置获得实用新型专利
Practical New Patent for Dust Filter Device
专利号/Patent No: ZL 201120301776.9
该专利亦可应用节能型三机一体, 中央供料系统, 自动送料系统
The Patent can be applied to 3 in 1 Heatless Dehumidifying Dryers
(Energy - Saving type), Centralized Feeding System, Feeding & Conveying System

乃是集合除湿, 干燥, 送料三种功能于一机。三机一体的设计不占空间, 体积小特别适用于自动化程度高, 空间紧凑的场所。全机采用微电脑控制, 控制操作简单, 性能稳定, 能耗更低, 干燥风量50-700 m³/hr。此外也针对光学级产品之生产制造而设计光学级三机一体除湿干燥机, 以满足客户不同的需求。

This series integrate the function of dehumidifying, drying, and two-stage conveying into one unit with compact design to save space, ideal to high demands of automation system and limited working space. It adapts PLC controller with the superior features on easy operation, stable function, and low power consumption. The drying air flow ranges from 50-700 m³/hr. In addition, we design optic class 3 in 1 compact dehumidifying dryers for optic products to satisfy with customers' various demands.



特点 Features

◆标准型三机一体除湿机都配备蜂巢转轮, 可得到稳定性好的低露点干燥空气。

3 in 1 compact dehumidifying dryers are equipped with honeycomb rotor which can acquire stable low dew-point drying air.

◆集除湿、干燥、二段送料三种功能于一体, 并可选择三段送料功能。

To integrate the function of dehumidifying, drying and two-stage conveying into single unit. Three-stage conveying function is optional.

◆双层保温干燥料桶采用下吹式风管设计, 防止热能流失, 提高干燥效率。

Double-wall insulated hopper dryers features down-blowing pipe design to avoid heat dispersion for improving drying efficiency.

◆除湿系统用采用双冷却器结构, 确保更低回风温度及露点。

The dehumidifying system employ double coolers for ensuring lower return air temperature and dew-point value.

◆送料系统配备截料阀, 确保料管中无残余原料。

Feeding system is equipped with shut-off valve to ensure no remaining material in hopper tube.

◆多重保护装置。

Multiple safety protection device.

◆光学级机型所有原料接触面采用不锈钢镜面抛光处理, 并且搭配密闭回路的送料系统, 可避免干燥后的原料因接触外界空气而再度回潮。

Optical-class models use mirror polished treatment on the material contact surface to avoid material contamination and collocate feeding system with closed-loop in order to avoid the possibility of moisture regain for absorbing outside air during material conveying.

◆采用PID温度控制系统, 可精准控制再生温度, 确保露点的稳定性。

To adopt P.I.D temperature controller to accurately control regenerative Temperature to ensure dew-point stable.

◆内部装有回风过滤器, 确保蜂巢转轮不受原料粉尘污染。

Return air filter is installed inside to ensure no powder & dust contamination to the honeycomb rotor.

◆采用国外高级进口组件, 提高性能及延长使用寿命, 节省维修成本。

Using imported superb parts which enhance function and extend service life for saving maintenance cost.

◆外型粉体烤漆, 美观大方

Powder coated frame of machine with exquisite appearance.

除湿干燥机系统
Drying and Dehumidifying System

光学级三机一体除湿干燥机主零件

Main Components Optical Type of 3 in 1 Dehumidifying Dryers

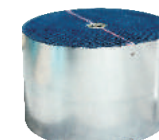
控制器 Control panel



提供数位设定及显示干燥温度、送料时间、系统运作状况及错误讯息。并设有密码、不同参数设定、干燥温度侦测等。

Provide digital setting and display drying temperature, material feeding time, system operation status and error information. And is equipped with password, different parameters setting, the drying temperature detection, etc

蜂巢转轮 Honeycomb Rotor



蜂巢式陶瓷除湿转轮是以陶瓷纤维为基材形成蜂巢转轮, 然后利用特殊化学合成两段长晶方法, 把吸湿剂硅胶和分子筛均匀长晶在陶瓷纤维转轮上, 使其具有极强吸湿能力。使用此转轮, 除湿干燥机可达到低至-40到-50之露点, 并可使效能大幅度提升。

The "pollution-free" honeycomb rotor is coated with molecular sieves and silica gel that are strongly bonded to ceramic fibers inside the rotor by special chemical crystallization. With the rotor, the dryer can provide low dew-point (-40degree), and performs all of these processes more quickly and more efficiently than any other dryer available.

HEPA过滤器 HEPA Filter



使用高效能之HEPA过滤器(0.3um/99.97%)以防止任何污染。

The unit uses a high-performance HEPA filter (0.3um/99.97%) as drying filter to prevent any contamination.

光学级管路 Piping



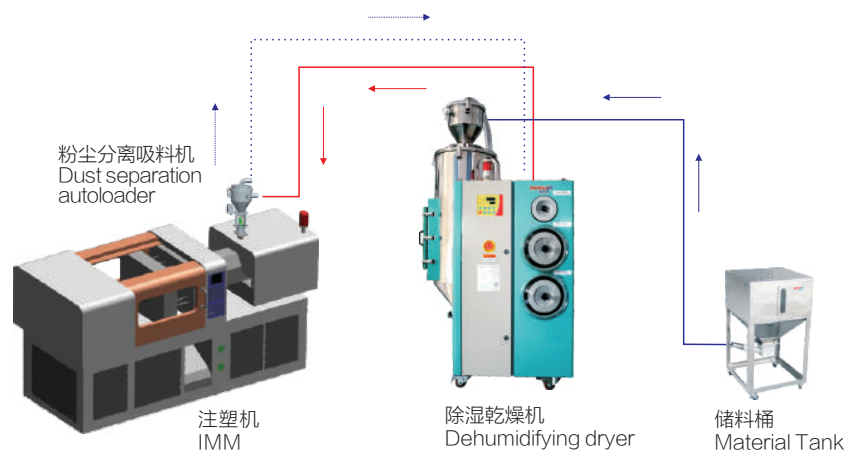
光学级管路, 可防止输送原料时遭受污染。

All piping work is for sanitary applications to prevent contamination when conveying the dry material.

一对一除湿干燥送料系统

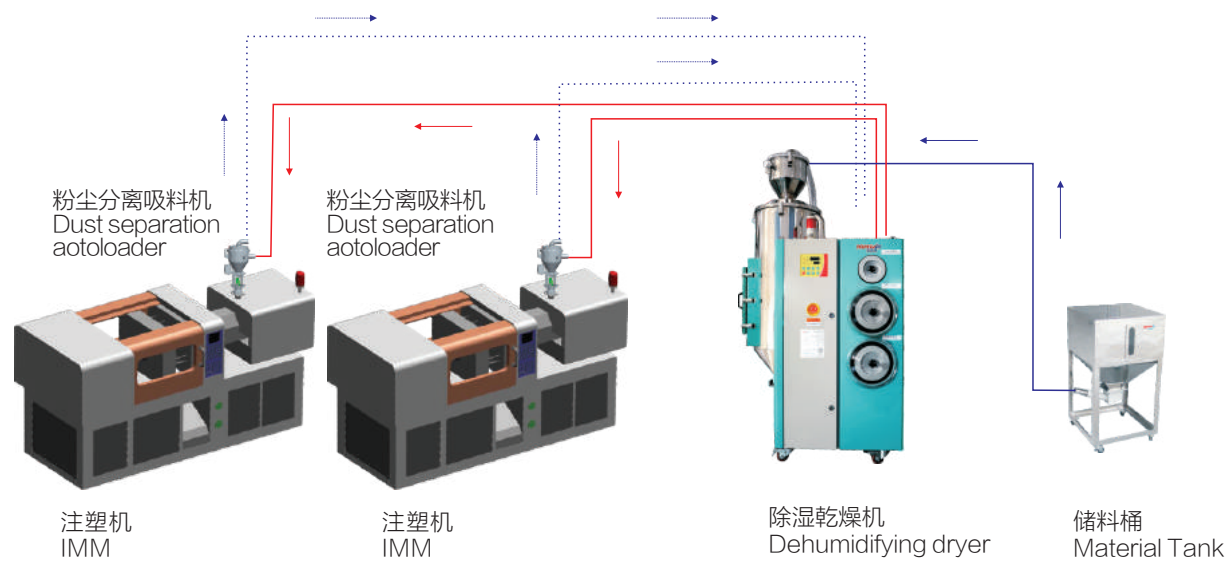
1 to 1 Dehumidifying drying and feeding System

除湿干燥机系统
Drying and Dehumidifying System



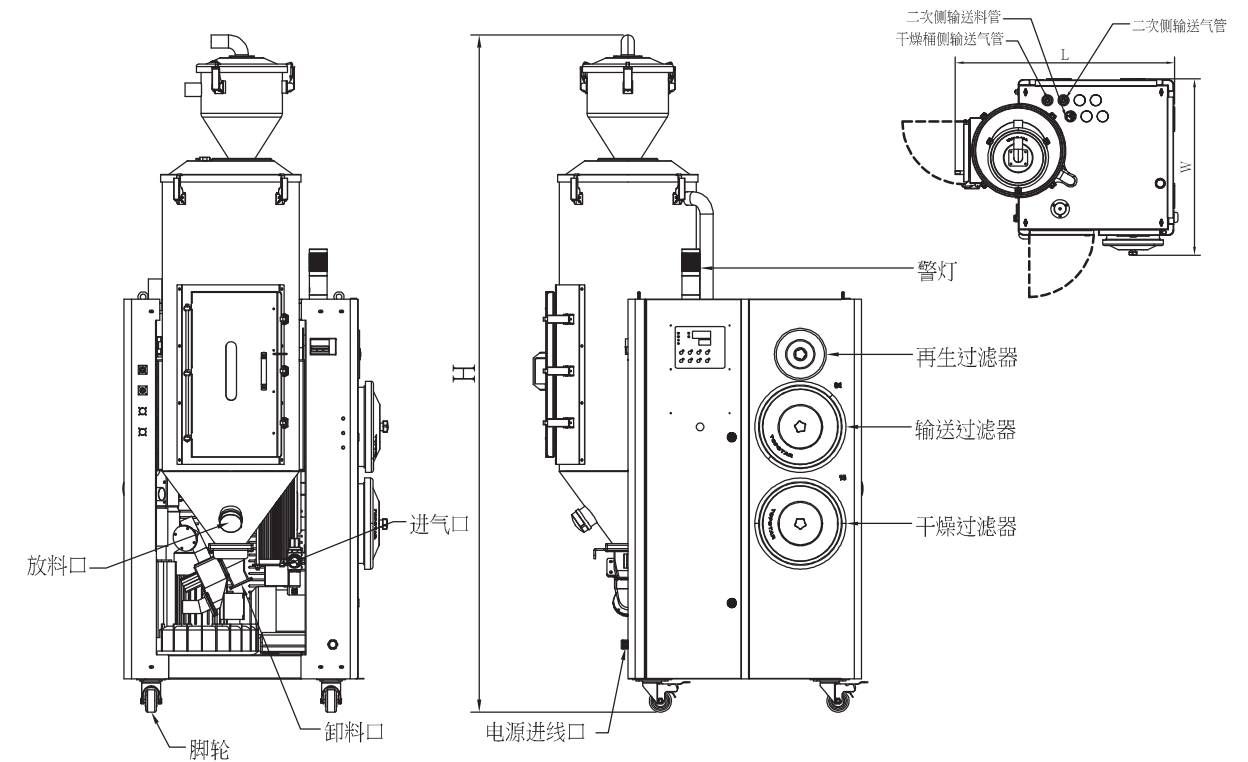
一对二除湿干燥送料系统

1 to 2 Dehumidifying drying and feeding System



产品结构图 Product Structure Diagram

| 机型 | TDB-15 | TDB-25 | TDB-50 | TDB-75 | TDB-100 | TDB-150 | TDB-200 | TDB-300 |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|
| L(mm) | 921 | 917 | 953 | 1158 | 1158 | 1280 | 1280 | 1690 |
| W(mm) | 766.5 | 766.5 | 766.5 | 836 | 836 | 942 | 942 | 1200 |
| H(mm) | 1590 | 1767.5 | 1960 | 1898 | 2160 | 2156 | 2516 | 2662 |



除湿干燥机系统
Drying and Dehumidifying System

规格表 Specification Sheet

| 产品型号 Model | TDB-15 | TDB-25 | TDB-50 | TDB-75 | TDB-100 | TDB-150 | TDB-200 | TDB-300 | TDB-400 | TDB-500 | TDB-600 | TDB-800 | | | |
|----------------------------------|-----------------|---|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|------|------|--|
| 料桶容量 Hopper Capacity | KG | 15 | 30 | 50 | 75 | 100 | 150 | 200 | 300 | 400 | 500 | 600 | 800 | | |
| 除湿机风量 Dehumidifying Air Capacity | CMH | 50 | 50 | 50 | 50 | 80 | 120 | 200 | 200 | 300 | 400 | 500 | 700 | | |
| 干燥电热功率 Drying Heater Capacity | KW | 3 | 3 | 4.0 | 4.0 | 6.0 | 9.0 | 12 | 15 | 18 | 18 | 21 | 24 | | |
| 干燥风机功率 Drying Blower Capacity | KW | 0.37 | 0.37 | 0.37 | 0.37 | 0.75 | 1.1 | 2.2 | 2.2 | 4 | 4 | 7.5 | 7.5 | | |
| 再生电热功率 Regen. Heater Capacity | KW | 2.0 | 2.0 | 2.0 | 2.0 | 3.0 | 4.0 | 6.0 | 6.0 | 8.0 | 8 | 8.0 | 10.0 | | |
| 再生风机功率 Regen. Blower Capacity | KW | 0.18 | 0.18 | 0.18 | 0.18 | 0.25 | 0.37 | 0.55 | 0.55 | 0.75 | 0.75 | 1.5 | 1.5 | | |
| 输送风机功率 Conveying Blower Capacity | KW | 0.75 | 0.75 | 0.75 | 0.75 | 1.1 | 1.1 | 1.5 | 1.5 | 1.5 | 2.2 | 1.5 | 1.5 | | |
| 露点 Dew Point | ℃ | -40以下 Below -40 | | | | | | | | | | | | | |
| 系统电源 Power Supply | V | 380VAC 3P/PE 50Hz | | | | | | | | | | | | | |
| 控制电源 Control Voltage | V | 220VAC 1P/PE 50Hz | | | | | | | | | | | | | |
| 总功率 Total Power | KW | 6.5 | 6.5 | 7.5 | 7.5 | 11.3 | 16 | 22.5 | 25.5 | 32.5 | 37.5 | 38 | 45 | | |
| 电源线规格 Wires Specifications | mm ² | 4x2.5 | | 4x4 | | 4x4 | | 4x6 | | 4x10 | | 4x16 | | 4x25 | |
| 电源线长度 Wires Length | M | 5 | | | | | | | | | | | | | |
| 外观尺寸 Dimensions | L(m) | 1.11 | 1.11 | 1.174 | 1.25 | 1.25 | 1.46 | 1.53 | 1.94 | 2.03 | 1.93 | 1.93 | 2 | | |
| | W(m) | 0.84 | 0.84 | 0.93 | 0.97 | 0.97 | 1.0 | 1 | 1.12 | 1.1 | 1.1 | 1.1 | 1.2 | | |
| | H(m) | 1.599 | 1.8 | 1.925 | 2.105 | 2.29 | 2.48 | 2.48 | 2.85 | 2.85 | 2.85 | 0.29 | 3.1 | | |
| 料管口径 Material Pipe Size | inch | 1.5 | | | | | | | | | | | | | |
| 料斗(成型机上) Hopper Receiver | mm ² | SR3E-40 | | | | | | SR6E-40 | | | | | | | |
| 机器重量 Weight | KG | 55 | 75 | 80 | 85 | 118 | 155 | 358 | 461 | 500 | 550 | 640 | 700 | | |
| 选配Option | | 1.露点显示 Dew-point Indicators 2.旋风分离器 Cyclone Separator 3.高温 High Temperature (150℃ ~ 180℃) | | | | | | | | | | | | | |

注: 产品规格若有变更, 恕不另行通知

We reserve right to change specifications without prior notice.

TDA、TDB双筒式三机一体 TDA,TDB Double hopper 3 in 1 compact dehumidifying dryer

除湿干燥机系统
Drying and Dehumidifying System



特点 Features

◆双筒式三机一体，可同时干燥两种不同的原材料，设定不同的温度。

Double hopper 3 in 1 compact dehumidifying dryer.

◆具备三机一体所有功能

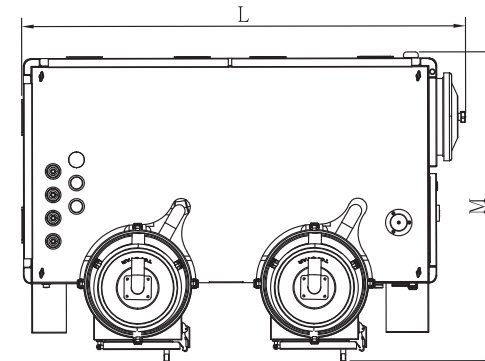
Has all function of 3 in 1 compact dehumidifying dryer

◆省能源、省空间

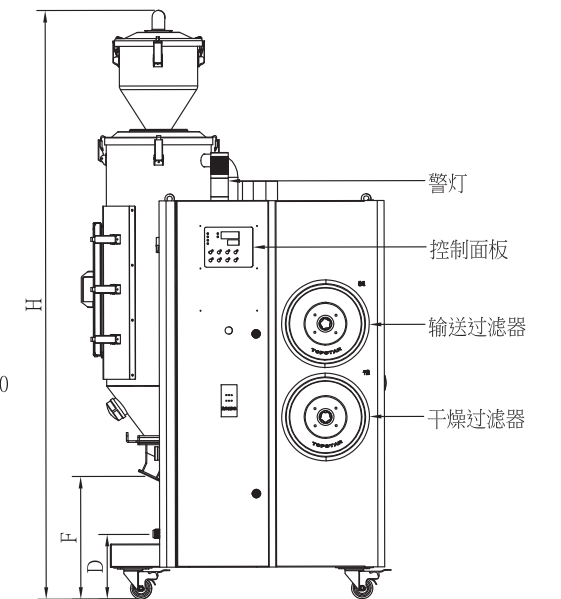
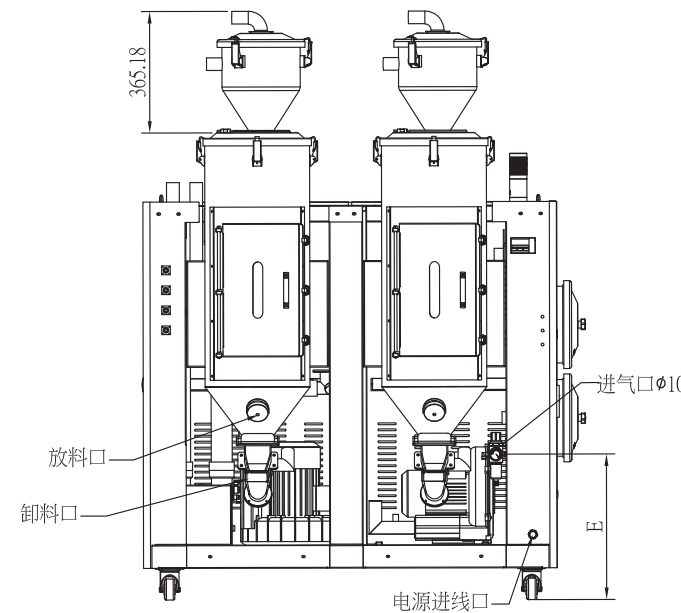
Saves energy, saves space

产品结构图 Product Structure Diagram

1、TDA双筒式三机一体 TDADouble hopper 3 in 1 compact dehumidifying dryer

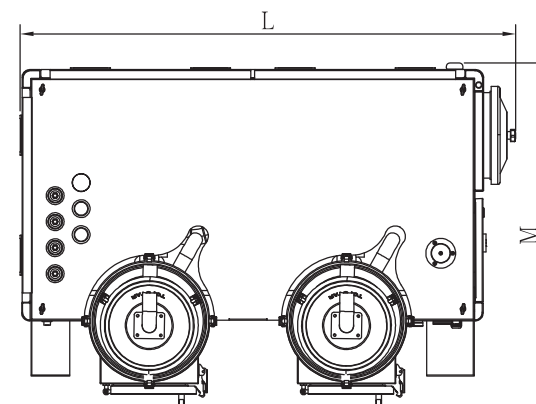


| 机型 | TDA-15D | TDA-25D | TDA-50D | TDA-75D | TDA-100D | TDA-200D |
|-------|---------|---------|---------|---------|----------|----------|
| L(mm) | 1385 | 1332 | 1332 | 1634 | 1465 | 1995 |
| M(mm) | 980 | 927 | 956 | 1060 | 1160 | 1315 |
| H(mm) | 1602 | 1744 | 1944 | 2167 | 1864 | 2714 |
| D(mm) | 195.5 | 195.5 | 195.5 | 195.5 | 195.5 | 195.5 |
| E(mm) | 420 | 420 | 420 | 420 | 420 | 420 |
| F(mm) | 368 | 368 | 368 | 370 | 370 | 370 |

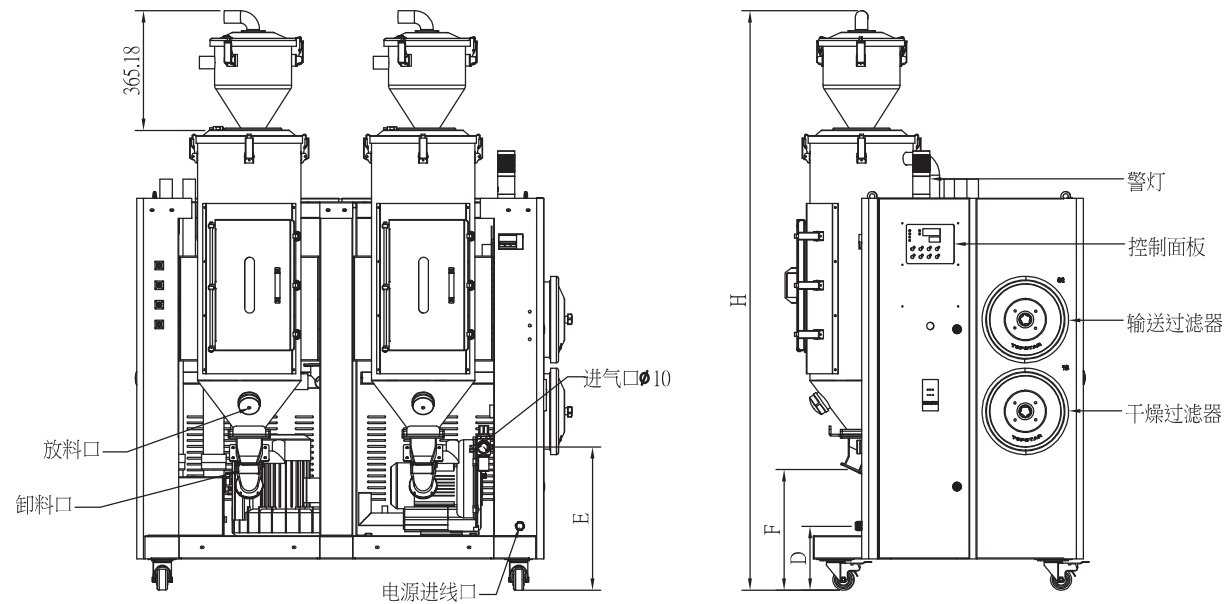


除湿干燥机系统
Drying and Dehumidifying System

2、TDB双筒式三机一体 TDB Double hopper 3 in 1 compact dehumidifying dryer



| 机型 | TDB-15D | TDB-25D | TDB-50D | TDB-75D | TDB-100D |
|-------|---------|---------|---------|---------|----------|
| L(mm) | 1332 | 1332 | 1332 | 1465 | 1465 |
| M(mm) | 933 | 927 | 963 | 1160 | 1160 |
| H(mm) | 1586 | 1764 | 1934 | 1897 | 2160 |
| D(mm) | 195.5 | 195.5 | 195.5 | 195.5 | 195.5 |
| E(mm) | 420 | 420 | 420 | 420 | 420 |
| F(mm) | 368 | 368 | 368 | 370 | 370 |



规格表 Specification Sheet

| 项目 Item | 型号 model | TDA-15D | TDA-25D | TDA-50D | TDA-75D | TDA-100D | TDB-15D | TDB-25D | TDB-50D | TDB-75D | TDB-100D |
|-------------------------------------|--------------------|--|---------|---------|---------|----------|--------------------------|---------|---------|---------|----------|
| 除湿种类 Dehumidifying type | | 节能型 Energy saving type | | | | | 转轮型 Homeycomb rotor type | | | | |
| 风量 Dehumidifying air capacity | m ³ /hr | 25X2 | 35X2 | 50X2 | 80X2 | 100X2 | 25X2 | 35X2 | 50X2 | 80X2 | 100X2 |
| 露点 Dew point | ℃ | 提供-40℃压缩空气 Supply -40℃ pressure air | | | | | -40℃ | | | | |
| 干燥温度 Drying Temperature | ℃ | 70-160℃ | | | | | | | | | |
| 冷却方式 cool mode | | 无需冷却 don't need cool | | | | | 风冷 Air cool | | | | |
| 干燥加热管功率 Drying heater capacity | KW | 2X2 | 2X2 | 2X2 | 3X2 | 4X2 | 2X2 | 2X2 | 2X2 | 3X2 | 4X2 |
| 干燥风机功率 Drying Blower capacity | KW | 0.37 | 0.75 | 1.1 | 1.5 | 2.2 | 0.37 | 1.1 | 1.5 | 2.2 | |
| 再生加热管功率 Regen. heater capacity | KW | 无 None | | | | | 2 | 3 | 4 | | |
| 再生风机功率 Regen. Blower capacity | KW | 无 None | | | | | 0.18 | 0.25 | 0.55 | | |
| 输送风机功率 Conveying Blower capacity | KW | 1.1 | | 2.2 | | | 1.1 | | 2.2 | | |
| 系统电源 Power Supply | V | AC380V/50Hz 3P 3W+E(标准电压) | | | | | | | | | |
| 控制电源 Control Voltage | V | AC200V/220V 50Hz 1P | | | | | | | | | |
| 总功率 Total Power | KW | 5.5 | 6 | 6.5 | 10 | 14.5 | 7.8 | 7.8 | 8.5 | 14.5 | 16.5 |
| 电源线规格 Wires Length | mm ² | 2.5 | | | 4 | 6 | 4 | | | 6 | |
| 电源线长度 Wires length | m | 5 | | | | | | | | | |
| 外观尺寸 Dimensions | L(mm) | 1332 | 1332 | 1332 | 1465 | 1465 | 1332 | 1332 | 1332 | 1465 | 1465 |
| | W(mm) | 933 | 927 | 963 | 1160 | 1160 | 933 | 927 | 963 | 1160 | 1160 |
| | H(mm) | 1290 | 1468 | 1638 | 1864 | 1864 | 1586 | 1764 | 1934 | 1897 | 2160 |
| 料管口径 Material Pipe Size | inch | 1.5 | | | | | | | | | |
| 料杯(成型上) Hopper Receiver | | SR3E-40 | | | | SR6E-40 | SR3E-40 | | | | SR6E-40 |
| 重量 weight | kg | 50 | 55 | 60 | 80 | | 70 | 130 | 65 | | 130 |
| 选配 Option | | 1、露点显示Dew-point Indecators 2、旋风分离器Cyclone Separator 3、高温High Temperature(160-200℃)、4、中间料位计 | | | | | | | | | |

注: 产品规格若有变更, 恕不另行通知 We reserve right to change specifications without prior notice.

TDN氮气三机一体 TDN Nitrogen Dryer Series



洁净环境下生产光学镜头及导光板等原材料的干燥设备。常用于PC、PMMA、COP、COC、PA46、OKP、PPS、PEI (ULTEM)

Drying equipment that produce lianr and Light Guide Plate in clean environment. Usual be used for PC,PMMA,COP,COC,PA46,OKP,PPS,PEI (ULTEM)

特点 Features

◆ 高浓度氮气充满原材料, 98%以上, 成型合格率提高。

Be full of high concentration nitrogen, above 98%, improve the qualified of molding.

◆ 利用日本制压缩空气无热再生原理提供脱湿空气。

Apply dehumidifying air with compression air heatless regeneration principle from Japan.

◆ 美国原装氮气发生器。

American original nitrogen generator.

◆ 设备为光学级除粉式, 日本制高效过滤器, 0.3μmX99.99%。

The equipment clean the powder optically.

◆ 减少成型时产品黄变, 提高产品合格率。

Reduce product yellowing during molding, improve the qualified of product.

◆ 封闭循环式氮气输送。

Delivery nitrogen in close system.

◆ 原料为全封闭结构, 不受外界环境影响。

Material in whole sealing, not suffer from external environment.

◆ 超低能耗。

Ultralow energy consumption.

◆ 干燥筒在注塑机上方(25kg以下)。

Dryer hopper installed above injection machine(below 25kg)

◆ 多重保护装置。

Multiple protect equipment.

◆ 延长成型机螺杆碳化时间, 减少设备的维护成本。

Delaying carbonization time of make-up machine screw, reduce maintenance cost of machine.

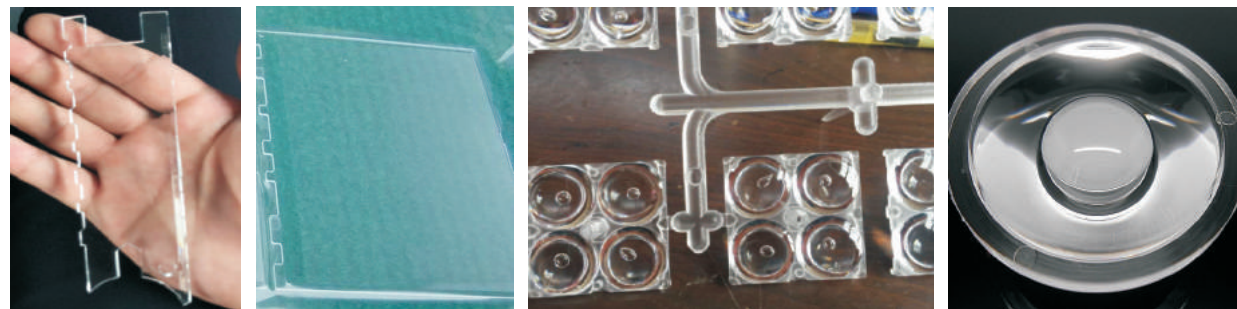
◆ 也可去除氮气装置, 作为小型除湿干燥机使用(选购项)。

Also it can wipe off nitrogen equipment, use it as dehumidification dryer(option).

规格表 Specification Sheet

| | TDN-10 | TDN-20 |
|--|---|--------|
| 装料量kg(0.6kg/hr) Capacity kg(0.6kg/hr) | 10 | 20 |
| 干燥风量nm ³ /hr Dry air capacity | 20 | 30 |
| 氮气浓度% Concentration % | 98 | |
| 干燥温度℃ Dry temperature ℃ | 70-160 | |
| 干燥风机KW Dry blower KW | 0.18 | 0.37 |
| 干燥加热管KW Dry heater KW | 1 | 2 |
| 投料箱体积Lr Storage volume Lr | 40 | |
| 输送风机KW Feed blower | 0.75 | 1.1 |
| 输送条件 Feed condition | 料箱至干燥桶: Φ38PVC软管, 水平2米以内 Storage to hopper: Φ38PVC hosepipe, 2 m horizontal | |
| 压缩空气条件 Compress air condition | 大于0.6mpa*20Lr/min More than 0.6mpa*20Lr/min | |
| 电源(KW)380V/50Hz power(KW)380V/50Hz | 2 | 3.5 |

产品展示(可以使用氮气三机一体) Product exhibit(can use nitrogen dryer series)



导光板1.5mm厚
LGP 1.5 mm thick

导光板0.2mm厚
LGP 0.2 mm thick

手机镜头透镜
Phone camera Lens

手机镜头透镜(显微镜下检验)
Phone camera Lens (use microscope test)

产品展示(使用氮气三机一体对比)Product exhibit(compare with nitrogen dryer series)



LED透镜COC
(普通三机一体)
黄变
LED lens COC (general
3 in 1 machine) yellowing

LED透镜COC
(TDN-10)合格
LED lens COC (TDN-10)
qualified

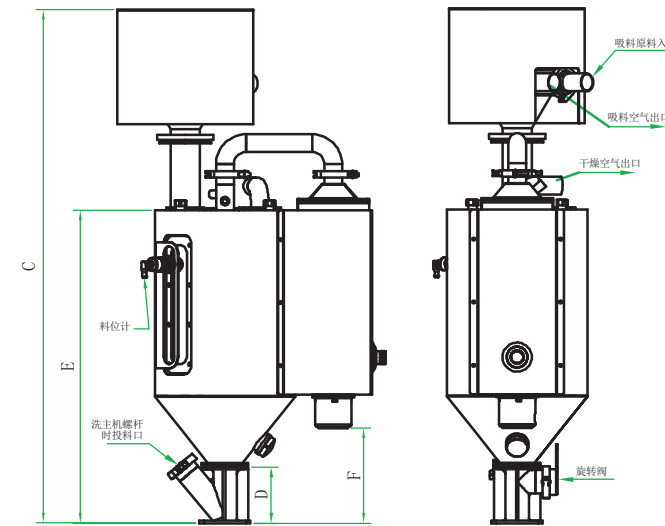
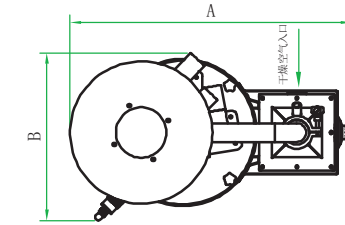
导光条PMMA
(普通三机一体)黄变
LGP PMMA (general 3 in 1 machine) yellowing

导光条PMMA
(TDN-20)合格
LGP PMMA(TDN-20) qualified

产品结构图 Product Structure Diagram

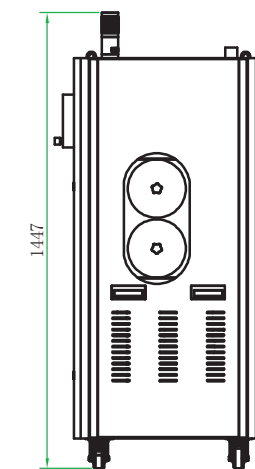
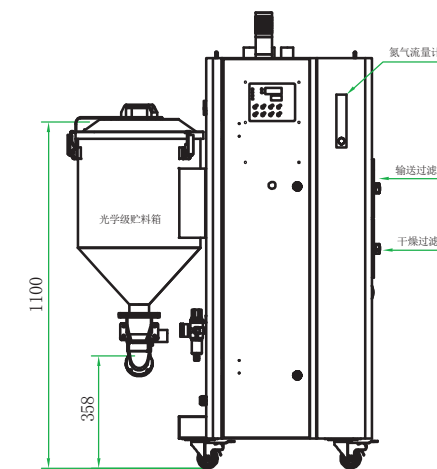
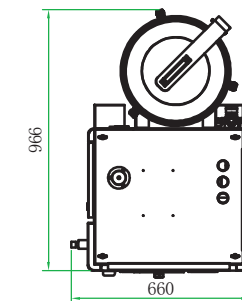
1、干燥筒体 Dryer Hopper

| | TDN-10 | TDN-20 |
|---|--------|--------|
| A | 467 | 550 |
| B | 418 | 500 |
| C | 1052 | 1300 |
| D | 180 | 180 |
| E | 718 | 980 |
| F | 50 | 50 |
| G | 433 | 600 |



2、干燥桶体 Dryer Hopper

TDN-10、20干燥机主体



B

B



TAL系列直接式吸料机
TAL Series Single Autoloaders

B-1

TAL系列分离式吸料主机
TAL Series Detachable Autoloaders

B-4

TAL系列开放式分离吸料主机
TAL Series Detachable Autoloaders(Open type)

B-7

粉体吸料机TALP
ALP Power Loader

B-9

料杯
Hopper Receivers

B-13

TAL系列直接式吸料机 TAL Series Single Autoloaders

自动送料系统
Feeding and Conveying System



直接式感应型吸料机 Single Induction Autoloaders
直接式不锈钢吸料机 Stainless Single Autoloaders
直接式普通型吸料机 Single Autoloaders

特点 Features

◆采用全不锈钢材质结构，确保原料不受污染。

Stainless steel construction for ensuring material free from contamination.

◆马达保护装置，可增长其使用寿命。

Motor overload protection device ensures its long service life.

◆采用织布滤网配合不锈钢网过滤粉尘，具有马达逆转除尘功能。

The adoption of Cloth mesh filter and stainless screener for double filtration protection to filter dust and motor reverse cleaning function.

◆采用不锈钢落料挡板，不需随不同原料而调整。

Mechanical stainless flap is fitted which don't need to be adjusted according to different material.

◆自动喷洗功能。

Auto-cleaning function.

◆装配对射式光电开关，适于直接安装成型机入料口；装配进接开关，适于直接安装成型机料斗上。

Autoloaders equip with photo sensors which are mounted onto the feeding port of injection molding machines; autoloaders equip with proximity switch which are mounted onto the hopper dryers.

◆采用玻璃料管搭配静电容感测器设计，可精确侦测原料输送。

To adopt glass tube with photo sensor (static capacity detection) for precisely detect material conveying.

◆缺料自动报警。

Automatic material shortage alarm.

◆不锈钢型与感应型法兰座底与料斗是用卡箍锁住，便于拆卸。

Hopper receivers and bases are locked by hinge, easy for dismantle.

容易维护/快速清洁 Easy Maintenance / Quick Cleanup

TAL系列吸料机主要用于将流动性强的新料（主料）或次料直接快速输送到注塑机上，可掀式的真空马达上盖能保证清洗快速维护简便。

单相真空马达在设定的吸料时间产生真空气流把塑胶颗粒通过吸料管输送到吸料门内，之后原料直接落入到注塑机储料门内，这种吸料动作会持续进行直到注塑机储料门和吸料机料门显示满料为止。

TAL series stainless steel (corrosion free) single hopper loader is designed to provide rapid transportation of free-flowing for virgin resin or regrind resin directly to injection molding machine. The design of hinged upper cover of vacuum motor ensures quick cleanup time and easy maintenance.

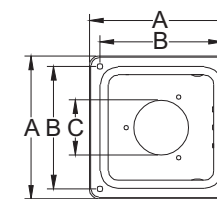
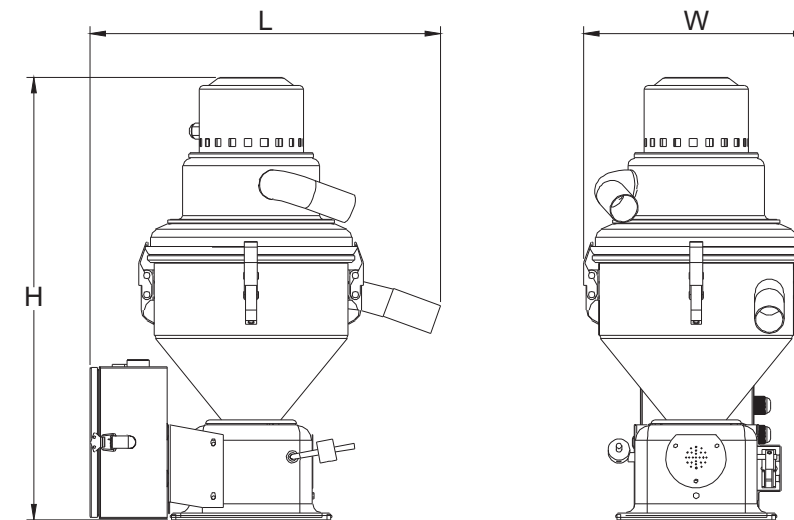
The single-phase vacuum suction motor creates a flow of air which carries the plastic granules into the hopper through the material conveying hose during setting suction time. The granules are then discharged directly into the processing machine hopper. This cycle is repeated until both the machine hopper and hopper loader are full.

稳定可靠的性能 Reliable Performance

吸料机的吸料时间、吸料动作以及吸料模式的选择的数位设定和显示都是通过微电脑处理器控制。具有故障自检与警报功能。所有型号的设备都是使用优质不锈钢材料，按照严格的工业标准制造，具有稳定可靠的性能。

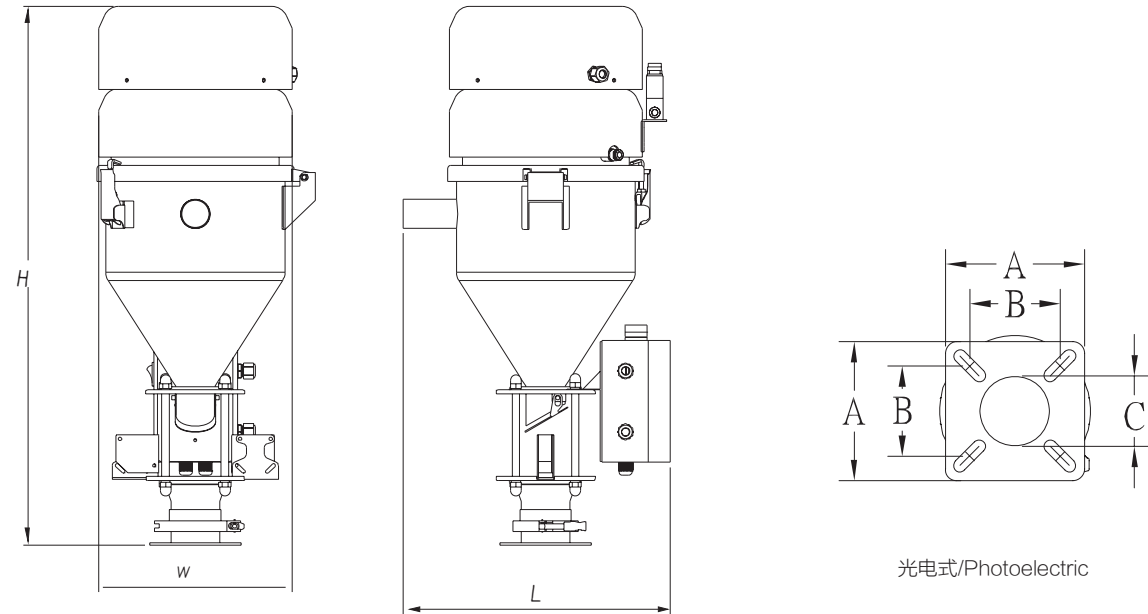
The setting and displaying for loading time, loading function, and mode selection digitally are controlled by microprocessor. Fault diagnosis & alarm are provided as standard features of the control. All models are built by the highest quality with stainless steel for providing consistent, reliable performance.

产品结构图 Product Structure Diagram



微动开关式/The micro switch

自动送料系统
Feeding and Conveying System



规格表 Specification Sheet

| 产品型号 Model | | TAL-6E | TAL-6 | TAL-6I | TAL-3SE | TAL-6SE | TAL-3S | TAL-6S | TAL-12S |
|--------------------------|------|---|------------------|--------------------------|----------------------|------------------|--------|--------|---------|
| 料斗容量 Hopper Capacity | L | 6 | 6 | 6 | 3 | 6 | 3 | 6 | 12 |
| 输送能力 Conveying Capacity | kg/h | 200 | 300 | 400 | 70 | 140 | 70 | 140 | 200 |
| 风机功率 Blower Capacity | KW | 1.4 | 1.4 | 0.75 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 感应类型 Sensor Type | | 光电式 Photoelectric | 近接式 Proximate | 微动开式 The micro switch | 光电式 Photoelectric | 近接式 Proximate | | | |
| 系统电源 Power supply | V | 220VAC 1P/PE 50Hz | | 380VAC 3P/ PE 50Hz | 220VAC 1P/PE 50Hz | | | | |
| 料管口径 Hose Size | mm | 38.1 (1.5") | | | 38.1 (1.5") | | | | |
| 过滤类型 Filter Type | | 不锈钢滤网加布织布Filter Netting & Cloth Filter3 | | | | | | | |
| 总功率 Total Power | W | 1.45 | 1.45 | 0.8 | | | | | |
| 外观尺寸 Dimensions | L(m) | 0.43 | 0.43 | 0.56 | 0.34 | 0.36 | 0.32 | 0.37 | 0.37 |
| | W(m) | 0.3 | 0.3 | 0.32 | 0.24 | 0.29 | 0.3 | 0.35 | 0.35 |
| | H(m) | 0.73 | 0.73 | 0.68 | 0.63 | 0.71 | 0.47 | 0.56 | 0.69 |
| 固定尺寸Size | A(m) | 0.15 | 0.15 | 0.21 | 0.120*0.12 | 0.12*0.12 | 0.22 | 0.252 | 0.252 |
| | B(m) | 0.1 | 0.1 | 0.18 | 0.08 | 0.08 | 0.2 | 0.232 | 0.232 |
| | C(m) | 0.056 | 0.056 | 0.81 | 0.06 | 0.06 | 0.18 | 0.212 | 0.212 |
| 标配件 Standard Accessories | | 吸料管Suction Tube+PPC钢丝软管Hose | | | | | | | |
| 机器重量 Weight | kg | 17 | 19 | | 13 | 15 | 12 | 15 | 16.5 |

注：产品规格若有变更，恕不另行通知 We reserve right to change specifications without prior notice.

TAL系列分离式吸料主机
TAL Series Detachable Autoloaders



主机与料斗采用分离式设计，可搭配2个以上的料斗，一对多输送，提高了原料输送能力，原料输送能力达每小时700公斤。最高扬程可达10米，适用于长距离原料输送，操作容易，可满足客户的需求。

The main controllers and material hopper receivers are designed separately for safety & convenient purpose which can match 2 or above 2 hopper receivers to achieve one to multi combination conveying. It enhances material conveying capacities greatly up to 700kgs/hr. The maximum loading distance is 10m. All models are suitable for conveying materials over long distance and easy operations which are satisfied with customers' various requirements.

特点 Features

◆主机与料斗分离设计，安全简便，可满足客户的远距离的输料要求。

The main controllers and material hopper receivers are designed separately for satisfying with customers' requirements on the long distance conveying material.

◆微电脑控制，操作简易，控制精确，有多项报警指示灯。

Microprocessor controls features with easy operation, accurate control and multiple alarm indicators.

◆可根据不同需要选配不同料斗，提供多样性选择。

Various hopper receivers are available for selection to meet different requirements.

◆缺料警报，可主动通知客户进而排除状况。

Audible material shortage alarm for reminding customers in to solve faulty.

◆马达保护装置，可增长其使用寿命。

Motor overload protection device ensures its long service life.

◆独立滤清器装置，方便清除积尘。

Independent filter device is easy for cleaning.

◆可以选配旋风过滤器，减少滤清器清理次数，适用于粉碎料输送。

Cyclone dust separator is available as option to reduce cleaning filter time which is specially suitable for regrind material conveying.

◆可选配两料比例阀，用于新料与粉碎料混合使用或粉碎料立即回收。

Proportional valve is available as option which is used for mixing virgin and regrind material and instant recycle regrind material

一对二吸料机特点 One to Two Autoloaders Features

◆一机拖两机，节省设备配置，节约空间。

One to two autoloaders can save equipment configuration and save space.

◆电脑控制操作方便安装、调试。

Microcomputer control operation, easy installs & adjusts.

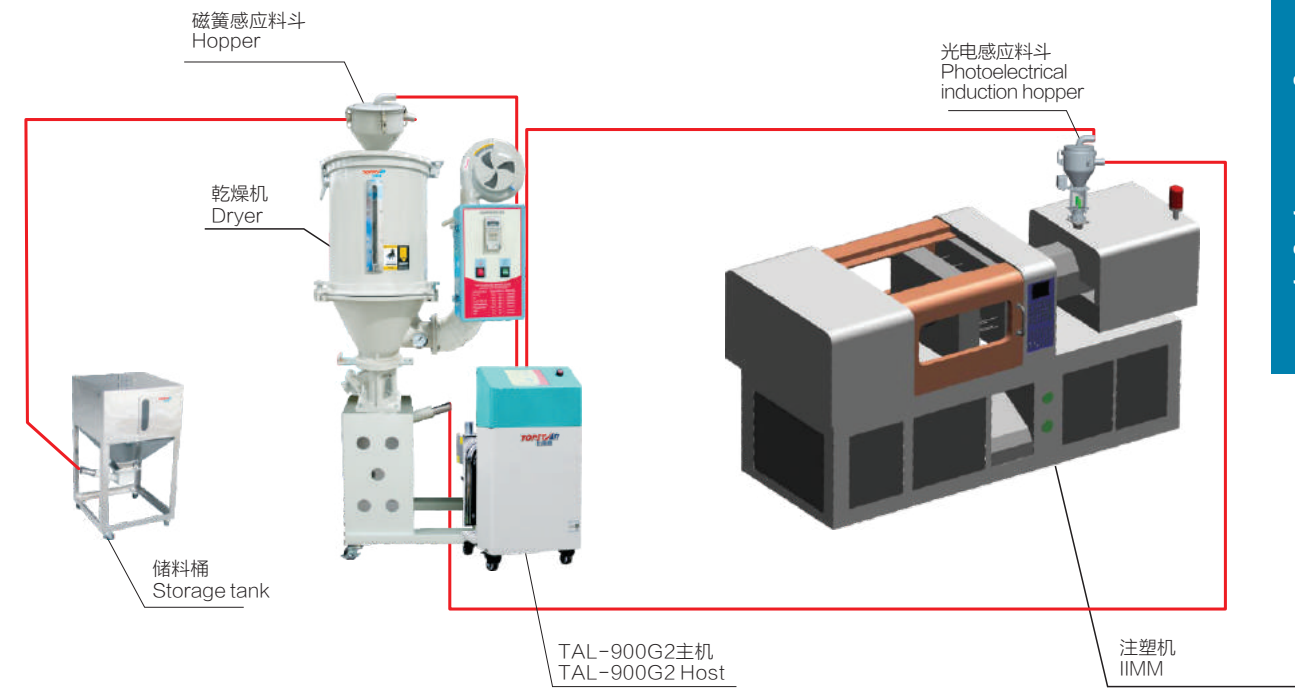
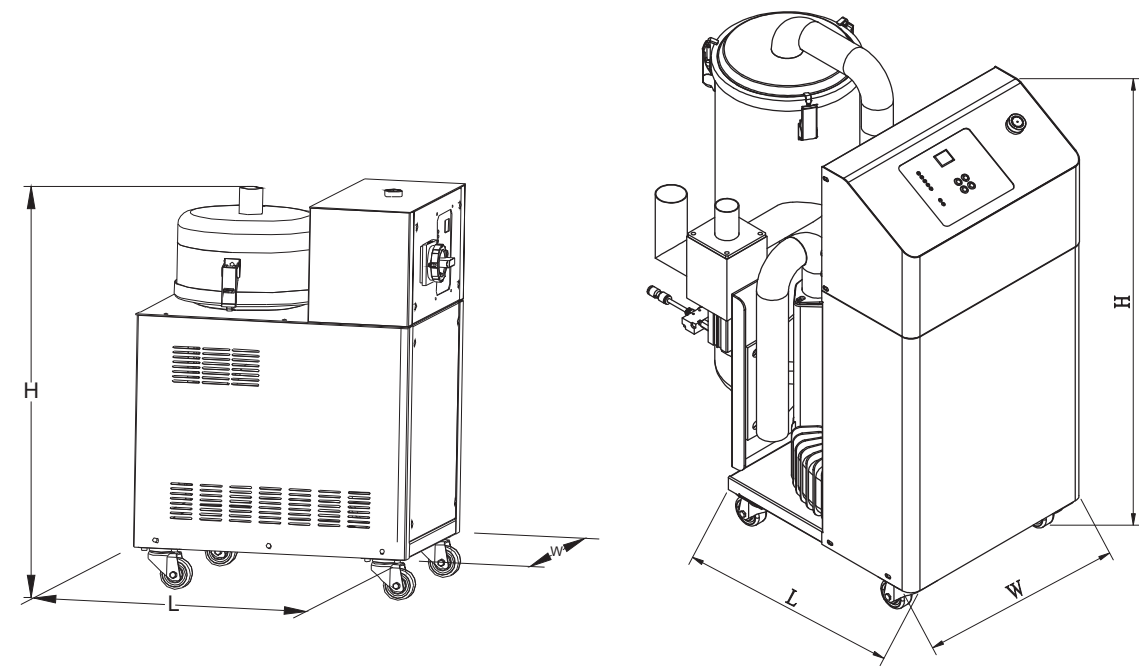
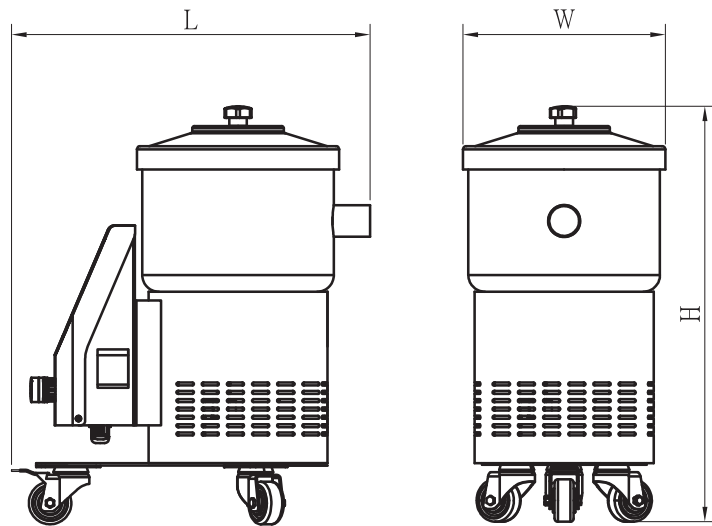
◆尤其适用于干燥、供料二机一体，简化系统结构，提高使用效率，方便操作。

Suitable for drying and feeding materials in one body, which can simple system structure, increasing productivity and convenient operate.

◆维修保养方便、快捷。

Easy and fast to maintain.

产品结构图 Product Structure Diagram



规格表 Specification Sheet

| 产品型号 Model | | TAL-700G | TAL-810G | TAL-815G | TAL-820G | TAL-920G | TAL-915G | TAC-930G |
|------------------------------|-----------------|---|-------------------|------------------|------------------|------------------|------------------|------------------|
| 风机形式 Motor Type | | 碳刷式 Carbon Brush | 感应式 Induction | 感应式 Induction | 感应式 Induction | 感应式 Induction | 感应式 Induction | 感应式 Induction |
| 风机功率 Motor Capacity | KW | 1.4 | 0.75 | 1.1 | 1.5 | 1.5 | 1.1 | 1.2 |
| 控制站数 Control Stations | 站 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| 输送能力 Conveying Ability | kg/h | 300 | 500 | 600 | 700 | 700 | 600 | 800 |
| 进风口径 Air Inlet Size | mm | 38.1 (1.5") | | | | | | |
| 过滤类型 Filter Type | | 纸制滤芯 Paper Filter $\phi 188 \times \phi 115 \times 145$ | | | | | | |
| 外观尺寸 Dimensions | L(m) | 0.38 | 0.54 | 0.54 | 0.54 | 0.66 | 0.66 | 0.66 |
| | W(m) | 0.279 | 0.38 | 0.38 | 0.38 | 0.39 | 0.39 | 0.39 |
| | H(m) | 0.57 | 0.69 | 0.69 | 0.69 | 0.81 | 0.81 | 0.81 |
| 系统电源 Power Supply | V | 220VAC 1P/PE 50Hz | 280VAC 3P/PE 50Hz | | | | | |
| 控制电源 Control Voltage | V | | 220VAC 1P/PE 50Hz | | | | | |
| 总功率 Total Power | KW | 1.5 | 0.9 | 1.2 | 1.6 | 1.6 | 1.2 | 2.3 |
| 电源线规格 Wires Specifications | mm ² | 3x1.5 | 4x1.5 | 4x1.5 | 4x1.5 | 4x2.5 | 4x2.5 | 4x2.5 |
| 电源线长度 Wires Length | m | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 可选料斗 Applicable Hopper Model | | SR-3E SR-6E SR-12E SR-3 SR-6 SR-12 SR-24 ER-6 ER-6E | | | | | | |
| 机器重量 Weight | kg | 30 | 45 | 51 | 56 | 60 | 55 | 65 |

注：产品规格若有变更，恕不另行通知 We reserve right to change specifications without prior notice.

TAL系列开放式分离吸料主机

TAL Series Detachable Autoloaders(Open type)

自动送料系统
Feeding and Conveying System



特点 Features

- ◆ 微处理器记忆体使用EEPROM, 切断电源后设定的资料永久保存。

Microprocessor use EPROM to back up data in case power failure and does not require back up battery.

- ◆ 采用欧化风格设计, 不锈钢制造, 不污染原料, 美化大方。

Machines are designed with exquisite appearance and are made of stainless steel to ensure no material contamination.

- ◆ 采用下吸风式设计, 过滤器下搭配旋风挡板于分离集尘桶, 可有效地减轻过滤器负荷。

It adapts down - suction design and use a cyclone dust separator and a dust collective bin together for reducing the load of filter effectively.

- ◆ 分离式集尘桶, 方便清除粉尘。

Separated dust collective bin is easy for cleaning dust.

- ◆ 主机配备故障及马达过载指示灯, 可及时报警。

To be equipped with warning lamp for alarming pump overload and other malfunctions immediately.

- ◆ 采用欧规安全插头, 使用时安全可靠。

European plugs ensure reliable & safety operation.

- ◆ 可根据不同需要选配吸料机, 提供多样式选择。

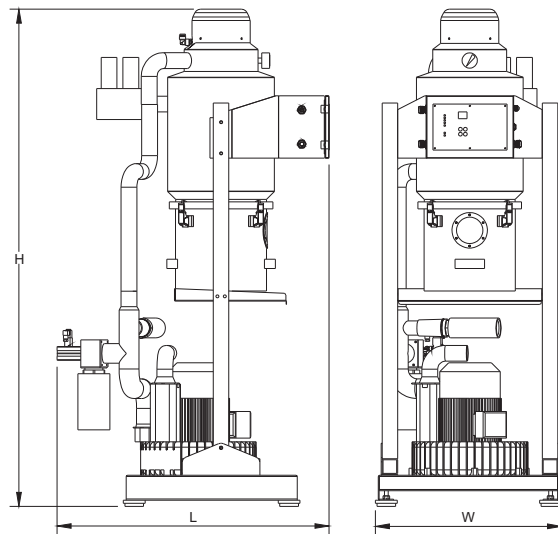
Various autoloaders are available for selection to meet different requirements.

- ◆ 吸料机主机搭配单段或双段风机

This series of autoloaders are equipped with single-stage blower.

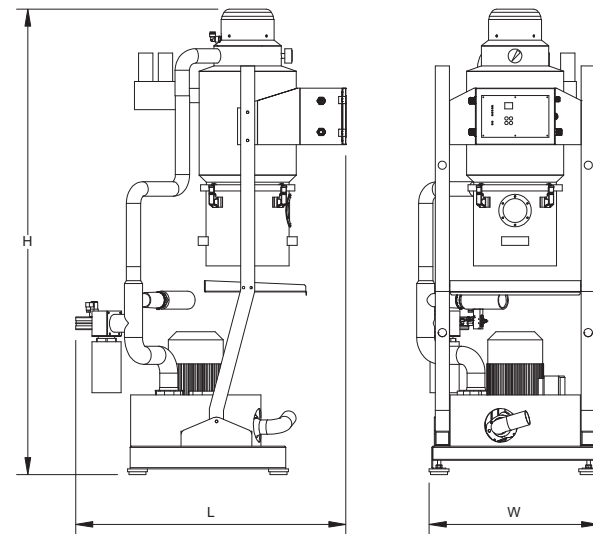
(单段)产品结构图

(Single Stage) Product Structure Diagram



(双段)产品结构图

(Double Stage) Product Structure Diagram



(单段)规格表 (Single Stage) Specification Sheet

| 产品型号 Model | TAL-3HP-2 | TAL-3HP2-2 | TAL-3HP4-2 | TAL-3HP6-1.5 | TAL-4HP-2 | TAL-4HP2-2 | TAL-4HP4-2 | TAL-4HP6-2 | TAL-5HP-2 | TAL-5HP2-2 | TAL-5HP4-2 | TAL-5HP6-2 | |
|-------------------------------------|-----------------|---|------------|--------------|------------|------------|------------|------------|-----------|------------|------------|------------|------|
| 风机形式 Motor Type | 单段 Single Stage | | | | | | | | | | | | |
| 风机功率 Motor Capacity | KW | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | |
| 进风口径 Air Inlet Size | mm | 50.8(2.0") | | | 38.1(1.5") | | | 50.8(2.0") | | | | | |
| 控制站次 Control Stations | 站 | 1 | 2 | 4 | 6 | 1 | 2 | 4 | 6 | 1 | 2 | 4 | 6 |
| 输送能力 Conveying Ability | kg/h | 750 | | | | 830 | | | | 900 | | | |
| 外观尺寸 Dimensions | L(m) | 0.54 | 0.56 | 0.69 | 0.69 | 0.54 | 0.69 | 0.69 | 0.69 | 0.54 | 0.56 | 0.69 | 0.69 |
| | W(mm) | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 |
| | H(m) | 1.45 | 1.45 | 1.45 | 1.46 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.46 |
| 系统电源 Power Supply | V | 380VAC 3P/PE 50HZ | | | | | | | | | | | |
| 控制电源 Control Voltage | V | 220VAC 1P/PE 50Hz | | | | | | | | | | | |
| 总功率 Total Power | KW | 2.3 | 2.3 | 2.3 | 2.3 | 3.1 | 3.1 | 3.1 | 3.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| 电源线格 Wires Specifications | mm ² | 4x2.5 | | | | | | | | | | | |
| 电源线度 Wires Length | m | 5 | | | | | | | | | | | |
| 过滤类型 Filter Type | | 纸制滤芯 | | | | | | | | | | | |
| 中央集尘桶 Centralized Dust Collector | L | 25 部分机型具备释压功能 | | | | | | | | | | | |
| 标准功能 Standard Functions | | 集尘功能Duct Collection Functions 消音功能Silencing function | | | | | | | | | | | |
| 机器重量 Weight | kg | 130 | 130 | 130 | 130 | 144 | 144 | 144 | 144 | 148 | 148 | 148 | 148 |
| 可选料斗 Applicable Hopper Model | | SR-3E SR-6E SR-12E SR-3 SR-6 SR-12 SR-24 ER-6 ER-6E CSR-3E CSR-6E CSR-12E CSR-3 CSR-6 CSR-12 CSR-24 | | | | | | | | | | | |

自动送料系统
Feeding and Conveying System

(双段)规格表 (Double Stage) Specification Sheet

| 产品型号 Model | TAL-8HP-2 | TAL-8HP-2.5 | TAL-8HP2-2 | TAL-8HP2-2.5 | TAL-8HP4-2 | TAL-8HP4-2.5 | TAL-8HP6-2 | TAL-8HP6-2.5 | TAL-10HP-2 | TAL-10HP-2.5 | TAL-10HP2-2 | TAL-10HP2-2.5 | TAL-10HP4-2 | TAL-10HP4-2.5 | TAL-10HP6-2 | TAL-10HP6-2.5 | |
|-------------------------------------|-----------------|--|------------|--------------|------------|--------------|------------|--------------|------------|--------------|-------------|---------------|-------------|---------------|-------------|---------------|-------|
| 风机形式 Motor Type | 双段 Double-stage | | | | | | | | | | | | | | | | |
| 风机功率 Motor Capacity | KW | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | |
| 进风口径 Air Inlet Size | mm | 63.5(2.5") | | | | | | | | | | | | | | | |
| 控制站次 Control Stations | 站 | 1 | 1 | 2 | 2 | 4 | 4 | 6 | 6 | 1 | 1 | 2 | 2 | 4 | 4 | 6 | 6 |
| 输送能力 Conveying Ability | kg/h | 1500 | | | | 1800 | | | | 2000 | | | | 2500 | | | |
| 外观尺寸 Dimensions | L(m) | 0.74 | 0.955 | 0.955 | 0.955 | 0.75 | 0.955 | 0.81 | 0.955 | 0.85 | 0.968 | 0.968 | 0.968 | 0.75 | 0.968 | 0.74 | 0.968 |
| | W(m) | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | | | | | |
| | H(m) | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.46 | | | | |
| 系统电源 Power Supply | V | 380VAC 3P/PE 50HZ | | | | | | | | | | | | | | | |
| 控制电源 Control Voltage | V | 220VAC 1P/PE 50Hz | | | | | | | | | | | | | | | |
| 总功率 Total Power | KW | 5.6 | 5.6 | 5.6 | 2.3 | 5.6 | 5.6 | 5.6 | 5.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 5.6 | 7.6 |
| 电源线格 Wires Specifications | mm ² | 4x4 | | | | | | | | | | | | 4x6 | | | |
| 电源线度 Wires Length | m | 6 | | | | | | | | | | | | | | | |
| 过滤类型 Filter Type | | 布袋过滤 Cloth Filter | | | | | | | | | | | | | | | |
| 中央集尘桶 Centralized Dust Collector | L | 50 | | | | | | | | | | | | | | | |
| 标准功能 Standard Functions | | 释压功能Pressure Relieve Functions 喷洗功能Spray Cleaning Functions 集尘功能Duct Collection Functions 消音功能Silencing function | | | | | | | | | | | | | | | |
| 机器重量 Weight | kg | 176 | 182 | 182 | 182 | 176 | 182 | 182 | 182 | 185 | 185 | 185 | 185 | 185 | 185 | 182 | 185 |
| 可选料斗 Applicable Hopper Model | | SR-3E SR-6E SR-12E SR-3 SR-6 SR-12 SR-24 ER-6 ER-6E CSR-3E CSR-6E CSR-12E CSR-3 CSR-6 CSR-12 SR-24 | | | | | | | | | | | | | | | |

注: 产品规格若有变更, 恕不另行通知

We reserve right to change specifications without prior notice.

粉体吸料机TALP ALP Power Loader

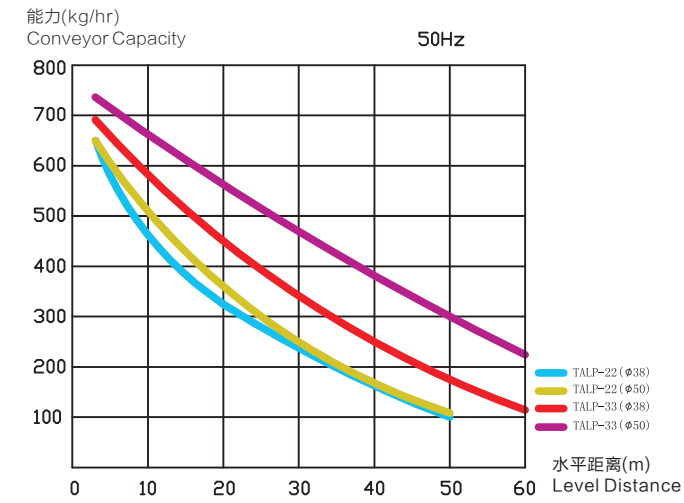
自动送料系统
Feeding and Conveying System



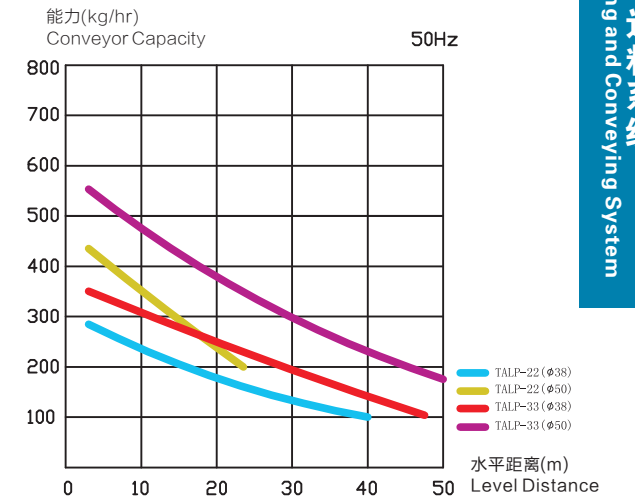
自动送料系统
Feeding and Conveying System

粉体输送能力曲线 Power Conveying Curve

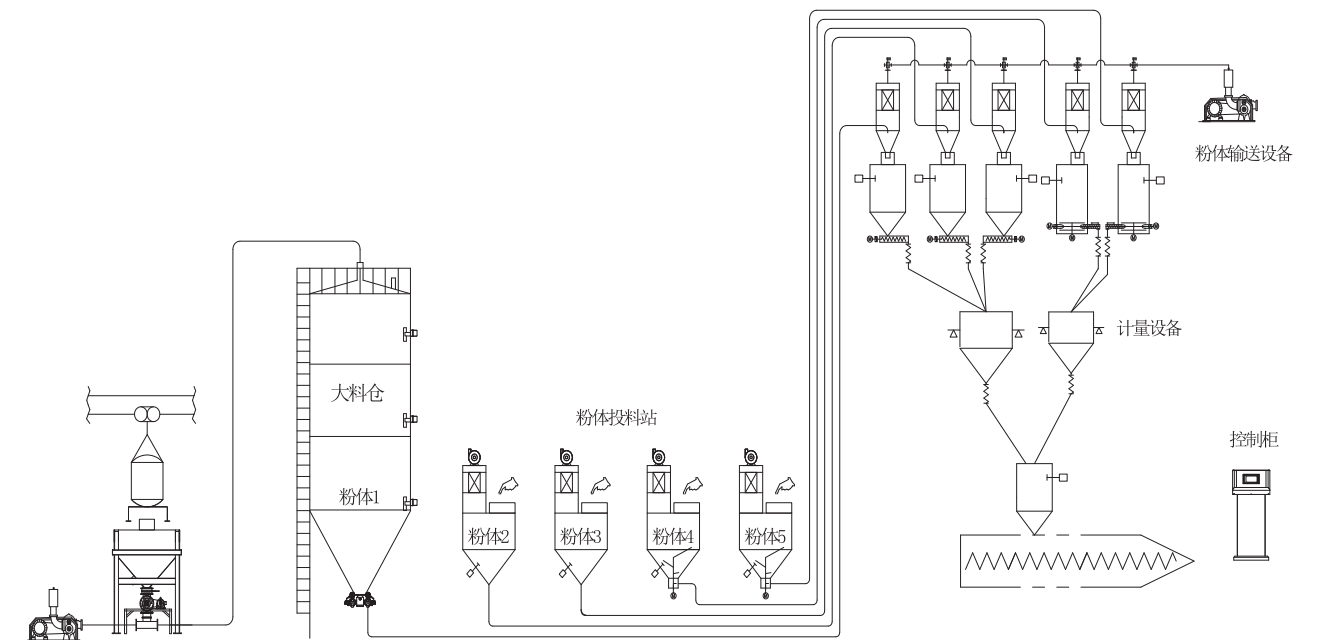
PVC粉体输送实测表
PVC Power Conveying test data Curve



CaCO3粉体输送实测表
CaCO3 Power Conveying test data Curve



方案介绍 Case Introduction



特点 Features

◆ 排料快不架桥 Fast blowdown and no bridge phenomenon

200A大口径的直通排料阀，排料畅通无残留
DN200 large-caliber straight blow-off valve, unblocked blowdown and no residual

◆ 自动脉冲反吹清扫 Back-pulse cleaning automatically

全自动清扫方式，可针对不同粉体设定不同时间参数
Full-automatic cleaning mode, setting different time parameter according to different powder

◆ 高精度过滤器 High precision filter

配置0.3微米高效过滤器，过滤面积8平方米，保证长期有效使用
0.3 um high precision filter, 8m² filter area, guarantee long-term effective use

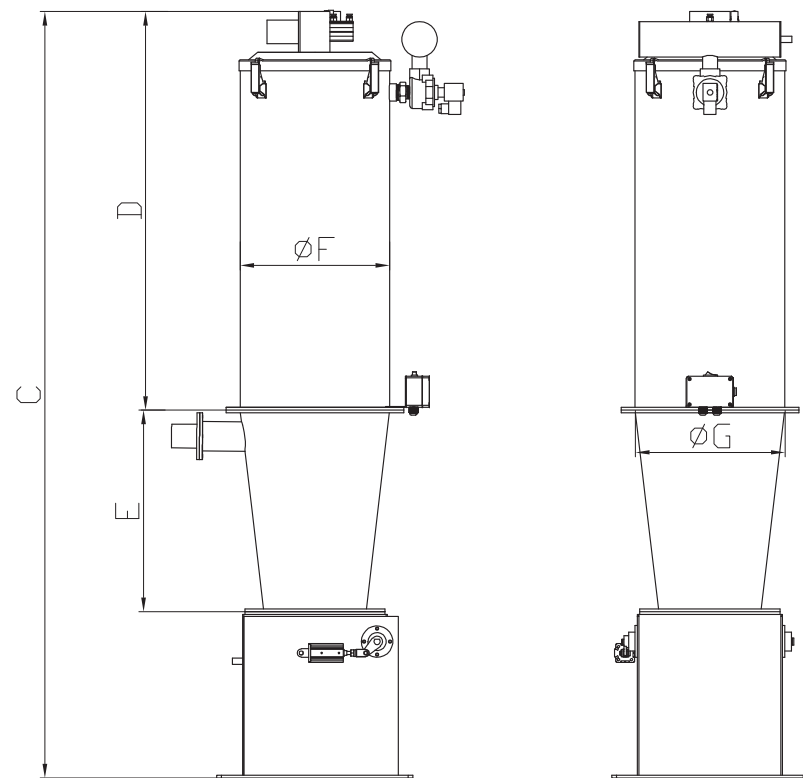
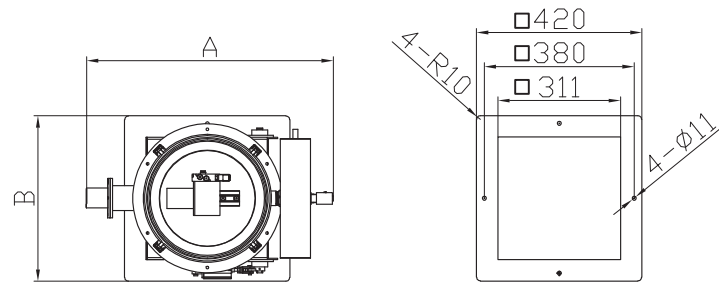
◆ 粉尘不外泄 No powder leakage

整套设备全部为密闭结构，粉尘不会外泄，
Whole equipment is totally sealing enclose, powder will not leak.

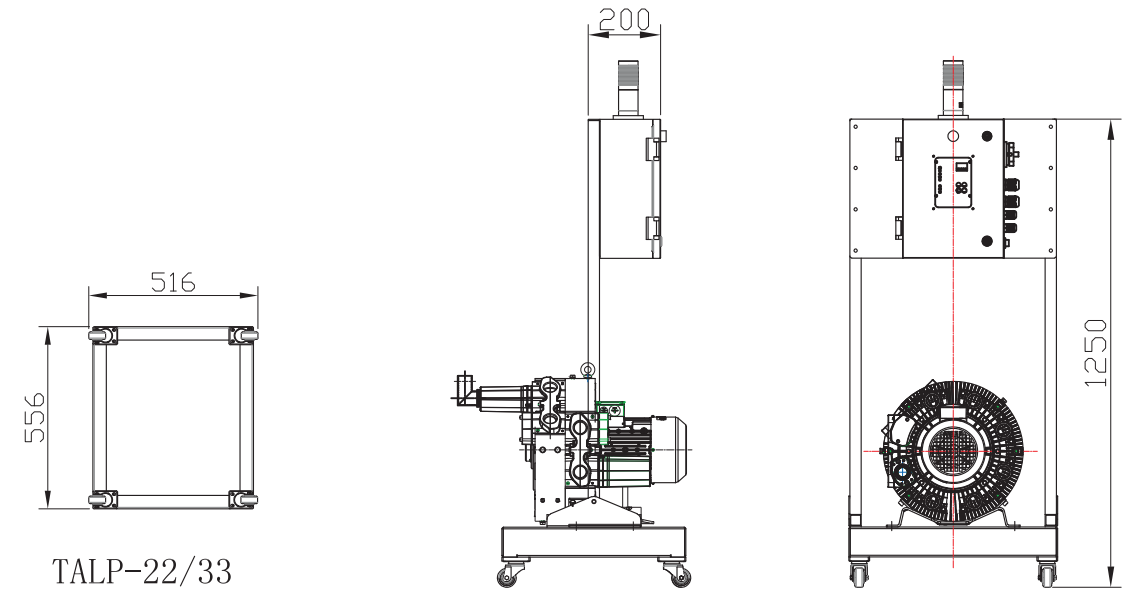
产品结构图 Product Structure Diagram

料杯 Loader Hopper

| | PSR-20 | PSR-50 | PSR-100 |
|---|--------|--------|---------|
| A | 630 | 630 | 630 |
| B | 420 | 420 | 420 |
| C | 1640 | 1640 | 1640 |
| D | 855 | 855 | 855 |
| E | 430 | 430 | 730 |
| F | 320 | 320 | 320 |
| G | 320 | 600 | 600 |



吸料主机 Loader



TALP-22/33

(双段)规格表 (Double Stage) Specification Sheet

| 项目 Item | | 型号 Model | TALP-22 | TALP-33 | TALP-66 |
|---|-----------------------------------|----------|--|-------------------|--------------------|
| 配置料杯规格 (数字代表容量(Lr)) Loader Hopper Model(number means Lr) | | | PSR20/PSR50 | | PSR50/PSR100 |
| 风机功率(KW) Bower power(KW) | | | 2.2 | 3.3 | 6.6 |
| 配管形式 Pipe Model | | | PVC软管或SUS304不锈钢管 PVC hose or SUS304 stainless pipe | | |
| 配管口径mm Pipe Diameter | | | φ38/φ50.8 | | φ50.8/φ63.5 |
| 电源 Power | 主回路电压 main current power | | AC380V/50Hz 3P 3W+E(标准电压) (standard voltage) | | |
| | 控制回路电压 control current voltage | | AC200V/220V 50Hz AC24V 1P 2W+E | | |
| | 总电气容量 total electric capacity(kW) | | 3 | 4 | 7 |
| 电源线 Power line | | | 5m | | |
| 重量 Weight(kg) | 料杯 Loader Hopper | | PSR-20:30kg PSR-50:40kg PSR-100:60kg | | |
| | 吸料机本体 Blower Unit | | 30kg | 40kg | 80kg |
| 外形尺寸(mm) (长×宽×高) dimensions(mm) (L×W×H) | 料杯 Loader Hopper | | PSR-20: φ380×1640 | PSR-50: φ660×1740 | PSR-100: φ660×1840 |
| | 吸料机本体 Blower Unit | | 560X520X1400 | | 800X800X1800 |

注: 产品规格若有变更, 恕不另行通知 We reserve right to change specifications without prior notice.

料杯 Hopper Receivers



MR系列

FSR系列

SR系列

CSR系列

料杯可控制吸料机之吸料动作顺畅。提供不同料杯系列-普通型料杯,不锈钢料杯,光学级料杯等供客户有多样性的选择。使用不锈钢材质,确保原料不受污染,搭配透明强化玻璃设计,容易监看料位情况,特别适用于光学级产品所使用。可直接安装在注塑机上或配合吸料机使用,清料,换料等工作更为得心应手。

主要分为:普通型料杯ER系列、沸腾式不锈钢料杯FSR系列、不锈钢料杯SR系列、中央式不锈钢料斗CSR系列。

Hopper Receivers are fitted with sensors to control materials suction smoothly. Diverse Hopper Receivers - standard type, stainless type and for optics type are provided according to customers' various requirements. Stainless hopper receivers ensure no contamination to raw materials and they are equipped with see-through window to monitor materials levels which are especially suitable for application of optics. They can be mounted onto plastic injection molding machines directly or to work with separated autoloaders and give more convenient on cleaning or changing materials. Including. ER Series Standard Hopper Receivers, FSR Series Optics Stainless Steel Hopper Receivers, SR Series Stainless Steel Hopper Receivers, CSR Series Central Stainless Steel Hopper Receivers.

特点 Features

- ◆ER/FSR系列接触原料部分采用不锈钢材质结构, SR/CSR/FSR系列采用全不锈钢材质结构, 确保原料不受污染, 用以提供分离式吸料机选用。

Stainless steel construction used by ER/FSR series for ensuring material free and for all structural by SR/CSR/FSR series from contamination that working with detachable autoloaders;

- ◆均采用不锈钢落料挡板, 不需随不同原料而调整。

Mechanical stainless flap fitting on ER/SR/CSR series that need not to be adjusted according to different material;

- ◆FSR/SR/CSR系列法兰座底与料斗之间采用卡箍锁住, 便于拆卸。

With hopper receivers and bases are locked by hinge, FSR/SR/CSR series is easy for dismantle;

- ◆CSR系列采用分离阀, 几台中央式吸料机共用一台马达适用中央供料系统;

A diaphragm valve fitting on CSR series if several central hopper receivers want to share same blower for centralized feeding system;

- ◆FSR系列特别针对光学级产品设计, 减少粉末对产品影响, 提升产品良率。

FSR series is particularly designed for optic product use for reducing powder to cause any defects for enhancing productivity qualities.

- ◆均装配对射式光电开关, 适于直接安装成型机入料口; 装配接近开关, 适于直接安装成型机料斗上。

Autoloaders equip with photo sensors which are mounted onto the feeding port of injection molding machines; autoloaders equip with proximity switch which are mounted onto the hopper dryers.

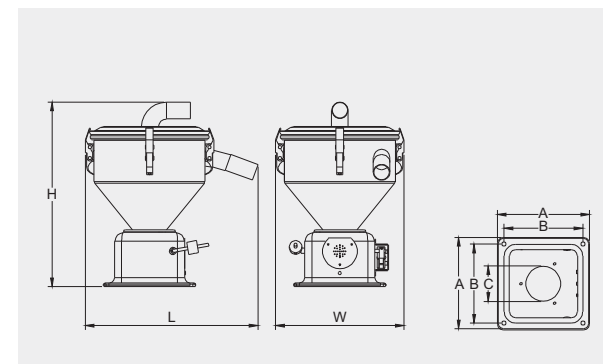
- ◆均采用玻璃料管搭配静电电容检测器设计, 可精确侦测原料输送;

To adopt glass tube with photo sensor (static capacity detection) for precisely detect material conveying.

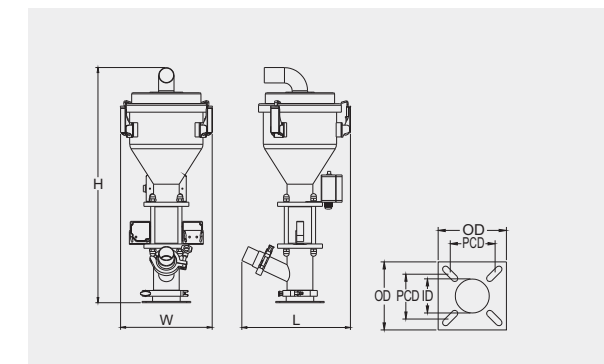
- ◆均装配不锈钢滤网, 可以及时清除积尘。

To be fitted with stainless screener for easy filtering dust.

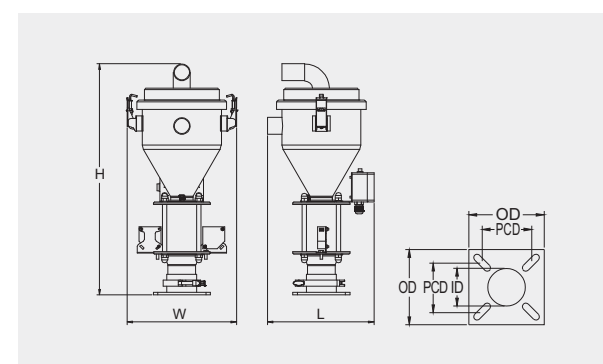
产品结构图 Product Structure Diagram



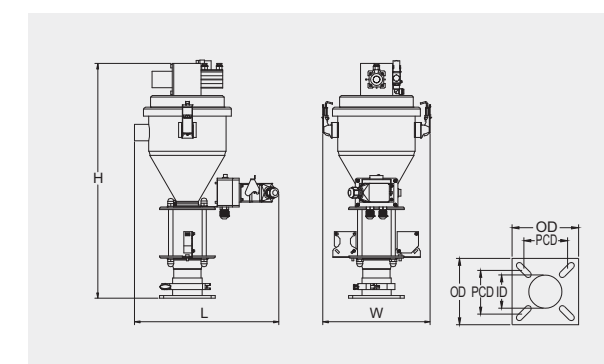
ER系列



FSR系列



SR系列



CSR系列

(双段)规格表 (Double Stage) Specification Sheet

| 产品型号 Model | ER-6E | SR-3E | SR-6E | SR-12E | SR-3 | SR-6 | SR-12 | SR-24 | FSR-3E | CSR-3E | CSR-6E | CSR-12E | CSR-3 | CSR-6 | CSR-12 | CSR-24 | | |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------|------|
| 料斗容量Hopper Capacity | L | 6 | 3 | 6 | 12 | 3 | 6 | 12 | 24 | 3 | 3 | 6 | 12 | 3 | 6 | 12 | 24 | |
| 输送能力Conveying Capacity kg/h | 140 | 70 | 140 | 200 | 70 | 140 | 200 | 320 | 70 | 70 | 140 | 200 | 70 | 140 | 200 | 320 | | |
| 感应类型Sensor Type | 光电式 Photoelectric | 近接式 Proximate | 光电式 Photoelectric | 光电式 Photoelectric | 近接式 Proximate | 近接式 Proximate | 近接式 Proximate | 光电式 Photoelectric | 光电式 Photoelectric | 光电式 Photoelectric | 光电式 Photoelectric | 近接式 Proximate | 近接式 Proximate | 近接式 Proximate | 近接式 Proximate | 近接式 Proximate | | |
| 控制电压Control Voltage | DV24V | DV24V | DV24V | DV24V | DV24V | DV24V | DV24V | DV24V | DV24V | DV24V | DV24V | DV24V | DV24V | DV24V | DV24V | DV24V | | |
| 料管口径Hose Size | mm | 38.1 (1.5") | 38.1 (1.5") | 38.1 (1.5") | 38.1 (1.5") | 38.1 (1.5") | 38.1 (1.5") | 38.1 (1.5") | 38.1 (1.5") | 38.1 (1.5") | 38.1 (1.5") | 38.1 (1.5") | 38.1 (1.5") | 38.1 (1.5") | 38.1 (1.5") | 38.1 (1.5") | | |
| 过滤类型Filter Type | 不锈钢滤网Filter Netting | 不锈钢滤网Filter Netting | 不锈钢滤网Filter Netting | 不锈钢滤网Filter Netting | 不锈钢滤网Filter Netting | 不锈钢滤网Filter Netting | 不锈钢滤网Filter Netting | 不锈钢滤网Filter Netting | 不锈钢滤网Filter Netting | 不锈钢滤网Filter Netting | 不锈钢滤网Filter Netting | 不锈钢滤网Filter Netting | 不锈钢滤网Filter Netting | 不锈钢滤网Filter Netting | 不锈钢滤网Filter Netting | 不锈钢滤网Filter Netting | | |
| 总功率Total Power | W | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | |
| 外观尺寸Dimensions | L(m) | 0.39 | 0.39 | 0.29 | 0.315 | 0.315 | 0.26 | 0.315 | 0.315 | 0.315 | 0.27 | 0.36 | 0.39 | 0.46 | 0.33 | 0.37 | 0.4 | 0.45 |
| | W(m) | 0.29 | 0.29 | 0.22 | 0.275 | 0.275 | 0.29 | 0.275 | 0.275 | 0.275 | 0.21 | 0.21 | 0.26 | 0.33 | 0.29 | 0.34 | 0.38 | 0.39 |
| | H(m) | 0.6 | 0.45 | 0.51 | 0.615 | 0.67 | 0.35 | 0.47 | 0.625 | 0.835 | 0.59 | 0.59 | 0.64 | 0.66 | 0.37 | 0.46 | 0.47 | 0.71 |
| 固定尺寸Size | A(m) | 0.15 | 0.21 | 0.12 | 0.12 | 0.12 | 0.22 | 0.22 | 0.22 | 0.12 | 0.12 | 0.12 | 0.12 | 0.22 | 0.22 | 0.22 | 0.22 | |
| | B(m) | 0.1 | 0.18 | 0.03 | 0.06 | 0.06 | 0.18 | 0.18 | 0.18 | 0.06 | 0.06 | 0.06 | 0.06 | 0.18 | 0.18 | 0.18 | 0.18 | |
| | C(m) | 0.056 | 0.081 | 0.078 | 0.078 | 0.078 | 0.2 | 0.2 | 0.2 | 0.078 | 0.078 | 0.078 | 0.078 | 0.2 | 0.2 | 0.2 | 0.2 | |
| 选配件Option | 吸料管Suction Tube+PPC钢丝软管Hose | 吸料管Suction Tube+PPC钢丝软管Hose | 吸料管Suction Tube+PPC钢丝软管Hose | 吸料管Suction Tube+PPC钢丝软管Hose | 吸料管Suction Tube+PPC钢丝软管Hose | 吸料管Suction Tube+PPC钢丝软管Hose | 吸料管Suction Tube+PPC钢丝软管Hose | 吸料管Suction Tube+PPC钢丝软管Hose | 吸料管Suction Tube+PPC钢丝软管Hose | 吸料管Suction Tube+PPC钢丝软管Hose | 吸料管Suction Tube+PPC钢丝软管Hose | 吸料管Suction Tube+PPC钢丝软管Hose | 吸料管Suction Tube+PPC钢丝软管Hose | 吸料管Suction Tube+PPC钢丝软管Hose | 吸料管Suction Tube+PPC钢丝软管Hose | 吸料管Suction Tube+PPC钢丝软管Hose | | |
| 机器重量Weight | kg | 6 | 7 | 10 | 12 | 13.5 | 9.5 | 12 | 13.5 | 17.5 | 10 | 11 | 13 | 14.5 | 10.5 | 13 | 14.5 | 18.5 |

注: 产品规格若有变更, 恕不另行通知

We reserve right to change specifications without prior notice.

C

TTW系列水式模温机
TTW Series Water Type Mold
Temperature Controllers

C-1

TTO系列油式模温机
TTO Series Oil Type Mold
Temperature Controllers

C-7

TTR高光机
TTR High-light Machine

C-10



TTW系列水式模温机

TTW Series Water Type Mold Temperature Controllers

模温控制系统
Mold Temperature Control System



使用水为传热媒介，以直接（标准型）或间接冷却（高温型）方式达到热交换。具有热传导效率高，污染少，水资源容易取得，使用成本低等优点。标准型温度控制达120~160℃。

Water Type Mold Temperature Controllers use water as heating media to realize heat exchange by direct cooling for standard temperature control from 120~160℃. Water type has its superiorities with high efficient heat transmission, less pollution, water resource easy to be attained with low cost.

冷却单元的冷却器结构获得实用新型专利
Practical New Patent for structure of cooler
专利号/Patent No: ZL 201120245120.X

特点 Features

◆ 电控箱与机身隔离，隔热效果佳，电器使用寿命长。

Electronic control panel and machine body are isolated to acquire good effects on heat insulation in order to extend the service life of electrical components.

◆ 模温机专用PID控制器，控温更合理，省电35%以上。

P.I.D multi-stage temperature control system can save power up to 35% thanks to control temperature accurately & reasonably.

◆ 安全保护及故障指示系统完善，维修方便无需专业人员。

Perfect safety protection and error indication display which are easy maintained and repaired, even without professionals can do it.

◆ 进口高级组件，使用年限长。

Imported hi-class parts with long service life.

◆ 升降温速度快，温度精确稳定，可达±0.1℃。

Rapid heating and cool down speeds lead temperature to be kept precisely and stably with accuracy up to ±0.1.

◆ 独特的加热设计，适合不同温控场所使用，节能效果明显。

Unique heating design are suitable to different temperature control application with excellent & distinct power saving.

◆ 主管路采用304不锈钢一体成型，管损小，加热均匀，使用寿命长。

304 stainless steel integrated pipelines with less pipe resistance and even heating for long service life.

◆ 开机自动排气功能。

Automatic air-exhausting function after startup.

◆ 吹气回水功能。

Air blowing and return water function.

安全保护及指示系统 Safety Protecting and Indiction System

安全保护及指示系统
电源欠相保护
总电源保护及指示灯
泵反转保护及指示灯
泵过载保护及指示灯
缺水保护及指示灯
过热保护及指示灯
热水By-pass 压回路
强制冷却
温度异常警报
异常警报蜂鸣器

Safety Protection and Indiction System
Power lack-phase protection
Power supply protection and indicating lamp
Pump reverse protection and indicating lamp
Pump overload protection and indicating lamp
Water shortage protection and indicating lamp
Overheat protection and indicating lamp
Hot water by-pass pressure release loop
Forced cooling
Abnormal temperature alarm
Abnormal alarm buzzer



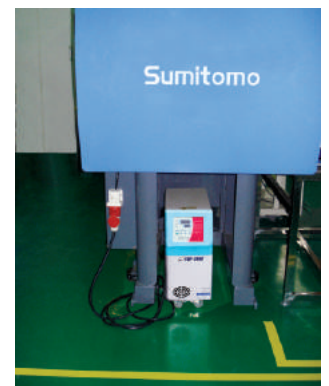
双温水式模温机
Dual-purpose water type mold temperature controller

模温控制系统
Mold Temperature Control System

选择加装配件 Additional Equipment For Option

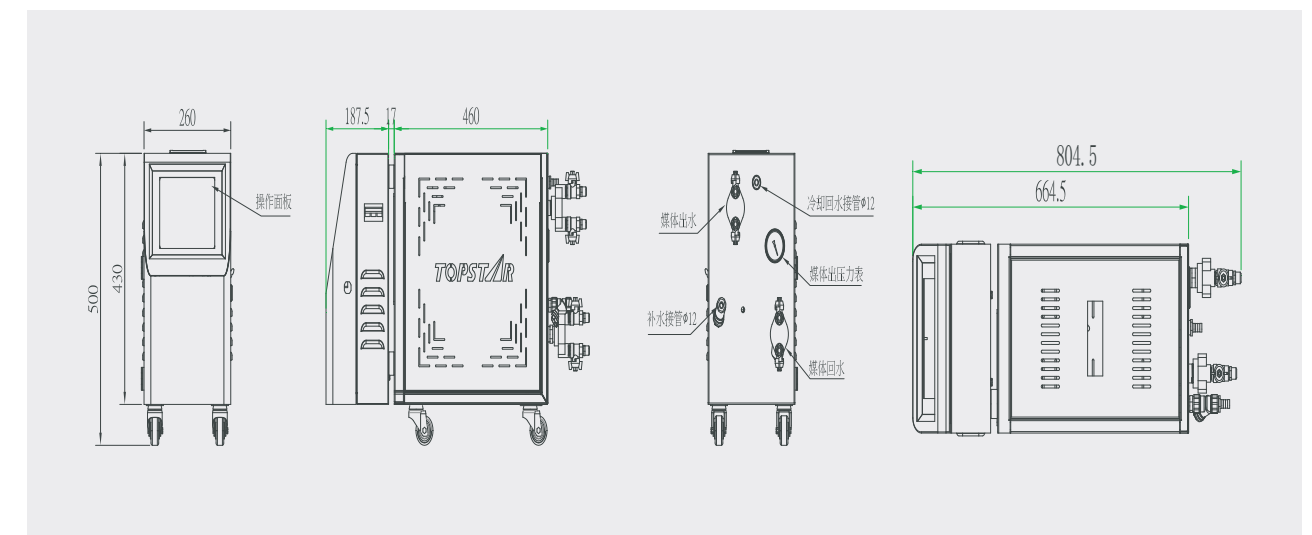
感温棒接到外部配线
大型水质滤芯器
防漏电保护开关
电压异常保护开关
铁弗龙管

Thermocouplen for connecting external wiring
Large water filter
leakage protection switch
Abnormal voltage protection switch
Teflon hose

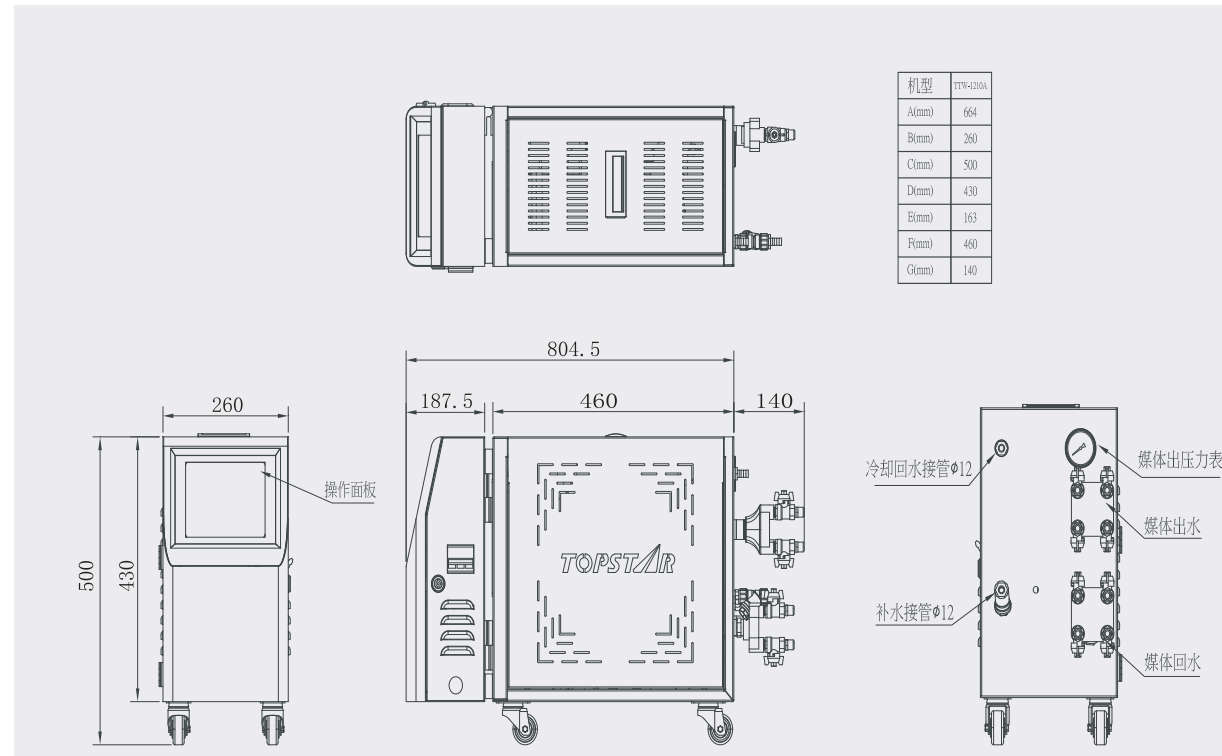


产品结构图 Product Structure Diagram

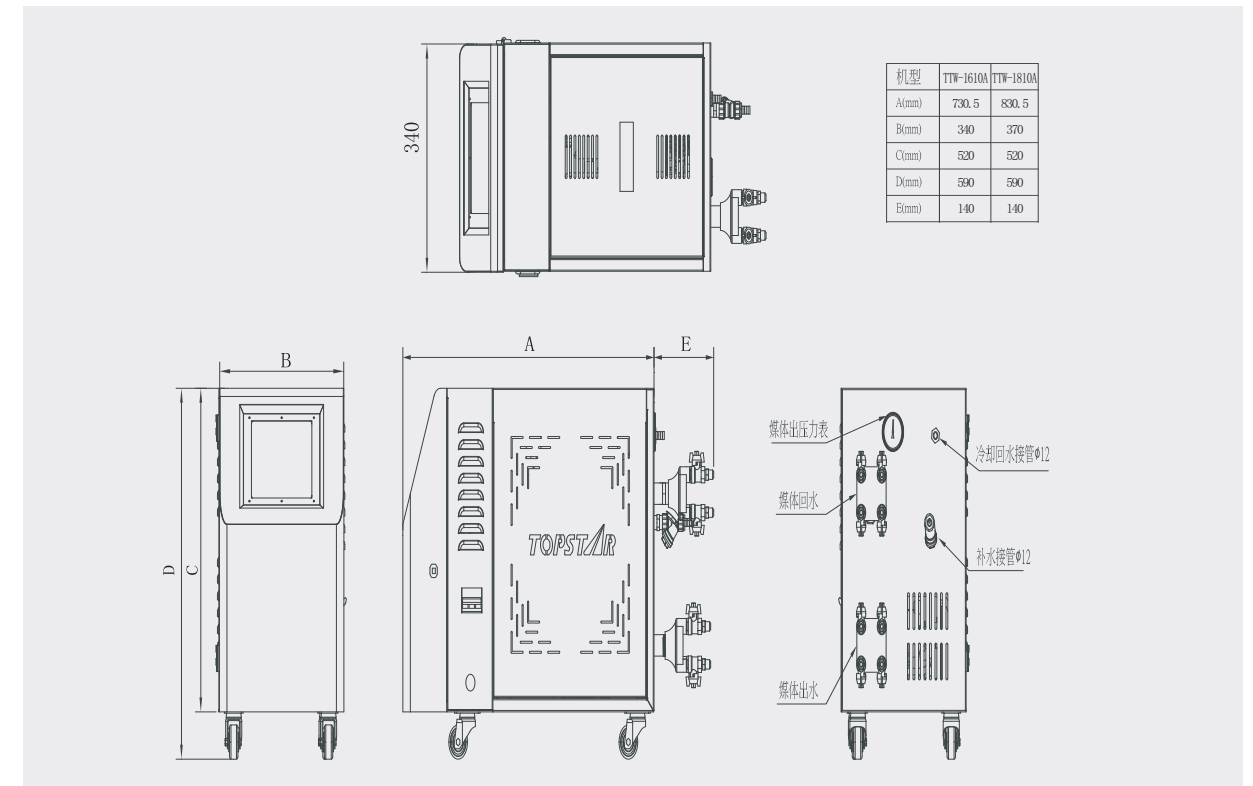
8.1 TTW-1205A(不含选购件)



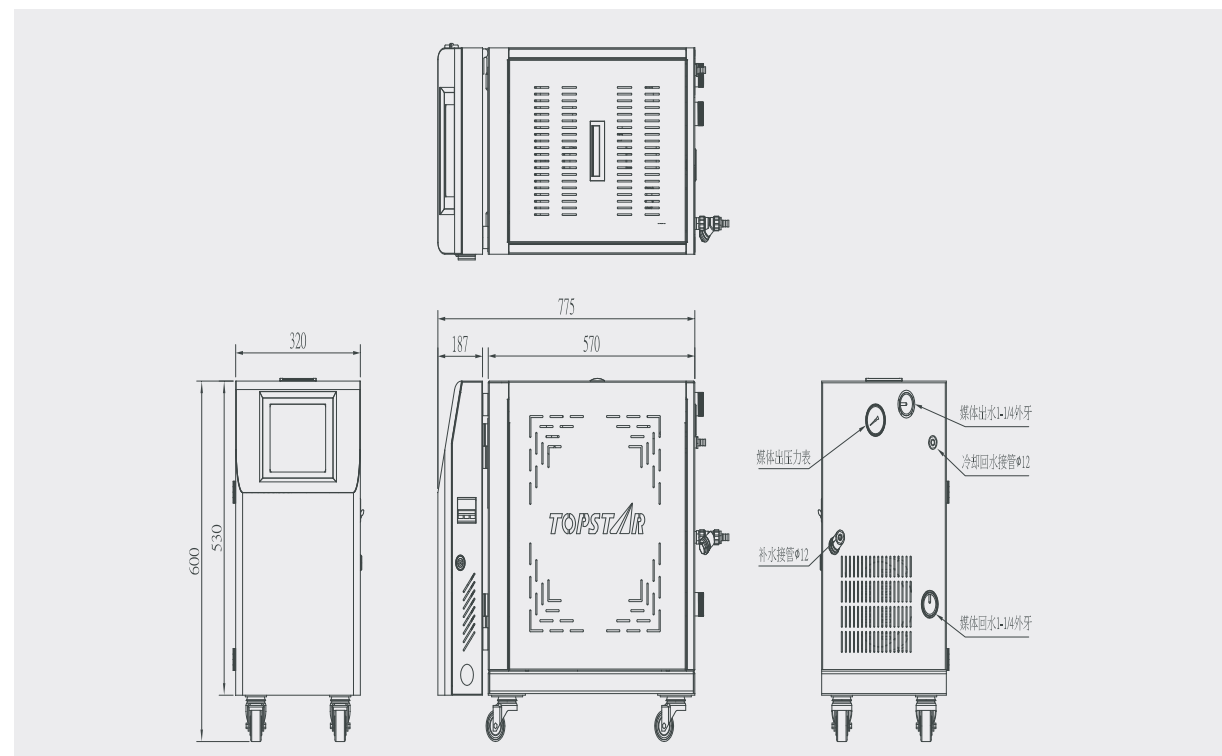
8.2 TTW-1210A(不含选购件)



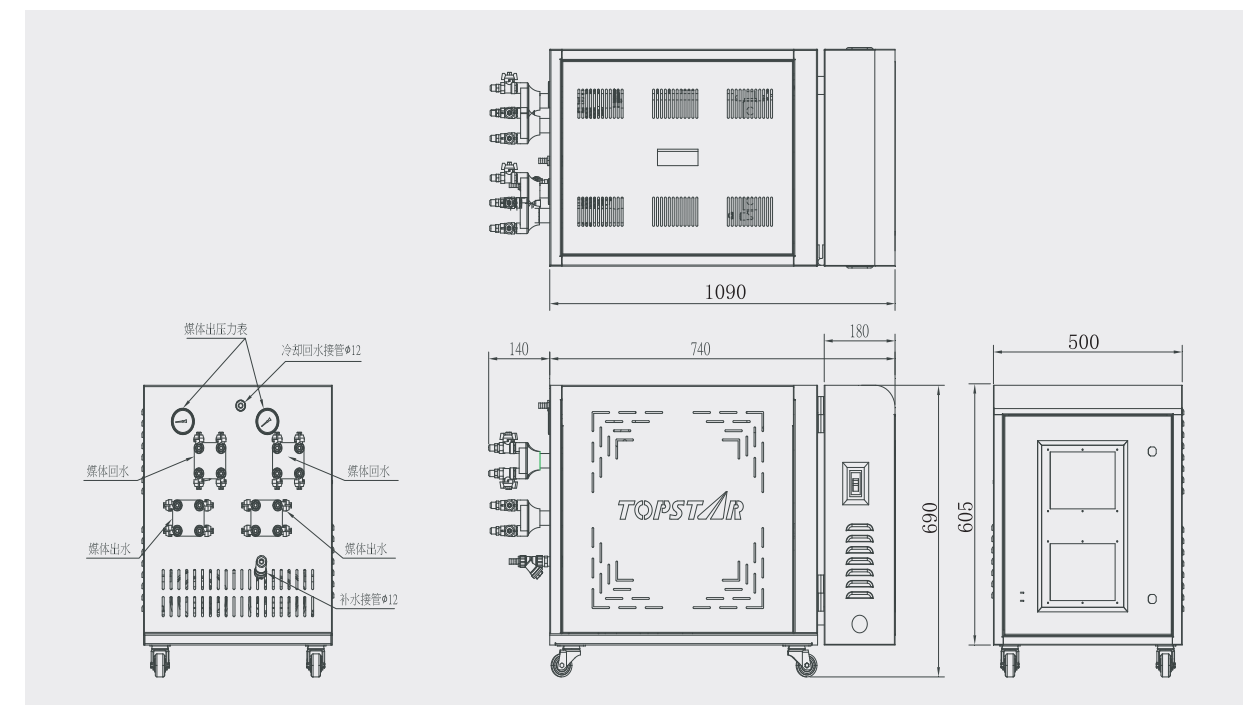
8.4 TTW-1610A/1810A(不含选购件)



8.3 TTW-1220A/1230A(不含选购件)



85 TTW-1610DA/1810DA(不含选购件)



规格表 Specification Sheet

| 项目 item | 型号 model | TTW-1205A | TTW-1210A | TTW-1220A | TTW-1230A | TTW-1610A | TTW-1610DA | TTW-1810A | TTW-1810DA |
|--|-----------------------------------|---|-----------------|-----------------|-----------------|--------------------|-------------------|-----------------|-------------------|
| 适用范围 range of application | | 清水 clean water | | | | | | | |
| 最高温度(°C) max. temperature | | 120 | | | | 160 | | 180 | |
| 最低温度(°C) min. temperature | | 冷却水温度+5°C water temperature +5°C | | | | | | | |
| 热媒体 medium | | 清水 clean water | | | | | | | |
| 冷却方式 cool mode | | 直接冷却 direct cool | | | | 间接冷却 indirect cool | | | |
| 加热管功率(KW) heater capacity | | 6 | 9 | 9 | 12 | 9 | 9X2 | 9 | 9X2 |
| 媒体泵 pump | 功率(KW) power | 0.37 | 0.75 | 1.5 | 2.2 | 0.75 | 0.75X2 | 磁力泵1.1 | 1.1X2 |
| | 最大流量(Lr/min) max.flow | 48 | 58 | 190 | 230 | 60 | 60 | 71 | 71 |
| | 最大压力(Mpa) max.pressure | 0.3 | 0.4 | 0.22 | 0.28 | 0.45 | 0.45 | 0.53 | 0.53 |
| | 流量(Lr/min) flow | 44/30/13 | 58/38/21 | 190/150/110 | 220/175/60 | 50/40/30 | 50/40/30 | 60/40/11 | 60/40/11 |
| | 压力(mpa) pressure | 0.1/0.16/0.24 | 0.14/0.26/0.38 | 0.15/0.18/0.2 | 0.19/0.22/0.26 | 0.1/0.2/0.3 | 0.1/0.2/0.3 | 0.1/0.26/0.44 | 0.1/0.26/0.44 |
| 增压泵(W) booster pump | | - | - | - | - | - | 48 | | |
| 媒体进出口径(分流器型式) inlet/outle pipe(splitter) | | 2进2出 2 in 2 out | 4进4出 4 in 4 out | 4进4出 4 in 4 out | 4进4出 4 in 4 out | 4进4出 4 in 4 out | 4进4出*2 4 in 4 out | 4进4出 4 in 4 out | 4进4出*2 4 in 4 out |
| 补水口径 supply water pipe | | Φ12 | | | | | | | |
| 冷却回水口径 water outlet pipe | | Φ12 | | | | | | | |
| 补水流量要求(客户提供) L/min water flow(custmor) | | 10 | 15 | 30 | 45 | 30 | 60 | 30 | 60 |
| 压缩空气要求(清模选项) compressed air(clean mould) | | 0.4-0.7mpa X 100L/min | | | | | | | |
| 报警功能 alarm | | 逆相、媒体不足、媒体泵过负荷、温度探头断线、温度上下限报警 phase fault, lack medium, pump overload, thermcouple fault, temperature low/high limit alarm | | | | | | | |
| 电源 power | 主回路电压 main current power | AC380V/50Hz 3P 3W+E(标准电压) (standard voltage) | | | | | | | |
| | 控制回路电压 control current voltage | AC200V/220V 50Hz AC24V 1P 2W+E | | | | | | | |
| | 总电气容量(KW) Total electric capacity | 200V/220V /380V | 6.5 | 10 | 10.7 | 14.5 | 10 | 20 | 11.3 |
| 主空开容量(A) Main breaker capacity | 200V/220V | 25 | 63 | 63 | 63 | 32 | 100 | 63 | 100 |
| | 380V/415V /440V | 16 | 25 | 32 | 32 | 25 | 63 | 25 | 63 |
| 电源线 power line | | 5m | | | | | | | |
| 涂装色 color | 机架本体 rack | 灰白(潘通冷灰1C) gray | | | | | | | |
| | 电气箱门、封板 electric box, cover plate | 绿色(潘通3262C) green | | | | | | | |
| | SUS不锈钢部分 SUS stainless steel part | 无 None | | | | | | | |
| 重量 weight | kg | 50 | 55 | 85 | 90 | 70 | 180 | 65 | 190 |
| 外形尺寸(mm) (长×宽×高) dimensions(mm) (L×W×H) | | 805×260×500 | 805×260×500 | 774×320×600 | 774×320×600 | 870×340×590 | 1280×500×700 | 970.5×340×590 | 1280×500×700 |

| 项目 item | 型号 model | TTW-125018 | TTW-125030 | TTW-1410 | TTW-1420 | TTW-1620 | TTW-1630 | TTW-1650 | TTW-184024 (磁力泵) |
|---------------------------|------------------------|----------------------------------|--------------|----------------|---------------|--------------------|----------------|--------------|------------------|
| 适用范围 range of application | | 清水 clean water | | | | | | | |
| 最高温度(°C) max. temperature | | 120 | | | | 160 | | 180 | |
| 最低温度(°C) min. temperature | | 冷却水温度+5°C water temperature +5°C | | | | | | | |
| 热媒体 medium | | 清水 clean water | | | | | | | |
| 冷却方式 cool mode | | 直接冷却 direct cool | | | | 间接冷却 indirect cool | | | |
| 加热管功率(KW) heater capacity | | 9X2 | 15X2 | 9 | 9 | 9 | 9X2 | 9X2 | 12X2 |
| 媒体泵 pump | 功率(KW) power | 3.7 | 3.7 | 0.75 | 1.5 | 1.5 | 2.2 | 3.7 | 磁力泵3 |
| | 最大流量(Lr/min) max.flow | 475 | 475 | 58 | 190 | 190 | 230 | 475 | 100 |
| | 最大压力(Mpa) max.pressure | 0.35 | 0.35 | 0.35 | 0.22 | 0.22 | 0.28 | 0.35 | 0.5 |
| | 流量(Lr/min) flow | 416/225/105 | 416/225/105 | 58/38/21 | 190/150/110 | 190/150/110 | 220/175/60 | 416/225/105 | 80/50/30 |
| | 压力(mpa) pressure | 0.2/0.3/0.33 | 0.2/0.3/0.33 | 0.14/0.26/0.38 | 0.15/0.18/0.2 | 0.15/0.18/0.2 | 0.19/0.22/0.26 | 0.2/0.3/0.33 | 0.30/0.4/0.45 |
| 增压泵(W) booster pump | | - | - | - | - | - | 48 | | |

| 媒体进出口径(分流器型式) inlet/outle pipe(splitter) | 8进8出 8 in 8 out | 8进8出 8 in 8 out | 4进4出 4 in 4 out | 4进4出 4 in 4 out | 4进4出 4 in 4 out | 4进4出 4 in 4 out | 8进8出 8 in 8 out | 8进8出 8 in 8 out | |
|--|---|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|
| 补水口径 supply water pipe | Φ12 | | | | | | | | |
| 冷却回水口径 water outlet pipe | Φ12 | | | | | | | | |
| 补水流量要求(客户提供) L/min water flow(custmor) | 60 | 60 | 15 | 30 | 30 | 45 | 60 | 30 | |
| 压缩空气要求(清模选项) compressed air(clean mould) | 0.4-0.7mpa X 100L/min | | | | | | | | |
| 报警功能 alarm | 逆相、媒体不足、媒体泵过负荷、温度探头断线、温度上下限报警 phase fault, lack medium, pump overload, thermcouple fault, temperature low/high limit alarm | | | | | | | | |
| 电源 power | 主回路电压 main current power | AC380V/50Hz 3P 3W+E(标准电压) (standard voltage) | | | | | | | |
| | 控制回路电压 control current voltage | AC200V/220V 50Hz AC24V 1P 2W+E | | | | | | | |
| | 总电气容量(KW) Total electric capacity | 200V/220V /380V | 22 | 34 | 10 | 10.5 | 11 | 20.5 | 22 |
| 主空开容量(A) Main breaker capacity | 200V/220V | 63 | 100 | 63 | 63 | 32 | 63 | 100 | 100 |
| | 380V/415V /440V | 63 | 63 | 25 | 32 | 25 | 63 | 63 | 63 |
| 电源线 power line | 5m | | | | | | | | |
| 涂装色 color | 机架本体 rack | 灰白(潘通冷灰1C) gray | | | | | | | |
| | 电气箱门、封板 electric box, cover plate | 绿色(潘通3262C) green | | | | | | | |
| | SUS不锈钢部分 SUS stainless steel part | 无 None | | | | | | | |
| 重量 weight | kg | 90 | 95 | 55 | 85 | 90 | 130 | 100 | 130 |
| 外形尺寸(mm) (长×宽×高) dimensions(mm) (L×W×H) | | 1017×500×926 | 1017×500×926 | 680×260×500 | 774×320×600 | 801×350×790 | 967×440×853 | 1017×500×926 | 1033×400×870 |

| 项目 item | 型号 model | TTW-1205DA | TTW-1210DA | TTW-1220D | TTW-125030D | TTW-1620D | TTWC-1210 | TTWC-1230 | TTWC-1610 |
|--|-----------------------------------|---|---------------------|---------------------|---------------------|---------------------------------|-----------------|-----------------|-----------------|
| 适用范围 range of application | | 清水 clean water | | | | | | 纯水 | |
| 最高温度(°C) max. temperature | | 120 | | | | 160 | 120 | | 160 |
| 最低温度(°C) min. temperature | | 冷却水温度+5°C water temperature +5°C | | | | 冷水温度+5°C water temperature +5°C | | | |
| 热媒体 medium | | 清水 clean water | | | | 纯水 clean water | | | |
| 冷却方式 cool mode | | 直接冷却 direct cool | | | | 间接冷却 indirect cool | | | |
| 加热管功率(KW) heater capacity | | 6x2 | 9x2 | 9x2 | 15x4 | 9x2 | 9 | 18 | 9 |
| 媒体泵 pump | 功率(KW) power | 0.37x2 | 0.75x2 | 1.5x2 | 3.7x2 | 1.5x2 | 0.75 | 2.2 | 0.75 |
| | 最大流量(Lr/min) max.flow | 48 | 58 | 190 | 475 | 190 | 58 | 150 | 60 |
| | 最大压力(Mpa) max.pressure | 0.3 | 0.4 | 0.22 | 0.35 | 0.22 | 0.4 | 0.45 | 0.45 |
| | 流量(Lr/min) flow | 44/30/13 | 58/38/21 | 190/150/110 | 416/225/105 | 190/150/110 | 58/38/21 | 120/80/60 | 50/40/30 |
| | 压力(mpa) pressure | 0.1/0.16/0.24 | 0.14/0.26/0.38 | 0.15/0.18/0.2 | 0.2/0.3/0.33 | 0.1/0.18/0.24 | 0.14/0.26/0.38 | 0.25/0.35/0.45 | 0.1/0.2/0.3 |
| 增压泵(W) booster pump | | - | - | - | - | 48 | | | |
| 媒体进出口径(分流器型式) inlet/outle pipe(splitter) | | 2进2出x2 2 in 2 outx2 | 4进4出x2 4 in 4 outx2 | 4进4出x2 4 in 4 outx2 | 1进1出x2 1 in 1 outx2 | 4进4出x2 4 in 4 outx2 | 4进4出 4 in 4 out | 4进4出 4 in 4 out | 4进4出 4 in 4 out |
| 补水口径 supply water pipe | | 1/4" | 3/8" | 3/8" | 1-1/4" | 3/8" | 3/8" | 3/8" | 3/8" |
| 冷却回水口径 water outlet pipe | | Φ12 | | | | | | | |
| 补水流量要求(客户提供) L/min water flow(custmor) | | 20 | 30 | 60 | 90 | 60 | 水箱容积(15L) | 水箱容积(50L) | 水箱容积(15L) |
| 压缩空气要求(清模选项) compressed air(clean mould) | | 0.4-0.7mpa X 100L/min | | | | | | | |
| 报警功能 alarm | | 逆相、媒体不足、媒体泵过负荷、温度探头断线、温度上下限报警 phase fault, lack medium, pump overload, thermcouple fault, temperature low/high limit alarm | | | | | | | |
| 电源 power | 主回路电压 main current power | AC380V/50Hz 3P 3W+E(标准电压) (standard voltage) | | | | | | | |
| | 控制回路电压 control current voltage | AC200V/220V 50Hz AC24V 1P 2W+E | | | | | | | |
| | 总电气容量(KW) Total electric capacity | 200V/220V /380V | 13 | 19.5 | 21 | 68 | 21.5 | 10 | 21 |
| 主空开容量(A) Main breaker capacity | 200V/220V | 63 | 63 | 63 | 200 | 100 | 32 | 63 | 63 |
| | 380V/415V /440V | 32 | 63 | 63 | 150 | 63 | 25 | 63 | 63 |
| 电源线 power line | | 5m | | | | | | | |
| 涂装色 color | 机架本体 rack | 灰白(潘通冷灰1C) gray | | | | | | | |
| | 电气箱门、封板 electric box, cover plate | 绿色(潘通3262C) green | | | | | | | |
| | SUS不锈钢部分 SUS stainless steel part | 无 None | | | | | | | |
| 重量 weight | kg | 70 | 90 | 120 | 160 | 140 | 55 | 120 | 130 |
| 外形尺寸(mm) (长×宽×高) dimensions(mm) (L×W×H) | | 800×464×638 | 800×464×638 | 1047×600×650 | 1017×901×925 | 1090×600×778 | 823×320×780 | 1160×650×980 | 823×320×780 |

注: 产品规格若有变更, 恕不另行通知

We reserve right to change specifications without prior notice.

TTO系列油式模温机

TTO Series Oil Type Mold Temperature Controllers

模温控制系统
Mold Temperature Control System



使用油为传热媒介，以间接冷却方式达到热交换，具有控温范围大，热稳定性好等优点。标准型温度控制达200℃，高温型已达300℃。

Oil Type Mold Temperature Controllers use oil as heating media to realize heat exchange by indirect cooling. Oil type has its superiorities with wide temperature controlled range and excellent heat stability. Standard heating temperature can reach at 200℃ while high temperature type can reach 300℃.

特点 Features

◆ 电控箱与机身隔离，隔热效果佳，电器使用寿命长。

Electronic control panel and machine body are isolated to acquire good effect on heat insulation in order to extend the service life of electrical components.

◆ 模温机专用PID控制器，控温更合理，省电35%以上。

P.I.D multi-stage temperature control system can save power up to 35% thanks to control temperature accurately & reasonably.

◆ 安全保护及故障指示系统完善，维修方便无需专业人员。

Perfect safety protection and error indication display which are easy maintained and repaired, even without professionals can do it.

◆ 进口高级组件，使用年限长。

Imported hi-class parts with long service life.

◆ 升降温速度快，温度精确稳定，可达±0.1℃。

Rapid heating and cool down speeds lead temperature to be kept precisely and stably with accuracy up to ±0.1.

◆ 独特的加热设计，适合不同温控场所使用，节能效果明显。

Unique heating design are suitable to different temperature control application with excellent & distinct power saving.

◆ 主管路采用304不锈钢一体成型，管损小，加热均匀，使用寿命长。

304 stainless steel integrated pipelines with less pipe resistance and even heating for long service life

◆ 开机自动排气功能。

Automatic air-exhausting function after startup.

◆ 吹气回油功能。

Air blowing and return oil function.

安全保护及指示系统 Safety Protecting and Indiction System

电源欠相保护
总电源无熔丝断路器
泵反转保护及指示灯
泵过载保护及指示灯
缺水保护及指示灯
过热保护及指示灯
热油By-pass 压回路
强制冷却
温度异常警报
异常警报蜂鸣器
缺油保护及指示器

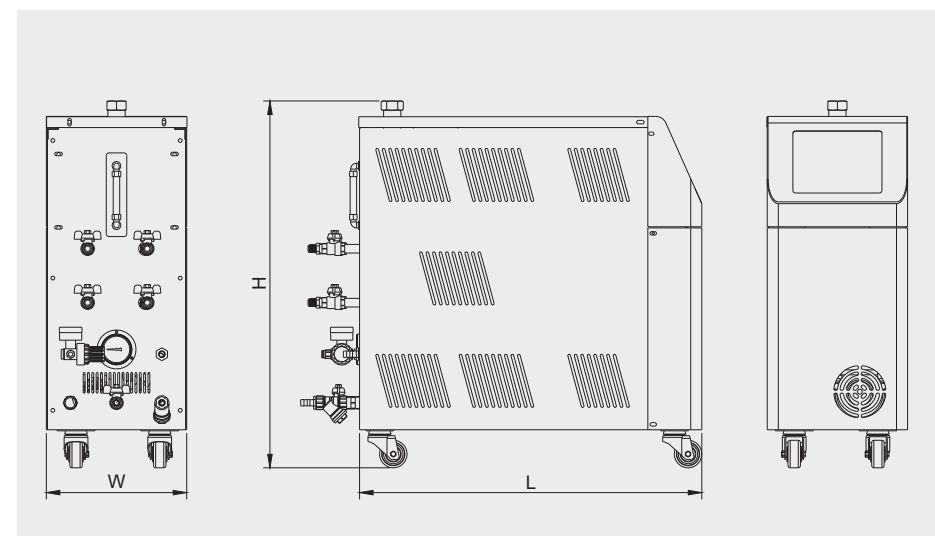
Safety Protection and Indiction System
Power lack-phase protection
Non-fuse circuit braker for protecting power supply
Pump reverse protection and indicating lamp
Pump overload protection and indicating lamp
Water shortage protection and indicating lamp
Overheat protection and indicating lamp
Hot oil by-pass pressure release loop
Forced cooling
Abnormal temperature alarm
Abnormal alarm buzzer
Oil shortage protection and indicating lamp

选择加装配件 Additional Equipment For Option

感温棒接到外部配线
防漏电保护开关
回油温度显示表
电压异常保护开关
铁弗龙管

Thermocouplen for connecting external wiring
leakage protection switch
Thermometer for return oil
Abnormal voltage protection switch
Teflon hose

产品结构图 Product Structure Diagram



双温油式模温机
Dual-purpose oil type mold temperature controller

模温控制系统
Mold Temperature Control System

规格表 Specification Sheet

| 产品型号 Model | TTO-2005 | TTO-2010 | TTO-2020 | TTO-3010 | TTO-2005D | TTO-2010D | TTO-2020D |
|--|-----------------------------|---------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| 加热器功率 Heater Power (KW) | 6 | 9 | 9 | 12 | 6x2 | 9x2 | 12x2 |
| 传热媒介 Heat Transfer Medium | 油 Oil | | | | | | |
| 冷却方式 Cooling Method | 间接冷却 Indirect | | | | | | |
| 冷却水压要求 Min. Water Pressure (Kg/cm2) | 2~5 | | | | | | |
| 冷却水配管 Cooling Water Pipe | PT1/2 | | | | | | |
| 最高使用温度 Max. Working Temp. (°C) | 200 | 200 | 200 | 300 | 200 | 200 | 200 |
| 最低使用温度 Min. Working Temp. (°C) | 进油温度+5°C Inlet Temp.+5°C | | | | | | |
| 温控精度 Temperature Control Accuracy(°C) | ±0.1°C | | | | | | |
| 热水配管 Hot Water Pipe | 2进2出PT3/8 2in2outPT3/8 | 4进4出PT3/8 4in4outPT3/8 | 4进4出PT3/8 4in4outPT3/8 | 2进2出PT3/8x2组 2in2outPT3/8x2 | 4进4出PT3/8x2组 4in4outPT3/8x2 | 4进4出PT3/8x2组 4in4outPT3/8x2 | 4进4出PT3/8x2组 4in4outPT3/8x2 |
| 冷却能力 Cooling Capacity (Kcal/H) | 8000 | 9000 | 19000 | 95000 | 16000 | 18000 | 18000 |
| 水泵功率 Pump Power (HP) | 0.5 | 1 | 2 | 1 | 0.5x2 | 1x2 | 2x2 |
| 水泵流量 Pump Flow (L/min) | 61 | 63 | 191 | 71 | 61x2 | 63x2 | 191x2 |
| 油箱容量 Oil Tank (L) | 7 | 7 | 19 | 26 13 | 7x2 | 7x2 | 50 |
| 水泵扬程 Water pump lifts (M) | 28 | 38 | 26 | 磁力泵45m | 28 | 38 | 26 |
| 系统电源 Power Supply (V) | AC380V/3P/50HZ | | | | | | |
| 机器总功率 Total Power (KW) | 6.5 | 9.9 | 10.7 | 12.9 | 13 | 19.8 | 27 |
| 电源线规格 Wires Specifications (mm ²) | 4x4 | | 4x6 | | 4x10 | | |
| 电源线长度 Wires Length (M) | 6 | | | | | | |
| 外观尺寸 Dimensions LxHxW(m) | 0.635*0.65*0.26 | 0.67*0.7*0.29 | 1.15*0.94*0.45 | 1*0.89*0.35 | 0.635*0.65*0.52 | 0.67*0.7*0.58 | 1.4*0.99*0.7 |
| 机器重量 Weight (Kg) | 60 | 70 | 100 | 155 | 110 | 130 | 190 |

注：产品规格若有变更，恕不另行通知 We reserve right to change specifications without prior notice.

TTR高光机 TTR high-light machine



高光无痕注塑成型对模具要求 Mold requirements of the No trace of high-light injection molding

传统注塑和急冷急热高光注塑各塑胶类的工艺温度比较表
Processing temperature comparison table for traditional injection and rapid heat and cool high-gloss injection molding

| 传统注塑恒定温度 Conventional injection molding constant temperature | 100 | 90 | 80 | 80 | 65 | 65 | 60 |
|--|--------|--------|---------|--------|----------|--------|--------|
| 急冷急热高光注塑(加热温度&冷却温度) Rapid heat and cool high-gloss injection molding(Heating temperature & cooling temperature) | 160&80 | 145&75 | 125&75 | 125&70 | 105&60 | 110&60 | 100&60 |
| 塑胶种类 Plastic type | PC+GF | PC | PC+PMMA | PA+ABS | ABS+PMMA | PMMA | ABS |

模具的配置 Mold configuration

◆ 模具内表面要求非常高的光泽度，以确保制品的表面质量。

The inner surface of the mold requires very high gloss to ensure the surface quality of the product.

◆ 模具内部镶件尽量采用原身。

Mold internal inserts try to use the original.

◆ 在使用过长中要尤其注重模具的保养，确保干燥、无尘。

In the use of long to pay special attention to mold maintenance, to ensure dry and dust-free.

◆ 模芯定位尽量采用中心定位，逼空减少热量传递。

Mold core positioning as far as possible using the center position, Forced to reduce heat transfer.

◆ 模具必须采用隔热处理，尽量避免模芯温度散失。

Mold must be insulated, Try to avoid the loss of core temperature.

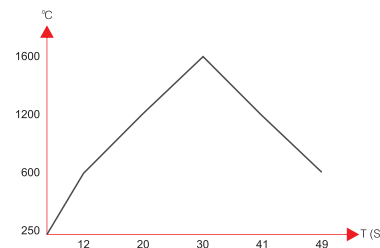
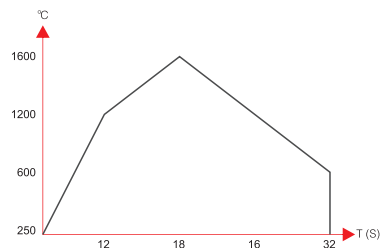
◆ 常用冷热模具钢材有：日本“日立CENAI”，德国“葛利兹”。

Hot and cold mold steel commonly used are: Japan "CENAI", Germany "GMH".

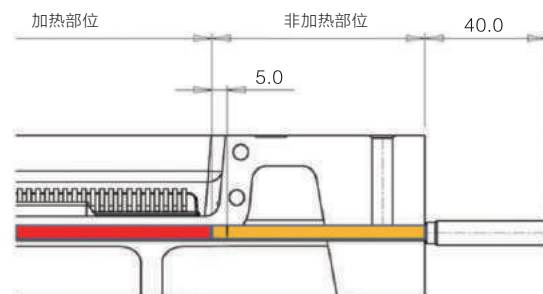
高光无痕注塑成型方式比较 Comparison of high light non-marking injection molding methods

高光主塑无痕成型又称快速模具温度加热冷却技术，现在市场上主要有两种辅助成型设备
High-speed injection molding Seamless molding, also known as rapid mold temperature heating and cooling technology, there are two main auxiliary molding equipment on the market today:

| | | |
|--|--|---|
| <p>电阻加热辅助成型 Resistance heating assist molding</p> <p>根据产品需求可实现任意一点温度精确控制 According to product demand can achieve any point of precise temperature control</p> <p>150吨至240吨注塑机耗电5°/小时+加热时耗电 150 tons to 240 tons injection molding machine power consumption: 5 hours+ It consumes power when heated</p> | <p>成型 Molding</p> <p>温度控制 Temperature Control</p> <p>功耗 Consumption</p> | <p>高温高压辅助成型 High temperature and pressure assist molding</p> <p>整个模面只有一个温度无法调整 The mold surface temperature is fixed, Unable to adjust</p> <p>耗电高: 功率80KW左右 High power consumption: power 80KW</p> |
| <p>适合现有供电系统，减少初次使用安装成本 Suitable for existing power supply system, reducing initial installation costs</p> <p>输出强制断电开关 漏电保护开关 Forced power switch Leakage protection switch</p> <p>适用于通用模具材料 Suitable for general mold material</p> <p>产品使用方便，操作便捷 Products easy to use, easy to operate</p> | <p>反应速度 Reaction Speed</p> <p>安装 Installation</p> <p>安全性 Safety</p> <p>材料要求 Material requirements</p> <p>生产管理 Production management</p> | <p>需在现有供电系统外单独增加独立线路 Individual lines need to be added separately from the existing power supply system</p> <p>有蒸汽泄露的风险 There is a risk of steam leaks</p> <p>需要特殊指定钢材 Need to specify special steel</p> <p>高温高压是特种设备，需要持证上岗 High temperature and pressure is a special equipment, the need for certification</p> |



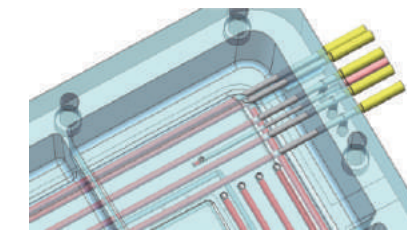
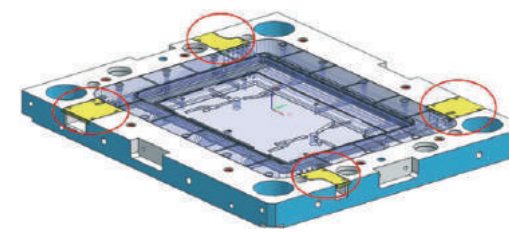
高光无痕注塑模具安装及加工 High-light seamless injection mold installation and processing



加热棒孔开始的部位
The beginning area of the Heating rod hole

如果加热棒的加热部位在加热棒的清洁孔面漏出来的话会出现损伤。
加热面板和冷却面板在移动的时候，在不影响分离距离的范围之内，比加热棒的直径再扩大加工1mm~2mm,或按照U型加工。(按照U型加工的时候不拔出加热棒也可分离加热面板和冷却面板)

Damage can occur if the heating part of the heating rod leaks out through the cleaning hole of the heating rod.
When the heating panel and the cooling panel are moved, the diameter of the heating bar should be expanded by 1mm ~ 2mm or within the range of not affecting the separation distance, or be processed according to the U-shape. (According to U-shaped processing. When not pulling out the heating rod can also separate the heating panel and cooling panel).



把加热棒组装完成在加热面板上的时候，加热棒的头部的位置加工成槽之后，最后请用盖子盖上。

在加热棒和感应器走线的位置为了外观整洁，请挖走线槽。

When the heating rod is assembled on the heating panel, after the head of the heating rod is processed into a groove, finally cover with a lid.

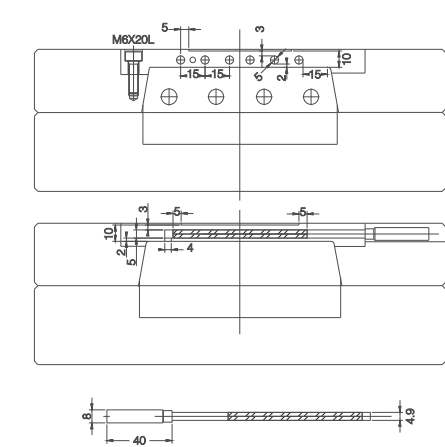
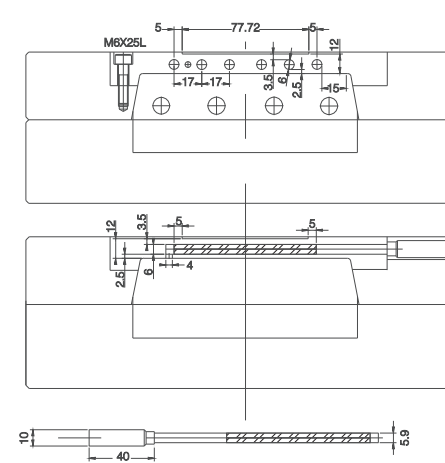
In the heating rod and the sensor alignment position for the appearance of neat, dig the trough.

加热棒的清洁孔的位置是在加热棒根部非加热区域部位，避免加热部位露出。(加热棒孔5mm直径/6mm直径，清洁孔的直径都在5mm以下)

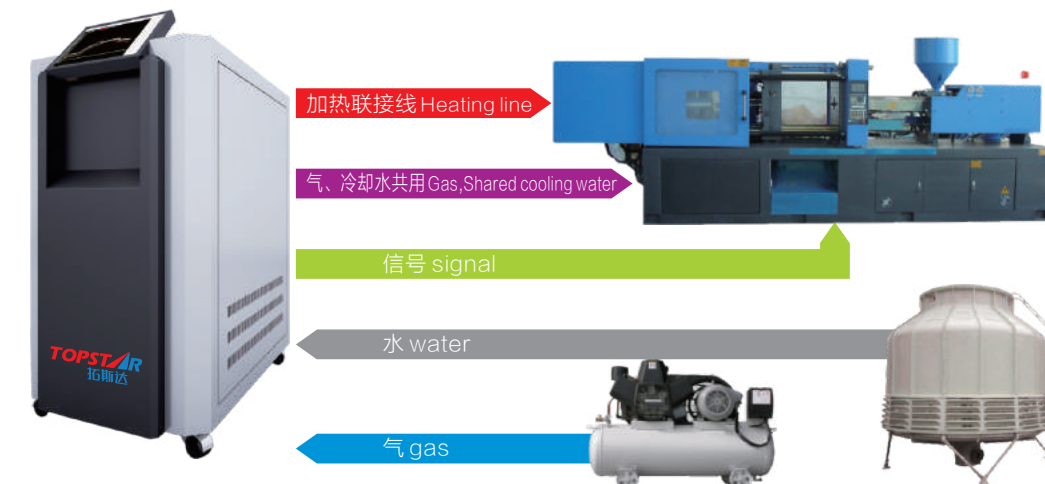
感应器的清洁孔的位置是，避免根部5mm的感温部位。(为了能准确测定温度，在离感应器的根部8mm的位置进行加工)

Heating rod cleaning hole position is in the heating rod root non-heating area, to avoid the exposed parts. Heating rod hole 5mm diameter / 6mm diameter, cleaning hole diameter is 5mm or less.

Sensor cleaning hole position is to avoid the root of the temperature of 5mm parts. (In order to accurately determine the temperature, in the root of the sensor 8mm position for processing).



高光无痕注塑示意图 High-light no trace injection diagram



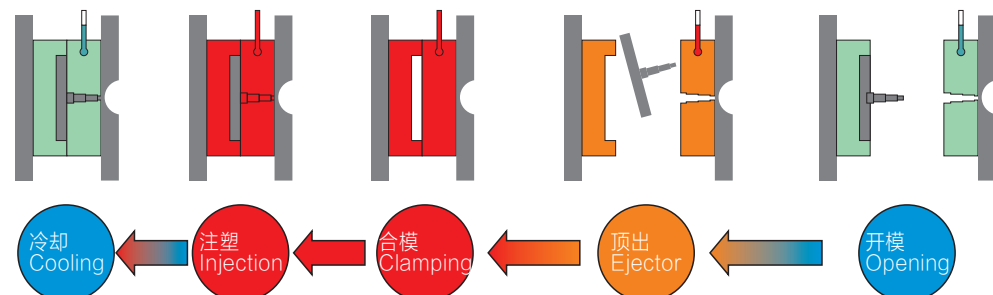
| 电源 Power | 总功率 Total power | 循环水泵 Circulating pump | 压缩机 Compressor | 外形尺寸 Dimension |
|--------------|--|-----------------------|----------------|---------------------|
| 30/380V/50Hz | 5.25模具加热棒功率 5.25 Mold heating rod power | 1.5kW | 3.75kW | 1200 × 600 × 1000mm |

高光无痕注塑工艺流程 High-light no trace injection process

急速升降模温系统是采用电阻加热低温水冷却，当产品离开模腔后，电阻加热模具，等待模具温度提升到塑胶的TG值时，开始给模腔注塑塑胶，在注塑及完成保压后，断电注入冷却水，待模具温度下降到(下线到达)设定值后开模，完成整个注塑过程。

Rapid heating and cooling mold temperature system is the use of Resistance heating and cold water cooling, when the product leaves the cavity, the resistance heating mold, waiting for the mold temperature to the plastic TG value, began to mold the plastic injection mold, after injection molding and packing, power is cut off to inject cooling water. Waiting for the mold temperature to fall (reached the lower limit) after the set value to open the mold to complete the entire injection molding process.

- 消除产品表面溶接线，溶接痕，波纹，银丝纹
Elimination of product surface weld lines, weld marks, ripples, silver lines
- 彻底解决塑胶产品的表面缩水现象
Completely solve the plastic surface shrinkage phenomenon
- 提高产品表面光洁度，使表面光洁度可达到镜面
Improve product surface finish, so that the surface finish can reach the mirror effect
- 产品不需要喷漆后续加工，提高成品率20-30%
Product does not require spray paint processing, improve the yield of 20-30%
- 解决加纤产品产生的浮纤现象使品质更完美
Resolve the fiber floating products produced by fiber phenomenon, making the quality more perfect
- 使薄壁成型提高注塑流动性，提高产品品质和强度
To improve the thin-walled injection molding fluidity and improve product quality and strength
- 使厚壁成型注塑周期可降低60%以上，增强塑料的流动性及填充效果
Making thick-walled molding cycle can be reduced by more than 60%, enhance the mobility of plastic and filling effect



高光无痕注塑工艺系统技术介绍 High light no trace injection molding technology system technology introduction

高光无痕急冷急热注塑成型系统成型技术的一种，技术是通过运用电阻加热等方式将模具表面快速升温，令成型模腔表面温度达到树脂塑料的玻璃转移温度以上，然后开始进行射出成型，当完成模腔填充过程后，立即转换成冷却媒体使模具表面急速下降，从而改变塑料产品表面特性。

It is a kind of high-gloss no trace rapid heating and cooling injection molding technology. The technique is to rapidly raise the mold surface by means of resistance heating. The surface temperature of the molding cavity reaches above the glass transition temperature of the resin plastic, and then the injection molding begins. After the cavity filling process is completed, the mold surface is immediately converted to a cooling medium to rapidly change the surface properties of the plastic product.

结合线的形成和处理 Binding line formation and processing

在当今高光无痕急冷急热注塑成型工艺生产领域中，根据加热介质的不同，可分为蒸汽辅助注塑、电热辅助注塑、过热水辅助注塑等。用户可根据自身工厂条件选择合适的方法。高光急冷急热注塑成型工艺技术发展至今近10年之多，早期是日本韩国的3D蒸汽无痕注塑技术在汽车家电行业到广泛的应用。由于蒸汽锅炉在部分地区会受到当地环保和安监部门的限制，为此诚奥公司在2011年对电阻加热注塑成型辅助设备投入研发，成立独立的研发队伍，并在2012年成功推上市使用，电阻加热控制一体的辅助设备技术成为广大用户的选择。

In today's in the field of high-gloss no trace rapid heating and cooling injection molding process, according to the different heating medium can be divided into steam-assisted injection molding, electric auxiliary injection molding, overheated water-assisted injection molding. Users can choose the appropriate method according to their own factory conditions. so far high-gloss no trace rapid heating and cooling injection molding technology has developed nearly 10 years, early Japan South Korea's 3D steam injection molding technology in the automotive appliance industry to a wide range of applications. Since steam boilers will be restricted by local environmental protection and safety supervision departments in some areas, ChengAo Company invested in R & D of resistance-heating injection molding auxiliary equipment in 2011 and set up an independent R & D team and successfully launched the market in 2012, Resistance heating control auxiliary equipment technology has become the choice of the majority of users.



| 瑕疵 flaw | 改善内容 Improve content | 优势 Advantage |
|----------------------------|--|---|
| 外观不良 bad appearance | 表面光泽(汇线消除, 条纹消除) 转抄性(对应厚度的变化)无涂装, 提高强度 Surface gloss (wire eliminate, streak elimination) Transcription (corresponding to the thickness of the change) No coating, improve the strength | 高品位的质感 high quality 成本降低 Reduce costs 循环性 cyclicity |
| 低流动性 Low liquidity | 薄件成形 Thin piece forming 厚件成形 Thick parts forming 高精度成形 High-precision forming | 轻量化 Lightweight formin 成形周期缩短 Shorten the cycle 用途扩大 Use to expand |
| 残留应力高 High residual stress | 弯曲、变型的去除 残留应力的去除 Bending, deformation removal of residual stress removal | 大型化适用于光学产品 Large-scale suitable for optical products |

被产量多的汽车零件和FPD零件的成形所采用 Used by molders for automotive parts and FPD parts

高光无痕急冷急热注塑成型技术与传统成型工艺相比之下，能大大改善产品表面光泽度，解决产品表面溶接痕问题，并对提升产品表面硬度也有一定帮助。

另外，高光无痕急冷急热注塑成型技术也可以应用到添加纤维的工程塑料中，能够有效解决产品表面浮纤的问题。
Compared with the traditional molding process, high-gloss no trace rapid heating and cooling injection molding technology can greatly improve the surface gloss of the product, solve the problem of weld marks on the surface of the product, and help to improve the surface hardness of the product.
In addition, the high-gloss no trace rapid heating and cooling injection molding technology can also be applied to add fiber engineering plastics, fiberglass can effectively solve the problem of fiber floating.

无痕注塑消除产品表面溶接痕 Seamless injection eliminates product surface weld marks

熔接痕的形成是由两段或以上的熔融塑料在射出成型的填充过程中，熔融塑料流的波形前端在模腔中相遇回合，如果模腔表面温度不足或流体遇合压力不足，便会造成合流端无法完成融合，形成产品表面出现熔接痕缺陷；另外，如塑料中含有添加剂(例如：色母)，在溶合位置更会出现较为明显的颜色差异。然而，运用高光无痕急冷急热注塑成型技术，让我们可以在每次开始进行射出成型过程之前，把模腔表面温度快速提升至树脂塑料的热变形温度以上(HDT)，从而大大增加熔融塑料在模腔内的流动性，减低熔融塑料与模腔表面之间的摩擦阻力，显著地改善了传统注塑工艺产品表面的熔接痕问题。除此之外，高光无痕急冷急热注塑成型技术配合特殊工程塑料更可生产出无痕高光泽度的树脂产品，省去产品因表面外观要求，而进行的二次加工(例如：喷漆、UV.....)。

Melt marks formed by the two or more molten plastic injection molding in the filling process, the front end of the molten plastic flow waveform encounter in the cavity round, if the cavity surface temperature is insufficient or the fluid meets the lack of pressure, will be resulting in confluence can not be completed fusion, the formation of weld defects on the surface of the product: In addition, such as plastic additives (eg: masterbatch), in the fusion position will appear more obvious color difference. However, the use of high-gloss no trace rapid heating and cooling injection molding technology allows us to rapidly raise the cavity surface temperature to above the HDT of the resin plastic before each injection molding process, greatly increasing the melting The fluidity of the plastic in the mold cavity, reduces the friction between the molten plastic and the cavity surface, significantly improved the problem of weld marks on the surface of tree traditional injection molding products. In addition, the high-gloss no trace rapid heating and cooling injection molding technology with special engineering plastics can produce no trace of high gloss resin products, eliminating the need for surface appearance of the product, and the secondary processing (for example: painting, UV.....).

高光无痕急冷急热注塑成型技术如何解决表面浮纤问题?

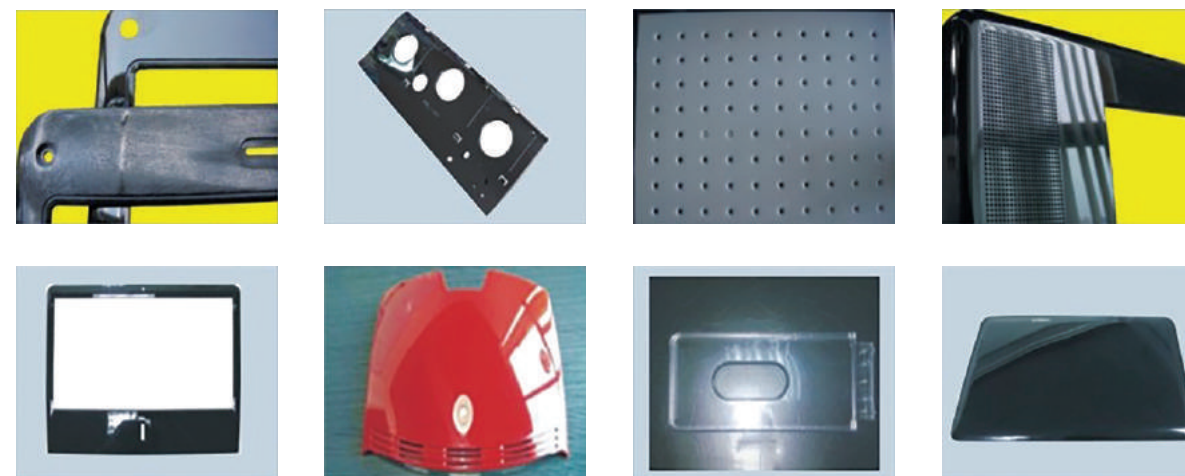
The high-gloss no trace rapid heating and cooling injection molding technology how to solve the surface of floating fiber?

高光无痕急冷急热注塑成型技术另一项优点是，能够显著改善工程塑料产品表面纤维外露的问题。一般在传统注塑成型中，玻纤会随着熔融塑料流向而定向，如果在填充过程中，因模腔表面温度不足会导致熔融塑料突然在模腔固化，玻纤便会出现无法被树脂包裹。另外，玻纤与树脂塑料收缩特性的差异，当成型产品冷却后，玻纤便会更容易外露于产品表面上。

运用高光无痕急冷急热注塑成型技术，我们能借着控制模腔表面加热和冷却的时间变化，改变树脂塑料产品表面的结晶状态，能够有效消除因玻纤外露与产品表面影响外观的问题。日本SONY公司生产的PSP掌上游戏机，外壳也是采用高光无痕急冷急热注塑成型技术去降低塑料外壳表面的浮纤问题。

Melt marks formed by the two or more molten plastic injection molding in the filling process, the front end of the molten plastic flow waveform encounter in the cavity round, if the cavity surface temperature is insufficient or the fluid meets the lack of pressure, will be resulting in confluence can not be completed fusion, the formation of weld defects on the surface of the product: In addition, such as plastic additives (eg: masterbatch), in the fusion position will appear more obvious color difference. However, the use of high-gloss no trace rapid heating and cooling injection molding technology allows us to rapidly raise the cavity surface temperature to above the HDT of the resin plastic before each injection molding process, greatly increasing the melting The fluidity of the plastic in the mold cavity, reduces the friction between the molten plastic and the cavity surface, significantly improved the problem of weld marks on the surface of tree traditional injection molding products. In addition, the high-gloss no trace rapid heating and cooling injection molding technology with special engineering plastics can produce no trace of high gloss resin products, eliminating the need for surface appearance of the product, and the secondary processing (for example: painting, UV.....).

成功案例 Successful case





TCA系列风冷式冰水机
TCA Series Air Chillers

D-1

TCW系列水冷式冰水机
TCW Series Water Chillers

D-4

水冷壳管式冰水机
Water Chillers (Open type)

D-7

TCA系列风冷式冰水机

TCA Series Air Chillers

自动冷却系统
Cooling System



风冷式采用翅片式冷凝器，导热快，散热效果佳，无需提供冷却水。可提供5~35℃，低温型更可低至3℃的冰水（温差不超过±1℃），压缩机功率从3HP~50HP，制冷量能力可达7800~128570 Kcal/hr

Air Chillers adopt fin condensers (without need of cooling water) with the features of rapid heat transmission and excellent heat dispersion. This series can be afforded cooling ranges from 5~35℃, even lower to 3℃ (temperature controlled accuracy at ±1℃). The compressors' power range from 3HP~50HP and cooling capacities range from 7800~128570 Kcal/hr.

风冷壳管式冷水系统 Air Chillers Tube-in-shell Type
风冷盘管式冷水系统 Air Chillers Spiral Type

特点 Features

- ◆采用进口高品质压缩机及进口水泵，安全宁静、省电耐用。

To adopt imported superb compressors and pumps to ensure safe & quiet running, power saving and durable service life.

- ◆采用全电脑温控器，操作简洁，能准确地控制水温在±3℃至±5℃。

To employ microcomputer with easy operation which can control temperature within ±3 to ±5 precisely.

- ◆冷凝器及蒸发器设计独特，换热效果更佳。

Unique design for condenser and heat-dispersion unit result in excellent heat-exchange effect.

- ◆有电流过载保护，高低压控制及电子式时间延迟安全装置，当发生故障时及时发出警报及显示故障原因。

To equip with electrical current overload protection, high & low-pressure switch, electronic timer delay safety device. It will alarm to display faulty while any malfunction occurs.

- ◆内置304不锈钢保温水箱，经久耐用，清洗方便。

To adopt with internal 304 stainless steel insulated water tank with durable service life for easy cleaning & maintenance.

- ◆设有逆相欠相保护和防冰保护。

Complete safety devices including power reverse phase & power short phase and anti-freeze protection.

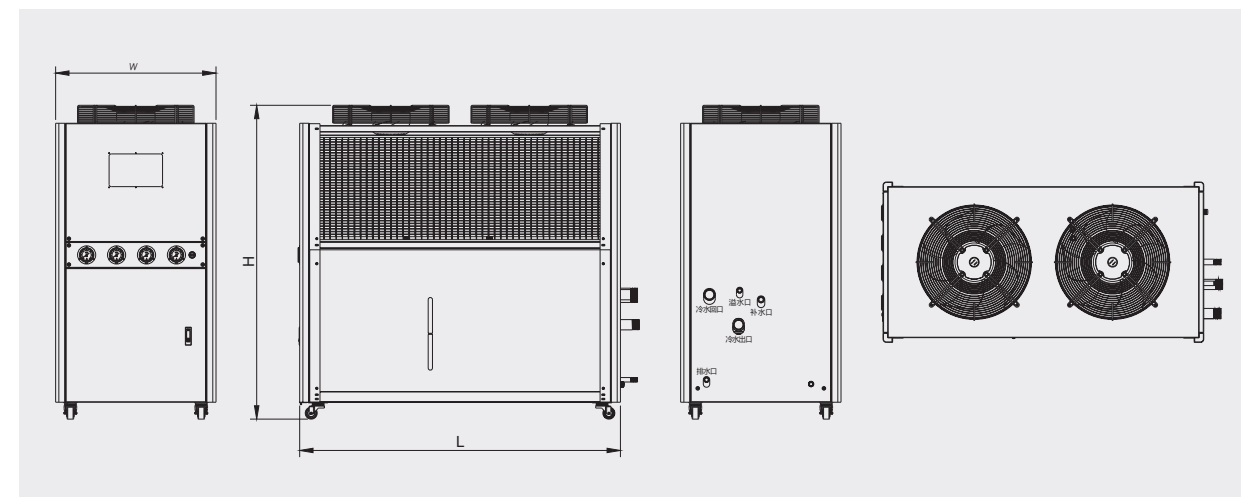
- ◆超低温型冷水机温度可达-15℃以下。

Ultra low temperature type of chillers can reach below -15℃.

- ◆此系列冷水机可订做耐酸碱式。

Chillers for anti-alkaline & anti-acid type can be customized.

产品结构图 Product Structure Diagram



自动冷却系统
Cooling System

风冷壳管式冷水机规格表 Air Chillers Tube-in-shell Type

| 产品型号 Model | TCA-5T | TCA-8T | TCA-10T | TCA-15T | TCA-20T | TCA-30T | TCA-40T | TCA-50T |
|--|------------------------|----------------|----------------|-----------|----------------|------------|-----------|-----------|
| 制冷量 Cooling Capacity(W) | 14600 | 23400 | 29900 | 43800 | 59800 | 89700 | 119600 | 149500 |
| 压缩机数量 Number of Compressors (台 Set) | 1 | 2 | 2 | 3 | 2 | 3 | 4 | 4 |
| 压缩机总功率 Compressor Total Power(HP) | 5 | 8 | 10 | 15 | 20 | 30 | 40 | 50 |
| 使用冷媒 Refrigerant | R22 | R22 | R22 | R22 | R22 | R22 | R22 | R22 |
| 蒸发器类型 Evaporator Type | 壳管式 Tube-in-shell type | | | | | | | |
| 蒸发器进出口口径 Evaporator Inlet/outlet Size | DN25 | DN40 | DN40 | DN50 | DN50 | DN80 | DN80 | DN80 |
| 冷凝器类型 Condenser Type | 翅片式 Tube-fin Type | | | | | | | |
| 散热风机数量 Number of Blower | 2 | 2 | 2 | 2 | 3 | 3 | 4 | 4 |
| 单个风扇功率 Per Fan Capacity (KW) | 0.15 | 0.45 | 0.45 | 0.55 | 0.55 | 0.75 | 0.75 | 1 |
| 冷水进出口数量 Number of Cooling Water Inlet/outlet (组 Group) | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 冷水进出口口径 Cooling Water Inlet/outlet Size | DN25 | DN40 | DN40 | DN50 | DN50 | DN80 | DN80 | DN80 |
| 水泵功率 Pump Power (HP) | 1 | 1 | 1 | 2 | 2 | 5 | 5 | 5 |
| 水泵流量 Pump Flow (L/min) | 48 | 100 | 100 | 200 | 200 | 350 | 350 | 500 |
| 水泵扬程 Pump Lifts (M) | 15 | 16 | 16 | 18 | 18 | 22 | 22 | 30 |
| 系统电源 Power Supply (V) | AC380V/3P/50HZ | | | | | | | |
| 控制电源 Control Voltage (V) | AC220V1P | | | | | | | |
| 机器总功率 Total Power (KW) | 5 | 7.7 | 9.2 | 13.9 | 18.2 | 28.6 | 36.9 | 49.2 |
| 电源线规格 Wires Specifications (mm ²) | 4X4 | | 4X6 | | 4X10 | 4X16 | 4X25 | 4X35 |
| 电源线长度 Wires Length (M) | 6 | | | | | | | |
| 外观尺寸 Dimensions LxWxH(m) | 1.28*0.7*1.1 | 1.68*0.85*1.47 | 1.68*0.85*1.47 | 1.9*1*1.9 | 2.15*0.85*1.97 | 2.15*0.9*2 | 2.6*0.9*2 | 2.6*1.1*2 |
| 机器重量 Weight (Kg) | 200 | 350 | 365 | 550 | 665 | 1100 | 1500 | 2000 |

注：产品规格若有变更，恕不另行通知

We reserve right to change specifications without prior notice.

风冷盘管式冷水机规格表 Air Chillers Spiral Type

| 产品型号 Model | TCA-3 | TCA-4 | TCA-5 | TCA-8 | TCA-10 | TCA-15 | TCA-20 |
|---|----------------------|--------------|--------------|---------------|---------------|--------------|-------------|
| 制冷量 Cooling Capacity(W) | 7560 | 9750 | 12200 | 19500 | 24900 | 36500 | 49900 |
| 压缩机数量 Number of Compressors (台 Set) | 1 | 1 | 1 | 2 | 2 | 3 | 2 |
| 压缩机总功率 Compressor Total Power(HP) | 3 | 4 | 5 | 8 | 10 | 15 | 20 |
| 使用冷媒 Refrigerant | R22 | R22 | R22 | R22 | R22 | R22 | R22 |
| 蒸发器类型 Evaporator Type | 盘管式 Spiral type | | | | | | |
| 冷凝器类型 Condenser Type | 翅片式 Tube-fin Type | | | | | | |
| 散热风机数量 Number of Blower | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| 单个风扇功率 Per Fan Capacity (KW) | 0.15 | 0.15 | 0.15 | 0.45 | 0.45 | 0.8 | 1.1 |
| 冷水进出口数量 Number of Cooling Water Inlet/outlet (组Group) | 4 | 4 | 4 | 1 | 1 | 1 | 1 |
| 冷水进出口径 Cooling Water Inlet/outlet Size | DN25 | DN25 | DN25 | DN40 | DN40 | DN50 | DN50 |
| 水箱容量 Water Tank Capacity (L) | 60 | 60 | 60 | 130 | 130 | 180 | 245 |
| 水泵功率 Pump Power (HP) | 0.5 | 0.5 | 1 | 1 | 1 | 2 | 2 |
| 水泵流量 Pump Flow (L/min) | 48 | 48 | 48 | 100 | 100 | 200 | 200 |
| 水泵扬程 Pump Lifts (M) | 15 | 15 | 15 | 16 | 16 | 18 | 18 |
| 系统电源 Power Supply (V) | AC380V/3P/50HZ | | | | | | |
| 控制电源 Control Voltage (V) | AC220V/1P | | | | | | |
| 机器总功率 Total Power (KW) | 2.9 | 3.7 | 5 | 7.7 | 9.2 | 13.9 | 18.2 |
| 电源线规格 Wires Specifications (mm ²) | 4X2.5 | | 4X4 | | 4X6 | 4X10 | 4X10 |
| 电源线长度 Wires Length (M) | 6 | | | | | 选配 Option | |
| 外观尺寸 Dimensions LxWxH(m) | 1.18*0.6*1.2 | 1.18*0.6*1.2 | 1.18*0.6*1.2 | 1.58*0.75*1.5 | 1.58*0.75*1.5 | 2.2*1.0*1.85 | 2.2*1.1*2.0 |
| 机器重量 Weight (Kg) | 190 | 195 | 200 | 350 | 365 | 980 | 665 |

注：产品规格若有变更，恕不另行通知 We reserve right to change specifications without prior notice.

TCW系列水冷式冰水机 TCW Series Water Chillers



水冷式采用壳管式冷凝器，导热快，散热效果佳。可提供5~35℃，低温型更可低至3℃的冰水(温差不超过±1℃)，压缩机功率从3HP~50HP，制冷量能力可达7800~128570 Kcal/hr。

Water Chillers adopt shell-shape condensers with the features of rapid heat transmission and excellent heat dispersion. This series can be afforded cooling ranges from 5~35℃, even lower to 3℃ (temperature controlled accuracy at ±1℃). The compressors' power range from 3HP~50HP and cooling capacities range from 7800~ 128570 Kcal/hr.

特点 Features

◆采用进口高品质压缩机及进口水泵，安全宁静、省电耐用。

To adopt imported superb compressors and pumps to ensure safe & quiet running, power saving and durable service life.

◆内置304不锈钢保温水箱，经久耐用，清洗方便。

To adopt with internal 304 stainless steel insulated water tank with durable service life for easy cleaning & maintenance.

◆采用全电脑温控器，操作简洁，能准确地控制水温在±3℃至±5℃。

To employ microcomputer with easy operation which can control temperature within ±3 to ±5 precisely.

◆设有逆相欠相保护和防冰保护。

Complete safety devices including power reverse phase & power short phase and anti-freeze protection.

◆冷凝器及蒸发器设计独特，换热效果更佳。

Unique design for condenser and heat-dispersion unit result in excellent heat-exchange effect.

◆超低温型冷水机温度可达-15℃以下。

Ultra low temperature type of chillers can reach below -15℃.

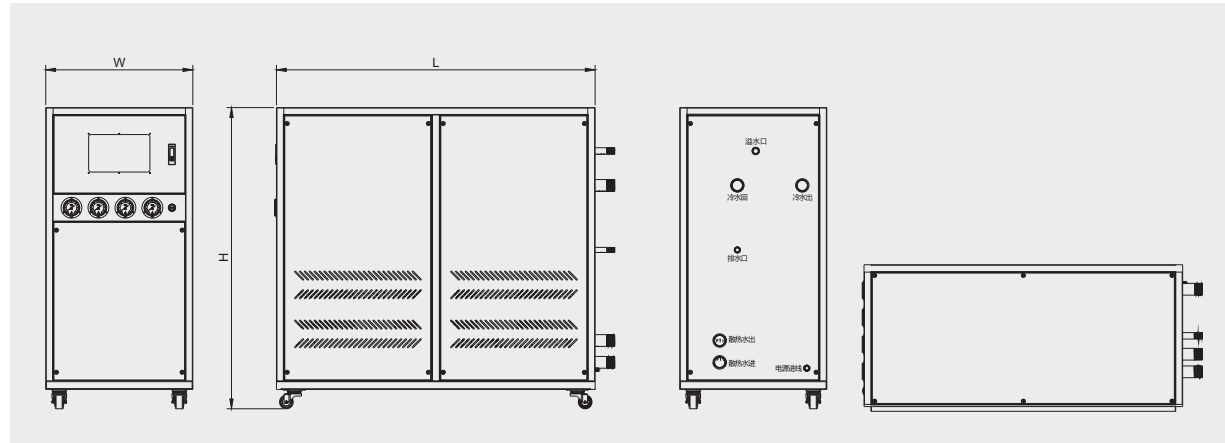
◆有电流过载保护，高低压控制及电子式时间延迟安全装置，当发生故障时及时发出警报及显示故障原因。

To equip with electrical current overload protection, high & low-pressure switch, electronic timer delay safety device. It will alarm to display faulty while any malfunction occurs.

◆此系列冷水机可订做耐酸碱式。

Chillers for anti-alkaline & anti-acid type can be customized.

产品结构图 Product Structure Diagram



水冷壳管式冷水系统规格表 Water Chillers Tube-in-shell Type

| 产品型号 Model | TCW-5T | TCW-8T | TCW-10T | TCW-15T | TCW-20T | TCW-25T | TCW-30T | TCW-40T | TCW-50T |
|---|---------------------------|--------------|--------------|-------------|--------------|-------------|---------------|-------------|-------------|
| 制冷量 Cooling Capacity(W) | 14600 | 23400 | 29900 | 43800 | 59800 | 74750 | 89700 | 119600 | 149500 |
| 压缩机数量 Number of Compressors (台 Set) | 1 | 2 | 2 | 3 | 2 | 2 | 3 | 4 | 4 |
| 压缩机总功率 Compressor Total Power(HP) | 5 | 8 | 10 | 15 | 20 | 25 | 30 | 40 | 50 |
| 使用冷媒 Refrigerant | R22 | | | | | | | | |
| 蒸发器类型 Evaporator Type | 壳管式 Tube-in-shell Type | | | | | | | | |
| 蒸发器进出口口径 Evaporator Inlet/outlet Size | DN40 | DN40 | DN40 | DN50 | DN50 | DN65 | DN80 | DN80 | DN80 |
| 冷凝器类型 Condenser Type | 壳管式 Tube-in-shell Type | | | | | | | | |
| 冷凝器散热水口径 Condenser Hot Wat | DN25 | DN40 | DN40 | DN50 | DN50 | DN65 | DN80 | DN80 | DN80 |
| 冷水进出口数量 Number of Cooling Water Inlet/outlet (组Group) | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 冷水进出口口径 Cooling Water Inlet/outlet Size | DN25 | DN40 | DN40 | DN50 | DN50 | DN65 | DN80 | DN80 | DN80 |
| 水泵功率 Pump Power (HP) | 1 | 1 | 1 | 2 | 2 | 3 | 5 | 5 | 5 |
| 水泵流量 Pump Flow (L/min) | 48 | 100 | 100 | 200 | 200 | 300 | 350 | 350 | 500 |
| 水泵扬程 Pump Lifts (M) | 15 | 16 | 16 | 18 | 18 | 20 | 22 | 22 | 25 |
| 系统电源 Power Supply (V) | AC380V/3P/50HZ | | | | | | | | |
| 控制电源 Control Voltage (V) | AC220V1P | | | | | | | | |
| 机器总功率 Total Power (KW) | 5 | 7 | 8.5 | 13 | 16.5 | 21.1 | 26.3 | 33.8 | 41.3 |
| 电源线规格 Wires Specifications (mm ²) | 4X4 | | | 4X6 | 4X10 | 4X16 | 4X25 | | |
| 电源线长度 Wires Length (M) | 6 | | | | 选配 Option | | | | |
| 外观尺寸 Dimensions LxWxH(m) | 1.05*0.98*0.6 | 1.3*0.6*1.23 | 1.3*0.6*1.23 | 1.7*0.6*1.4 | 1.7*0.65*1.4 | 1.8*0.7*1.5 | 2.2*1.55*0.85 | 2.5*1.2*1.8 | 2.5*1.5*1.8 |
| 机器重量 Weight (Kg) | 150 | 280 | 295 | 490 | 570 | 700 | 800 | 1100 | 1500 |

注：产品规格若有变更，恕不另行通知 We reserve right to change specifications without prior notice.

水冷盘管式冷水机规格表 Water Chillers Spiral Type

| 产品型号 Model | TCW-3 | TCW-4 | TCW-5 | TCW-8 | TCW-10 | TCW-15 | TCW-20 | TCW-25 |
|---|------------------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|
| 制冷量 Cooling Capacity(W) | 9070 | 11700 | 14600 | 23400 | 29900 | 43800 | 59800 | 74750 |
| 压缩机数量 Number of Compressors (台 Set) | 1 | 1 | 1 | 2 | 2 | 3 | 2 | 2 |
| 压缩机总功率 Compressor Total Power(HP) | 3 | 4 | 5 | 8 | 10 | 15 | 20 | 25 |
| 使用冷媒 Refrigerant | R22 | | | | | | | |
| 蒸发器类型 Evaporator Type | 盘管式 Spiral type | | | | | | | |
| 冷凝器类型 Condenser Type | 壳管式 Tube-in-shell Type | | | | | | | |
| 冷凝器散热水口径 Condenser Hot Wat | DN25 | DN25 | DN25 | DN40 | DN40 | DN50 | DN50 | DN80 |
| 冷水进出口数量 Number of Cooling Water Inlet/outlet (组Group) | 4 | 4 | 4 | 1 | 1 | 1 | 1 | 1 |
| 冷水进出口口径 Cooling Water Inlet/outlet Size | DN25 | DN25 | DN25 | DN40 | DN40 | DN50 | DN50 | DN80 |
| 水箱容量 Water Tank Capacity (L) | 40 | 60 | 60 | 120 | 120 | 180 | 245 | 300 |
| 水泵功率 Pump Power (HP) | 0.5 | 0.5 | 1 | 1 | 1 | 2 | 2 | 3 |
| 水泵流量 Pump Flow (L/min) | 48 | 48 | 48 | 100 | 100 | 200 | 200 | 300 |
| 水泵扬程 Pump Lifts (M) | 15 | 15 | 15 | 16 | 16 | 18 | 18 | 22 |
| 系统电源 Power Supply (V) | AC380V/3P/50HZ | | | | | | | |
| 控制电源 Control Voltage (V) | AC220V 1P | | | | | | | |
| 机器总功率 Total Power (KW) | 3 | 3.5 | 4.5 | 7 | 8.5 | 13 | 16.5 | 21.2 |
| 电源线规格 Wires Specifications (mm ²) | 4X25 | | 4X4 | | 4X6 | | 4X10 | |
| 电源线长度 Wires Length (M) | 6 | | | | | | | |
| 外观尺寸 Dimensions LxWxH(m) | 0.705*0.45*0.88 | 0.9*0.5*0.91 | 0.9*0.5*0.91 | 1.3*0.6*1.23 | 1.3*0.6*1.23 | 1.7*0.6*1.4 | 1.7*0.65*1.4 | 1.9*0.8*1.52 |
| 机器重量 Weight (Kg) | 140 | 145 | 150 | 280 | 295 | 490 | 570 | 800 |

注：产品规格若有变更，恕不另行通知 We reserve right to change specifications without prior notice.

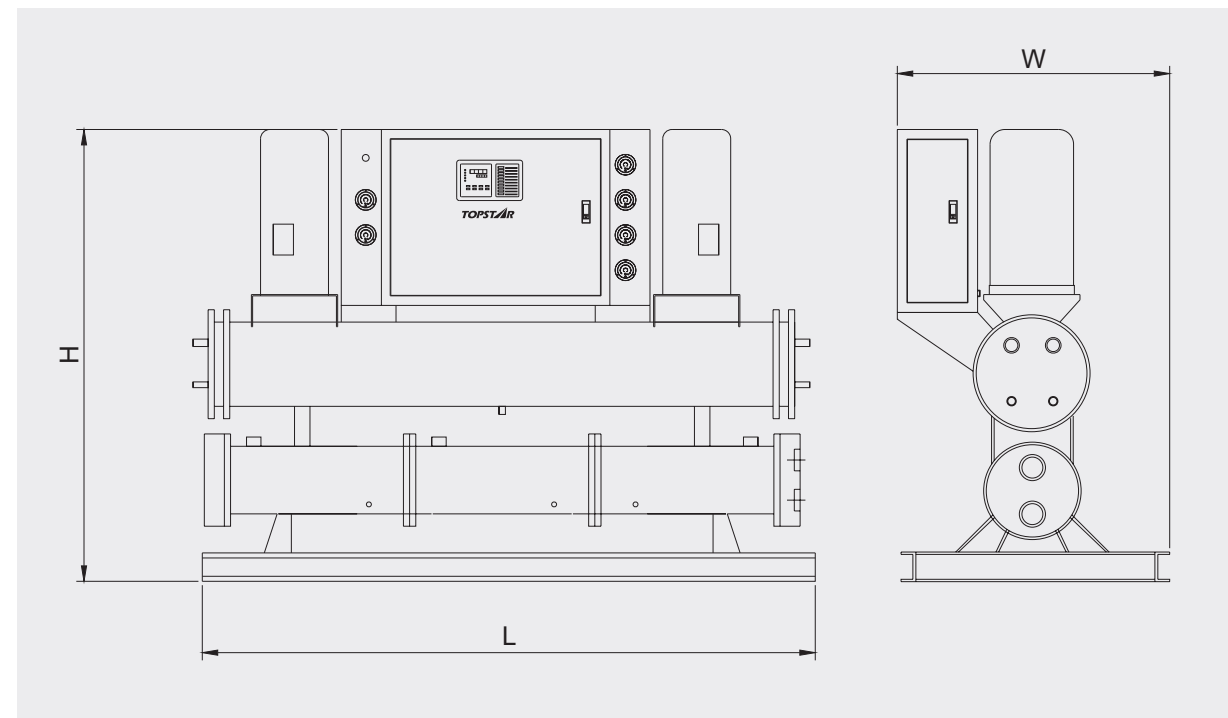
水冷壳管式冰系统 Water Chillers (Open type)

自动冷却系统
Teooling System



自动冷却系统
Teooling System

产品结构图 Product Structure Diagram



水冷壳管式冷水系统规格表 Water Chillers Tube-in-shell Type

| 产品型号 Model | TCW-3TE | TCW-5TE | TCW-8TE | TCW-10TE | TCW-15TE | TCW-20TE | TCW-30TE | TCW-40TE | TCW-50TE |
|---|----------------------------|-------------|--------------|-------------|--------------|-------------|--------------|--------------|--------------|
| 制冷量 Cooling Capacity(W) | 9500 | 15600 | 24800 | 31200 | 48500 | 56400 | 84600 | 132000 | 152000 |
| 压缩机数量 Number of Compressorrs (台 Set) | 1 | 1 | 2 | 2 | 1(2) | 2 | 3 | 4 | 4 |
| 压缩机总功率 Compressor Total Power(HP) | 3 | 5 | 8 | 10 | 15 | 20 | 30 | 40 | 50 |
| 使用冷媒 Refrigerant | R22 | | | | | | | | |
| 蒸发器类型 Evaporator Type | 壳管式 Tube-in-shell Style | | | | | | | | |
| 蒸发器进出口口径 Evaporator Inlet/outlet Size | 1 | | 1 1/2" | | 2" | | 3" | | |
| 冷凝器类型 Condenser Type | 壳管式 Tube-in-shell Style | | | | | | | | |
| 冷凝器散热水口径 Condenser Hot Wat | 1 | | 1 1/2" | | 2" | | 3" | | |
| 冷水进出口数量 Number of Cooling Water Inlet/outlet (组Group) | 1 | | | | | | | | |
| 水箱容量 Water Tank Capacity (L) | 选配Option | | | | | | | | |
| 水泵功率 Pump Power (HP) | 选配Option | | | | | | | | |
| 系统电源 Power Supply (V) | AC380V/3P /50HZ | | | | | | | | |
| 控制电源 Control Voltage (V) | AC220V1P | | | | | | | | |
| 电源线长度 Wires Length (M) | 6M | | | | | | | | |
| 外观尺寸 Dimensions LxWxH(m) | 0.8*0.5*1.1 | 0.8*0.5*1.1 | 1.2*0.6*1.25 | 1.2*0.6*1.3 | 1.55*0.6*1.3 | 1.8*0.6*1.3 | 1.95*0.6*1.3 | 2.4*0.75*1.3 | 2.4*0.75*1.3 |
| 机器重量 Weight (Kg) | 110 | 150 | 220 | 250 | 300 | 450 | 500 | 600 | 760 |

注：产品规格若有变更，恕不另行通知 We reserve right to change specifications without prior notice.

特点 Features

◆采用进口高品质压缩机及进口水泵，安全宁静、省电耐用。

To adopt imported superb compressors and pumps to ensure safe & quiet running , power saving and durable service life.

◆设有逆相欠相保护和防冰保护。

Complete safety devices including power reverse phase & power short phase and anti-freeze protection.

◆采用全电脑温控器，操作简洁，能准确地控制水温在±3℃至±5℃。

To employ microcomputer with easy operation which can control temperature within ±3° C to ±5° C precisely.

◆超低温型冷水机温度可达-15℃以下。

Ultra low temperature type of chillers can reach below -15℃ .

◆冷凝器设计独特，换热效果更佳。

Unique design for condenser and heat- dispersion unit result in excellent heat-exchange effect.

◆此系列冷水机可订做耐酸碱式。

Chillers for anti-alkaline & anti-acid type can be customized.

◆有电流过载保护，高低压控制及电子式时间延迟安全装置，当发生故障时及时发出警报及显示故障原因。

To equip with electrical current overload protection, high & low-pressure switch, electronic timer delay safety device. It will alarm to display faulty while any malfunction occurs.



TSM系列色母机
TSM Series Screw Dosers

E-1

TGB称重式计量机
TGB Series Gravimetric Blenders

E-3

立式混色机TVM系列
TVM Series Vertical Mixers

E-5

卧式混色机THM系列
THM Series Horizontal Mixer

E-6

滚桶式混色机TRM系列
TRM Series Rotary Mixer

E-7

直线振动筛选机TLS系列
TLS Series Linear Vibrating Screeners

E-8

两料比例阀TPV系列
TPV Series Proportional Valves

E-9

混合比例料箱TMT
TMT Mix Tank

E-11

体积式计量机TMA
Volumetric Type Blender TMA

E-13

TSM系列色母机 TSM Series Screw Dosers



适用于新、次料、色母或添加剂等的自动比例混合。依据预先设定的比例混合，透过微电脑控制系统设定的条件自动演算出所需之转速(rpm)，计量精准，其误差值±0.1%。该产品具备两种模式，分别适用于塑胶的注塑成型和挤出成型。螺杆直径分为16、20、25等多种，采用进口直流无刷马达，可演变出多种机型，提供0.1~200kgs/hr的不同输出量供客户选择。另有双色、三色色母机，根据客户需求搭配，满足不同场合、不同领域使用。

Screw Dosers are extensively used for precise auto-proportional dosing & blending of virgin, regrind materials, masterbatch and other various additives. The microprocessor accurately controls rate of revolution of a motor for high precise metering with an accuracy of ±0.1% from set points. This series can be used on the differential applications with injection molding machines and extruders. A brushless DC motor is used for this series. The dosing screws are offered with various size: 16, 20 and 25 for developing diverse models with throughputs from 0.1~200kgs/hr. TOPSTAR developed double-color & triple-color screw dosers according to customers' various demands which can be satisfied with diverse applications.

特点 Features

- ◆ 数位显示的微电脑控制器，可精确地计量色母及次料的添加比例。

Digital microprocessor can process masterbatch & regrind material by metering accurate percentage.

- ◆ 采用直流无刷式马达，无需保养、寿命长、免维护。

Using brushless DC motor features free from maintenance and long service life.

- ◆ 模组化可拆卸式设计，可快速更换螺杆及套筒。

Module dismantled design, easy for change screw and sleeve.

- ◆ 计量站可以从落料座拆除而不会漏料，在转接座侧边可视窗装置，容易观察原料。

The dosing unit is removed from discharging seat without material leakage, monitoring material level from the sight - see - through window on the side of transferred seat.

- ◆ 具有50组配方存取功能，可快速调用启动机器。

50 sets of parameter recipes are available for permanently recording and reading function, operating machines quickly without adjusting parameters again.

- ◆ 入料底座采主要原料与色母分流设计，短时间内可迅速转换色母及主要原料，符合经济效益。

Feeding base adopt different channels for material & masterbatch separately, easy change material & masterbatch within short time.

- ◆ 配合射出成型机使用时，色母自动计量机可设定计量时间的控制设计，可免除射出机因每模储料时间长短不一，而造成色母添加量不稳定之困扰。

Screw dosers can set metering time to avoid annoyance for unstable materbatch volume while working with injection molding machine because of different time for every cycle of metering.

- ◆ 有强制清料功能，方便更换色母。

Forced material cleaning function is convenient to change masterbatch.

- ◆ 可选配物料位检测传感器，缺料报警提示。

Material level detection sensor is available as option, alarm for material shortage.

- ◆ 可于挤出机主螺杆同步加、减速运行。

It can operate with main screw of extruders, acceleration and deceleration simultaneously.

规格表 Specification Sheet

| 机型 Model | 单色色母机 Single Color Dosers | | | | | | 双色色母机 Double Color Dosers | | |
|---------------------------|---------------------------|----------|----------|----------|----------|----------|---------------------------|--------------|--------------|
| | TSM3025 | TSM-3020 | TSM-3016 | TSM-5025 | TSM-5020 | TSM-5016 | TSM30xx-30xx | TSM30xx-50xx | TSM50xx-50xx |
| 马达功率 Motor Power(W) | 50 | 50 | 50 | 50 | 50 | 50 | 50 × 2 | 50 × 2 | 50 × 2 |
| 马达转速 Motor Speed(rpm) | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
| 搅拌功率 Dosing Capacity(W) | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 螺杆直径 Screw Dia. | 25 | 20 | 16 | 25 | 20 | 16 | xx | xx | xx |
| 输出量 Output Capacity(kg/h) | 1.1-38 | 0.6-20 | 0.3-10 | 0.5-17 | 0.2-8 | 0.1-4 | x | x | x |
| 储料斗 Tank(L) | 10 | 10 | 10 | 10 | 10 | 10 | 10 × 2 | 10 × 2 | 10 × 2 |
| 减速比 Gear Ratio | 30 | 30 | 30 | 50 | 50 | 50 | 30/30 | 30/50 | 50/50 |
| 外形尺寸 Dimensions | H(m) | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.615 | 0.615 | 0.615 |
| | W(m) | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 1.045 | 1.045 | 1.045 |
| | D(m) | 0.335 | 0.335 | 0.335 | 0.335 | 0.335 | 0.335 | 0.335 | 0.335 |
| | 重量 Weight(kg) | 15 | 15 | 15 | 15 | 15 | 15 | 33 | 33 |

- ◆ 以上输出量是以比重为1.2、直径为2-3mm的塑料粒子以连续运转的方式测得的数据，仅供参考。
- ◆ XX表示螺杆直径可按客户要求定做。
- ◆ X表示输出量由客户选择的型号而定，单色机的输出量数据仅供参考。

- ◆ All the output capacity from above models is base on the data from density 1.2, Dia. 2-3mm master batch in test criteria of continuous running.
- ◆ XX stands for the external dia. of the screw is up to clients model choice.
- ◆ X means output capacity is depended on model that client select, data of single color doser can be a reference.

注：产品规格若有变更，恕不另行通知 We reserve right to change specifications without prior notice.

TGB称重式计量机

TGB Series Gravimetric Blenders



主要用于处理从2种到6种原料的定量称重计量和搅拌，包括新料、次料、色母和多种添加剂等进行称重计量和均匀搅拌混合。计量能力从5kgs/hr到1000kgs/hr。该系列产品采用高精度重量感测器使批次的混合配比误差(视设定配比比例大小而定)能控制在±0.5%。型号齐全，可满足多种精度等级的混合要求。

Gravimetric Blenders are extensively configured to handle two of up to six different components by dosing & blending in total throughput from 5kgs/hr to 1000kgs/hr; generally including virgin, regrind materials, masterbatch and other various additives. The series adapts precision load cells to make batch blend resulting in a highly accuracy within ±0.5%. (accurate tolerances are varied according to batch to batch blend ratio). Full wide range of this series can satisfy versatile requirements on high precision blending.

特点 Features

◆可设定原料之间的比例或百分比，操作简单方便。

The next batch is weighted simultaneously while blending.

◆精确稳定的连续运转。

The controller features with automatic feedback function which can compensate the differences from the presetting values automatically during the dosing cycle.

◆在混合原料的同时，对下一批次原料进行称重计量。

In the mixed raw material at the same time, for the next batch raw material weighing measurement.

◆自动调校补偿功能，在配料过程中，控制器能自动修正与预设值偏差。

Automatic calibration compensation function; In the process of ingredients, the controller can automatically modified with The preset value deviation.

◆可安装在机器上或机器旁边。

Can be installed beside the machines or machine.

◆可同时控制多台称重式计量机（标准型）。

Can be controlled at the same time more weighing type metering machine (standard).

◆最多可同时处理六种原料。

Up to deal with six kinds of raw materials at the same time.

◆可配合吸料机自动补料。

Can cooperate with suction machine automatic filling material.

◆称重/体积生产模式增大配料能力。

Weighing/bulk increases production mode ingredients.

◆所有与原料接触的部分都由不锈钢材料制成，防止原料被污染。

All parts in contact with the raw material made of stainless steel materials, to prevent contaminated materials.

◆模块化可拆卸式设计，节省空间与清洁方便。

Structure design of modularization and demountable, save space and convenient cleaning.

◆称重精度±0.3%。

Gravimetric accuracy can reach ±0.3%.

◆分级安全密码控制和报警历史记录功能。

Hierarchical security password control and alarm function of history.

◆配备声、光报警器，便于提醒维修人员，快速到达机器现场排除故障。

Equipped with sound and light alarm, to remind maintenance personnel, quickly reach the machine on-site troubleshooting.

| 型号 Model | TGB-H | TGB-1 | TGB-2 | TGB-5 | TGB-10 | TGB-25 |
|--------------------------------------|-------|--------|---------|---------|-----------|-----------|
| 原料种类 Kinds of Material | 2-4 | 2-4 | 2-6 | 2-6 | 2-7 | 2-10 |
| 最大输出量 Max. Output Capacity(KG/HR) | 35-45 | 90-130 | 195-420 | 355-945 | 1200-1600 | 1500-2500 |

注：产品规格若有变更，恕不另行通知 We reserve right to change specifications without prior notice.

立式混色机TVM系列 TVM Series Vertical Mixers



多片立式桨叶，产生涡流全方位混合，混合力强，短时间内完成均匀混料，低耗能，高效率。采用进口垂直减速马达，低噪音及持久耐用。占地面积少，脚轮装置移动方便。

Vertical Color Mixers are equipped with vertical paddles form vortex to mix material fast and homogenous within short time, low power consumption, high efficiency. Vertical structure with castor wheels for easy moving, small footprint. To adapt imported vertical type of speed reduce motor features with low noise and durable in use.

立式混色机 Vertical Mixers
大型立式搅拌机 Large Vertical Mixers

特点 Features

◆料桶采用进口不锈钢材料,焊接牢固耐用,表面光滑,清洗方便。

Material Pail is made of stainless steel, well soldered result in durable service life, smooth surface is easy for cleaning.

◆混合力强，短时间内完成均匀混料,低耗能，高效率。

The mixing capacity is excellent which can finish mixing within short time with high efficiency, low consumption.

◆占地面积少，脚轮装置移动方便。

Small footprint, castors device easy for movement.

◆台湾垂直减速马达，确保噪音低及持久耐用。

The Mixers employ vertical gear motor to ensure low noise and durable service life.

◆机盖附有保护开关，操作绝对安全。

Pail lid is equipped with safeguard switch for ensuring safety absolutely.

◆全密封设计，工作时无粉尘污染。

Fully hermetic design ensures no dust contamination.

◆定时器可以选择混料时间从0~30分。

Mixing time can be set from 0~30 minutes.

◆桶盖、桶底称冲压成型，配合精确，更耐用。

Pail lid and bottom are pressed with precise matching, more durable.

规格表 Specification Sheet

| 型号 Model | TVM-25 | TVM-50 | TVM-100 | TVM-150 | TVM-200 | TVM-300 |
|-------------------------|----------------|----------------|----------|----------------|--------------|-------------|
| 混合量 Mixing Capacity(KG) | 25 | 50 | 100 | 150 | 200 | 300 |
| 电机功率 Motor Power(KW) | 0.75 | 1.5 | 3 | 4 | 5 | 7.5 |
| 电压 Voltage(V) | 380 | 380 | 380 | 380 | 380 | 380 |
| 外形尺寸 Dimensions(m) | 0.72*0.72*0.92 | 0.83*0.82*1.12 | 1*1*1.28 | 1.13*1.13*1.38 | 1.2*1.2*1.45 | 1.3*1.3*1.6 |
| 重量(KG) | 80 | 125 | 170 | 250 | 450 | 550 |

注：产品规格若有变更，恕不另行通知 We reserve right to change specifications without prior notice.

卧式混色机THM系列 THM Series Horizontal Mixer



卧式桨叶，叶片采用加厚不锈钢制作，与桶壁距离精密计算，拌料迅速、均匀。配用摆线针轮减速电机，噪音低，持久耐用。料桶可倾斜100°，方便卸料。

Horizontal paddles are made of added-thickness stainless steel, the distances to barrel wall are precisely calculated reasonable to make fast & homogenous mixing. All these models are equipped with speed reducer motors which feature with low noisy and durable service life. Barrel can be inclined to 100° for easy unloading.

卧式混色机 Horizontal Mixers
大型卧式搅拌机 Large Horizontal Mixers
加热型卧式搅拌机 Heating Horizontal Mixers

特点 Features

◆料桶及桨叶采用不锈钢材料制造，清洗容易，避免锈蚀。

Material Pail and paddles are made of stainless steel which are anti-rust and easy for cleaning.

◆连锁安全保护装置，确保操作者及机器设备的安全。

Safety interlock device ensures safety for operators and machine.

◆料桶可倾斜100度，方便卸料。

Material pail can be tilted 100 degrees, easy and convenient discharging

◆全密封设计，工作时无粉尘污染。

Fully hermetic design ensures no dust contamination.

◆定时器可以选择混料时间从0~30分。

Mixing time can be set from 0~30 minutes.

规格表 Specification Sheet

| 型号 Model | THM-100 | THM-150 | THM-200 |
|-------------------------|---------------|---------------|----------------|
| 混合量 Mixing Capacity(kg) | 100 | 150 | 200 |
| 电机功率 Motor Power(kw) | 2.2 | 2.2 | 4 |
| 电压 Voltage | 380 | 380 | 380 |
| 外形尺寸 Dimensions(mm) | 1240*800*1250 | 1440*900*1330 | 1580*1000*1380 |
| 重量 Weight(KG) | 280 | 330 | 450 |

注：产品规格若有变更，恕不另行通知 We reserve right to change specifications without prior notice.

滚桶式混色机TRM系列 TRM Series Rotary Mixer

计量混合系统
Dosing & Mixing System



方位360° 旋转混合原料，短时间内完成均匀混料。进料、卸料，可以任意定位，操作方便。

Rotatable angle up to 360°, for easy operation with loading & unloading materials at arbitrary direction and the material in the barrel can be round stirred like swirl to be mixed equably within short time.

特点 Features

- ◆料桶采用进口不锈钢材料,焊接牢固耐用,表面光滑,清洗方便。

Material Pail is made of stainless steel, well soldered result in durable service life, smooth surface is easy for cleaning.

- ◆搅拌桶360度全方位旋转,混合均匀。入料、出料任意定位,操作方便且安全。

The material Pail can rotate 360 degree in all direction to ensure even mixing. Loading & unloading material are easy and safe since pail can locate at any degree.

- ◆桶内无搅拌桨设计,混合色粉清洗更方便。

Inside barrel without paddles design is convenient to clean especially for color concentrate mixing.

- ◆定时器可以选择混料时间从0~30分。

Mixing time can be set from 0~30 minutes.

- ◆采用网孔保护罩,结构合理、美观实用,确保操作安全。

To adopt screen mesh protector, optimal structure, elegant appearance, safe operation.

- ◆全密封设计,工作时无粉尘污染。

Fully hermetic design ensures no dust contamination.

- ◆定时器可以选择混料时间从0~30分。

Mixing time can be set from 0~30 minutes.

规格表 Specification Sheet

| 型号 Model | 混合量 Mixing Capacity(KG) | 电机功率 Motor Power (KW) | 电压 Voltage(V) | 外型尺寸 Dimensions(m) | 重量(KG) |
|-------------|----------------------------|--------------------------|------------------|-----------------------|--------|
| TRM-50 | 50 | 0.75 | 380 | 0.9*0.89*1.4 | 120 |
| TRM-100 | 100 | 1.5 | 380 | 1.02*1.1*1.5 | 147 |

注: 产品规格若有变更, 恕不另行通知 We reserve right to change specifications without prior notice.

直线振动筛选机TLS系列 TLS Series Linear Vibrating Screeners

计量混合系统
Dosing & Mixing System



属于直线振动筛, 筛选分级精度高、处理量大、效率高、耗能低、噪音小、筛网使用寿命长、结构简单易维修、全密封设计, 工作时无粉尘溢散污染的特点。将物料按照筛网的孔径范围分为2种或3种粗细等级, 最高筛分目数325目, 可根据客户之要求, 筛分出多种不同粒度的物料, 进而达到理想的筛分效果。

these features, sieve grade with high accuracy, large throughput, high screen efficiency, lower power consumption, lower noise, long service life, easy maintenance, fully hermetic structure, no dust flying. It can be divided 2 or 3 sieve grades in accordance with the size of screen mesh, the highest screen mesh with 325. The different materials can be screened and graded the powders or granules with a high level accuracy according to the widest range of customers' requirements.

特点 Features

- ◆适用于物料颗粒与粉末的分级及自动筛选。

All models are applicable for granules and powder screen automatically.

- ◆筛网床面采用倾斜式, 所采用之倾斜角度取出料和筛料的最佳效果。

The screener bed with tilted design results in best & optimal effect for screened material and take-out material.

- ◆换网快捷、清洗方便。

Change screen mesh easy and convenient cleaning.

- ◆上装储料斗, 用于独立使用。

Material hopper is equipped for independent use.

- ◆筛网孔径标准配置有φ6、φ8, 其他规格皆可根据客户要求订做。

The size of screen mesh φ6 φ8 are standard.

- ◆与原料接触部分为不锈钢材质, 确保原料的精纯度不受污染。

Fully stainless steel structure ensures material free from contamination.

- ◆全密封设计, 工作时无粉尘污染。

Fully hermetic design ensures no dust contamination.

- ◆机台重量轻, 底座配有活动轮, 移动方便。

Light weight and bottom is equipped with casters for convenient move.

- ◆各部件及规格均可按要求订做。

Parts and special spec can be customized according to requirements.

规格表 Specification Sheet

| | |
|---------------------------|--------------|
| 产品型号 Model | TLS-1302 |
| 马达功率 Motor Power(kW) | 1/4 |
| 筛网尺寸 Screening Size | 1300*415 |
| 筛网层数 Screen layer | 2 |
| 总体尺寸 Dimensions(L*W*H)(m) | 1.65*0.7*1.6 |

注: 产品规格若有变更, 恕不另行通知 We reserve right to change specifications without prior notice.

两料比例阀TPV系列 TPV Series Proportional Valves



主要用于新料，次料按所需比例互相混合，并由微电脑控制两料比例，以计时器之比例差作交换吸引，将次料依比例混入新料中，确保原料输送过程畅顺及避免原料在输送过程中再次污染，本装置可减少人工成本并且减少资源浪费，从而降低成本。

Proportional Valves are mainly used for mixing virgin & regrind materials in a proper proportion which controlled by microcontroller & differential proportion of timer to ensure loading smoothly and eliminate the possibility of cross contamination during conveying. This device can reduce labor cost and raw material cost.

特点 Features

◆外形美观，安装方便，操作简单。

Exquisite appearance, easy installation and operation.

◆电磁阀性能稳定，气缸动作准确，确保准确的混料比例。

The performance of solenoid valve is so stable to make air cylinder acting accurately in order to ensure the proportional mixing of virgin and regrind materials.

◆特有的阀体设计，使物料的输送更加畅通。

Valve body with unique design make material conveying more smoothly.

◆搭配吸料机使用时，无需订购独立控制。

No need control box when working with hopper loaders.

◆和粉碎机立即回收使用时可减少成本支出。

It can reduce the production cost when working with instant recycling the regrind material from granulators.

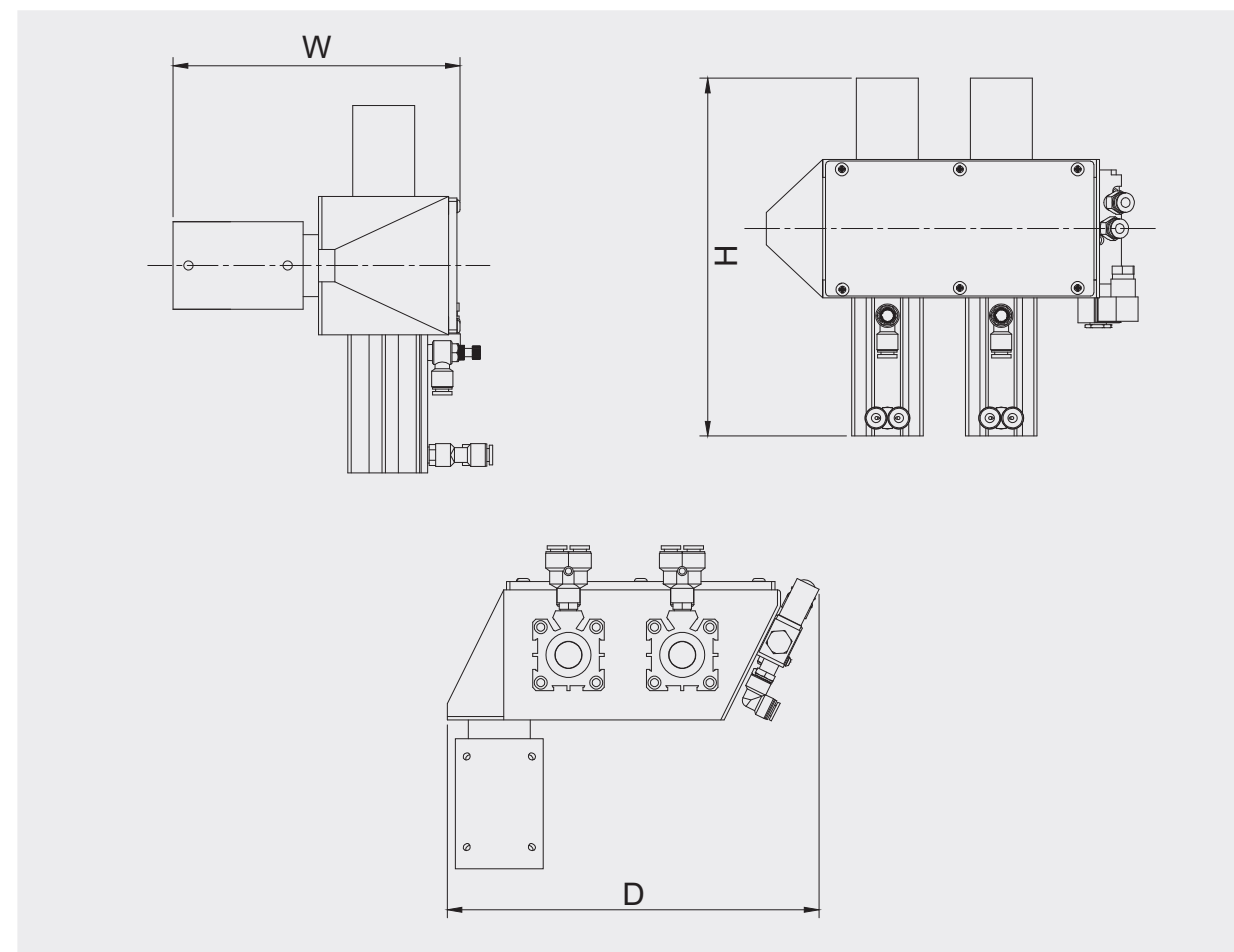
◆新旧料比例，可以任意按所需比例调整。

Virgin and regrind material can be adjusted according to requirements.

◆在其他使用场合时，可提供控制箱搭配使用。

Control box is available as option when working with other situations.

产品结构图 Product Structure Diagram

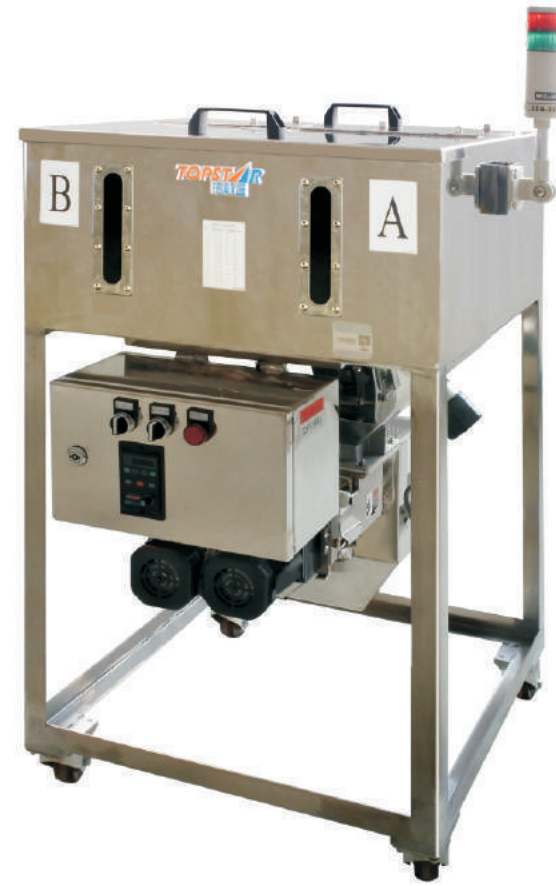


规格表 Specification Sheet

| 产品型号 Model | | TPV-40V | TPV-50V |
|-------------------------------|---------------------|--------------------|--------------|
| 驱动力 Driven Force | Kgf/cm ² | 3-6 | 3-6 |
| 驱动方式 Driven Means | | 气缸 Cylinders | 气缸 Cylinders |
| 控制电压 Control Voltage | V | AC220V/DC24V | |
| 工作电压 Working Voltage | V | 24V | |
| 最大输送量 Max. Conveying Capacity | Kg/h | 330 | 500 |
| 配管口径 Pipe Size | MM | 38.1 | 50.8 |
| 总功率 Total Power | W | 30 | |
| 外观尺寸 Dimensions | H(M) | 0.22 | 0.22 |
| | W(M) | 0.133 | 0.133 |
| | D(M) | 0.205 | 0.205 |
| 机器重量 Weight | KG | 2 | 2.2 |
| 搭配机型 Option Machine | | 料斗 Hopper Receiver | |

注：产品规格若有变更，恕不另行通知
We reserve right to change specifications without prior notice.

混合比例料箱TMT TMT Mix Tank



特点 Features

- ◆两种物料的存贮，同时设有计量配比功能（大部分用于新料与粉碎料的场合）

Storage of two materials, also has volumetric dosing function(use most occasion for virgin and regrind)

- ◆计量螺杆SUS304材质，新料定速，粉碎材调速。

SUS304 screw, fixed speed for virgin, adjustable speed for regrind.

- ◆粉碎料对新料配比范围：5%~70%。

Regrind ratio range to virgin: 5%~70%.

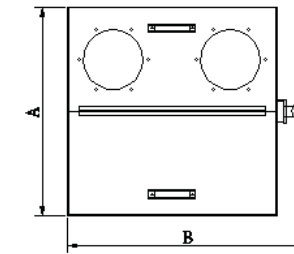
- ◆配比精度±2%。

Ratio precision ±2%.

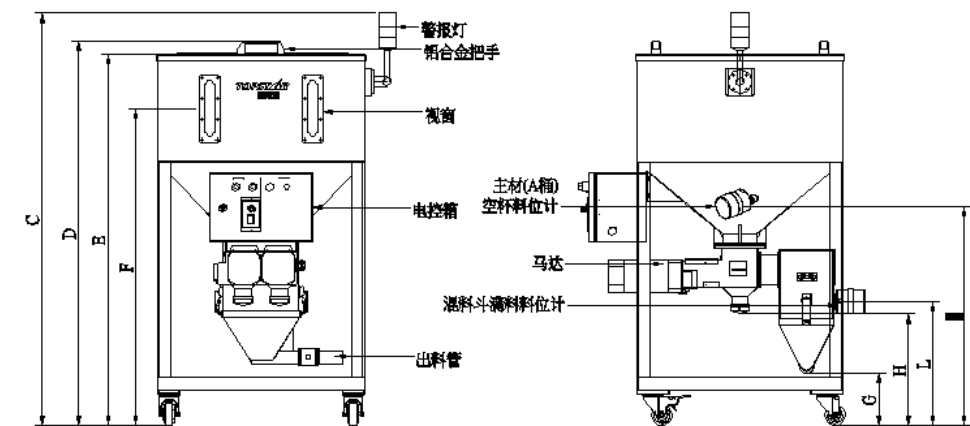
- ◆操作简单,直接调整粉碎材的数显转速表。

Easy operation, digital speed-meter for adjusting regrind directly.

产品结构图 Product Structure Diagram



| | TMT-50X50 | TMT-100X100 | TMT-120X30 | TMT-150X150 | TMT-250X250 |
|---|-----------|-------------|------------|-------------|-------------|
| A | 695 | 952 | 948 | 1100 | 1292 |
| B | 607 | 862 | 857 | 1008 | 1202 |
| C | 1200 | 1434 | 1172 | 1408 | 1560 |
| D | 1080 | 1324 | 1132 | 1368 | 1491 |

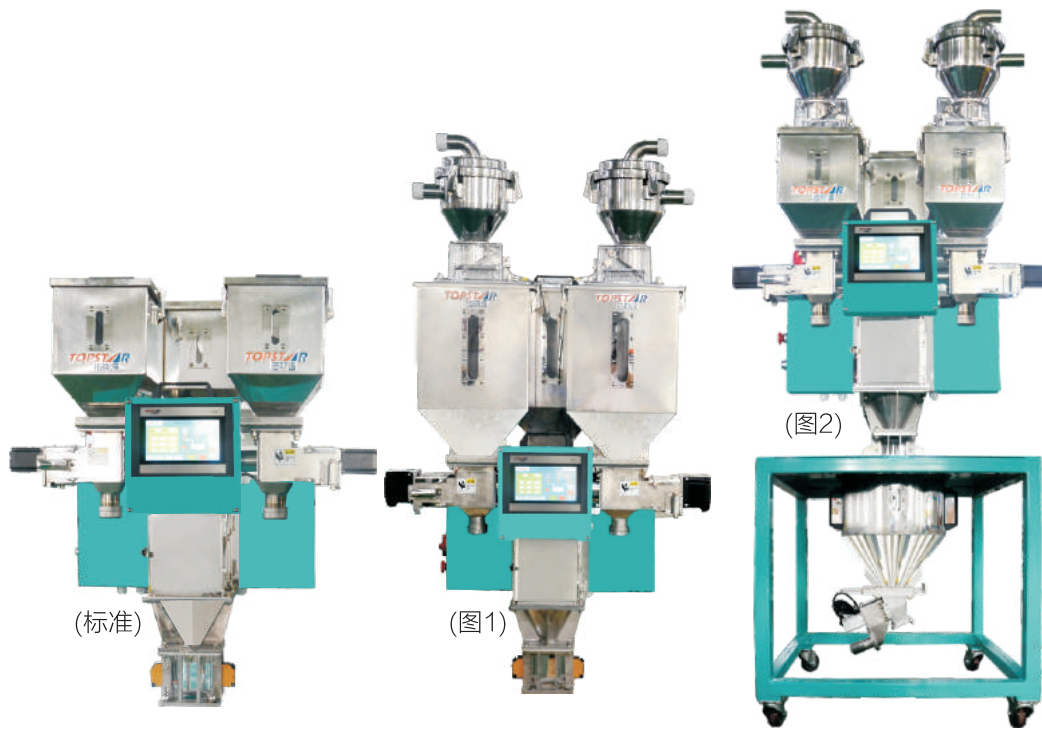


规格表 Specification Sheet

| 项目 item | 型号 model | TMT-50X50 | TMT-100X100 | TMT-120X30 | TMT-150X150 | TMT-250X250 |
|--|-----------------------------------|---|--------------|--------------|----------------|----------------|
| 新料贮存容量 (kg) Capacity of material(kg) | | 50 | 100 | 120 | 150 | 250 |
| 粉碎料贮存容量 (kg) capacity of regrind(kg) | | 50 | 100 | 30 | 150 | 250 |
| 新料计量能力 (连续运转时) Delivery capacity of material(continuous) | | 290 | | | | |
| 粉碎料计量能力 (连续运转时) Delivery capacity of regrind(continuous) | | 14.5~290 | | | | |
| 配比精度 commercial mix precision | | ±2% | | | | |
| 电源 power | 主回路电压 main current power | AC200V/220V 50Hz 1P 2W+E(标准电压) (standard voltage) | | | | |
| | 控制回路电压 control current voltage | AC200V/220V 50Hz 1P 2W+E | | | | |
| | 总电气容量(kW) Total electric capacity | 0.15 | | | | |
| 电源线 power line | | | | | | |
| 重量 weight(kg) | | 50 | 50 | 50 | 50 | 50 |
| 外形尺寸(mm) (长×宽×高) dimensions(mm) (L×W×H) | | 695×607×1200 | 952×862×1434 | 948×857×1172 | 1100×1008×1408 | 1292×1202×1560 |

注：产品规格若有变更，恕不另行通知 We reserve right to change specifications without prior notice.

体积式计量机TMA Volumetric Type Blender TMA



特点 Features

◆多种物料同步失重体积计量。

A variety of materials volumetric dose simultaneously.

◆特制混合料管，无需搅拌装置。

Special material tube, don't need mixing device.

◆计量测试简洁，10min内可完成。

Dose test simply, less than 10min to complete test.

◆步进电机精确控制精度，配比精度±1%以内。

Step-motor precisely control speed, the commercial mix precision ±1%.

◆换料清扫方便，无专用工具10min可清扫完成。

Easily clean, less than 10min to clean without special tools.

◆触摸屏操作，多种配方存储。

Operate with Touch screen, can save a variety of recipe.

◆使用数据化报警履历记录。

Using digital alarm history records.

◆配上吸料机及料杯可实现自动投料(图1)

Automatic feeding can be realized with auto-loader and suction hopper(picture 1).

◆配上吸料机、料杯、架台可以实现放置在地面(图2)

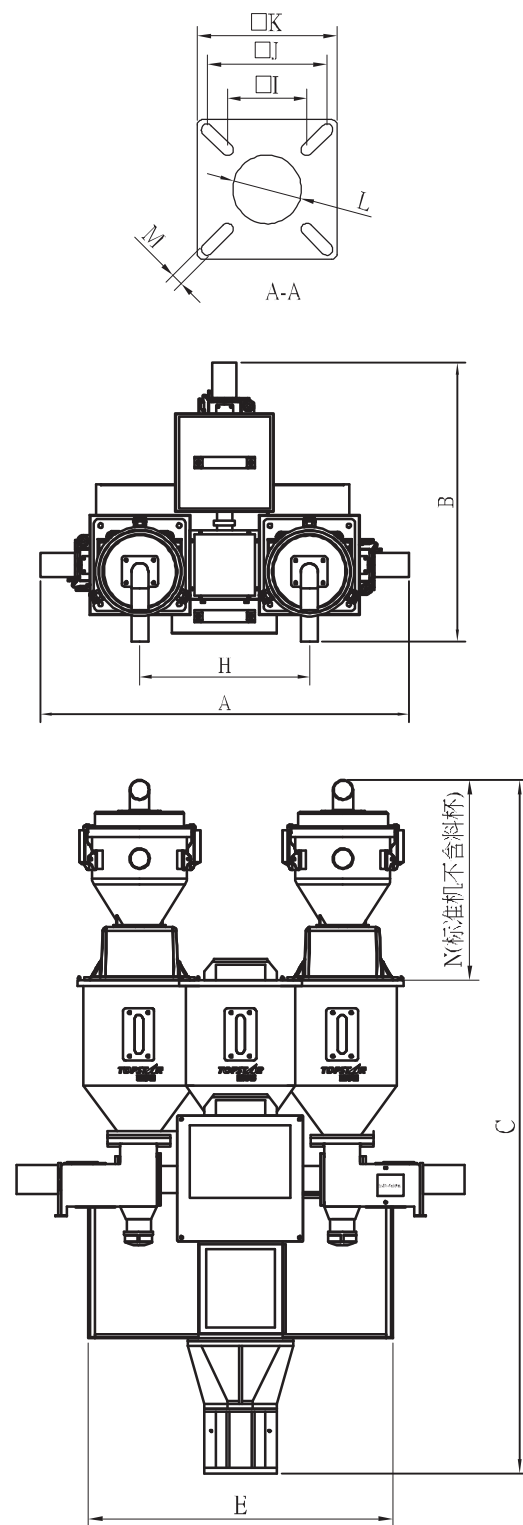
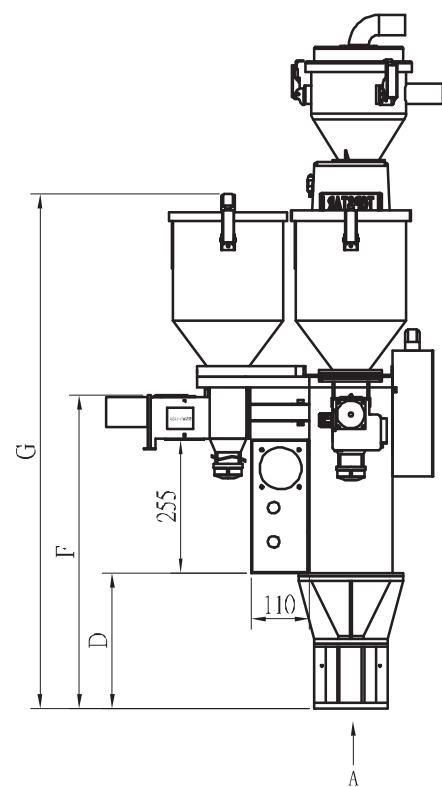
It can be placed on the floor with auto-loader, suction hopper and frame(picture 2).

规格表 Specification Sheet

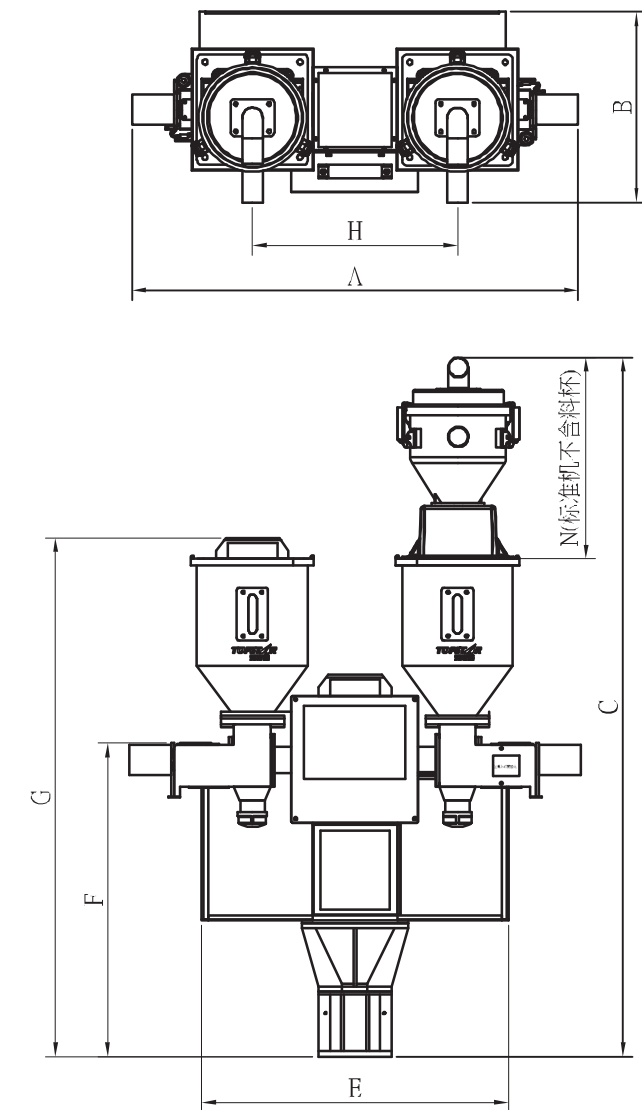
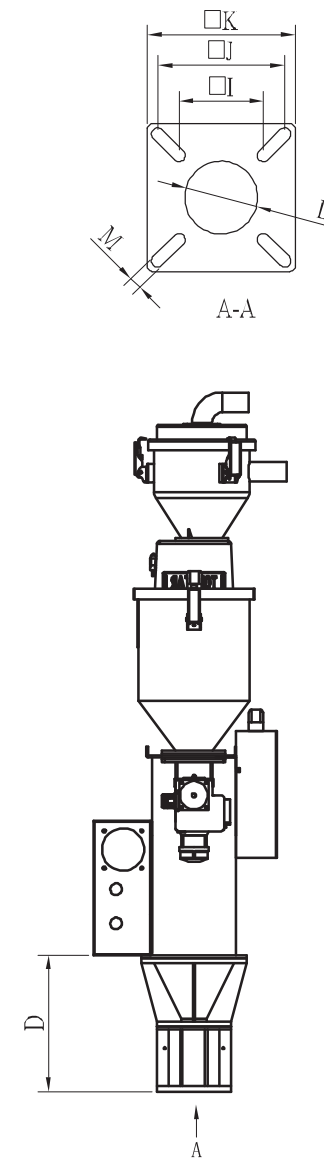
| 项目 item | 型号 model | TMA-102 | TMA-103 | TMA-202 | TMA-203 |
|---------------------------------------|-----------------------------------|---|-------------|--------------|--------------|
| 物料种类 Material number | | 2 | 3 | 2 | 3 |
| 最大处理能力 kg/hr | | 130 | | 400 | |
| 料料贮存容量 (Lr) Capacity of material(Lr) | | 10*2 | 10*3 | 20*2 | 20*3 |
| 配比精度 commercial mix precision | | ±1% | | | |
| 电源 power | 主回路电压 main current power | AC200V/220V 50Hz 1P 2W+E(标准电压) (standard voltage) | | | |
| | 控制回路电压 control current voltage | AC200V/220V 50Hz 1P 2W+E | | | |
| | 总电气容量(kW) Total electric capacity | 0.2 | | 0.5 | |
| 电源线 power line | | 5m | | | |
| 重量 weight(kg) | | 35 | 50 | 60 | 80 |
| 外形尺寸(mm)(长×宽×高) dimensions(mm)(L×W×H) | | 845×330×945 | 845×330×945 | 885×367×1570 | 885×650×1570 |

TAM-103/ TMA-203外形图

| | TMA-102 | TMA-103 | TMA-202 | TMA-203 |
|---|---------|---------|---------|---------|
| A | 845 | 845 | 885 | 885 |
| B | 360 | 640 | 367 | 650 |
| C | 1325 | 1325 | 1570 | 1570 |
| D | 258 | 258 | 258 | 258 |
| E | 580 | 580 | 580 | 580 |
| F | 600 | 600 | 595 | 595 |
| G | 980 | 980 | 1146 | 1146 |
| H | 400 | 400 | 400 | 400 |
| I | 80 | 80 | 80 | 80 |
| J | 120 | 120 | 120 | 120 |
| K | 140 | 140 | 140 | 140 |
| L | 69 | 69 | 69 | 69 |
| M | 12 | 12 | 12 | 12 |
| N | 382 | 382 | 382 | 382 |



TAM-102/ TAM-202外形图





慢速粉碎机TGLA
Low Speed Granulator TGLA

F-1

慢速静音粉碎机TGL系列
TGL Series Low Speed
Sound-Proof Granulators

F-3

中速粉碎机TGM系列
TGM Series Middle Speed Granulators

F-5

强力型粉碎机TGP系列
TGP Series Powerful Granulators

F-7

强力静音粉碎机TGP系列
TGP Series Powerful
Sound-Proof Granulators

F-9

慢速粉碎机TGLA Low Speed Granulator TGLA

粉碎回收系统
Granulating & Recycling System



粉碎回收系统
Granulating & Recycling System

规格表 Specification Sheet

| 项目 Item | 型号 Model | TGLA-2325 | TGLA-3325 |
|--|--------------------------------------|---------------|---------------|
| 投料口尺寸 Inlet size(mm) | | 409x317 | 437x437 |
| 适用水口料尺寸 Adapt the size of regrind | | 210x190x110 | 300x280x160 |
| 适用水口料最大线径尺寸 Adapt the max diameter of regrind | | 9 | 11 |
| 粉碎能力 Crush capacity (kg/hr) | | 10 | 15 |
| 回转速度 Speed of revolution(rpm) | | 29.4 | 29.4 |
| 粉碎刀尺寸 Cutter size(mm) | | 4x5 | 5x6 |
| 细粉碎刀数量 grinding blades(只) | | 3 | |
| 大刀数量 Crushing blades(只) | | 2 | |
| 固定刀数量 Fixed blades(只) | | 6 | |
| 马达功率 Motor capacity(kw) | | 1.5 | 2.2 |
| 电源 power | 主回路电压 main current power | 380V/50Hz | |
| | 控制回路电压 control current voltage | 220V/50Hz | |
| | 总电气容量(kW) Total electric capacity | 1.6 | 2.3 |
| 电源线 power line | | 5米 | |
| 重量 weight(kg) | | 204 | 300 |
| 外形尺寸(mm) (长×宽×高) dimensions(mm) (L×W×H) | | 1290x487x1115 | 1508x605x1352 |

产品结构图 Product Structure Diagram

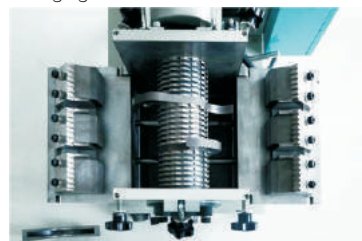
| 机型 | TGLA-2325SS | TGLA-2325SM | TGLA-3325SS | TGLA-3325SM |
|----|-------------|-------------|-------------|-------------|
| A | 1290 | 1290 | 1508 | 1508 |
| B | 487 | 487 | 605 | 605 |
| C | 409 | 409 | 437 | 437 |
| D | 317 | 317 | 437 | 437 |
| E | 1115 | 1115 | 1352 | 1352 |
| F | 63 | 63 | 52 | 52 |
| G | 425 | 425 | 475 | 475 |
| H | 270 | 270 | 386 | 386 |
| I | 236 | 236 | 320 | 320 |

| 机型 | TGLA-2325SS | TGLA-2325SM | TGLA-3325SS | TGLA-3325SM |
|----|-------------|-------------|-------------|-------------|
| J | 502 | 502 | 635 | 635 |
| K | 38.1 | 38.1 | 38.1 | 38.1 |
| L | 630 | 630 | 831 | 831 |
| M | 552 | 552 | 693 | 693 |
| N | 395 | 395 | 515 | 515 |
| O | | 386 | | 451 |
| P | | 227 | | 345 |
| Q | | 290 | | 373 |

特点 Features

◆全开放式刀腔结构设计，清扫换料快捷。

Structure design of open knife cavity, convenient cleaning and changing material.



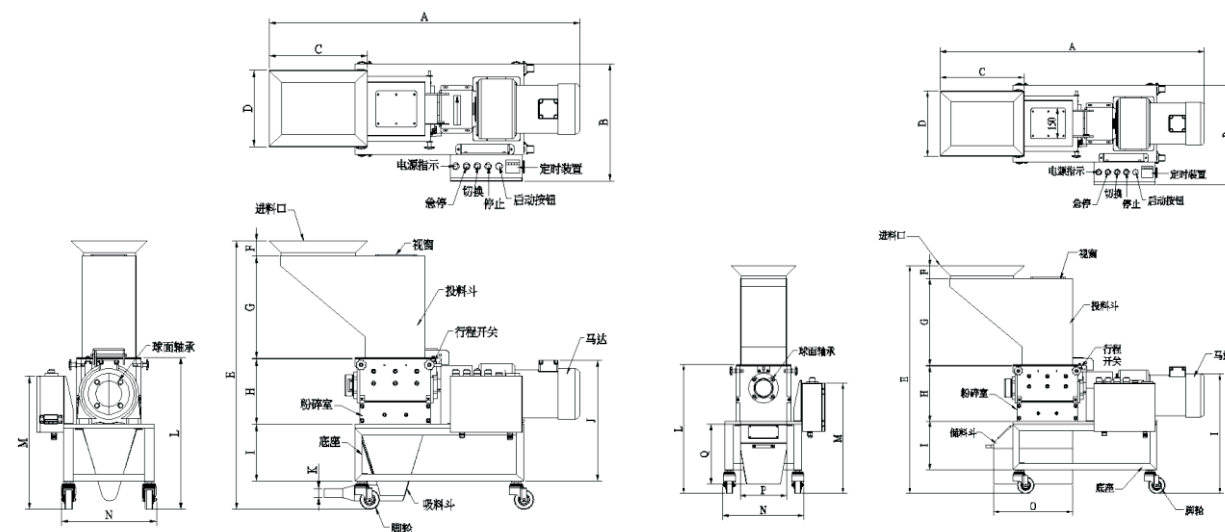
◆SKD11圆弧刀面设计，防止断刀。

The fine-scissors of the granulation adopts arc shape design so that the scissors teeth are uneasy to crack.



◆可定时运转，节能50%。

Timable operation, energy saving 50%.



TGLA-2325SS TGLA-3325SS

TGLA-2325SM TGLA-3325SM

慢速静音粉碎机TGL系列 TGL Series Low Speed Sound-Proof Granulators

粉碎回收系统
Granulating&Recycling System



属于无筛网型塑胶回收粉碎机。25~30rpm低速运转，齿啃式刀具设计，专门设计用于粉碎各类硬性及易脆塑胶之不良产品，次品的机边粉碎回收利用；尤其适合粉碎回收PC、尼龙、ABS等硬质水口料。具有转速低，扭矩大，噪音低，产生粉尘少，操作简便的优点，而且具备产品粉碎颗粒均匀，粉碎效果极佳，设备运转中无过热现象，使用寿命长等特点。

As Low Speed Sound-Proof Granulators are non-mesh slow speed plastic recycling units with 25~30rpm which specially designed with teeth cutters for crushing various defective products made of rigid plastics and brittle plastics such as PC, nylon, ABS and so on. All these models are characterized with low speed & high torque, low noise, less powder pollution, easy operation, granulating in even, no-overheating in operation and long service life.

特点 Features

◆无筛网设计,碎料均匀粉末少。

Non - mesh screen design ,well-proportioned granules and less powderpollution.

◆结构合理,小巧占用空间小,适合狭小空间机台旁使用。

Optimized structure of machine with small footprint which is especially suitable for the limited space of workshop to use.

◆刀具材质采用优质SKD-11(选配),经久耐用。

Both rotor blades and fixed blades are made of SKD-11(option) with long service life.

◆30S立即回收可减少对水口料的湿化,氧化等破坏。

30 sec instant recycling system to keep regrind material free from color changing by oxidation or damping .

◆25~30RPM低速运转,省电,无噪音公害。

Low speed at 25~30 rpm, power saving , less noise.

◆中空轴型齿轮减速电动机驱动,无需加油节省空间。

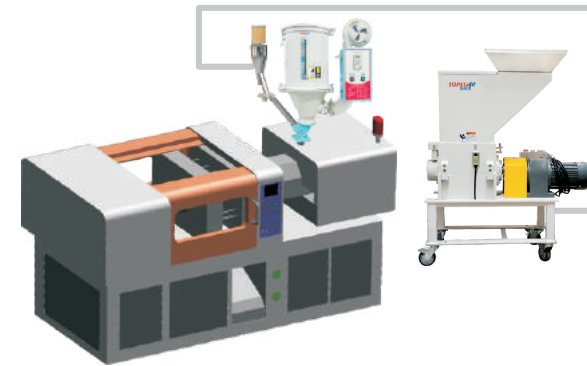
This unit is driven by shaft gear-motor, no need oil.

◆本系列粉碎机适合回收PC,PBT,ABS,尼龙等硬质水口料。

This series is suitable for granulating rigid&bristle resins-PC,PBT,ABS, Nylon etc.

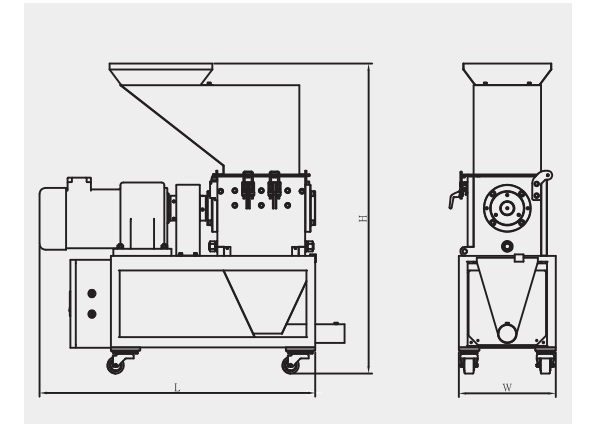
吹料式回收系统流程图

Blown Material Type Recovery System Flowchart



产品结构图

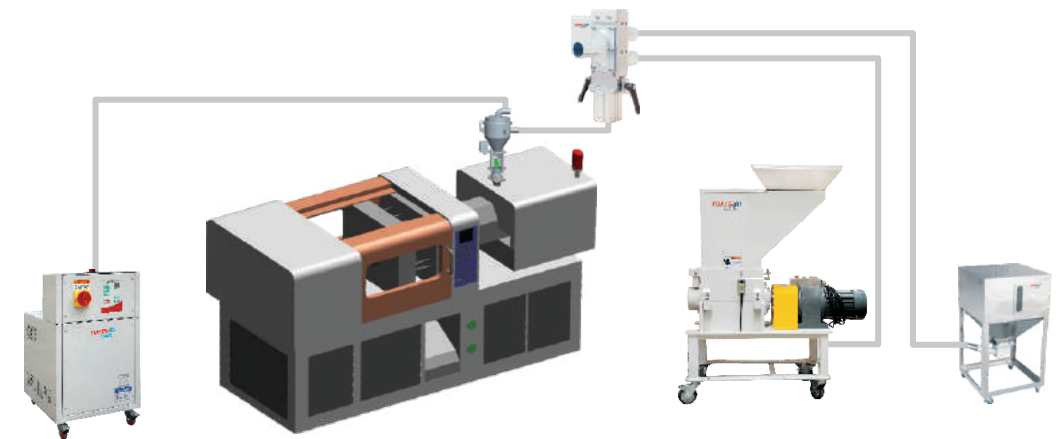
Product Structure Diagram



粉碎回收系统
Granulating&Recycling System

新次料比例回收系统流程图

The Data of The Proportion of The New Recovery System Flow Chart



规格表 Specification Sheet

| 产品型号 Model | TGL-2326SB | TGL-2526SS | TGL-3232SB | TGL-3232SS | TGL-3243SB | TGL-3243SS |
|--|----------------------------|----------------|----------------------------|----------------|----------------------------|----------------|
| 粉碎口径 Crushing Chamber (mm) | 250x300 | | 315x315 | | 315x420 | |
| 粉碎能力(以PP料为标准) Crushing Ability (Kg/h) | 10~15 | | 20~30 | | 30~40 | |
| 主轴转速 Revolutions (r/min) | 20~22 | | 20~22 | | 20~22 | |
| 刀具结构形式 Cutter Type | 滚刀Rotary+S刀S Knife | | 滚刀Rotary+S刀S Knife | | 滚刀Rotary+S刀S Knife | |
| 旋转刀数量 Rotating Blades | S刀2件Two S+滚刀3件Three Rotary | | S刀2件Two S+滚刀3件Three Rotary | | S刀2件Two S+滚刀3件Three Rotary | |
| 固定刀数量 Fixed Blades | 6 | | 6 | | 8 | |
| 马达功率 Motor Power (HP) | 1.5 | | 2 | | 3 | |
| 机器总功率 Total Power (KW) | 1.1 | | 1.5 | | 2.2 | |
| 电源线规格 Wires Specifications (mm ²) | 4 x 1.5 | | | | | |
| 电源线长度 Wires Length (m) | 5 | | | | | |
| 噪音 Noise Level (dB) | 85 | | | | | |
| 碎料回收方式 Crushing Recycle Type | 料箱式 Box | 吸料式 Suction | 料箱式 Box | 吸料式 Suction | 料箱式 Box | 吸料式 Suction |
| 外形尺寸 imensions LxHxW(m) | 0.9*1.1*0.43 | 0.9*1.1*0.43 | 1.04*1.18*0.48 | 1.04*1.18*0.48 | 1.2*1.2*0.48 | 1.2*1.2*0.48 |
| 重量 Weight(Kg) | 205 | | 280 | | 323 | |

注：产品规格若有变更，恕不另行通知 We reserve right to change specifications without prior notice.

中速粉碎机TGM系列 TGM Series Middle Speed Granulators

粉碎回收系统
Granulating&Recycling System



中速粉碎机适用于水口料之粉碎再利用，专门设计能粉碎较硬的工程塑胶，又可粉碎较软的通用塑胶。适中的转速将粉屑、噪音的产生及刀具磨损降到最低点，动刀与定刀都采用SKD-11材质，使用寿命长。具有粉尘少、低噪音、低能耗，操作简便，性能优异的优点，并且设置多种安全保护装置，确保操作安全。

Middle Speed Granulators are mainly used for crushing regrind materials WL to recycle and specially designed not only for rigid engineering plastics but also for soft plastics. WL The proper speed rotation results in less powder, less noise, and low-wear of cutters. Both rotor blades and fixed blades are made of SKD-11 with long service life.

特点 Features

◆ 投料斗采用双层不锈钢结构，美观坚固，隔音效果优秀。

Feeding hopper employs double layers of stainless steel with superior sound-proof, durable structure & excellent appearance.

◆ 粉尘少、低噪音、低能耗。

Less powder, low noise, low consumption.

◆ 高品质的粉碎颗粒，低转速特制减速马达(150r/min)。

This unit is driven by low speed motor (150 rpm). It can granulate defective parts into well-proportioned granules.

◆ 刀具材质采用优质SKD-11(选配), 经久耐用。

Blades are made of SKD-11(option) with long service life.

◆ 快速换刀与快速更换筛网设计，维修与保养非常简便。

Rapid changing blades & screen design, easy maintenance.

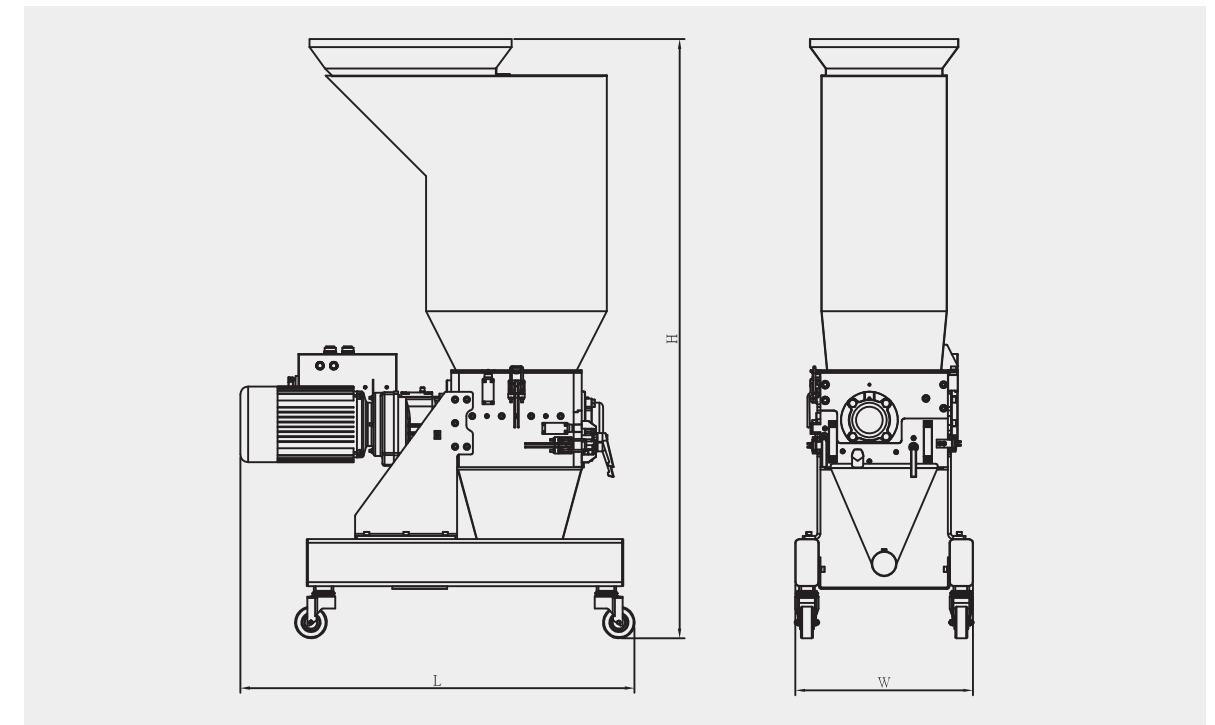
◆ 能粉碎较硬的工程塑料，又可粉碎较软的通用塑料。

It is not only suitable for granulating rigid engineering plastics but also soft plastics.

◆ 安全防护装置完善，性能稳定可靠。

Safety protection device to comply with safety conformity, stable and reliable function.

产品结构图 Product Structure Diagram



粉碎回收系统
Granulating&Recycling System

规格表 Specification Sheet

| 产品型号 Model | TGM-2718CB | TGM-2718CS | TGM-2729CB | TGM-2729CS |
|---|-------------------------|---------------|---------------|---------------|
| 粉碎口径 Crushing Chamber (mm) | 275x180 | 275x180 | 275*290 | 275*290 |
| 粉碎能力 Crushing Ability (Kg/h) | 35~40 | 35~40 | 40~45 | 40~45 |
| 主轴转速 Revolutions (r/min) | 140~150 | 140~150 | 140~150 | 140~150 |
| 刀具结构形式 Cutter Type | 爪刀Claw+筛网Screen Netting | | | |
| 旋转刀数量 Rotating Blades | 18 | 18 | 30 | 30 |
| 筛网孔径 Screen Netting Size | Φ6 Φ8 Φ10 | | | |
| 马达功率 Motor Power (HP) | 3 | 3 | 4 | 4 |
| 机器总功率 Total Power (KW) | 2.2 | 2.2 | 3 | 3 |
| 电源线规格 Wires Specifications (mm ²) | 4X1.5 | 4X1.5 | 4X2.5 | 4X2.5 |
| 电源线长度 Wires Length (m) | | | | |
| 碎料回收方式 Crushing Recycle Type | 料箱式Box | 吸料式Suction | 料箱式Box | 吸料式Suction |
| 噪音 Noise Level (dB) | | | | |
| 外形尺寸 Dimensions LxHxW(m) | 0.85*1.4*0.44 | 0.85*1.3*0.44 | 0.97X0.45X1.5 | 0.97X0.45X1.5 |
| 机器重量 Weight (Kg) | 260 | 260 | 280 | 280 |

注：产品规格若有变更，恕不另行通知 We reserve right to change specifications without prior notice.

强力型粉碎机TGP系列 TGP Series Powerful Granulators

粉碎回收系统
Granulating&Recycling System



特别适用于各类硬性塑胶之粉碎再利用，效果更佳。刀架优化设计，又分为片刀型，爪刀型和平刀型。爪型刀可分散受力度，使得每片刀的剪切加大，尤其适合厚件产品及大块胶头，硬质料块等，有效的提高了刀具切削力、减少刀具磨损。设有电控安全设计，多项安全保护装置，确保操作安全。

Powerful Sound - Proof Granulators are specially designed for crushing various rigid plastics to recycle with high-efficiency. Superior cutter design has 3 types - flake, flat and claw type. Claw cutter has the characteristics of scattering force even to make each blade giving strong shearing force to reduce cutter wear, especially are suitable for hard & thick products cutting. The granulators are specially designed with multiple electricity safety devices to ensure safety protection.

特点 Features

◆ 适合粉碎大块的各种材质形状的不良品,可集中粉碎回收。

All models are suitable for granulating big & different material & different shape of defect plastic parts, can be collected to granulate together for recycling use.

◆ 马达附有 overload 保护装置，并有电源连锁保护系统，附有清洁刀具保护装置操作、清洗绝对安全；确保维护人员的安全。

The motor is equipped with overload protector & interlock power protection safety device & granulator is equipped with cleaning cutter protection safety device for ensuring operators' safety.

◆ 刀具材质采用进口优质SKD-11(选配) 经久耐用。

Cutters are made of SKD-11(option) with long service life.

◆ 筛网孔径10HP & 以下标准配置为8MM, 15HP & 以上标准配置为10MM,其他规格可接受订做。

The standard screen mesh size for 10HP & below is 8mm; for 15HP & above is 10mm. Other spec can be customized according to customers' requirements.

◆ 设计独特，马力最小，效率却佳,并备有双层消音设备，噪音低。

Unique design realizes that the power is smallest but the efficiency is highest. It is also equipped with double-silencer to achieve low noise.

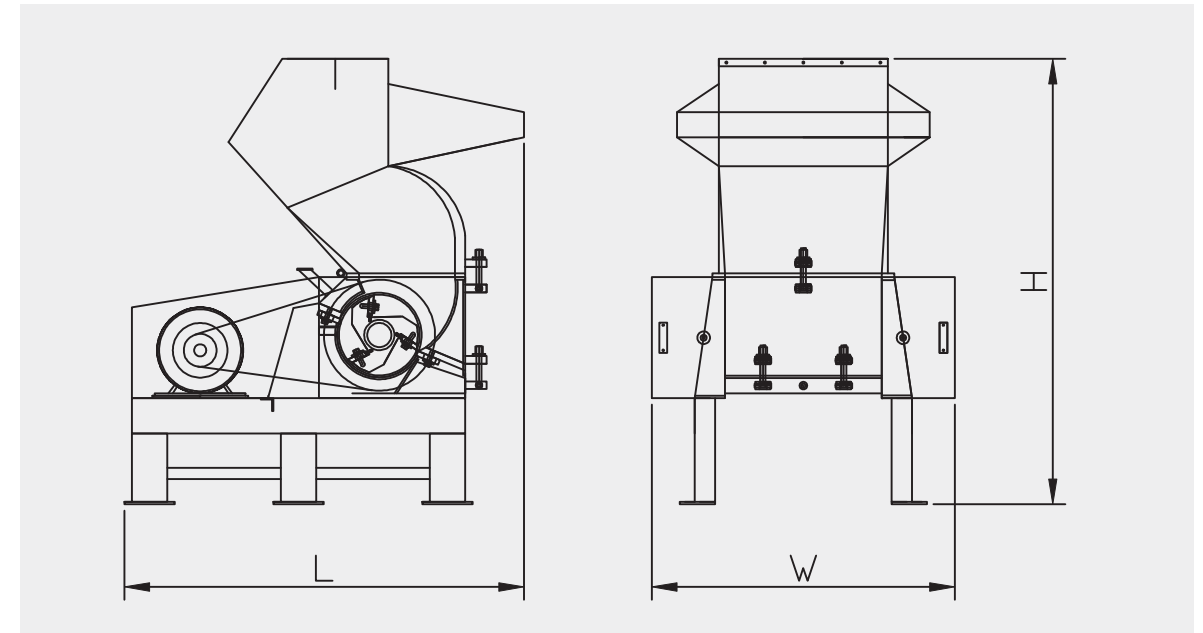
◆ 粉碎透明料和白色料时，进料斗和筛网需订做不锈钢，以免在粉碎时油漆脱落,污染原料影响颜色。

Feeding hopper and screener need to be made of stainless steel in order to avoid painting peeling off to make material contamination for effecting color.

◆ 易拆式设计：进料斗，碎料刀，过滤网均可拆卸,易清洗。

Easy disassembly design - feeding hopper, cutters and screener easily dismantle for cleaning.

产品结构图 Product Structure Diagram



粉碎回收系统
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规格表 Specification Sheet

片刀 (-P)

| 型号 Model | TGP-2320P-5HP | TGP-3120P-7.5HP | TGP-4123P-10HP | TGP-5129P-15HP | TGP-6132P-20HP | TGP-8147P-30HP/40HP |
|-----------------------------------|---------------|-----------------|----------------|-----------------|----------------|---------------------|
| 马达功率 Motor CapacityHP/KW | 5HP/4KW | 7.5HP/5.5 | 10HP/7.5 | 15HP/11 | 20HP/15 | 30/22 40/30 |
| 刀腔尺寸 Mix Crushing Ability(kg/h) | 220*200 | 300*200 | 410*220 | 500*230 | 600*320 | 815*470 |
| 最大粉碎能力 Mix Crushing Ability(kg/h) | 100 | 150 | 200 | 300 | 350 | 450 |
| 外型尺寸 Dimensions (L*W*H) (m) | 0.97*0.61*1.2 | 1.0*0.72*1.29 | 1.03*0.84*1.39 | 1.230*1.01*1.63 | 1320*1110*1830 | 1.73*1.49*2.3 |
| 重量 Weight (kg) | 290 | 435 | 450 | 820 | 970 | 2100 |

爪刀 (-C)

| 型号 Model | TGP-3626C-10HP | TGP-4228C-15HP | TGP-4833C-20HP | TGP-6635C-30HP | TGP-7250C-50HP | TGP-9182C-75HP |
|-----------------------------------|----------------|----------------|----------------|----------------|-----------------|----------------|
| 马达功率 Motor CapacityHP/KW | 10HP/7.5 | 15HP/11 | 20HP/15 | 30/22 | 50/37 | 75/55 |
| 刀腔尺寸 Mix Crushing Ability(kg/h) | 360*260 | 420*280 | 480*330 | 660*350 | 720*500 | 910*820 |
| 最大粉碎能力 Mix Crushing Ability(kg/h) | 200 | 300 | 350 | 450 | 700 | 900 |
| 外型尺寸 Dimensions (L*W*H) (m) | 1.06*0.83*1.44 | 1.27*0.9*1.6 | 1.37*0.98*1.79 | 1.57*1.32*2.0 | 1.870*1.51*2.48 | 2.36*1.92*3.7 |
| 重量 Weight (kg) | 500 | 795 | 1040 | 1700 | 2750 | 4200 |

平刀 (-F)

| 型号 Model | TGP-3626F-10HP | TGP-4228F-15HP | TGP-4833F-20HP | TGP-6635F-30HP | TGP-7250F-50HP | TGP-9182F-75HP | TGP-10582F-75HP |
|-----------------------------------|----------------|----------------|----------------|----------------|-----------------|----------------|-----------------|
| 马达功率 Motor CapacityHP/KW | 10HP/7.5 | 15HP/11 | 20HP/15 | 30/22 | 50/37 | 75/55 | 75/55 |
| 刀腔尺寸 Mix Crushing Ability(kg/h) | 360*260 | 420*280 | 480*330 | 660*350 | 720*500 | 910*820 | 1050*820 |
| 最大粉碎能力 Mix Crushing Ability(kg/h) | 200 | 300 | 350 | 450 | 700 | 900 | 1350 |
| 外型尺寸 Dimensions (L*W*H) (m) | 1.06*0.83*1.44 | 1.27*0.9*1.6 | 1.37*0.98*1.79 | 1.57*1.32*2.0 | 1.870*1.51*2.48 | 2.36*1.92*3.7 | 2.51*2.06*3.7 |
| 重量 Weight (kg) | 500 | 765 | 940 | 1640 | 2700 | 4050 | 5350 |

注：产品规格若有变更，恕不另行通知 We reserve right to change specifications without prior notice.

强力静音粉碎机TGP系列 TGP Series Powerful Sound-Proof Granulators

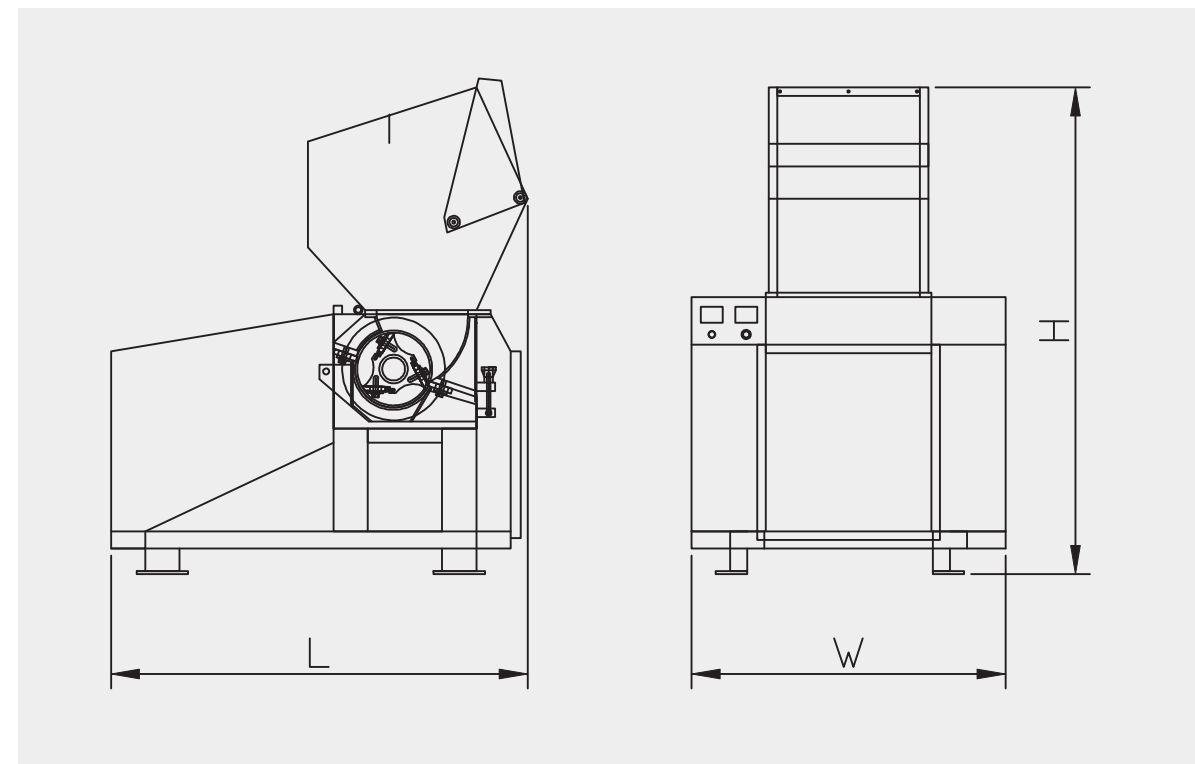
粉碎回收系统
Granulating&Recycling System



料斗采用双层结构，减少噪音，使得设备具有良好的安全性及环保性，省电耐用。结构合理，操作方便，可掀式设计，方便维修与保养。全封闭静音设计，机台周围1米范围外噪音在75分贝以下，提供良好工作环境。另外提供强力粉碎机供客户选择。

Double sound isolation for low noise level; optimal structure for easy operation; openable design for easy maintenance. Fully hermetic sound-proof design provides excellent working environment result in noise level below 75db under the condition which measures it within one meter away from the machines. In addition, powerful granulators are available for customers' selection.

产品结构图 Product Structure Diagram



粉碎回收系统
Granulating&Recycling System

规格表 Specification Sheet

| 型号 Model | TGP-2321PQ | TGP-4127PQ | TGP-5232PQ | TGP-6234PQ | TGP-8148PQ |
|--------------------------------------|-------------|---------------|---------------|----------------|----------------|
| 粉碎口径 Crushing Chamber(mm) | 230*200 | 410*270 | 520*320 | 620*340 | 815*480 |
| 最大粉碎能力 Mix Crushing Ability(KGHR) | 100 | 200 | 300 | 350 | 500 |
| 固定刀 Fixed Cutters | 2 | 2 | 2 | 4 | 4 |
| 旋转刀 Rotary Cutters | 6 | 12 | 15 | 18 | 24 |
| 功率 Power(kw/hp) | 4/5 | 7.5/10 | 11/15 | 15/20 | 22/30 |
| 外部尺寸 Dimensions(L*W*H)(m) | 1*0.72*1.49 | 1.18*0.93*1.7 | 1.3*1.06*1.96 | 1.36*1.16*2.13 | 1.85*1.54*2.68 |
| 重量 Weight KG | 500 | 800 | 1100 | 1350 | 2250 |

注：产品规格若有变更，恕不另行通知 We reserve right to change specifications without prior notice.

特点 Features

- ◆全封闭静音设计，机台周围1米范围外噪音在75db以下，同时避免了粉尘污染。

Fully hermetic & silent design, the noise level is below 75db around 1 meter distance away from machines, also avoid dust contamination simultaneously.

- ◆不锈钢储料箱清洗快速、方便，也可选配吸料口型不锈钢储料箱。

The material storage tank is made of stainless steel for easy cleaning, stainless steel suction spout is also available for option.

- ◆马达超载保护装置，紧急安全开关装置。

Motor overload protection device, emergency safety switch device.

- ◆配有相序控制器，可防止因电机反转所造成的不良后果。

To be equipped with electrical phase controller, avoid any damage from motor reverse.

- ◆装有电源隔离开关，维修、操作更加方便、安全。

To install power isolator, easy maintenance & safety operation.

- ◆静音型粉碎机，可供集中粉碎和随机粉碎使用。

This series can be used beside- the - press and collect all rejected parts to granulate together.

- ◆独特设计内部散热系统，在全封闭下，将电机所产生的热量排出机外，延长电机使用寿命。

Unique design with inside heat dispersion system, expel heat generated from electrical cabinet to prolong parts' service life even under the fully hermetic machine.

- ◆活动不锈钢料斗、手柄开关等人性化设计，操作方便。

Movable stainless feeding hopper and handle switch with optimal design are operation conveniently.

客户服务篇

Chapter of Service

主动服务理念
Active Service Concept



生产现场 Production Site

从加工、焊接、装配、试机每一个制程工序，拓斯达坚持用最专业的人员来完成。各部门组长级以上干部都在本行业拥有2年以上经验，相关人员全部经过岗前培训，合格后方可上岗。

工厂积极推行质量、环境、安全管理系统。生产效率及品质要求皆以最高标准执行。

TOPSTAR sticks to allocating most professional personnel to complete each manufacturing procedure including processing, welding, assembly and test run. Each cadre above department team leader level has over 2 years of working experience in the industry. All relevant personnel have received pre-work training. They are allowed to work after passing the training assessment.

The factory actively promotes quality, environment and safety management system. The production efficiency and quality requirements are executed according to highest standards.



生产现场 Production Site

坚持自有品牌，自主研发路线。

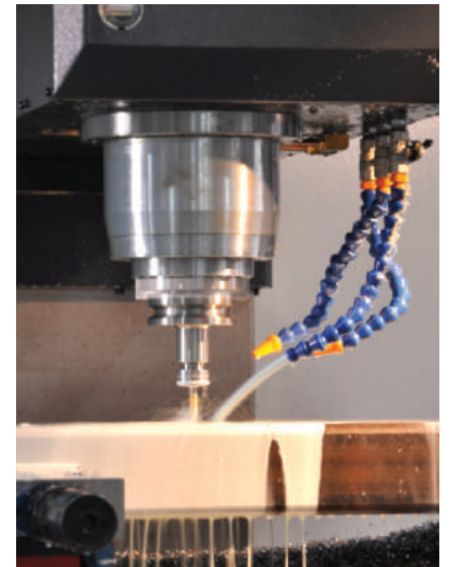
专业的研发团队：在系统规划、机械设计、电路控制、程序开发、软件测试方面均配有专业团队，专职从事相关工作。

严苛的制造工艺：激光切割，CNC精密零件加工中心，采用先进涂装工艺，标准化的组装流程。

Stick to our own brand and independently research and develop routes.

Professional R&D teams: professional teams dedicated to system planning, mechanical design, circuit control, program development and software test have been allocated to engage in relevant work in a full-time manner.

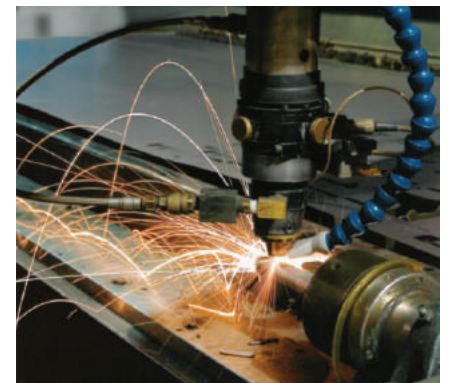
Rigorous manufacture process: advanced coating process and standardized assembly flow are adopted for laser cutting and CNC precision part machining center.



加工现场
Processing Site

采用国际先进的数控冲床，数控折弯机、剪板机及车铣床，确保加工工艺的精确优良及品质稳定。

International advanced CNC pressing machine, bender, steel plate shearer, lathe and milling machine are adopted to guarantee precision and stable quality of machining process.



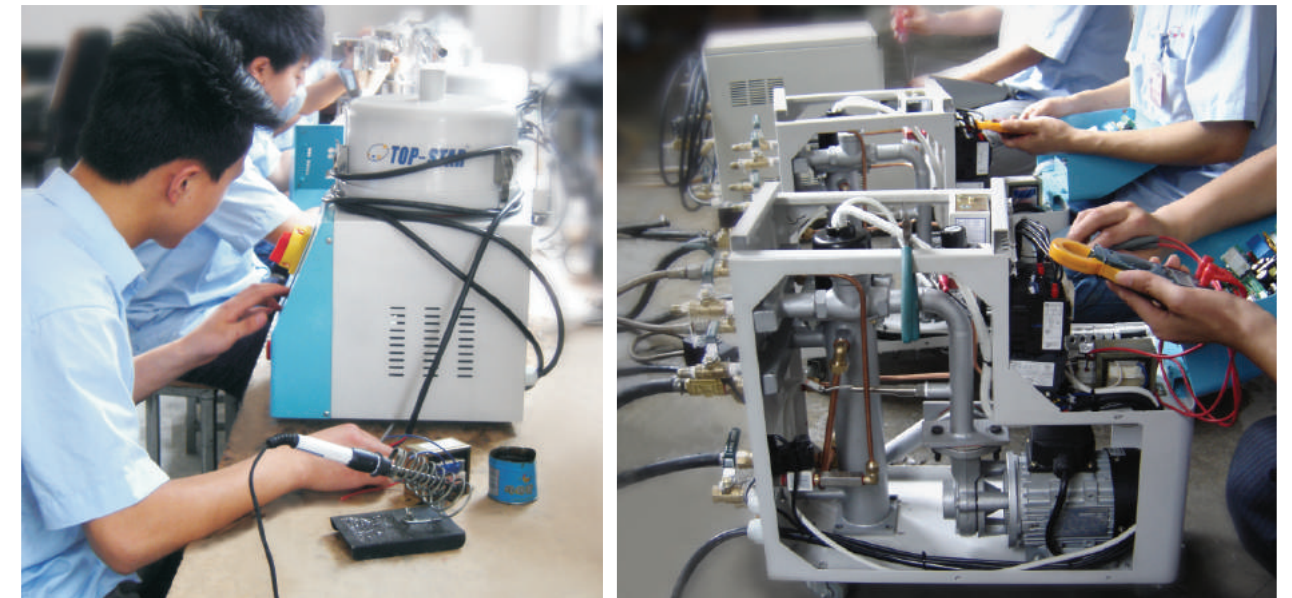
物料管控 Material Management and Control

零件仓所有进项料件，必须有厂家检验合格证并经我们的技术人员再次确认保证没有一个瑕疵品，之后方可入库，每个部件均有编号并放置在一定位置。

成品仓放置经质检合格的成品。标准产品均备有定量库存，可保证满足客户快速交货之需求。

All incoming materials in the part warehouse must have manufacturer inspection quality certificates. Besides, our technical personnel will confirm again to make sure there is not a single defective product. Then, they can be stored in the warehouse. Each part is numbered and placed in a certain position.

Finished products which have passed quality inspection are placed in finished product warehouse. There is certain quantity of inventories of standard products to meet the demand of quick delivery of the customers.



设备检验 Equipment Inspection

所有装配完成之产品，须经专业检测人员经过长达24小时的动态测试，测试项目有的多达50多项，确认全部合格再由复检人员复检OK后联名签字方可包装，每台机的测试结果全部编号并由厂务部归档备案。

All assembled products shall go through the 24-hour dynamic test conducted by professional detectors. The test items are as many as more than 50. After the products pass the test, the recheck personnel will recheck again and jointly sign their names. Then the packing process can be launched. The test result of each machine is numbered and put on files by the factory affair department.



我们率先提出了“主动服务”的概念。

不再满足于被动维修的快捷，我们专门设立了售后服务电话回访制度，对售后服务的满意度全程追踪，同时我们建立了季度巡检和年度检修制度。主动帮助客户保养设备并找出需要改善的方面，然后协同研发部找出对策，使产品不断趋于完善。

We have initially proposed the concept of “Active Service”.

We are no longer satisfied about the quickness of passive repair. Therefore, we have specifically established an after-sales service telephone return visit system to conduct full-journey tracking of the satisfaction of after-sales services. Meanwhile, we have established a quarterly routing inspection and annual overhaul system to proactively help customers maintain the equipment and find places to improve. Then, we coordinate with R&D department to find relevant countermeasures to continuously perfect the products.

衷心感谢 Sincerely Appreciate



比亚迪



海尔



美的



康佳



TCL



五菱



劲胜



欣旺达



捷普绿点



安费诺



莫仕



长盈精密



裕同



精研



铭祥

铭祥汽车



正崧



立讯



兴科集团



华众



长城汽车



伯恩光学



台达

.....

超过4000家客户鉴证并长期支持
Over 4000 customers have witnessed TOPSTAR growth and long supports

全球服务网点 Global Service Net

