



### 品质源自专业,诚信铸就明天 Specialty builds quality Honesty creates future

山东明天帆城有限公司应高于著名的钒碱之乡山东省亚丘市相公信,是一家集科研、生产、销售 为一场的专业企业。公司简有法律的管控加工中心4吨接通信。2007年公司造社IGO9001国际资源 体系ULL,表示"消费者满意单位"。"守谷同重使用金业"。2008年公司生产的"山波"库系列三时 罗汉数 机机能引力和国际和估计的全量监治疗产品,主要指称"山油"等定和活着名和陈 公司录准"品质温自专业,试结结战项天的方针,在金国建立起定高价指有印售后置 奏同 结,苏 成MTS. ROR、MTR版匠型、MJ密推型、罗安直要定、高质百罗宾直要系,双最直压型 罗安蒸 无匠组取得。八大来列产品,其建国《动心师加·1000/mm10636.0ks-1088-0ks-2433-4434, 可能 无匠组取得。八大来列产品,其建国《动心师加·1000/mm10636.0ks-1088-0ks-2433-4434, 可能 无匠组取得。八大男刀产品。其重国《动心师加·1000/mm10636.0ks-1088-0ks-2433-4434, 可能 无证则有"公司"之间,这些"常式"的点心情况现在了一致。此"试试的新杀征,有品品同 而它的这名理论。当时的人们在"放大"的点心情况现在了一致。当时的外面之简子并且,并在

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Shandong Mingtan Machiney Cot, LTD is stuated in the famous town of mechanical processing Xuanggoong Zuanggui Courty, Shandong Province, which is a professional enterprise entgaged in enterprised scientific research, poor addes the Conception yours advanced Color Earching center and testing sciences. It is 2000, the Company authenticated by 503001 international quality system and was avaided 'consume satisfuctory unit' and was 'Oxi-control and enterprised's company advanced to the company production, 'Shan ga' steel science tables the science advanced to water commendation's functions enterprised to the company production, 'Shan ga' steel science advanced to science advanced testingers', in 2000 the company production, 'Shan ga' steel science advanced to science advanced testingers', in 2000 the company production, 'Shan ga' steel science advanced testimes', ' won the Jinan famous trademark. Adhering to the guideline of "Specialty builds quality, Ho

Adhempi to the guideline of topocally builds quality, horeesty creates Mure, the comp before and after saise service and cream sight product service ATR RAP, MTR high-pre-vacuum pump, High-negative pressure Rods vacuum pump, the bipolar high pressure machine, The product has a flow of 0.6m3/min-450m3/min, a boost of 8.8pa-186pa, 8.3 dft in presentatic conveying, usaknowster treatment, aquachare, chemical, petroleum, metalun package and many other industries and fields. ure, MJ co e type,

package and many other industries and fields. Following the protochion and operation lask "taking reputation based on as the core, and the cultural dea of 'sterial' credit and innovation, co-subiti-proper-industriant and forges alread to construct a moderized enterprise with propersorus bases and high-quality talents. The company is willing to coopern a happy formorrow. rer the world to

山东明天机械有限公司



#### 山 载 山东明天机械有限公司

#### ■ 性能表的说明

- 性能表示出了风机型号、口径、转速、排风压力、
- 状态,就是温度20℃,绝对压力1.0332kgf/cm<sup>2</sup> 【101.3kPa】,相对温度65%。 ●基准状态(温度0℃,绝对压力1.0332kgt/cm²【101.3kPa】) ●
- 的风量,一般以Nm<sup>3</sup>/min表示。在进风压力相同的情况下, 可以用下式换算成标准状态的风量。 Q.=Q.×1.0732
- Q。标准状态风量 (m³/min)
- Q<sub>n</sub>:基准状态风量 (m<sup>3</sup>/min) ● 可用下式把指入状态风量決算成标准状态风量
   Q<sub>2</sub>=O<sub>2</sub> × 1<u>0322+P</u>, × <u>273+t</u>, 1.0332
   X = <u>273+t</u>, 0<sub>4</sub>: 損风状态风量(m<sup>3</sup>min)
- P。排风压力 (kgt/cm<sup>2</sup>)
- ↓: 进风温度('C)
- 排风温度(℃)
- 以上述结果求出分量的排风压力,因此再根据性能
- 表求出风机型号、口径、转速和所需动力。 有些风机的型号其选定范围是重复的。从经济的角 度,应选用小型风机,从嗓音的角度,应选用大型风

- The explain of performance table
- The performance tables give the model type,bore ,r.p.m; discharge pressure,air capacity and required power of the
- 尺量和所需要动力的关系。 ●性能表所完成量是标准进风状态下的风量。所谓标准 The air capacity in the tables is indicated in the standard suction state.The standard suction state herein mention is defined as the condition at 20 temperature,1.0332kg [ 101.3kPa ] absolute pressure and 65%relative hum air capacity(temperature 0°C and 1.0332kgt/ absolute pressure)is generally indicated in
  - Nm<sup>a</sup>min. However, it may be converted into the sta the following equation, if the suction press Q<sub>g</sub>=Q<sub>a</sub>×1.0732 Where,Q<sub>a</sub>:standard air capacity;and
  - Q<sub>iv</sub>:reference air capacity; The discharge air capacity can be converted into the standard air capacity by the following equation. Q<sub>s</sub>=Q<sub>s</sub>×<u>1.0332+P</u><sub>e</sub> x <u>273+t</u>
  - where,Q<sub>d</sub>:discharge air capacity,in(m P<sub>d</sub>:discharge pressure,in(kgf/cm<sup>2</sup>)

  - P\_dashuge pressure //gdfcm/ t\_suctor theremeature /n(C) t\_dasharge temperature /n(C) t\_dasharge temperature /n(C) calculated above, the model number bore, p. m and required power can be found in the approximance table. The motor power is indicated by color marking and the motor power to be used should be indicated by color marking and the motor to the choice is overlapped depending upon the type of borner. For enterine, however, sciences the hold be indicated to the choice is overlapped depending upon the type of borner. For enterine, however, sciences to thorhole hold be indicated to the choice is overlapped on the type of the choice is the choice of umber blowers for the economy and higher nun lowers for the sound level.

# E.D./单位换算表 (Conversion of Pressure) Pa Bar Kgf/cm² Atra Mell(0 Mellg(Torr) Pa Bar Kgf/cm² Atra Mell(0 Nellg(Torr) Interview - Aurony Link Stell(2) 1.01572×10.1 7.50082×10.1

压 力 Pressure						
	1	1×10 <sup>-5</sup>	$1.01972 \times 10^{-6}$	9.86923×10 <sup>-6</sup>	$1.01972 \times 10^{-1}$	7.50062×10 <sup>-5</sup>
	$1 \times 10^{5}$	1	1.01972	9.86923×10 <sup>-1</sup>	1.01972×104	7.50062×10 <sup>2</sup>
	9.80665×104	9.80665×10 <sup>-1</sup>	1	9.67841×10 <sup>-1</sup>	1×104	7.35559×10 <sup>2</sup>
	$1.01325 \times 10^{5}$	1.01325	1.03323	1	$1.03323 \times 10^{4}$	7.60000×10 <sup>2</sup>
	9.80665	$9.80665 \times 10^{-5}$	1×10 <sup>-4</sup>	9.67841×10 <sup>-5</sup>	1	7.35559 $\times 10^{-2}$
	1.33322×10 <sup>2</sup>	1.33322×10-3	1.35951×10-3	1.31579×10-3	1.35951×104	1



■ 组合示意图

8

10

v-ring 齿端墙板 Wall board 9

品质源自专业 诚信铸鼓明天

1

2

6

1

1

2

2

HT250 1

有机玻璃 2

A3

#### 序号 名称 材质 数量序号 名 称 材质 数量 加油栓塞 45# A3 2 11 从动轴 Driven sha 叶 轮 Lubricaion 齿轮箱 Gear case 止动螺母 Lock nut HT250 1 12 QT400 2 Rotor 定位销 3 A3 4 13 Posi 45# Lock sut 整圈 Washer 甩油片 Oil Splas 齿轮 Gear 轴承 Bearing 机壳 A3 4 14 HT250 A3 HT250 2 15 副油箱 Drop tai 油 封 20CrMnTi HT250 6 2 16 SUJ2 4 丁晴胶 V型油封

1 19

1 20

丁晴胶 4

HT250

45#

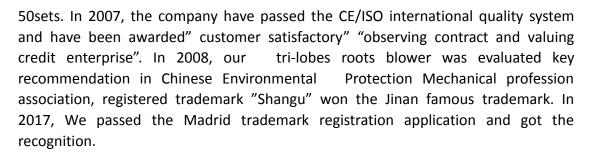
18 油箱压盖 Fuel tank c 19 油 标

淮油栓塞



### **Company introduction**

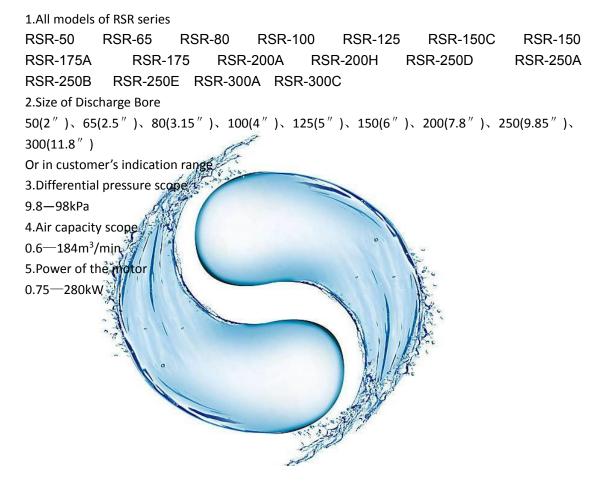
Shandong Mingtian Machinery Co., Ltd. locates in the famous town of mechanical processing Xianggong Town, Zhangqiu City, Shandong Province, which is a professional enterprise engaged in integrated scientific research, production and sales. The company has advanced CNC machining center and testing equipment

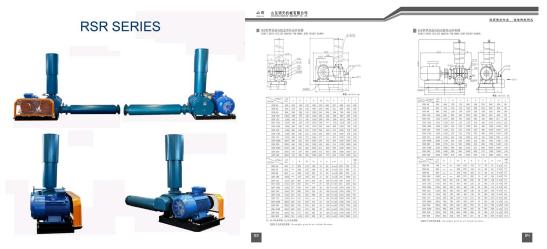


]Adhering to the guideline of "Specialty builds quality, Honesty creates future", the company establishes perfect system of before and after sales service and forms eight product series of RSR,MTS,MTR high-pressure, MJ compressed and Roots vacuum pump, High-negative pressure Roots vacuum pump, the double stage high pressure type, Roots vapor compressor. The product has a flow of 0.6m3/min-1059m3/min, pressure rise of 9.8-196kpa, 63 different types, which is widely used in pneumatic conveying, wastewater treatment, aquaculture, chemical, petroleum, metallurgy, electric power, food vacuum package, cement plant, power plant, powder conveying, coal mill, textile plant and many other industries and fields.

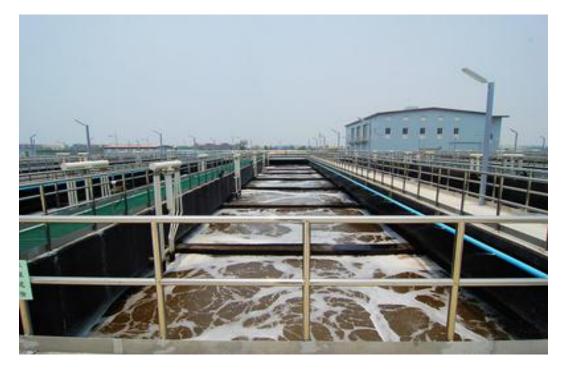
### **Product introduction**

### **1**、 Ordinary Roots Blower





RSR Series Roots Blower Flow Rate: 0.6~198m<sup>3</sup>/min ; Boost Pressure: 9.8~98kpa



2、 Dense roots blower



### **3**、**Two-stage Roots blower**

1.All models of MTRR series

MTRRB-65 MTRRB-100 MTRRD-125 MTRRD-130 MTRRD-150 MTRRE-150 MTRRE-190 MTRRE-200 MTRRE-250 MTRRE-300 MTRRF-250 MTRRF-295 MTRRF-300 MTRRF-350 MTRRF-395 MTRRF-400 MTRRG-450 MTRRG-500 2.Size of Discharge Bore 50(2<sup>"</sup>)、80(3.15<sup>"</sup>)、125(5<sup>"</sup>)、150(6<sup>"</sup>)、200(7.8<sup>"</sup>)、250(9.85<sup>"</sup>)、300(11.8<sup>"</sup>)、350(13.8<sup>"</sup>)、 400(15.7")

Or in customer's indication range



3.Differential pressure scope

98—196kPa

4. Air capacity scope

0.61-428m<sup>3</sup>/min

5.Power of the motor

5.5—1000kW



flow Rate : 159.3-452.4m<sup>3</sup>/min ; Boost

Pressure: 9.8-98kpa MTRH Series Roots Blower Flow Rate: 480-1257m<sup>3</sup>/min; Boost Pressure: 9.8-88kpa

### 4、 Negative Roots Vacuum Pump

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1.All models of Roots Vacuum Pump series
RSR-50
             RSR-65
                        RSR-80
                                    RSR-100
                                                RSR-125
                                                            RSR-150 RSR-150C
RSR-175 RSR-175A RSR-200H
                                  RSR-200 RSR-250D
                                                                     RSR-300A
                                                          RSR-250
MTRF-250 MTRF-290
                        MTRF-300
                                     MTRF-350
                                                       MTRG-400
                                                                     MTRG-450
MTRG-500
2.Size of Discharge Bore
50(2")、65(2.5")、80(3.15")、100(4")、125(5")、150(6")、200(7.8")、250(9.85")、
300(11.8")、350(13.8")、400(15.7")、450(17.7")、500(19.7")
Or in customer's indication range
3.Differential pressure scope
-9.8— (-49) kPa
4. Air capacity scope
0.86-452 m<sup>3</sup>/min
5.Power of the motor
0.75-475kW
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### **5** Steam compressor

1.All models of ZQ series

ZQRSR-50ZQRSR-65ZQRSR-80ZQRSR-100ZQRSR-125ZQRSR-150#ZQRSR-150AZQRSR-200HZQRSR-200ZQRSR-250DZQRSR-300ZQMTRF-300ZQMTRF-350ZQMTRG-400ZQMTRG-450

#### ZQMTRG-500

2.Size of Discharge Bore 50(2″)、65(2.5″)、80(3.2″)、100(4″)、125(5″)、150(6″)、200(7.8<sup>w</sup>)、250(9.85″)、300(11.8″) Or in customer's indication range 3.Differential pressure scope 9.8—98kPa 4.Air capacity scope 0.61—452.4m<sup>3</sup>/min 5.Power of the motor 0.75—560KW

## **PRODUCT APPLICATION**

SHANDONG MINGTIAN MACHINERY CO., LTD



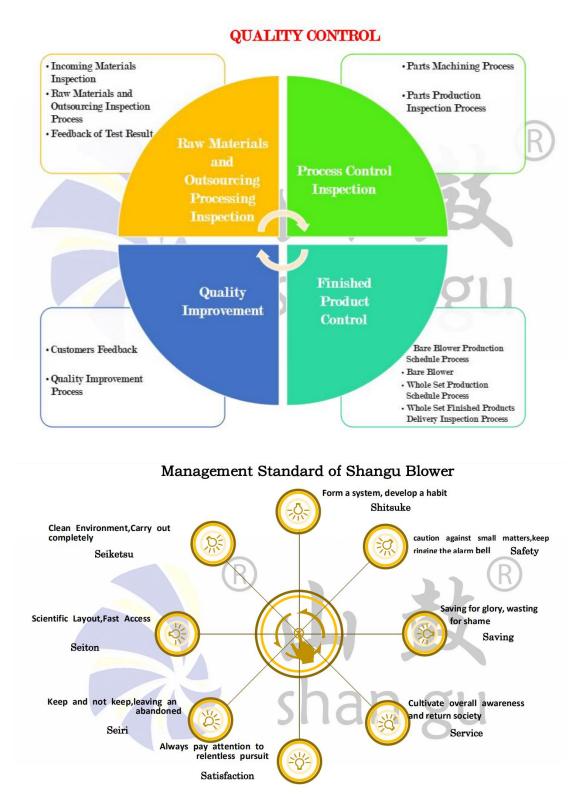


### OUR WORKSHOP









### **Payment terms, Packaging and Shipping**

A. Our payment terms is mainly choice T/T,L/C or other terms you are convenient.

**B.** Our package including two methods: standard exported wooden box and iron box.

C. Our transportation: by sea, air or railway transportation.



# **MVR**

### 零排放 Zero Liquid Discharge

-. the concept Zero discharge of wastewater means that after repeated reuse of industrial water, this part of wastewater containing high salt and high pollutants will be recycled and reused through deep comprehensive treatment (more than 99%), without any waste liquid being discharged from the factory. The salts and contaminants in the water are concentrated and crystallized in a solid form and then recovered as a useful chemical raw material or by-product after low-temperature carbonization.

 $\Box$ . Process Flow of Zero Liquid Discharge Zero-liquid-discharge process technology of Tomorrow company combines membrane concentration and MVR evaporators, in this process, membrane water and evaporative condensate are recycled, while salt is crystallized and dried into industrial salts, impurities are treated by solidification, to achieve zero discharge of wastewater by combined treatment process of membranes filtration and evaporative crystallization.

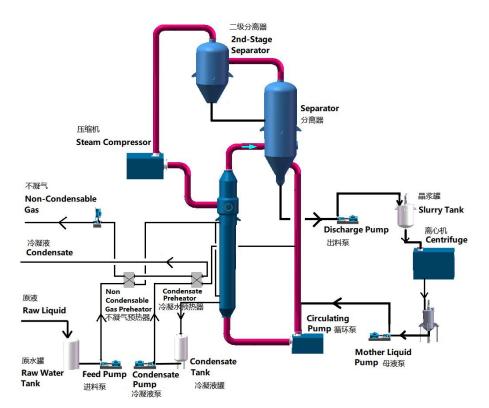
Ξ. Advantages of Tomorrow Company's Zero-liquid-discharge technology

1. Comprehensive use of membrane treatment + evaporation crystallization, high effluent quality, high quality crystalline salt;

2. Low operating cost, saving resources and no secondary pollution;

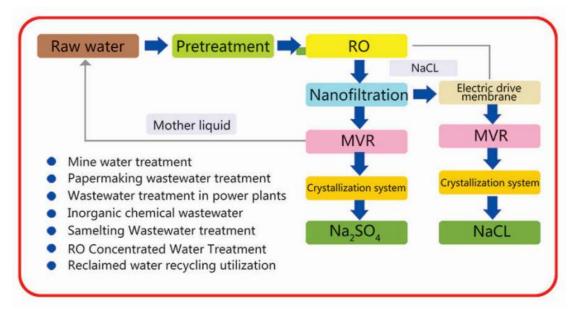
3. Water reuse, reduce the demand for water resources in the plant area, with certain economic benefits;

4. The system is easy to operate, with a high degree of automation and a small occupied space.



The MVR

evaporator uses the secondary steam generated in the evaporator to be mechanically compressed by the compressor, the pressure is increased, the heat is increased, and then the heat exchanger is condensed to fully utilize the latent heat of the steam, except for the start-up operation, the entire evaporation process, the theory There is no need for a single steam, so that the steam that was originally discarded is fully utilized, the latent heat is recovered and the thermal efficiency is improved, and the economy is equivalent to the 30 effect of multi-effect evaporation.



### **Cooperation Style**

#### 工艺包设计 Craft package design

我方根据甲方水质情况提供工艺包,并指导甲方进行设备安装与调试,其它由甲方进行购买; We will provide the technology package according to the water quality of Party A, and guide Party A in equipment installation and commissioning, and other purchases shall be made by Party A;

#### 蒸发设备整体安装、调试 Evaporation equipment installation and commissioning

由乙方进行对整套设备生产、安装,并进行设备调试与操作人员的培养,调试合格后交由甲 方人员操作; Party B shall carry out the production and installation of the whole set of equipment, and carry out the equipment debugging and training of the operators. After the commissioning is passed, it shall be handed over to the personnel of Party A;

#### 租赁运行 Rental operation

甲方预付整套设备定金,由乙方进行设备制造、安装,并对运行设备,甲方按月给予租赁资金,待约定租赁期满,双方协商设备价格,一次性转让; Party A shall prepay the whole set of equipment deposit, Party B shall manufacture and install the equipment, and Party A shall give the leased funds on a monthly basis for the operation equipment. After the lease expires, the two parties negotiate the equipment price and transfer it at one time;



#### 环保管家 Environmental steward

根据业主出水要求,由特保罗公司进行设计、安装、运营,达到项目设计要求; According to the owner's water requirements, the company is designed, installed and operated by the company to meet the project design requirements;

#### After-sale service:

1, in order to ensure the high reliability and advanced products, system of material are selected domestic and international high-quality brand-name products.

2, we will be in accordance with customer requirements to provide relevant technical training and technical data.

3, in the same competition condition, our company not to reduce the technical performance of products, based on the change of product components for the price, sincerely offer you the most preferential prices.

4, we guarantee the phone mail guidance in the shortest time, by your own simple troubleshooting equipment.

5, we provide free technical support and sales of equipment life.

6, product delivery time: as far as possible according to user requirements, if there are special requirements, should be completed in advance, we can organize special production, installation, and strive to meet the needs of users.

### Contact information:

