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July 2014

TRUSTVAC
创思威克

无油涡旋真空泵

OIL-FREE SCROLL VACUUM PUMP

清洁、环保、无污染

Cleanness, Environmental protection, Non-pollution



北京创思威克真空技术有限公司

Beijing Trustvac Vacuum Technology Co., Ltd.

关于我们 About Us

北京创思威克真空技术有限公司(TRUSTVAC)一直致力于半导体、太阳能光伏、锂电池、电子、医药、化工、石油、食品等行业的产品销售和服务。我们考虑最多的是用价廉物美的产品来满足用户的需求，最大限度地降低用户的成本，并为用户提供全面的技术支持和方便、快捷、完善的售后服务。我们以“科技保证质量，服务完善产品”为宗旨，并建立了完善的销售和服务体系，经过专业培训的技术服务队伍，能够为用户提供及时、全面的技术支持和完善的售后服务。

Beijing Trustvac vacuum technology co., LTD. (TRUSTVAC) devotes to sales and services for the domains of the semiconductor, solar cell, lithium cell, electronics, medicine, chemical industry, petroleum, food, etc. We consider the most is to use cheap and fine products to meet the requirements of users, in order to minimize the user's cost, and provide users with comprehensive technical support and convenient, fast and perfect after-sales service. Our aim is "quality ensured by science and technology, products perfected by service". Our professional technical services team provides timely and comprehensive technical support and perfect after-sales service for all customers.

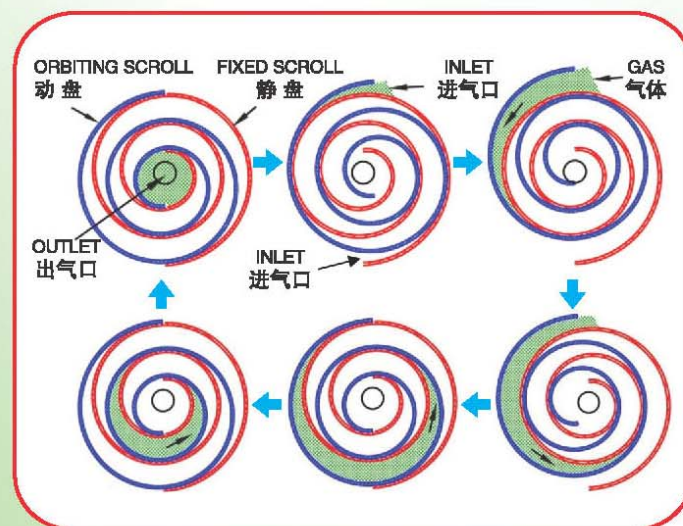
生产基地 Production Factory



工作原理 Operating Principle

无油涡旋真空泵是由两条渐开线螺旋曲线盘构成，即一个静涡旋盘和一个动涡旋盘。静涡旋盘与动涡旋盘组成涡旋盘对，并形成几个体积不同的月牙形腔体。随着动涡旋盘偏心转动，气体在月牙形腔体不断向里旋转压缩，最后从中间排出至出气口。动涡旋盘连续运转，气体不断从进气口进入，由出气口排出，形成真空。

Oil-free scroll vacuum pump is based on two involutes' spiral cylinders, one is fixed and the other is orbiting. These two involutes' spiral cylinders compose a scroll set and several crescent-shaped pockets of different sizes are created by them. By means of an eccentric drive, the orbiting scroll orbits against the fixed scroll. The gases in the crescent-shaped pockets are compressed from the outside to the inside, and are discharged through the center outlet. By the orbiting scroll orbits continuously, the gases continuously come into the crescent-shaped pockets from the inlet and are discharged from the outlet. Thus, the gases are pumped from vacuum chamber.



涡旋泵的工作原理图

The Drawing of the Operating Principle of Scroll Pump

特点和优点 Features & Advantages

- 提供干净的真空环境，无油，无污染
- 宽的真空范围，高的极限真空，从1atm到1Pa
- 大抽速，80立方米/小时抽速的泵，目前是世界上抽速最大的涡旋泵
- 振动小，噪音低，免维护
- 效率高，能耗低
- 结构紧凑，移动方便，可立式、卧式安装
- Provide clean vacuum environment, oil free, non-pollution
- Wide vacuum range, high ultimate vacuum level, from 1atm to 1Pa
- Big pumping speed, 80M³/Hr is the biggest pumping speed in the world for scroll pump
- Low noise, low vibration, Maintenance free
- High efficiency, low power consumption
- Compact structure, moving easily, Horizontal or Vertical Installation available

应用领域 Applications

医疗仪器，生物制品与药品制备，食品、药品包装，油气回收、薄膜制备，化工，半导体，微电子，太阳能，研发实验室等领域

Medical and analysis instruments, Biological products and pharmaceutical preparation, Food and medicine packaging, Gasoline vapour recycle, Film preparation, Chemical, Semiconductor, Micro-electronics, Solar energy, R&D labs, etc.

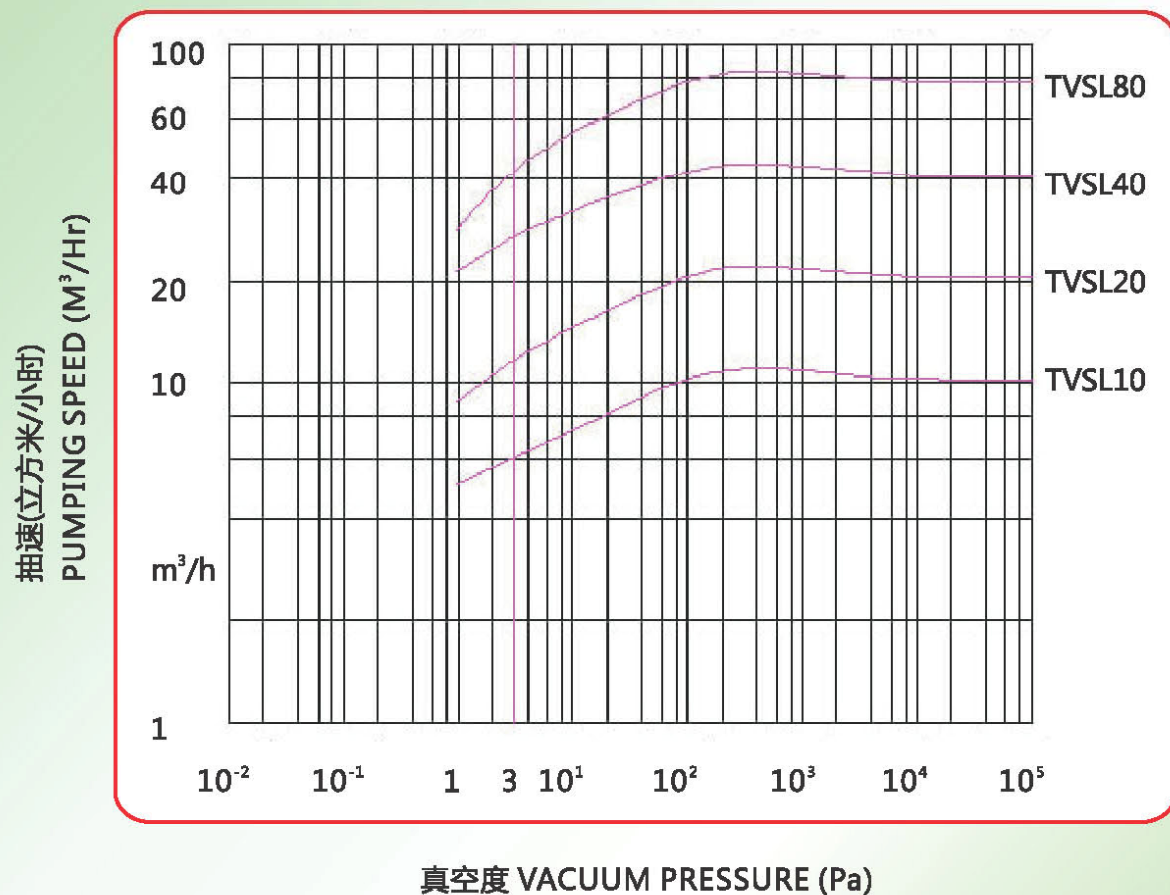
技术规格 Technical Specifications

型 号 Model	抽速 Pumping Speed		极限真空 Ultimate Vacuum	电机功率 Motor Power	供电 Supply Power	转速 Rotation (50Hz/60Hz)	重量 Weight	噪音 Noise
	m³/h	l/s	Pa	Kw	V	rpm	kg	dB
TVSL 10H	10	2.8	3	0.55	1Px110V 1Px220V 3Px208V 3Px380V 3Px460V	1400/1680	28	62
TVSL 10G			50					
TVSL 10C								
TVSL 20H	20	5.6	3	0.75			30	65
TVSL 20G			50					
TVSL 20C								
TVSL 30H	30	8	3	1.1	48		67	
TVSL 30G			50					
TVSL 30C								
TVSL 40H	40	11	3	1.5	52		68	
TVSL 40G			50					
TVSL 40C								
TVSL 80H	80	22	3	2.2	68	70		
TVSL 80G			50					
TVSL 80C								

说明：H为高真空型(1Pa泵可订货)；G为普通型，适用于无腐蚀性环境；C为化工型，适用于轻度腐蚀性环境

Remark: H: High vacuum model (1Pa Pump available); G: General model, for non-corrosive condition; C: Chemical model, for mildly corrosive condition

性能曲线 Performance Curve



涡旋泵图片 Some Pictures of Scroll Pumps



水平安装涡旋泵
Horizontal Installation

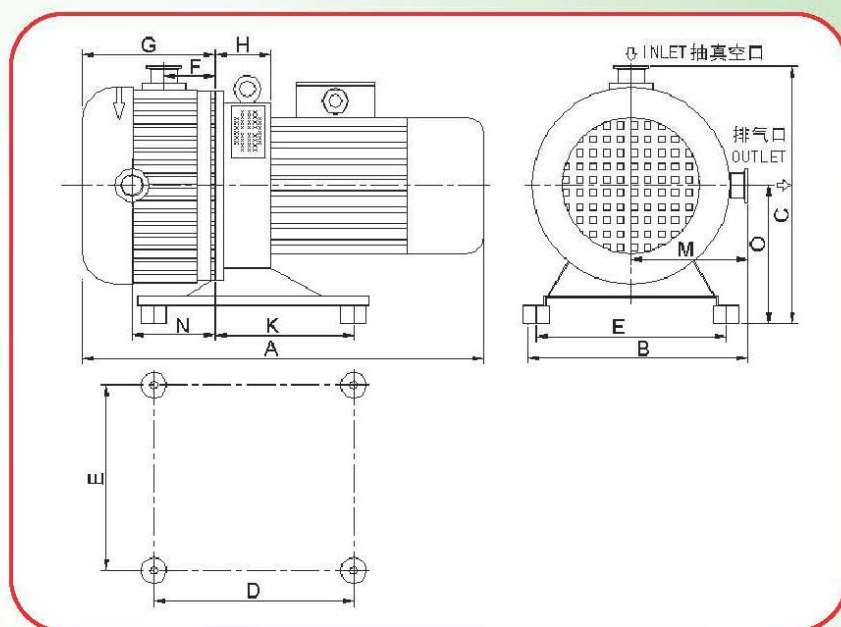


垂直安装涡旋泵
Vertical Installation



配防爆电机的涡旋泵
Pump with Explosion-proof Motor

外形尺寸 Dimension



[Unit:mm]

尺寸Size \ 型号Model	TVSL10	TVSL20	TVSL30	TVSL40	TVSL80
A	465	465	520	560	675
B	290	290	330	330	380
C	335	335	400	400	430
D	230	230	290	290	330
E	230	230	290	290	330
F	55	55	63	70	75
G	150	150	175	190	230
H	75	75	85	85	110
K	182	182	240	240	265
M	155	155	175	175	200
N	95	95	95	110	120
O	175	175	210	210	230
抽真空口 Inlet	KF25	KF25	KF40	KF40	KF40
排气口 Outlet	KF25	KF25	KF25	KF25	KF25

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