



MTS系列 三叶罗茨鼓风机

MTS SERIES TRI-LOBE ROOTS BLOWER



品质源自专业 ■ 诚信铸就明天



山东明天机械有限公司
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山东明天机械有限公司
SHANDONG MINGTIAN MACHINERY CO.,LTD.

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

山东明天机械有限公司座落于著名的机械之乡山东省章丘市相公镇，是一家集科研、生产、销售为一体的专业化企业。公司拥有先进的数控加工中心和检测设备，2007年公司通过ISO9001国际质量体系认证，荣获“消费者满意单位”，“守合同重信用企业”。2008年公司生产的“山鼓”牌系列三叶罗茨鼓风机被评为中国环保机械行业协会重点推介产品，注册商标“山鼓”荣获济南市著名商标。

公司秉承“品质源自专业，诚信铸就明天”的方针，在全国建立起完善的销售和售后服务网络，形成MTS、RSR、MTR高压型、MJ密集型、罗茨真空泵、高负压罗茨真空泵、双极高压型、罗茨蒸汽压缩机等八大系列产品，其流量0.6m³/min-1000m³/min升压9.8kPa-198kPa共63个机型，产品广泛应用于气力输送、水处理、水产养殖、石油化工、冶金、电力、食品、真空包装等多种行业和领域。

遵循“以质量立信誉，以创新求发展”为核心价值观的生产经营理念，以“诚信创新永恒、精品人品同在”的文化理念，坚持以人为本，开拓进取，建成一个技术进步，管理科学，事业繁荣，人才一流的现代化企业，与海内外朋友携手并进、共创美好明天。

COMPANY'S BRIEF INTRODUCTION

Shandong Mingtian Machinery Cot., LTD is situated in the famous town of mechanical processing Xianggong Town, Zhangqiu County, Shandong Province, which is a professional enterprise engaged in integrated scientific research, production and sales. The company owns advanced CNC machining center and testing equipment. In 2007, the Company was authenticated by ISO9001 international quality system and was awarded "consumer satisfactory unit" and was "Observing contract and valuing credit enterprise". In 2008 the company production, "Shan gu" series tri-lobe roots blower was evaluated key recommendation in Chinese Environmental protection Mechanical profession Association, registered trademark "drums" won the Jinan famous trademark.

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 MTS, RSR, MTR high-pressure, MJ compressed and Roots vacuum pump, High-negative pressure Roots vacuum pump, the bipolar high pressure type, Roots vapor compression machine, The product has a flow of 0.6m³/min-450m³/min, a boost of 9.8kpa-198kpa, 63 different types, which is widely used in pneumatic conveying, wastewater treatment, aquaculture, chemical, petroleum, metallurgy, electric power, food vacuum package and many other industries and fields.

Following the production and operation idea "taking reputation based on quality and development based on innovation" as the core, and the cultural idea of "eternal credit and innovation, co-existing product and moral quality". the company is people-orientated and forges ahead to construct a modernized enterprise with advanced technology, scientific management, prosperous business and high-quality talents. The company is willing to cooperate with friends from all over the world to create a happy tomorrow.

山东明天机械有限公司

一言九鼎

企业文化

企业文化的核心是创新

以观念创新为先导

以战略创新为方向

以组织创新为保障

以技术创新为手段

以市场创新为目标

COMPANY CULTURE

Innovation is the core of the company culture

Take idea innovation as the lead

Take strategy innovation as the direction

Take organization innovation as the guarantee

Take technology innovation as the tool

Take market innovation as the target

经营理念

追求优质的产品，完善的服务，保证对客户的承诺；

倾力倡导以诚信待人，以信誉为首要之信念；

遵循“客户至上，诚信至上”的原则

不间断的提升品质，力争全无瑕疵；

技术不断革新，质量精益求精

MANAGEMENT IDEA

Pursue excellent product and perfect services; pledge the promise to our customers.

Strive to advocate the belief of treating people faithfully and being reputation first; Observe the principle of Customer First; Reliability First;

Keep improving product quality and struggle for perfection;

Being innovative on technology and focused On improving product quality.

荣誉证书
HONORARY CERTIFICATE

MTS系列三叶罗茨鼓风机简介

■ 产品简介

MTS系列罗茨鼓风机是山东明天机械有限公司引进国外罗茨风机基础上,应用本公司专有技术自行设计、开发的新产品,该产品在结构和性能上得到大大的改善和提高。是目前世界技术领先产品,是具有最高性价比的产品。

■ 主要优势

- 转速高、效率高、体积小、结构紧凑、性能可靠。
- 主机空冷设计,单级压力98kpa无需冷却水。
- 采用特殊结构设计的机壳,保证高压下运行可靠,减小排气回流脉冲,降低气动噪音。
- 叶轮采用先进结构、高性能三叶复合型线设计,面积利用系数高,保证风机在高速下压力高、流量大,运行平稳。
- 采用精密硬齿面同步齿轮,定位可靠,平稳安静,强度高,寿命长。
- 采用高精度轴承,保证高温、高速下运行可靠。
- 采用特殊密封形式,密封效果好,寿命长。
- 可根据客户需求配套组装机壳,使用风机噪音降至85Db(A)以下,甚至更低。
- 机组可选配罗茨鼓风机专用卸荷阀,与电磁阀配合使用,管路系统没有旁路放空阀时,也可实现风机空负荷启动、停止,方便用户使用。

■ 性能表说明

- 性能表流量 Q_s 对鼓风机是指标准吸气状态(温度 20°C ,绝对压力 101.3kpa ,相对湿度 50%)下介质为空气时的进口流量;对真空泵是指各种真空度下,温度为 20°C 时的进口流量。
- 基准状态(温度 0°C ,绝对压力 101.3kpa ,相对湿度 50%)下的流量 Q_n ,可按下列公式换算成标准吸气状态下的 Q_s 。 $Q_s = Q_n \times 1.0732$
- 进气状态与标准进气状态不符时,流量需进行相应换算。
压力单位换算
 $9.8\text{kpa} = 0.1\text{kgf/cm}^2 = 1000\text{mmH}_2\text{O} = 73.5\text{mmHg} = 1.422\text{psi} = 0.098\text{bar}$
- 流量单位换算
 $1\text{m}^3/\text{min} = 60\text{m}^3/\text{h} = 16.667\text{L/s} = 35.714\text{CFM}$

■ 订货须知

标准配套:主机、进口消音器、出口消音器、皮带轮、皮带、防护罩、泄压阀、单向阀、弹性接头、压力表、减震器、膨胀螺栓(安装方式以图纸交接为准)

选配附件:电机、隔声罩、罗茨风机专用卸荷阀、启动柜



9.8kpa-58.8kpa 机型



68.6kpa-98kpa 机型

MTS系列罗茨鼓风机性能表（1）Performance Table of Series MTS Roots Blowers

型号	口径	转速	理论流量	各排气压下的进口流量Qs(m³/min)、轴功率La(KW) Inlet volume Qs(m³/min) shaft power required La(KW) and motor power Po(KW)																								电机			
																												极数			
				19. 6kPa			29. 4kPa			39. 2kPa			49. 0kPa			58. 8kPa			68. 6kPa			78. 4kPa			88. 2kPa			98. 0kPa			Motor pole
Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po					
MTS11	65	2000	3.94	2.90	1.69	3	2.67	2.33	3	2.47	2.97	4	2.30	3.62	5.5	2.14	4.26	5.5	2.00	4.90	7.5									2	
		2400	4.72	3.69	2.10	3	3.46	2.87	4	3.26	3.64	5.5	3.09	4.41	5.5	2.93	5.19	7.5	2.79	5.96	7.5	2.65	6.73	11					2		
		2750	5.41	4.38	2.48	4	4.14	3.36	5.5	3.95	4.25	5.5	3.78	5.13	7.5	3.62	6.01	7.5	3.48	6.90	11	3.34	7.78	11					2		
		3050	6.00	4.97	2.82	4	4.73	3.80	5.5	4.54	4.78	7.5	4.37	5.76	7.5	4.21	6.74	11	4.07	7.72	11	3.93	8.70	11	3.81	9.7	15			2	
		3500	6.89	5.85	3.35	5.5	5.62	4.47	5.5	5.42	5.60	7.5	5.25	6.72	7.5	5.10	7.85	11	4.95	8.97	11	4.82	10.10	15	4.69	11.2	15			2	
		3950	7.77	6.74	3.90	5.5	6.51	5.17	7.5	6.31	6.44	7.5	6.14	7.71	11	5.98	8.98	11	5.84	10.30	15	5.70	11.50	15	5.58	12.8	15	5.46	14.10	18.5	2
		4400	8.66	7.62	4.48	5.5	7.39	5.90	7.5	7.19	7.31	11	7.02	8.73	11	6.87	10.1	15	6.72	11.60	15	6.59	13.00	18.5	6.46	14.4	18.5	6.35	15.80	18.5	2
	4700	9.25	8.21	4.88	7.5	7.98	6.40	7.5	7.79	7.91	11	7.61	9.42	11	7.46	10.9	15	7.31	12.40	15	7.18	14.00	18.5	7.05	15.5	18.5	6.94	17.00	22	2	
MTS12	80	2000	5.51	4.24	2.26	3	3.96	3.16	4	3.72	4.06	5.5	3.51	4.96	7.5	3.32	5.86	7.5	3.14	6.76	11									2	
		2400	6.61	5.35	2.80	4	5.06	3.88	5.5	4.82	4.96	7.5	4.61	6.04	7.5	4.42	7.12	11	4.24	8.20	11	4.08	9.28	11						2	
		2750	7.58	6.31	3.29	4	6.02	4.53	5.5	5.78	5.77	7.5	5.57	7.01	11	5.38	8.24	11	5.21	9.48	11	5.04	10.70	15	4.89	12.0	15				2
		3050	8.40	7.14	3.73	5.5	6.85	5.10	7.5	6.61	6.47	7.5	6.4	7.85	11	6.21	9.22	11	6.03	10.60	15	5.87	12.00	15	5.72	13.3	18.5				2
		3500	9.64	8.38	4.41	5.5	8.09	5.99	7.5	7.85	7.56	11	7.64	9.14	11	7.45	10.7	15	7.27	12.30	15	7.11	13.90	18.5	6.96	15.4	18.5	6.81	17.00	22	2
		3950	10.88	9.61	5.12	7.5	9.33	6.90	11	9.09	8.68	11	8.88	10.5	15	8.69	12.2	15	8.51	14.00	18.5	8.35	15.80	18.5	8.2	17.6	22	8.05	19.30	22	2
		4400	12.12	10.90	5.86	7.5	10.6	7.84	11	10.3	9.82	15	10.1	11.8	15	9.93	13.8	18.5	9.75	15.80	18.5	9.59	17.70	22	9.43	19.7	30	9.29	21.70	30	2
	4700	12.95	11.70	6.37	7.5	11.4	8.49	11	11.2	10.6	15	10.9	12.7	15	10.8	14.8	18.5	10.6	16.90	22	10.4	19.10	22	10.3	21.2	30	10.10	23.30	30	2	
MTS21	100	2000	10.15	8.46	4.12	5.5	8.08	5.77	7.5	7.76	7.43	11	7.48	9.09	11	7.23	10.70	15	7.00	12.40	15	6.78	14.10	18.5	6.57	15.70	18.5				2
		2400	12.18	10.50	5.20	7.5	10.10	7.19	11	9.79	9.18	11	9.51	11.20	15	9.26	13.20	18.5	9.02	15.10	18.5	8.81	17.10	22	8.60	19.10	22	8.41	21.10	30	2
		2750	13.95	12.30	6.22	7.5	11.90	8.50	11	11.60	10.80	15	11.30	13.10	18.5	11.00	15.30	18.5	10.80	17.60	22	10.60	19.90	30	10.40	22.20	30	10.20	24.50	30	2
		3100	15.73	14.00	7.33	11	13.70	9.90	15	13.30	12.50	15	13.10	15.00	18.5	12.80	17.60	22	12.60	20.20	30	12.40	22.80	30	12.20	25.30	30	12.00	27.90	37	2
		3500	17.76	16.10	8.70	11	15.70	11.60	15	15.40	14.50	18.5	15.10	17.40	22	14.80	20.30	30	14.60	23.20	30	14.40	26.10	30	14.20	29.00	37	14.00	31.90	37	2
		3900	19.79	18.10	10.18	15	17.70	13.40	18.5	17.40	16.60	22	17.10	19.90	30	16.90	23.10	30	16.60	26.30	30	16.40	29.60	37	16.20	32.80	37	16.00	36.00	45	2
		4200	21.31	19.60	11.37	15	19.20	14.90	18.5	18.90	18.30	22	18.60	21.80	30	18.40	25.30	30	18.20	28.80	37	17.90	32.30	37	17.70	35.70	45	17.50	39.20	45	2
MTS22	150	2000	14.01	12.20	5.58	7.5	11.50	7.87	11	11.10	10.20	15	10.80	12.40	15	10.50	14.70	18.5	10.20	17.00	22	9.96	19.30	22	9.71	21.60	30				2
		2400	16.82	14.80	7.02	11	14.30	9.76	11	13.90	12.50	15	13.60	15.30	18.5	13.30	18.00	22	13.00	20.80	30	12.80	23.50	30	12.50	26.20	30	12.30	29.00	37	2
		2750	19.27	17.20	8.38	11	16.80	11.50	15	16.40	14.70	18.5	16.10	17.80	22	15.80	21.00	30	15.50	24.10	30	15.20	27.30	37	15.00	30.40	37	14.70	33.60	45	2
		3100	21.72	19.70	9.84	15	19.20	13.40	18.5	18.90	16.90	22	18.50	20.50	30	18.20	24.00	30	17.90	27.60	37	17.70	31.10	37	17.40	34.70	45	17.20	38.20	45	2
		3500	24.52	22.50	11.60	15	22.00	15.60	18.5	21.70	19.70	30	21.30	23.70	30	21.00	27.70	37	20.70	31.70	37	20.50	35.70	45	20.20	39.70	45	20.00	43.70	55	2
		3900	27.33	25.30	13.60	18.5	24.80	18.00	22	24.50	22.50	30	24.10	27.00	37	23.80	31.40	37	23.50	35.90	45	23.30	40.40	45	23.00	44.80	55	22.80	49.30	55	2
		4200	29.43	27.40	15.10	18.5	26.90	19.90	30	26.60	24.70	30	26.20	29.60	37	25.90	34.40	45	25.60	39.20	45	25.40	44.00	55	25.10	48.80	55				2

MTS系列罗茨鼓风机性能表（3）Performance Table of Series MTS Roots Blowers

型号	口径	转速	理论流量	各排气压下的进口流量Qs(m³/min)、轴功率La(KW) Inlet volume Qs(m³/min) shaft power required La(KW) and motor power Po(KW)																								电机			
				19. 6kPa			29. 4kPa			39. 2kPa			49. 0kPa			58. 8kPa			68. 6kPa			78. 4kPa			88. 2kPa			98. 0kPa			极数
				Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Motor pole
MTS33	200	1480	43.49	38.60	16.70	22	37.50	23.8	30	36.50	30.90	37	35.70	38.00	45	35.00	45.20	55													4
		1680	49.36	44.50	19.50	30	43.30	27.6	37	42.40	35.70	45	41.60	43.70	55	40.90	51.80	75													4
		1880	55.24	50.30	22.50	30	49.20	31.5	37	48.30	40.50	45	47.50	49.60	55	46.70	58.60	75													4
		2120	62.29	57.40	26.20	30	56.30	36.4	45	55.30	46.60	55	54.50	56.80	75	53.80	67.00	75													2
		2370	69.64	64.70	30.40	37	63.60	41.8	55	62.70	53.20	75	61.90	64.50	75	61.10	75.90	90													2
		2650	77.86	73.00	35.40	45	71.90	48.1	55	70.90	60.90	75	70.10	73.60	90	69.40	86.30	110													2
		2800	82.27	77.40	38.20	45	76.30	51.7	75	75.30	65.10	75	74.50	78.60	90	73.80	92.00	110													2
MTS41	200	970	44.00	36.60	17.8	22	35.00	25.10	30	33.90	32.50	45	32.90	39.90	55	32.00	47.30	55	31.30	54.70	75	30.70	62.00	75	30.20	69.40	90	29.80	76.80	90	4
		1250	56.70	49.50	22.9	30	48.00	32.40	45	46.80	41.90	55	45.90	51.40	75	45.10	60.80	75	44.40	70.30	90	43.80	79.80	110	43.30	89.30	110	42.80	98.70	132	4
		1450	65.80	58.70	26.3	37	57.30	37.30	45	56.10	48.30	55	55.20	59.30	75	54.50	70.30	90	53.70	81.30	110	53.10	92.30	110	52.60	103	132	52.10	114.00	132	4
		1600	72.60	65.60	28.9	37	64.20	41.00	55	63.10	53.20	75	62.10	65.30	75	61.30	77.40	90	60.70	89.50	110	60.10	102.00	132	59.60	114	132	59.10	126.00	160	4
		1750	79.40	72.50	31.5	37	71.10	44.80	55	70.00	58.10	75	69.10	71.30	90	68.30	84.60	110	67.60	97.90	132	67.10	111.00	132	66.60	124	160	66.10	138.00	160	4
		1900	86.20	79.50	34.2	45	78.10	48.60	55	77.00	63.00	75	76.10	77.50	90	75.30	91.90	110	74.60	106.00	132	74.10	121.00	160	73.60	135	160	73.10	150.00	185	4
		2050	93.00	86.40	36.8	45	85.00	52.30	75	83.90	67.90	90	83.00	83.50	110	82.30	99.10	132	81.60	115.00	160	81.00	130.00	160	80.50	146	185	80.10	161.00	185	4
MTS42	250	970	56.10	47.50	22.20	30	45.80	31.50	37	44.50	40.90	55	43.50	50.20	75	42.60	59.60	75	42.00	68.90	90	41.40	78.20	90							4
		1250	72.30	63.90	28.50	37	62.30	40.60	55	61.10	52.70	75	60.10	64.80	75	59.20	76.80	90	58.60	88.90	110	58.00	101.00	132							4
		1450	83.80	75.70	32.80	45	74.10	46.80	55	72.90	60.90	75	71.90	74.90	90	71.10	89.00	110	70.40	103.00	132	69.90	117.00	160							4
		1600	92.50	84.50	36.20	45	83.00	51.70	75	81.80	67.20	90	80.80	82.80	110	80.00	98.30	132	79.30	114.00	132	78.80	129.00	160							4
		1750	101.00	93.40	39.50	55	91.80	56.50	75	90.60	73.50	90	89.70	90.50	110	88.90	108	132	88.20	125.00	160	87.70	142.00	160							4
		1900	110.00	102.00	43.00	55	101.0	61.50	75	99.50	80.10	110	98.60	98.60	132	97.80	117	160	97.10	136.00	160	96.60	154.00	185							4
		2050	119.00	111.00	46.50	55	110.0	66.60	90	108.0	86.70	110	107.0	107	132	106.7	127	160	106.0	147.00	185	105.5	167.00	200							4

MTS-V系列罗茨真空泵性能表（1）Performance Table of Series MTS-V Roots Vacuum Pumps

型号	口径	转速	理论流量	各排气压下的进口流量Qs(m³/min)、轴功率La(KW) Inlet volume Qs(m³/min) shaft power required La(KW) and motor power Po(KW)																								电机			
																												极数			
				-9. 8kPa			-14. 7kPa			-19. 6kPa			-24. 5kPa			-29. 4kPa			-34. 3kPa			-39. 2kPa			-44. 1kPa			-49. 0kPa			Motor pole
Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po		
MTS11V	65	2000	3.94	3.17	1.04	1.5	2.97	1.36	2.2	2.78	1.69	2.2	2.61	2.01	3	2.43	2.33	3	2.25	2.65	4										2
		2400	4.72	3.95	1.33	2.2	3.75	1.71	3	3.57	2.10	3	3.39	4.48	4	3.22	2.87	4	3.04	3.26	4	2.85	3.64	5.5							2
		2750	5.41	4.64	1.59	2.2	4.44	2.04	3	4.26	2.48	4	4.08	2.92	4	3.91	3.36	5.5	3.73	3.80	5.5	3.54	4.25	5.5							2
		3050	6.00	5.23	1.84	3	5.03	2.33	3	4.85	2.82	4	4.67	3.31	5.5	4.50	3.80	5.5	4.32	4.29	5.5	4.13	4.78	7.5	3.94	5.3	7.5				2
		3500	6.89	6.12	2.22	3	5.92	2.78	4	5.74	3.35	5.5	5.56	3.91	5.5	5.38	4.47	5.5	5.20	5.03	7.5	5.02	5.60	7.5	4.82	6.2	7.5				2
		3950	7.77	7.00	2.63	4	6.80	3.27	4	6.62	3.90	5.5	6.44	4.54	7.5	6.27	5.17	7.5	6.09	5.81	7.5	5.90	6.44	7.5	5.71	7.1	11	5.50	7.70	11	2
		4400	8.66	7.89	3.07	4	7.69	3.78	5.5	7.51	4.48	5.5	7.33	5.19	7.5	7.15	5.9	7.5	6.98	6.60	7.5	6.79	7.31	11	6.59	8.0	11	6.38	8.70	11	2
		4700	9.25	8.48	3.37	5.5	8.28	4.13	5.5	8.10	4.88	7.5	7.92	5.64	7.5	7.74	6.4	7.5	7.57	7.15	11	7.38	7.91	11	7.18	8.7	11	6.97	9.40	11	2
MTS12V	80	2000	5.51	4.57	1.36	2.2	4.32	1.81	3	4.1	2.26	3	3.88	2.71	4	3.67	3.16	4	3.45	3.61	5.5										2
		2400	6.61	5.67	1.72	3	5.43	2.26	3	5.2	2.8	4	4.99	3.34	5.5	4.77	3.88	5.5	4.55	4.42	5.5	4.32	4.96	7.5	5.05	6.4	7.5				2
		2750	7.58	6.63	2.05	3	6.39	2.67	4	6.17	3.29	4	5.95	3.91	5.5	5.73	4.53	7.5	5.52	5.15	7.5	5.29	5.77	7.5	5.05	6.4	7.5				2
		3050	8.40	7.46	2.36	3	7.22	3.04	4	6.99	3.73	5.5	6.78	4.42	5.5	6.56	5.1	7.5	6.34	5.79	7.5	6.12	6.47	7.5	5.87	7.2	11				2
		3500	9.64	8.70	2.83	4	8.46	3.62	5.5	8.23	4.41	5.5	8.02	5.2	7.5	7.8	5.99	7.5	7.58	6.77	7.5	7.35	7.56	11	7.11	8.3	11	6.86	9.10	11	2
		3950	10.88	9.94	3.34	5.5	9.7	4.23	5.5	9.47	5.12	7.5	9.26	6.01	7.5	9.04	6.9	11	8.82	7.79	11	8.59	8.68	11	8.35	9.6	11	8.10	10.50	15	2
		4400	12.12	11.20	3.88	5.5	10.9	4.87	7.5	10.7	5.86	7.5	10.5	6.85	11	10.3	7.84	11	10.1	8.83	11	9.83	9.82	15	9.59	10.8	15	9.33	11.80	15	2
		4700	12.95	12.00	4.26	5.5	11.8	5.31	7.5	11.5	6.37	7.5	11.3	7.43	11	11.1	8.49	11	10.9	9.55	11	10.7	10.60	15	10.4	11.7	15	10.20	12.70	15	2
MTS21V	100	2000	10.15	8.89	2.46	4	8.57	3.29	4	8.27	4.12	5.5	7.98	4.95	7.5	7.70	5.77	7.5	7.41	6.60	7.5	7.10	7.43	11	6.78	8.26	11				2
		2400	12.18	10.90	3.21	4	10.60	4.20	5.5	10.30	5.20	7.5	10.00	6.19	7.5	9.73	7.19	11	9.44	8.20	11	9.13	9.20	11	8.81	10.20	15	8.47	11.20	15	2
		2750	13.95	12.70	3.94	5.5	12.40	5.08	7.5	12.10	6.22	7.5	11.80	7.36	11	11.50	8.50	11	11.20	9.60	11	10.90	10.80	15	10.60	11.90	15	10.20	13.10	18.5	2
		3100	15.73	14.50	4.76	7.5	14.20	6.05	7.5	13.90	7.33	11	13.60	8.62	11	13.30	9.90	15	13.00	11.20	15	12.70	12.50	15	12.40	13.80	18.5	12.00	15.00	18.5	2
		3500	17.76	16.50	5.80	7.5	16.20	7.25	11	15.90	8.70	11	15.60	10.20	15	15.30	11.60	15	15.00	13.10	18.5	14.70	14.50	18.5	14.40	16.00	18.5	14.10	17.40	22	2
		3900	19.79	18.50	6.95	11	18.20	8.57	11	17.90	10.20	15	17.60	11.80	15	17.30	13.40	18.5	17.00	15.00	18.5	16.70	16.60	22	16.40	18.30	22	16.10	19.90	30	2
		4200	21.31	20.10	7.89	11	19.70	9.63	11	19.40	11.40	15	19.10	13.10	18.5	18.90	14.90	18.5	18.60	16.60	22	18.30	18.30	22	17.90	20.10	30	17.60	21.80	30	2
		MTS22V	150	2000	14.01	12.50	3.29	5.5	12.10	4.43	5.5	11.80	5.58	7.5	11.40	6.72	11	11.10	7.87	11	10.70	9.01	11	10.40	10.20	15	9.97	11.30	15		
2400	16.82			15.30	4.27	5.5	14.90	5.64	7.5	14.60	7.02	11	14.20	8.39	11	13.90	9.76	11	13.50	11.10	15	13.20	12.50	15	12.80	13.90	18.5	12.40	15.30	18.5	2
2750	19.27			17.80	5.23	7.5	17.40	6.80	11	17.00	8.38	11	16.70	9.95	15	16.30	11.50	15	16.00	13.10	18.5	15.60	14.70	18.5	15.20	16.20	18.5	14.80	17.80	22	2
3100	21.72			20.20	6.29	7.5	19.80	8.06	11	19.50	9.84	15	19.10	11.60	15	18.80	13.40	18.5	18.40	15.20	18.5	18.10	16.90	22	17.70	18.70	22	17.30	20.50	30	2
3500	24.52			23.00	7.63	11	22.60	9.63	11	22.30	11.60	15	21.90	13.60	18.5	21.60	15.60	18.5	21.20	17.60	22	20.90	19.70	30	20.50	21.70	30	20.10	23.70	30	2
3900	27.33			25.80	9.11	11	25.40	11.30	15	25.10	13.60	18.5	24.70	15.80	18.5	24.40	18.00	22	24.00	20.30	30	23.70	22.50	30	23.30	24.70	30	22.90	27.00	37	2
4200	29.43			27.90	10.30	15	27.50	12.70	15	27.20	15.10	18.5	26.80	17.50	22	26.50	19.90	30	26.10	22.30	30	25.80	24.70	30	25.40	27.10	37	25.00	29.60	37	2

MTS-V系列罗茨真空泵性能表（2）Performance Table of Series MTS-V Roots Vacuum Pumps

型号 Type	口径 Bore mm	转速 Speed r/min n	理论流量 Theoretical volume m³/min Q _{th}	各排气压下的进口流量Qs(m³/min)、轴功率La(KW) Inlet volume Qs(m³/min) shaft power required La(KW) and motor power Po(KW)																								电机			
				-9. 8kPa			-14. 7kPa			-19. 6kPa			-24. 5kPa			-29. 4kPa			-34. 3kPa			-39. 2kPa			-44. 1kPa			-49. 0kPa			极数
				Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Motor pole
MTS23V	150	2000	18.36	16.50	4.10	5.5	16.00	5.60	7.5	15.60	7.10	11	15.10	8.60	11	14.70	10.10	15	14.30	11.60	15	13.80	13.10	18.5	13.30	14.60	18.5	12.80	16.10	18.5	2
		2400	22.03	20.20	5.27	7.5	19.70	7.10	11	19.20	8.90	11	18.80	10.70	15	18.40	12.50	15	17.90	14.30	18.5	17.50	16.10	18.5	17.00	17.90	22	16.50	19.70	30	2
		2750	25.25	23.40	6.41	7.5	22.90	8.50	11	22.40	10.50	15	22.00	12.60	15	21.60	14.70	18.5	21.10	16.70	22	20.70	18.80	22	20.20	20.90	30	19.70	22.90	30	2
		3100	28.46	26.60	7.66	11	26.10	10.00	15	25.70	12.30	15	25.20	14.60	18.5	24.80	17.00	22	24.40	19.30	22	23.90	21.60	30	23.40	23.90	30	22.90	26.30	30	2
		3500	32.13	30.30	9.24	11	29.80	11.90	15	29.30	14.50	18.5	28.90	17.10	22	28.50	19.70	30	28.00	22.40	30	27.60	25.00	30	27.10	27.60	37	26.60	30.20	37	2
		3900	35.81	33.90	11.00	15	33.40	13.90	18.5	33.00	16.80	22	32.60	19.70	30	32.10	22.70	30	31.70	25.60	30	31.20	28.50	37	30.80	31.40	37	30.30	34.40	45	2
		4200	38.56	36.70	12.40	18.5	36.20	15.50	18.5	35.70	18.70	22	35.30	21.80	30	34.90	25.00	30	34.50	28.10	37	34.00	31.30	37	33.50	34.40	45	33.00	37.60	45	2
MTS31V	150	1620	27.90	22.32	12.76	15	22.12	14.36	18.5	21.92	15.95	22	21.76	18.05	22	21.60	20.14	22	21.43	22.34	30	21.25	24.54	30	21.11	26.75	30	20.97	28.96	37	4
		1780	30.66	25.09	14.41	18.5	24.89	16.26	18.5	24.69	18.10	22	24.53	20.47	22	24.37	22.84	30	24.19	25.38	30	24.01	27.91	30	23.87	30.30	37	23.73	32.68	37	4
		1940	33.42	27.86	16.43	18.5	27.66	18.36	22	27.46	20.29	30	27.30	22.98	30	27.14	25.66	30	26.96	28.50	30	26.78	31.33	37	26.64	34.01	37	26.49	36.68	45	4
		2140	36.86	31.27	18.57	22	31.07	20.83	22	30.87	23.08	30	30.71	26.11	30	30.54	29.14	37	30.32	32.19	37	30.10	35.24	37	29.99	38.27	45	29.88	41.29	45	2
		2260	38.93	33.26	21.17	22	33.06	22.96	30	32.86	24.75	30	32.70	28.05	30	32.53	31.34	37	32.34	34.59	37	32.15	37.84	45	32.01	41.07	45	31.86	44.30	55	2
		2400	41.34	35.60	24.13	30	35.40	25.44	30	35.20	26.74	30	35.03	30.33	37	34.86	33.91	37	34.67	37.40	45	34.48	40.89	45	34.33	44.19	55	34.18	47.48	55	2
		2600	44.78	38.97	27.03	30	38.77	28.35	37	38.57	29.66	37	38.40	33.40	37	38.22	37.13	45	38.03	40.97	45	37.83	44.81	55	37.68	48.63	55	37.52	52.44	75	2
MTS32V	200	1480	31.84	29.00	7.04	11	28.30	9.64	11	27.60	12.20	15	27.00	14.80	18.5	26.30	17.40	22	25.70	20.00	30	25.00	22.70	30	24.30	25.30	30	23.50	27.90	37	4
		1680	36.14	33.30	8.39	11	32.60	11.30	15	31.90	14.30	18.5	31.30	17.20	22	30.60	20.20	30	30.00	23.20	30	29.30	26.10	30	28.60	29.10	37	27.80	32.00	37	4
		1880	40.44	37.60	9.85	15	36.90	13.20	18.5	36.20	16.50	22	35.60	19.80	30	34.90	23.10	30	34.30	26.40	30	33.60	29.70	37	32.90	33.00	37	32.10	36.30	45	4
		2120	45.61	42.80	11.80	15	42.10	15.50	18.5	41.40	19.20	22	40.70	22.90	30	40.10	26.70	30	39.50	30.40	37	38.80	34.10	45	38.10	37.80	45	37.30	41.60	55	2
		2370	50.98	48.20	13.90	18.5	47.40	18.10	22	46.80	22.30	30	46.10	26.40	30	45.50	30.60	37	44.80	34.80	45	44.10	38.90	45	43.40	43.10	55	42.70	47.20	55	2
		2650	57.01	54.20	16.60	22	53.50	21.30	30	52.80	25.90	30	52.10	30.60	37	51.50	35.20	45	50.90	39.90	45	50.20	44.50	55	49.50	49.20	55	48.70	53.90	75	2
		2800	60.23	57.40	18.10	22	56.70	23.10	30	56.00	28.00	37	55.40	32.90	37	54.70	37.80	45	54.10	42.70	55	53.40	47.70	55	52.70	52.60	75	51.90	57.50	75	2

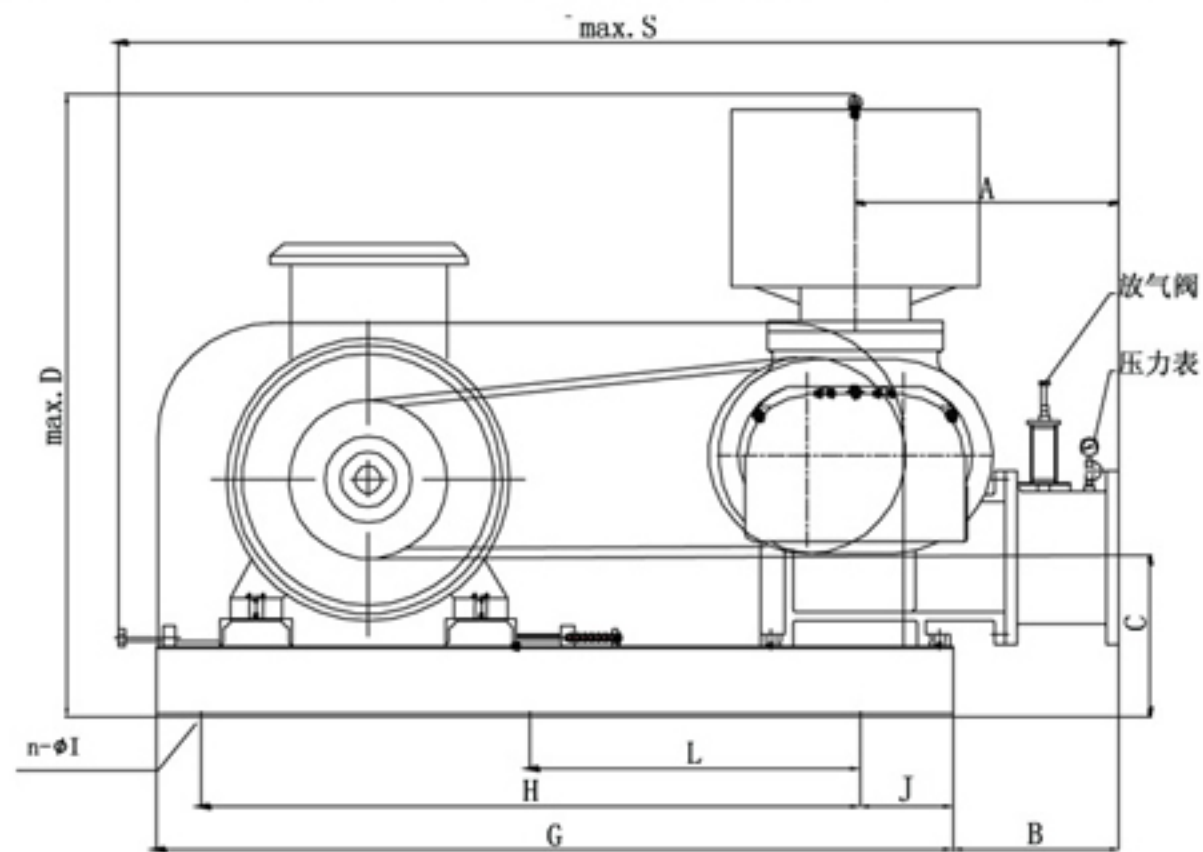
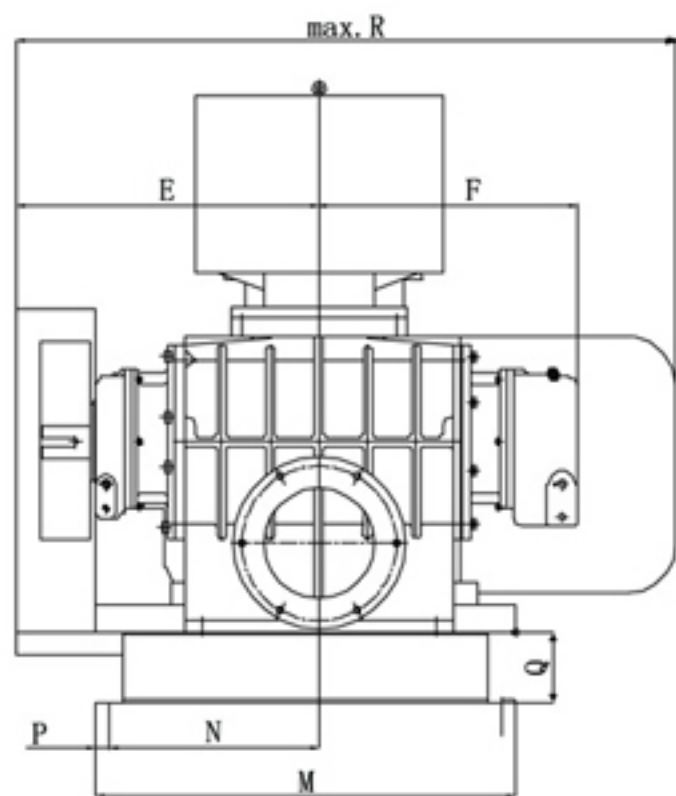
MTS-V系列罗茨真空泵性能表（3）Performance Table of Series MTS-V Roots Vacuum Pumps

型号 Type	口径 Bore mm	转速 Speed r/min n	理论流量 Theoretical volume m³/min Q _{th}	各排气压下的进口流量Qs(m³/min)、轴功率La(KW) Inlet volume Qs(m³/min) shaft power required La(KW) and motor power Po(KW)																												电机 极数
				-9. 8kPa			-14. 7kPa			-19. 6kPa			-24. 5kPa			-29. 4kPa			-34. 3kPa			-39. 2kPa			-44. 1kPa			-49. 0kPa			Motor pole	
				Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po		
MTS33V	200	1480	43.49	39.80	9.60	15	38.90	13.20	18.5	38.00	16.70	22	37.20	20.30	30	36.30	23.80	30	35.50	27.40	37	34.60	30.90	37	33.70	34.50	45	32.70	38.00	45	4	
		1680	49.36	45.70	11.50	15	44.80	15.50	18.5	43.90	19.50	22	43.10	23.60	30	42.20	27.60	37	41.40	31.60	37	40.50	35.70	45	39.60	39.70	45	38.60	43.70	55	4	
		1880	55.24	51.60	13.50	18.5	50.60	18.00	22	49.80	22.50	30	48.90	27.00	37	48.10	31.50	37	47.30	36.00	45	46.40	40.50	45	45.40	45.00	55	44.40	49.60	55	4	
		2120	62.29	58.60	16.10	18.5	57.70	21.20	30	56.80	26.20	30	56.00	31.30	37	55.20	36.40	45	54.30	41.50	55	53.40	46.60	55	52.50	51.70	75	51.50	56.80	75	2	
		2370	69.64	66.00	19.00	22	65.00	24.70	30	64.20	30.40	37	63.30	36.10	45	62.50	41.80	55	61.70	47.50	55	60.80	53.20	75	59.80	58.90	75	58.80	64.50	75	2	
		2650	77.86	74.20	22.70	30	73.30	29.00	37	72.40	35.40	45	71.60	41.80	55	70.70	48.10	55	69.90	54.50	75	69.00	60.90	75	68.10	67.20	75	67.10	73.60	90	2	
		2800	82.27	78.60	24.80	30	77.70	31.50	37	76.80	38.20	45	76.00	45.00	55	75.10	51.70	75	74.30	58.40	75	73.40	65.10	75	72.50	71.80	90	71.50	78.60	90	2	
MTS41V	200	970	44.00	38.30	10.40	15	37.00	14.1	18.5	35.70	17.80	22	34.50	21.45	30	33.30	25.10	30	32.10	28.80	37	30.90	32.50	45							4	
		1250	56.70	51.20	13.50	18.5	49.90	18.2	22	48.60	22.90	30	47.45	27.65	30	46.30	32.40	45	45.15	37.15	45	44.00	41.90	55	42.70	46.65	55	41.40	51.40	75	4	
		1450	65.80	60.40	15.40	18.5	59.15	20.85	22	57.90	26.30	37	56.75	31.80	37	55.60	37.30	45	54.45	42.80	45	53.30	48.30	55	52.05	53.80	75	50.80	59.30	75	4	
		1600	72.60	67.30	16.80	22	66.05	22.85	30	64.80	28.90	37	63.70	34.95	37	62.60	41.00	55	61.45	47.10	55	60.30	53.20	75	59.05	59.25	75	57.80	65.30	75	4	
		1750	79.30	74.20	18.30	22	72.95	24.9	30	71.70	31.50	37	70.60	38.15	45	69.50	44.80	55	68.40	51.45	55	67.30	58.10	75	66.10	64.70	90	64.90	71.30	90	4	
		1900	86.10	81.10	19.80	30	79.85	27	30	78.60	34.20	45	77.55	41.40	45	76.50	48.60	55	75.40	55.80	75	74.30	63.00	75	73.10	70.25	90	71.90	77.50	90	4	
		2050	92.90	88.00	21.20	30	86.80	29	37	85.60	36.80	45	84.55	44.55	55	83.50	52.30	75	82.40	60.10	75	81.30	67.90	90	80.10	75.70	90	78.90	83.50	110	4	
MTS42V	250	970	56.00	49.50	12.9	15	47.95	17.55	22	46.40	22.20	30	45.10	26.85	30	43.80	31.50	37	42.50	36.20	45	41.20	40.90	55	39.75	45.55	55	38.30	50.20	75	4	
		1250	72.20	65.90	16.4	22	64.40	22.45	30	62.90	28.50	37	61.65	34.55	45	60.40	40.60	55	59.10	46.65	55	57.80	52.70	75	56.45	58.75	75	55.10	64.80	75	4	
		1450	83.80	77.50	18.7	22	76.10	25.75	30	74.70	32.80	45	73.45	39.80	45	72.20	46.80	55	70.95	53.85	55	69.70	60.90	75	68.35	67.90	75	67.00	74.90	90	4	
		1600	92.50	86.40	20.6	30	85.00	28.4	37	83.60	36.20	45	82.35	43.95	55	81.10	51.70	75	79.90	59.45	75	78.70	67.20	90	77.35	75.00	90	76.00	82.80	110	4	
		1750	101.10	95.20	22.5	30	93.80	31	37	92.40	39.50	55	91.20	48.00	55	90.00	56.50	75	88.80	65.00	75	87.60	73.50	90	86.30	82.00	90	85.00	90.50	110	4	
		1900	109.80	104.00	24.5	30	102.50	33.75	45	101.00	43.00	55	99.95	52.25	75	98.90	61.50	90	97.70	70.80	90	96.50	80.10	110	95.20	89.35	110	93.90	98.60	132	4	
		2050	118.50	112.80	26.4	37	111.45	36.45	45	110.10	46.50	55	108.95	56.55	75	107.80	66.60	90	106.65	76.65	90	105.50	86.70	110	104.20	96.85	110	102.90	107.00	132	4	

MTS系列低压罗茨鼓风机外形尺寸图

Performance Table of Series MTS Roots Blowers

注：（9.8kpa-58.8kpa）



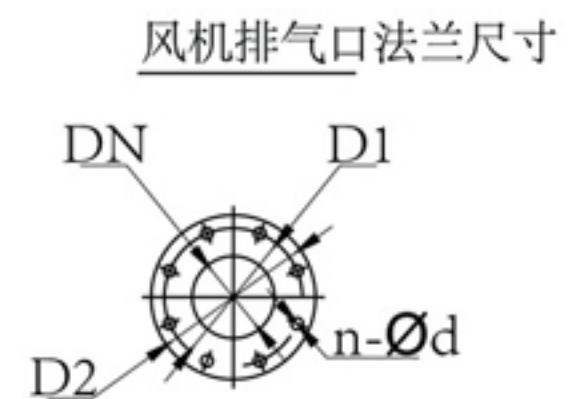
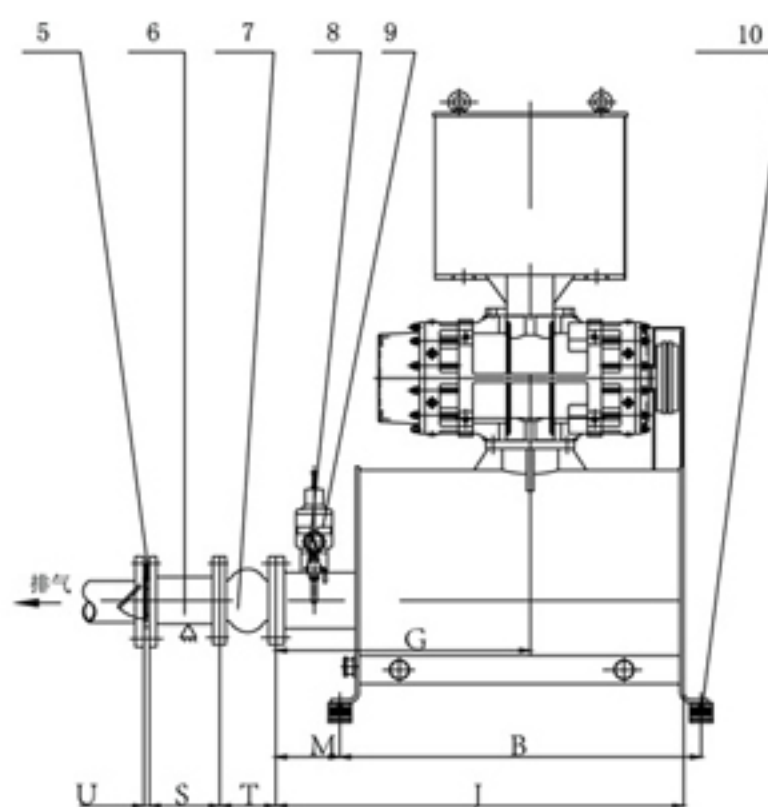
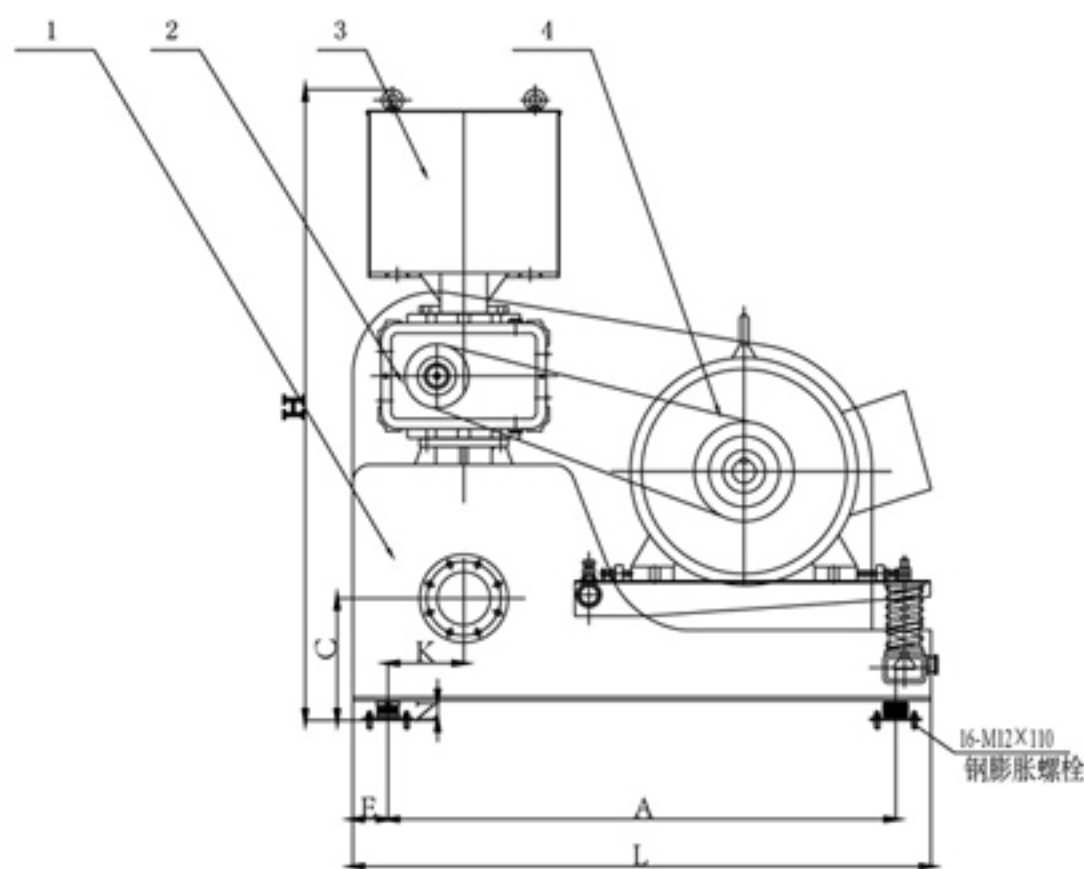
型式Type	记号Mark	口径Bore	A	B	C	D	E	F	G	H	J
S11		65	255	160	150	600	245	221	800	580	100
S12		80	260	165	160	610	255	246	910	700	110
S21		100	310	205	180	700	340	280	1010	700	110
S22		150	335	225	205	860	408	313	1050	750	160
S23		150	335	225	205	860	453	358	1200	750	160
S31		150	400	240	230	995	450	375	1200	750	160
S32		200	430	270	250	1100	500	435	1200	750	160
S33		200	440	280	250	1100	532	480	1330	1000	180
S41		200	500	285	290	1220	605	515	1330	1000	180
S42		250	595	375	360	1407	685	587	1500	1000	215

型式Type	记号Mark	口径Bore	L	M	N	P	Q	n-φI	R	S	重量(kg)
S11		65		470	145	20	100	4-φ18	700	960	170
S12		80	350	500	170	20	100	6-φ18	750	1100	190
S21		100	350	590	240	20	100	6-φ18	900	1215	330
S22		150	375	590	270	20	100	6-φ18	950	1275	360
S23		150	375	700	305	20	100	6-φ18	1050	1425	405
S31		150	375	700	325	20	120	6-φ18	1050	1550	771
S32		200	375	700	363	25	120	6-φ18	1050	1550	860
S33		200	500	755	395	25	120	6-φ18	1150	1700	940
S41		200	500	755	420	30	160	6-φ18	1290	1765	1480
S42		250	500	950	475	30	160	6-φ22	1550	2000	2150

MTS系列高压罗茨鼓风机外形尺寸图

Performance Table of Series MTS Roots Blowers

注：（68.6kpa-98kpa）



- 1、出口消音器
- 2、风机
- 3、进口消音器CF
- 4、电机
- 5、逆止阀H74W-1C
- 6、短管
- 7、弹性接头 KXT-III
- 8、压力表 YN60
- 9、放气阀 SVF
- 10、减震器 JSD

主机型号	A	B	C	DN	D1	D2	n-φd	E	G	H	J	K	L	M	N	S	T	U	机组最大重量
S11	620	620	337	65	160	200	8-φ18	80	780	1272	960	50	900	180	85	400	135	17	700
S12	620	620	337	80	160	200	8-φ18	80	780	1272	960	50	900	180	85	400	135	17	750
S21	670	620	357	100	180	220	8-φ18	125	580	1432	960	55	1000	190	95	400	150	17	900
S22	1000	840	367	150	240	285	8-φ22	125	765	1617	1165	125	1280	218	95	400	180	19	1000
S23	1000	840	367	150	240	285	8-φ22	125	720	1617	1165	125	1280	218	95	400	180	19	1040
S31	1000	840	367	150	240	285	8-φ22	125	715	1767	1185	125	1280	218	95	400	180	19	1200
S32	1200	1060	456	200	295	340	8-φ22	130	920	2076	1470	180	1550	263	124	400	190	20	2200
S33	1200	1060	456	200	295	340	8-φ22	130	840	2076	1470	180	1550	263	124	400	190	20	2300
S41	1900	1445	429	200	295	340	8-φ22	125	860	2328	1480	300	2155	263	124	400	190	20	3000
S42	1900	1445	429	250	350	395	12-φ22	125	790	2348	1480	300	2155	263	124	400	230	20	3200

智能机组简介

INTELLIGENCE UNIT BRIEFING

机电一体化智能机组是公司开发的具有智能自动控制系统的MTS系列罗茨鼓风机机组，该机组集罗茨鼓风机、电动机、智能监控启动柜、隔声罩、无负荷气动阀、泄压阀、单向阀、减震器、弹性接头等于一体，具有结构紧凑、外形美观、安装操作方便、自动化程度高，启动运行实现一键式操作等优点，主要特点如下：



1、采用PLC控制，实时监测显示罗茨鼓风机的运行状态（电流、压力、温度、油位等），根据风机运行参数的变化，PLC自动发出指令，使机组的阀门、开关、警报器等自动操作，确保罗茨鼓风机的安全运行。同时PLC系统具有储存运行记录和数据远程传递功能，实现对罗茨鼓风机的远程监控。

2、智能监控系统可提供文本屏、触摸屏等多种形式的人机界面，界面友好，易于操作。一次按键即可实现无负荷启动、运行、加载到正常工作的全部过程，按一下停机键，则可实现无负荷自动停机，而省去了传统的多次多个阀门操作。

3、采用软启动器及无负荷启动阀，罗茨鼓风机无负荷启动、停机平稳，省去了传统的放空系统，系统简单、紧凑，操作方便。隔声罩内设自动照明设置，门开灯亮，门关灯灭；并且可配置自动感温控制的通风系统，当罩内温度高于设定温度时，通风系统会自动启动，进行通风降温。

4、一体化拆装结构，安装、维修、使用方便。

生产设备 Production equipment



日本三丰三坐标测量系统
Japan sanfeng san coordinate measurement system



数控车床 CNC lathe



先进的设备
完善的工艺
确保您所需产品的高性价比
advanced equipments
perfect technics
is insuring the high performance-price ratio of products that you need



中捷TPX6113/2镗床
Zhongjie TPX6113/2 Boring Machine



数控龙门刨床 NC Longmen planing machine



汉川镗床 Hanchuan boring Machine



VC-168加工中心
VC - 168 machining center machines