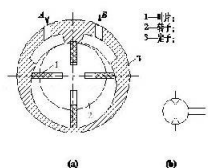


叶片式气动马达说明 Type vane pneumatic motor Explain



V气动马达的工作原理及用途 Tpe vane pneumatic motor principle of work and use



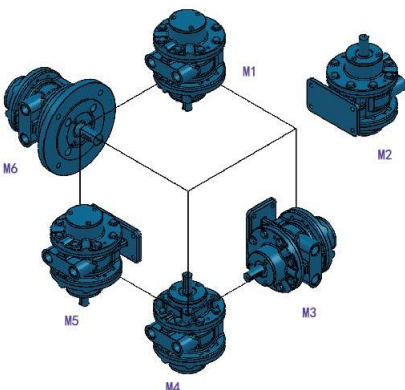
叶片式气动马达的工作原理如图所示是双向叶片式气动马达的工作原理。压缩空气由A孔输入，小部分经定子两端的密封盖的槽进入叶片底部(图中未表示)，将叶片推出，使叶片贴紧在定子内壁上，大部分压缩空气进入相应的密封空间而作用在两个叶片上。由于两叶片伸出长度不等，因此，就产生了转矩差，使叶片与转子按逆时针方向旋转，作功后的气体由定子上的孔B排出。

若改变压缩空气的输入方向(即压缩空气由B孔进入，从孔A孔排出)则可改变转子的转向。图-1双向旋转的叶片式马达(a)结构；(b)职能符号

Vane pneumatic motor principle of work as shown is the working principle of two-way blade type pneumatic motor. Compressed air from A hole input, a small number of thesealing cover at the ends of the stator slot into the bottom of the blade (pictured), will launch, blade to blade against on the stator inner surface, most of the compressed air into the corresponding sealed space and function on the two blades. As the two blade length ranging from, therefore, produces a torque difference, blades and rotors rotate in a counter-clockwise direction, after the work of gas discharge through hole b on the stator.

If change the direction of the input of compressed air (namely hole into the compressed air by B, ejection from the hole A hole) can change the turning of the rotor.

马达的安装位置 Installation position diagram of pneumatic motor



叶片式气动马达型号说明 Type vane pneumatic motor Explain



行星式气动马达分解图 Planetary-type motor decomposition map

微型气动马达特点 Miniature pneumatic motor characteristics

- ※ 低气压启动, 耗气量小
- ※ 大功率 小体积
- ※ 高扭矩 小体积
- ※ 高转速 小体积
- ※ 外形简洁紧凑
- ※ 频繁启动, 频繁停机
- ※ 高适应性
- ※ 无级调速, 调节流量控制转速 简单调节扭力, 控制简单
- ※ 规格全, 品种多
- ※ 简单的结构, 长久耐用性、高可靠性
- ※ 高精度 定位精确
- ※ 具有防爆性能
- ※ 易维护、维修简单
- ※ The low pressure start, small consumption
- ※ The mental power of compact size
- ※ Does high torque is small volume
- ※ Does the high speed of compact size
- ※ Does appearance concise and compact
- ※ Does the frequent start, frequent downtime
- ※ High adaptability
- ※ Variable speed, adjust easily adjust flow control speed torque control
- ※ All specifications, many varieties
- ※ Simple structures, long durability and high reliability
- ※ High precision positioning accuracy
- ※ The explosion-proof performance
- ※ Easy to maintain, easy maintenance

应用范围 Application range

以上微型气动马达的特点和优点, 叶片式气动马达(空气马达 风动马达)特别能满足工业自动化、能根据不同系列, 不同规格选型应用到工业生产中, 切削加工(攻丝、抛光、钻削、打磨、铣削、倒角、去毛刺等)、组装机(拧紧装配、打包、铆接...)、中轻型动力驱动、高扭力驱动、高转速驱动、安全防爆、恶劣环境、高可靠寿命、控制方便灵活等要求的用途, 适合工业生产, 或安装到其它机械、机器设备做动力驱动, 或工程项目等中、高端应用。

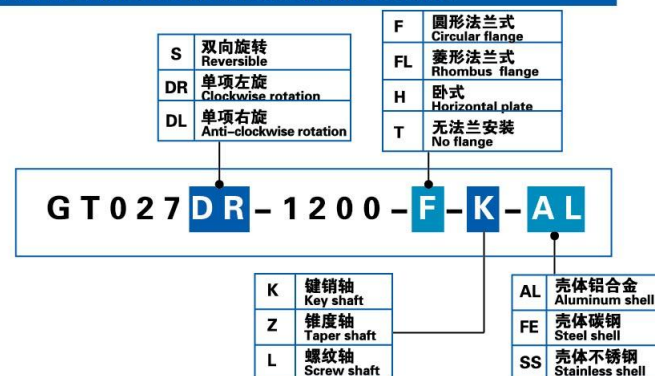
可用于各类机器、机械: 自动化机械、包装机械、旋盖机、食品饮料机械、搅拌机、灌装机械、印刷机械、机床、管道疏通机、易燃易爆环境用的机器、坡口机、打包机、泵、鼓风机、卷扬机、绞盘车、阀门驱动、移动平台、马路喷线机、造纸机械、物料处理生产线、石油机械、装配生产线拧紧单元、输送设备、分度台、切割设备、攻丝机、船舶机械、木工机械、采矿机械、石化机械等。

可以配合各种功能机构、系统使用: 数控系统、推进机构、定位系统、机器人或机械手、控制扭系统、调速系统、各类传感器、各类配件、各类功能部件, 加斯顿气动马已经在工业自动化中广泛应用。

Drive drive drive drive (tapping above mini air motor characteristics and advantages, vane pneumatic motor (air motor for pneumatic motor) in particular, can meet the requirement of industrial automation, according to different series, different specifications selection applied to industrial production, machining, polishing, drilling, grinding, milling, cutting, chamfering, deburring, etc.) and assembly (fastening assembly, packaging, riveting...), light power, high torque, high rotating speed, safety explosion-proof, bad environment, high reliability and high life, the control is flexible and convenient for use, and is suitable for industrial production, or to install other machinery, machine equipment for power, or project, high-end applications.

Can be used for various types of machinery, mechanical, automation machinery, packaging machinery, rotary capping machine, food and beverage machinery, mixer, filling machine, printing machinery, machine tools, plumbing dredging machine, machine used in flammable and explosive environment, and beveling machine, packing machine, pump, blower, windlass, winch, valve drive, mobile platform, road spray line machine, papermaking machinery, material processing production line, petroleum machinery, assembly production line fastening unit, conveying equipment, indexing table, cutting equipment, tapping machine, ship machinery, woodworking machinery, mining machinery, petrochemical machinery etc. Can cooperate with all kinds of functional mechanism, system use: numerical control system, propulsion mechanism, positioning system, robot or manipulator, control system, speed control system, various types of sensors, all kinds of accessories, all kinds of functional components, Gaston pneumatic horse has been widely used in industrial automation.

GT系列气动马达型号GT series pneumatic motor type description



行星式气动马达参数表

Planetary-type pneumatic motor Technical parameter



行星式气动马达

Planetary-type pneumatic motor

编号 NABE	型号 TYPE	功率 Power	马力 H P	转速 Speed		扭矩 Torque				耗气量 Air Consumption		旋转方向 ROTATION	重量 Weight	进气管口径 Input Hose (mm) Size
				自由速度 Free Speed	最大功率时 At Max HP	最大扭矩 Max Torque	最大扭矩时 Max Torque	最大扭矩时 Max Static Torque	L/S	CFM				
GT22S	GT22S-150	0.04-0.06	0.05-0.08	15000	7500	0.1	0.1	0.1	0.1	2.9	6.1	双向	0.15	6
	3200			1600	0.4	0.3	0.7	0.5	2.9	6.1	双向	0.17	6	
	1300			650	1.1	0.8	1.7	1.3	2.9	6.1	双向	0.17	6	
	13000			6500	0.2	0.1	0.2	0.1	3.8	8.1	双向	0.30	6	
GT27S	GT27S-130	0.1-0.16	0.14-0.22	3100	1600	0.6	0.5	0.8	0.6	3.8	8.1	双向	0.30	6
	1900			950	1.0	0.7	1.3	1.0	3.8	8.1	双向	0.30	6	
	750			380	2.5	1.8	3.1	2.3	3.8	8.1	双向	0.35	6	
	450			230	4.1	3.0	5.0	3.7	3.8	8.1	双向	0.35	6	
GT36S	GT36S-138	0.16-0.25	0.22-0.34	13800	6500	0.24	0.2	0.35	0.3	5.0	10.6	双向	0.65	8
	3000			1400	1.1	0.8	1.3	1.0	5.0	10.6	双向	0.85	8	
	2100			1000	1.5	1.1	1.8	1.3	5.0	10.6	双向	0.85	8	
	1350			650	2.4	1.8	3.0	2.2	5.0	10.6	双向	0.85	8	
GT42S	GT42S-140	0.23-0.39	0.31-0.52	14000	7000	0.34	0.3	0.46	0.3	7.9	16.7	双向	0.98	10
	3840			1960	1.2	0.9	1.6	1.2	7.9	16.7	双向	0.98	10	
	2100			1100	2.1	1.5	3.0	2.2	7.9	16.7	双向	1.10	10	
	1500			850	2.7	2.0	3.7	2.7	7.9	16.7	双向	1.10	10	
GT52S	GT52S-080	0.5-0.65	0.67-0.87	8800	4500	1.00	0.7	1.20	0.9	13	28	双向	0.8	12
	2805			1550	3.00	2.2	5.0	3.7	13	28	双向	0.8	12	
	1850			1050	5.00	3.7	8.0	5.9	13	28	双向	1.0	12	
	1000			560	8.90	6.6	9.7	7.2	13	28	双向	1.0	12	
GT60S	GT60S-0070	0.58-0.84	0.78-1.13	690	350	14	10.3	24	17.7	13	28	双向	1.5	12
	400			215	23	17.0	34	25.1	13	28	双向	1.5	12	
	280			130	38	28.0	55	40.6	13	28	双向	1.5	12	
	143			77	63	46.5	70	51.7	13	28	双向	1.5	12	
GT80S	GT80S-00080	1.4-1.8	1.88-2.45	86	46	105	77.5	115	84.9	13	28	双向	5.0	12
	55			30	160.00	118.1	170.0	125.5	13	28	双向	5.0	12	
	7000			3500	1.7	1.3	2.0	1.5	18	38.7	双向	1	14	
	2790			1300	6.0	4.4	10.0	7.4	18	38.7	双向	1.9	14	
GT100S	GT100S-0180	2.5-3.0	3.4-4.0	1830	850	9.0	6.6	15.0	11.1	18	38.7	双向	1.9	14
	580			270	28	20.7	48	35.4	18	38.7	双向	2.2	14	
	480			225	34	25.1	58	42.8	18	38.7	双向	2.2	14	
	320			150	50	36.9	88	64.9	18	38.7	双向	2.2	14	
GT100S	GT100S-00250	2.5-3.0	3.4-4.0	250	110	68	50.2	112	82.7	18	38.7	双向	5.2	14
	95			50	115	84.9	168	124.0	18	38.7	双向	6.0	14	
	40			20	275	203.0	300	221.4	18	38.7	双向	11.0	14	
	6500			3300	4.5	3.3	4.8	3.5	31	65.7	双向	1.5	16	
GT100S	GT100S-0230	2.5-3.0	3.4-4.0	2330	1000	14	10.3	22	16.2	31	65.7	双向	2.8	16
	1520			650	21	15.5	34	25.1	31	65.7	双向	2.8	16	
	935			450	31	22.9	53	39.1	31	65.7	双向	2.8	16	
	665			314	39	28.8	55	40.6	31	65.7	双向	3.8	16	
GT100S	GT100S-00480	2.5-3.0	3.4-4.0	480	205	71	52.4	106	78.2	31	65.7	双向	3.8	16
	330			145	98	72.3	152	112.2	31	65.7	双向	3.8	16	
	265			114	125	92.3	193	142.4	31	65.7	双向	5.9	16	
	130			70	190	140.2	308	227.3	31	65.7	双向	5.9	16	
GT100S	GT100S-00070	2.5-3.0	3.4-4.0	68	30	302	222.9	435	321.0	31	65.7	双向	5.9	16
	6000			3000	6.5	4.8	6.9	5.1	52	110	双向	5.6	16	
	2500			1250	20	14.8	29	21.4	52	110	双向	7.6	16	
	1870			1065	27	19.9	59	43.5	52	110	双向	7.6	16	
GT100S	GT100S-0120	2.5-3.0	3.4-4.0	1230	690	40	29.5	90	66.4	52	110	双向	7.6	16
	505			285	95	70.1	220	162.4	52	110	双向	7.6	16	
	330			185	150	110.7	330	243.5	52	110	双向	7.6	16	
	250			140	200	147.6	430	317.3	52	110	双向	7.6	16	
GT100S	GT100S-00160	2.5-3.0	3.4-4.0	165	95	300	221.4	630	464.9	52	110	双向	7.6	16

