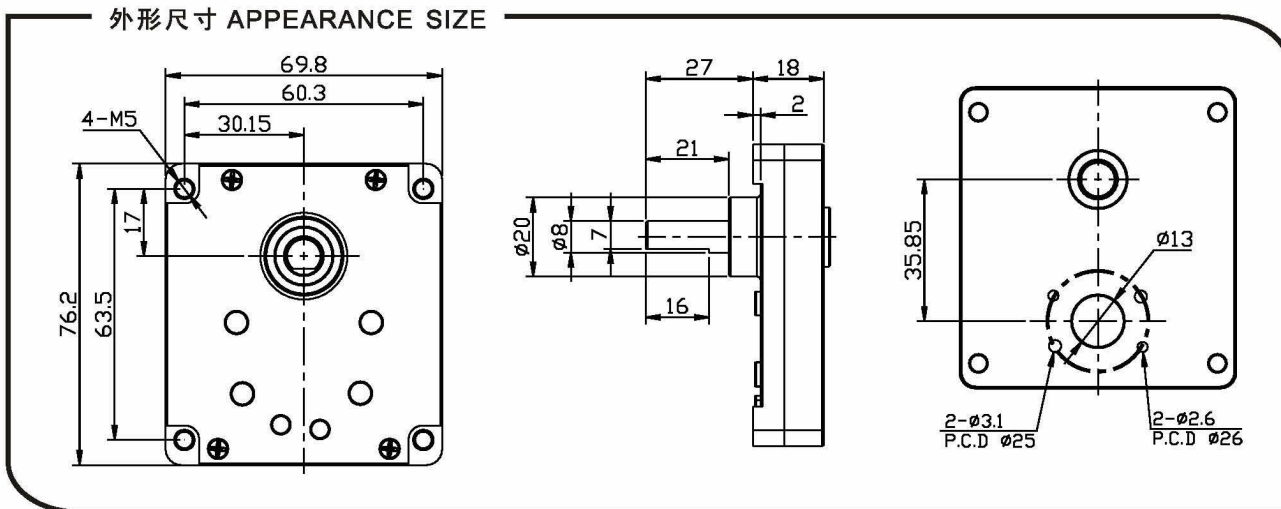


VF 变速箱系列 Series Gearbox (69.8mmX76.2mmXH18mm)



- Note:**
- 1、外壳材料: 锌合金 Housing material: zinc alloy
 - 2、齿轮间隙, 在空载时: $\leq 2^\circ$ Backlash, at no-load: $\leq 2^\circ$
 - 3、输出轴轴承: 滑动轴承 Bearing at output: Sleeve bearings
 - 4、输出轴的径向间隙: $\leq 0.05\text{mm}$ Radial play of shaft: $\leq 0.05\text{mm}$
 - 5、输出轴轴向间隙: $\leq 0.5\text{mm}$ Thrust play shaft: $\leq 0.5\text{mm}$
 - 6、齿轮箱可以适用于 545, 555, 775, YJ61 马达。
The gear box can apply to 545, 555, 775, YJ61 motors.
 - 7、如果电机在低转速、高速比的组合下, 负载力矩高于90kgf.cm, 会损坏齿轮箱齿轮。
When the motors using at low speed, high gear ratio will cause gear motor torque more than 90kgf.cm. At this torque the gears will be broken easily. Be noted.

外形尺寸 APPEARANCE SIZE



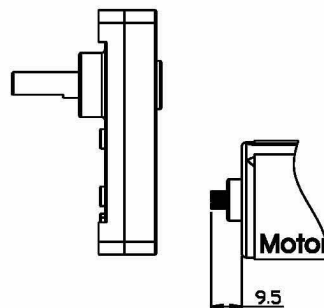
说明 PINION SPECIFICATIONS

型号 Model	0.4	0.5
牙数 No. of teeth	12	13
压力角 Pressure angle	20°	
螺旋角 Helix angle	15°left	—
孔径 Hole diameter	$\phi 3.12$, $\phi 1.96$	$\phi 3.12$, $\phi 1.96$, $\phi 2.5$ (D)
减速比 Reduction ratio	139, 155, 196, 219, 277, 394, 392, 555, 833	36, 66, 94

★ 电机运行湿度为20%~85% Operating relative humidity 20%~85%RH

★ 电机运行温度范围-10℃~+60℃ Operating temperature range -10℃~+60℃

电机安装 MOTOR INSTALLATION



齿轮箱规格 GEARBOXES SPECIFICATIONS

减速比 Reduction ratio	额定扭矩 Rated torque	最大可承受扭矩 Max breaking torque	效率 Efficiency	级数 Number of stages	转向(与电机的转向) Direction (Relationship with motor)
36, 66	10kgf. cm	30kgf. cm	73%	3	Different
94	10kgf. cm	30kgf. cm	73%	3	Different
139, 155	20kgf. cm	60kgf. cm	65%	4	Same
196	20kgf. cm	60kgf. cm	65%	4	Same
219	20kgf. cm	60kgf. cm	65%	4	Same
277	20kgf. cm	60kgf. cm	65%	4	Same
392	30kgf. cm	90kgf. cm	59%	5	Different
555	30kgf. cm	90kgf. cm	59%	5	Different
833	30kgf. cm	90kgf. cm	59%	5	Different



用途/Typical applications: 焊接设备、垃圾处理器、咖啡机、印刷机、稳压机、碎纸机、输卡机、中央空调阀门、办公设备、家用设备、执行器
Welding machine, Garbage disposers, Coffee machine, Mimeograph, Manostat, Paper shredder, Card conveyors, Central air-conditioning valve, Office equipment, Household appliances, Automatic actuator.

包装外形尺寸/Packing details: CTN size: 55X35XH18cm 24pcs/CTN G.W.14kgs

外形尺寸 APPEARANCE SIZE

Technical drawing showing the appearance size of the device. The drawing includes three views: a front view, a side view, and a top view. The front view shows a square base with a central circular feature and four mounting holes. The side view shows the profile of the device with various dimensions. The top view shows the top surface with a central circular feature and four mounting holes.

Key dimensions and features:

- Overall width: 69.8
- Overall height: 76.2
- Central circular feature diameter: $\phi 20$
- Mounting holes: 4-M5
- Side view dimensions: 27, 18, 2, 21, 16, 51, 57, $\phi 36$
- Top view dimensions: 35.85

减速箱级数 Number of stages	3 减速比 Stages reduction	4 减速比 Stages reduction	5 减速比 Stages reduction
减速比 Reduction ratio	36、66、94	139、155、196、219、277	392、555、833
最大运转力矩 Max. Running torque	10kgf.cm	20kgf.cm	30kgf. cm
最大破坏力矩 Max. Gear breking torque	30kgf.cm	60kgf.cm	90kgf.cm
最高齿轮效率 Max. Gearing efficiency	73%	65%	59%
其它减速比请致电或邮件给我司技术部 Other reduction ratio please telephone or e-mail to our engineering department.			

马达型号 Motor Model	电 压 Rated Volt. V	空 载 No load		负 载 Load torque				堵 转 Stall torque	
		电 流 Current	转 速 Speed	电 流 Current	转 速 Speed	扭 矩 Torque	输出功率 Output power	扭 矩 Torque	电 流 Current
		mA	r/min	mA	r/min	gf. cm	W	gf. cm	MA
VF-545123000	12	≤110	3000	≤450	2200	100	2.2	400	1800
VF-545124500	12	≤220	4500	≤800	3300	150	4.9	600	3000
VF-545126000	12	≤350	6000	≤1500	4500	200	9.0	800	5500
VF-545243000	24	≤60	3000	≤230	2200	100	2.2	400	900
VF-545244500	24	≤110	4500	≤400	3300	150	4.9	600	1500
VF-545246000	24	≤150	6000	≤750	4500	200	9.0	800	3000

- 这张表格只列出部分电机参数，想了解更多具体参数请参照94页。
- This table lists some motors parameters, others please refer to specific parameters of Page 94.
- 马达和齿轮箱装配成减速电机后输出扭矩 = 马达扭矩X减速比X齿轮效率;输出转速 = 马达转速 / 减速比。
- After connecting motor and gearbox which is named gearmotor the output torque: motor torque X reduction ratio X gearing efficiency; output speed: motor speed/reduction ratio.



用途/Typical applications: 焊接设备、垃圾处理器、咖啡机、印刷机、稳压机、碎纸机、输卡机、中央空调阀、办公设备、家用设备、执行器
Welding machine, Garbage disposers, Coffee machine, Mimeograph, Manostat, Paper shredder, Card conveyors, Central air-conditioning valve, Office equipment, Household appliances, Automatic actuator.

包装外形尺寸/Packing details: CTN size: 55X35XH18cm 24pcs/CTN G.W.15kgs

减速箱级数 Number of stages	3 减速比 Stages reduction	4 减速比 Stages reduction	5 减速比 Stages reduction
减速比 Reduction ratio	36、66、94	139、155、196、219、277	392、555、833
最大运转力矩 Max. Running torque	10kgf.cm	20kgf.cm	30kgf. cm
最大破坏力矩 Max. Gear breking torque	30kgf.cm	60kgf.cm	90kgf.cm
最高齿轮效率 Max. Gearing efficiency	73%	65%	59%
其它减速比请致电或邮件给我司技术部 Other reduction ratio please telephone or e-mail to our engineering department.			

马达型号 Motor Model	电 压 Rated Volt. V	空 载 No load		负 载 Load torque				堵 转 Stall torque	
		电 流 Current	转 速 Speed	电 流 Current	转 速 Speed	扭 矩 Torque	输出功率 Output power	扭 矩 Torque	电 流 Current
		mA	r/min	mA	r/min	gf. cm	W	gf. cm	MA
VF-555123000	12	≤140	3000	≤800	2200	150	3.3	600	3000
VF-555124500	12	≤220	4500	≤1200	3300	220	7.2	880	4800
VF-555126000	12	≤350	6000	≤2000	4500	300	13.5	1200	6000
VF-555243000	24	≤70	3000	≤400	2200	150	3.3	600	1600
VF-555244500	24	≤110	4500	≤600	3300	220	7.2	880	3000
VF-555246000	24	≤180	6000	≤1000	4500	300	13.5	1200	4000

- 这张表格只列出部分电机参数，想了解更多具体参数请参照95页。
- This table lists some motors parameters, others please refer to specific parameters of Page 95.
- 马达和齿轮箱装配成减速电机后输出扭矩 = 马达扭矩X减速比X齿轮效率;输出转速 = 马达转速 / 减速比。
- After connecting motor and gearbox which is named gearmotor the output torque: motor torque X reduction ratio X gearing efficiency; output speed: motor speed/reduction ratio.



VF-775 直流减速电机 DC GEAR MOTOR Series

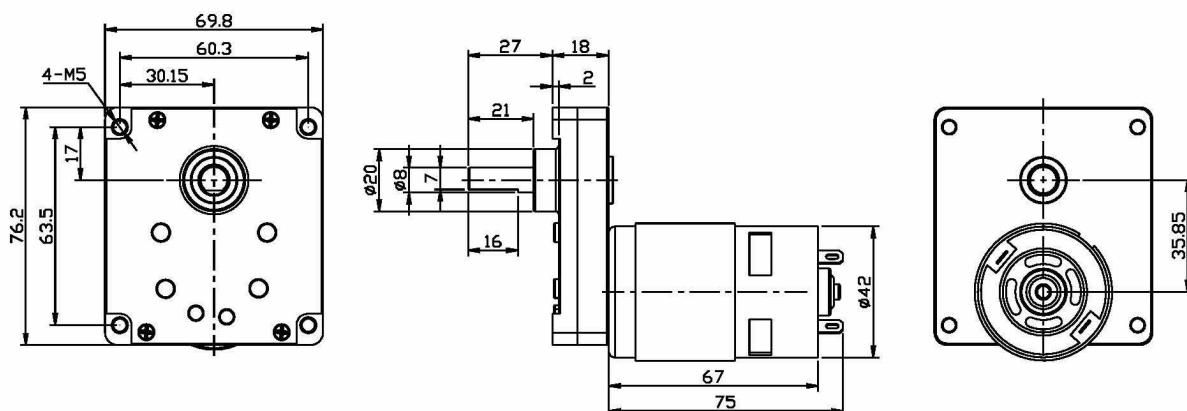
电压/Main voltage: 3VDC、6VDC、9VDC、12VDC、24VDC

用途/Typical applications: 焊接设备、垃圾处理器、咖啡机、印刷机、稳压机、碎纸机、输卡机、中央空调阀门、办公设备、家用设备、执行器
Welding machine, Garbage disposers, Coffee machine, Mimeograph, Manostat, Paper shredder, Card conveyors, Central air-conditioning valve, Office equipment, Household appliances, Automatic actuator.

重量/Weight: 650~700g/pcs(approx)

包装外形尺寸/Packing details: CTN size: 55X35XH18cm 24pcs/CTN G.W.18kgs

外形尺寸 APPEARANCE SIZE



齿轮箱数据 Gearbox data

减速箱级数 Number of stages	3 减速比 Stages reduction	4 减速比 Stages reduction	5 减速比 Stages reduction
减速比 Reduction ratio	36、66、94	139、155、196、219、277	392、555、833
最大运转力矩 Max. Running torque	10kgf.cm	20kgf.cm	30kgf. cm
最大破坏力矩 Max. Gear breking torque	30kgf.cm	60kgf.cm	90kgf.cm
最高齿轮效率 Max. Gearing efficiency	73%	65%	59%
其它减速比请致电或邮件给我司技术部 Other reduction ratio please telephone or e-mail to our engineering department.			

马达参数 Motor data

马达型号 Motor Model	电 压 Rated Volt. V	空 载 No load		负 载 Load torque				堵 转 Stall torque	
		电 流 Current	转 速 Speed	电 流 Current	转 速 Speed	扭 矩 Torque	输出功率 Output power	扭 矩 Torque	电 流 Current
		mA	r/min	mA	r/min	gf. cm	W	gf. cm	A
VF-775123000	12	≤420	3000	≤1300	2430	408	10.4	2484	6.7
VF-775124500	12	≤750	4500	≤2100	3710	476	17.6	2714	10.4
VF-775126000	12	≤1300	6000	≤3500	5195	478	25.5	3129	18.6
VF-775243000	24	≤210	3000	≤600	2590	364	9.87	2050	3.2
VF-775244500	24	≤480	4500	≤1300	3850	482	18.5	3335	5.3
VF-775246000	24	≤630	6000	≤2100	5233	574	30.8	4565	12.1

• 马达和齿轮箱装配成减速电机后输出扭矩 = 马达扭矩X减速比X齿轮效率;输出转速 = 马达转速 / 减速比 .

• After connecting motor and gearbox which is named gearmotor the output torque: motor torque X reduction ratio x gearing efficiency; output speed: motor speed/reduction ratio .



VFO-38 直流减速电机 DC GEAR MOTOR Series

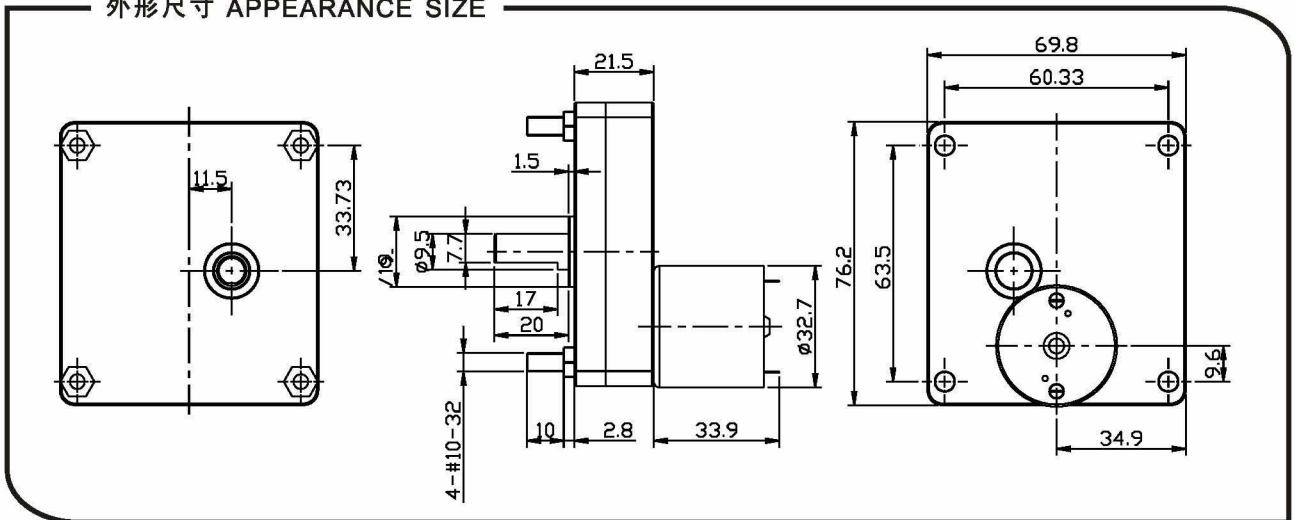
电压/Main voltage: 3VDC、6VDC、9VDC、12VDC、24VDC

用途/Typical applications: 焊接机、垃圾处理器、咖啡机、印刷机、稳压机、碎纸机、输卡机、中央空调阀门、办公设备、家用设备、执行器
Central air-conditioning valve, Amusement equipment, Coinrefund devices, Grill, Oven, Peristaltic pumps, ATM bank automatic system, Robot, Medical equipment, Office equipment, Household appliances, Automatic actuator.

重量/Weight: 400~450g/pcs(approx)

包装外形尺寸/Packing details: CTN size: 55X35XH18cm 24pcs/CTN G.W.12kgs

外形尺寸 APPEARANCE SIZE



齿轮箱数据 Gearbox data

减速箱级数 Number of stages	4 减速比 Stages reduction	5 减速比 Stages reduction	7 减速比 Stages reduction
减速比 Reduction ratio	212、307、409	765、818、1105、1228	3061、4592、6632、9948
最大运转力矩 Max. Running torque	1.5kgf.cm	5kgf.cm	10kgf.cm
最大破坏力矩 Max. Gear breking torque	4.5kgf.cm	15kgf.cm	30kgf.cm
最高齿轮效率 Max. Gearing efficiency	65%	59%	48%

其它减速比请致电或邮件给我司技术部 Other reduction ratio please telephone or e-mail to our engineering department.

马达参数 Motor data

马达型号 Motor Model	电 压 Rated Volt. V	空 载 No load		负 载 Load torque				堵 转 Stall torque	
		电 流 Current	转 速 Speed	电 流 Current	转 速 Speed	扭 矩 Torque	输出功率 Output power	扭 矩 Torque	电 流 Current
		mA	r/min	mA	r/min	gf. cm	W	gf. cm	MA
VFO-38123400	12	≤40	3400	≤180	2500	40	1.0	160	720
VFO-38124500	12	≤60	4500	≤350	3300	60	2.0	210	1400
VFO-38126000	12	≤70	6000	≤720	4500	80	3.6	300	2800
VFO-38243000	24	≤15	3000	≤80	2200	40	0.9	140	320
VFO-38244500	24	≤25	4500	≤180	3300	60	2.0	210	730
VFO-38246700	24	≤45	6700	≤360	4500	80	3.6	300	1400

• 这张表格只列出部分电机参数，想了解更多具体参数请参照93页。

• This table lists some motors parameters, otheers please refer to specific parameters of Page 93.

• 马达和齿轮箱装配成减速电机后输出扭矩 = 马达扭矩X减速比X齿轮效率;输出转速 = 马达转速 / 减速比。

• After connecting motor and gearbox which is named gearmotor the output torque: motor torque X reduction ratio X gearing efficiency; output speed: motor speed/reduction ratio.



VFO-385 直流减速电机 DC GEAR MOTOR Series

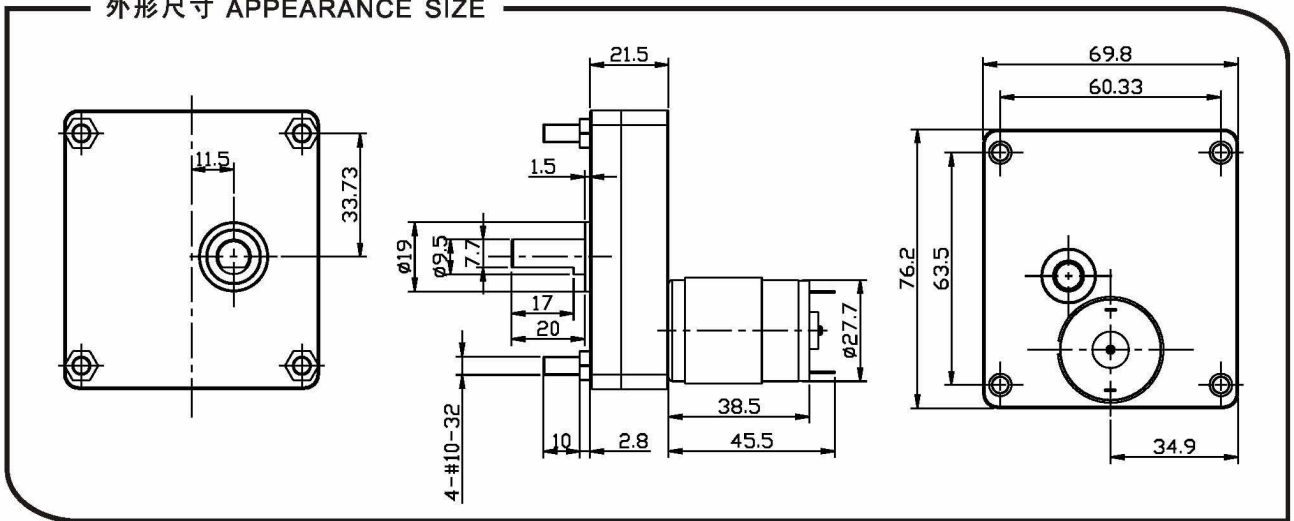
电压/Main voltage: 3VDC、6VDC、9VDC、12VDC、24VDC、36VDC

用途/Typical applications: 焊接机、垃圾处理器、咖啡机、印刷机、稳压机、碎纸机、输卡机、中央空调阀门、办公设备、家用设备、执行器
Central ari-conditioning valve, Amusement equipment, Coinrefund devices, Grill, Oven, Peristaltic pumps, ATM bank automatic system, Robot, Medical equipment, Office equipment, Household appliances, Automatic actuator.

重量/Weight: 400~450g/pcs(approx)

包装外形尺寸/Packing details: CTN size: 55X35XH18cm 24pcs/CTN G.W.12kgs

外形尺寸 APPEARANCE SIZE



齿轮箱数据 Gearbox data

减速箱级数 Number of stages	4 减速比 Stages reduction	5 减速比 Stages reduction	7 减速比 Stages reduction
减速比 Reduction ratio	212、307、409	765、818、1105、1228	3061、4592、6632、9948
最大运转力矩 Max. Running torque	1.5kgf.cm	5kgf.cm	10kgf. cm
最大破坏力矩 Max. Gear breking torque	4.5kgf.cm	15kgf.cm	30kgf.cm
最高齿轮效率 Max. Gearing efficiency	65%	59%	48%

其它减速比请致电或邮件给我司技术部 Other reduction ratio please telephone or e-mail to our engineering department.

马达参数 Motor data

马达型号 Motor Model	电 压 Rated Volt. V	空 载 No load		负 载 Load torque				堵 转 Stall torque	
		电 流 Current	转 速 Speed	电 流 Current	转 速 Speed	扭 矩 Torque	输出功率 Output power	扭 矩 Torque	电 流 Current
		mA	r/min	mA	r/min	gf. cm	W	gf. cm	MA
VFO-385123000	12	≤45	3000	≤150	2200	35	0.8	140	450
VFO-385124500	12	≤70	4500	≤300	3300	55	1.8	220	1200
VFO-385126000	12	≤100	6000	≤600	4500	80	3.6	320	1900
VFO-385243000	24	≤25	3000	≤70	2200	35	0.8	140	230
VFO-385244500	24	≤40	4500	≤150	3300	55	1.8	220	600
VFO-385246000	24	≤50	6000	≤300	4500	80	3.6	320	1000

- 马达和齿轮箱装配成减速电机后输出扭矩 = 马达扭矩X减速比X齿轮效率;输出转速 = 马达转速 / 减速比 .
- After connecting motor and gearbox which is named gearmotor the output torque: motor torque X reduction ratio X gearing efficiency; output speed: motor speed/reduction ratio .