







MVRB Series planetary gearbox 系列行星减速机

PRODUCT FEATURESS 产品特点

精密行星減速機專業提供商

- ☆ 行星臂架与输出轴采用一体式结构设计, 确保最大的扭转刚性。
- 行星轮采用满滚针设计, 增加接触面积以提高结构刚性与输出扭矩。
- 齿轮采用低碳钢表面渗碳淬火到HRC62, 以获得最佳的耐磨及冲击韧性。
- 齿形引用国外进口软件辅助设计, 以获得最佳的齿形降低噪音。
- 输入端与马达轴连接采用双边抱紧方式, 以获取最大的夹紧力和零背隙的动力传递。
- Planetary boom and output shaft are intergrated structure designed to ensure maximum torsional rigidity.
- Planetary wheel with full needle design, increase the contact area to improve the rigidity and output torque.
- The gears are carburized and quenched to the HRC62 with low carbon steel surface for optimum wear and impact toughness.
- Gears refer to foreign imported software-assisted design to obtain the best tooth shape to reduce noise.
- The input terminal is connected to the motor shaft in a double-tight manner to obtain the maximum clamping force and zero backlash power transmission.

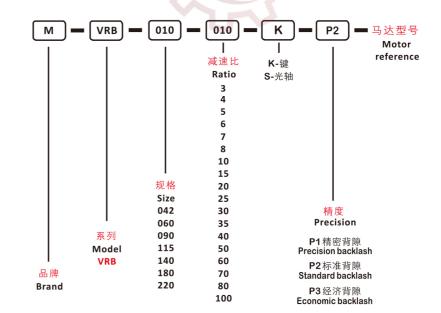


INDICATION FOR MODEL **SELECTION**

● 机种型号表示

GENERAL NOTICES

● 订货须知



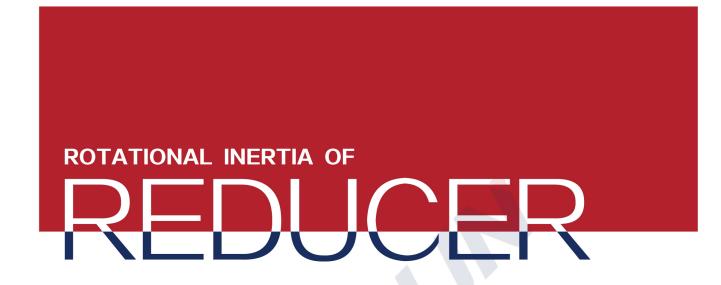
- 机种、型号、扭矩
- 减速比或出力轴转速
- 工况及连接方式
- 数量及安装的机械名称
- 入力方式和入力转速
- 马达厂牌型号或法兰及马达轴尺寸
- Type, model and torque
- Ratio or output speed
- Working conditions and connection methods
- Quantity and installed machine name
- Input mode and input speed
- Motor brand model or flange and motor shaft size

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PLANETARY GEARBOX

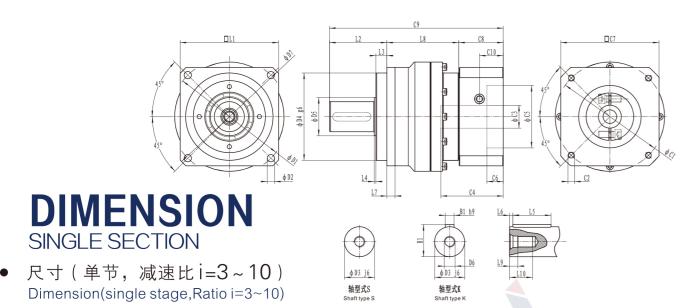
● 减速机性能资料 /Performance

规格 Specification	单位 Unit	节数 Stage	减速比 Ratio	MVRB042	MVRB060	MVRB090	MVRB115	MVRB140	MVRB180	MVRB220
оробиющей 1	O.I.I.	Olago	3	20	55	130	208	342	588	1140
			4	19	50	140	290	542	1050	1700
			5	22	60	160	330	650	1200	2000
		1	6	20	55	150	310	600	1100	1900
			7	19	50	140	300	550	1100	1800
			8	17	45	120	260	500	1000	1600
			10	14	40	100	230	450	900	1500
			15	20	55	130	208	342	588	1140
额定输出力矩	Nm		20	19	50	140	290	542	1050	1700
Rated output torque T _{2N}	INITI		25	22	60	160	330	650	1200	2000
			30	20	55	150	310	600	1100	1050 1700 1200 2000 1100 1900 1100 1800 1000 1600 900 1500 588 1140 1050 1700 1200 2000 1100 1800 1000 1600 1200 2000 1100 1900 1100 1800 1000 1600 900 1500
			35	19	50	140	300	550	1100	1800
		2	40	17	45	120	260	500	1000	1100 1900 1100 1800 1000 1600 900 1500 588 1140 1050 1700 1200 2000 1100 1800 1000 1600 1200 2000 1100 1800 1000 1600 900 1500 ue 3000 2000 6000 4000 <3
			50	22	60	160	330	650	1200	2000
			60	20	55	150	310	600	1100	1900
			70	19	50	140	300	550	1100	1800
			80	17	45	120	260	500	1000	1600
			100	14	40	100	230	450	900	1500
急停扭矩/Emergency stop torque T _{2NOT}	Nm	1,2	3~100		三倍	额定输出:	力矩/Triple i	ated output t	orque	
额定输入转速/Rated input speed N1N	rpm	1,2	3~100	5000	5000	4000	4000	3000	3000	2000
最大输入转速/Maximum iutput speed N1B		1,2	3~100	10000	10000	8000	8000	6000	6000	4000
精密背隙/Precision backlashP1	arcmin	1	3~10	≤ 3	≤ 3	€3	≤ 3	≤ 3	€3	€3
	5	2	15~100	≤ 5	≤5	≤5	≤5	≤5	≤5	≤ 5
标准背隙/Standard backlashP2	arcmin	1	3~10	≤ 5	≤5	≤ 5	≤5	≤ 5	≤5	≤ 5
	aromini	2	15~100	≤8	≤ 8	≤8	≤ 8	≤8	≤ 8	≤ 8
经济背隙/Economic backlash P3	arcmin	1	3~10	≤ 8	€8	≤8	≤8	≤8	≤8	€8
		2	15 ~ 100	≤12	≤12	≤12	≤12	≤12	≤12	
扭转刚性 /Torsional rigidity	Nm/arcmin	1,2	3~100	3	7	14	25	50		
容许径向力/Allowable radial forceF2aB	N	1,2	3~100	780	1530	3250	6700	9400		
容许轴向力/Allowable axial force F _{2aB}	N	1,2	3~100	390	765	1625	3350	4700	7250	25000
使用寿命 /Lifespan	hr	1,2	3~100				20000			
效率/Efficiency	%	1	3~10	≥97%						
		2	15~100	0.0	4.4	0.7	≥94%	4.0	0.0	50
重量 /Weight	kg	1	3~10	0.6	1.4	3.7	8	16		
在PSP 在 MALE distribution to a section of	90	2	15~100	0.7	1.6	4.2	8.9	17	37	54
使用温度 /Working temperature	℃	1,2	3~100		_		-10°C ~ 90			
润滑 /Lubricating 防护等级 /IP Grade		1,2 1,2	3~100		6	双川淯沺	脂 /Synthetic l	ublicating grea	196	
		1,2	3~100			任 音	方向/In any o	direction		
安装方向/Installation direction 噪音值(n1=3000rpm,无负载)	dR(A)	1,2	3~100	≤56	≤58	<60	த நிரி any ம ≤63	≪65	≤67	≤70
Noise level (n1=3000rpm,off load)	dB(A)	1,2	3~100	≥30	≥00	≥00	≥03	≥00	≥0/	≥/0

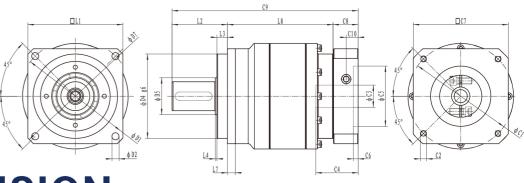


● 减速机转动惯量

规格 Specification	单位 Unit	节数 Stage	减速比 Ratio	MVRB042	MVRB060	MVRB090	MVRB115	MVRB140	MVRB180	MVRB220
			3	0.053	0.22	1.2	5.3	20	44	90
		1	4	0.041	0.17	0.95	4.1	15	28	62
			5	0.036	0.16	0.86	3.6	14	22	52
			6	0.034	0.15	0.82	3.3	13	18	47
			7	0.032	0.14	0.79	3.2	12	16	42
			8	0.031	0.14	0.77	3.1	12	15	40
			10	0.03	0.14	0.75	3	11	14	38
			15	0.035	0.14	0.72	2.8	11	12	36
转动惯量J1	1		20	0.034	0.13	0.72	2.8	11	12	35
Rotational inertia J1	kg • cm²		25	0.034	0.13	0.71	2.8	11	12	35
			30	0.03	0.13	0.7	2.7	10	11	34
			35	0.034	0.13	0.71	2.7	11	12	35
		2	40	0.03	0.13	0.7	2.7	10	11	33
			50	0.03	0.13	0.69	2.7	10	11	33
			60	0.03	0.13	0.69	2.7	10	11	33
			70	0.03	0.13	0.69	2.7	10	11	33
			80	0.03	0.13	0.69	2.7	10	11	33
			100	0.03	0.13	0.69	2.7	10	11	33
速比(i=N _{in} /N _{out}) tio(i=N _{in} /N _{out})		2.最大加速力矩 T2B =60% of T2NOT 2. Maximum acceleration torque T2B =60% of T2NOT						pm ,作用引 m.acting on th		



尺寸/Dimension	MVRB042	MVRB060	MVRB090	MVRB115	MVRB140	MVRB180	MVRB220
D1	-	70	100	130	165	215	250
D2	-	5.5	6.6	9	11	13.5	17
D3 j6	-	16	22	32	40	55	75
D4 g6	-	50	80	110	130	160	180
D5	-	18	30	40	50	70	85
D6	-	M5*0.8P	M8*1.25P	M12*1.75P	M16*2.0P	M20*2.5P	M20*2.5P
D7	-	80	116	152	185	240	290
L1	-	60	90	115	140	180	220
L2	-	37	48	60	95	105	138
L3	-	7	10	7	13	20	30
L4	-	1.5	1.5	2	3	3	3
L5	-	25	32	40	63	70	90
L6	-	2	3	5	5	6	7
L7	-	6	8	10	12	15	20
L8	-	39.5	78.5	102	124.5	131.5	151.5
L9	-	4.8	7.2	10	12	15	15
L10	-	12.5	19	28	36	42	42
C1	-	70	90	145	200	200	235
C2	-	M4*0.7P	M5*0.8P	M8*1.25P	M12*1.75P	M12*1.75P	M12*1.75P
C3	-	≤14/≤16	≤19/≤24	≤28	≤35/≤42	≤42	≤42/≤55
C4	-	35	46.5	67	81	114	117
C5	-	50	70	110	114.3	114.3	200
C6	-	3.5	6	14	19	24	20
C7	-	60	80	130	180	180	220
C8	-	46	30	45.5	57.5	81.5	87.5
C9	-	122.5	156.5	212.5	279	318	378
C10	-	10.5	14.5	25.5	32	43.5	49.5
B1 h9	-	5	6	10	12	16	20
H1	-	18	24.5	35	43	59	79.5



DIMENSIONDOUBLE SECTION

● 尺寸(双节,减速比i=15~100) Dimension(double stage,Ratio i=15~100)

ф D3 ј6	B1 h9	L6 L5 L5 L9 L10
轴型式S Shaft type S	轴型式 K Shaft type K	

尺寸/Dimension	MVRB042	MVRB060	MVRB090	MVRB115	MVRB140	MVRB180	MVRB220
D1	-	70	100	130	165	215	250
D2	-	5.5	6.6	9	11	13.5	17
D3 j6	-	16	22	32	40	55	75
D4 g6	-	50	80	110	130	160	180
D5	-	18	30	40	50	70	85
D6	-	M5*0.8P	M8*1.25P	M12*1.75P	M16*2.0P	M20*2.5P	M20*2.5P
D7	-	80	116	152	185	240	290
L1	-	60	90	115	140	180	220
L2	-	37	48	60	95	105	138
L3	-	6	10	7	13	20	30
L4	-	1.5	1.5	2	3	3	3
L5		25	32	40	63	70	90
L6	-	2	3	5	5	6	7
L7	-	7	8	10	12	15	20
L8	-	71.5	116	147	185.5	200	220
L9	-	4.8	7.2	10	12	15	15
L10	-	12.5	19	28	36	42	42
C1	-	70	90	145	145	200	200
C2	-	M4*0.7P	M5*0.8P	M8*1.25P	M8*1.25P	M12*1.75P	M12*1.75P
C3	-	≤14/≤16	≤16/≤19	≤19/≤24	≤24/≤28	≤35	≤42
C4	-	35	46.5	67	66	80	114
C5	-	50	70	110	110	114.3	114.3
C6	-	3.5	6	14	10	9	30
C7	-	60	80	130	130	180	180
C8	-	48	30	45.5	42.5	47.5	84.5
C9	-	154.5	194	257.5	325	352.5	441.5
C10	-	10.5	14.5	25.5	27	22.5	43.5
B1 h9	-	5	6	10	12	16	20
H1	-	18	24.5	35	43	59	79.5