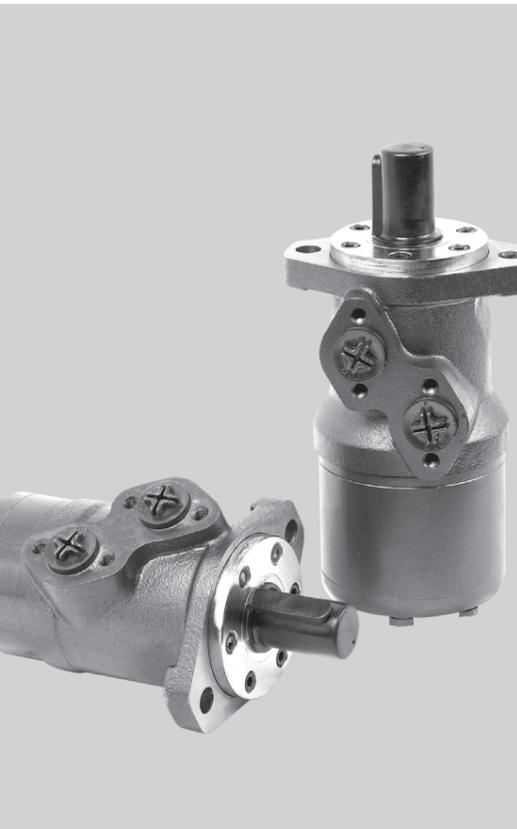


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OMZ系列 / OMZ Series



产品特点 / Product Feature

OMZ系列摆线液压马达具有先进的轴配流及平面配流两种结构形式，该系列液压马达采用镶柱式转定子付或整体式结构，该结构具有在高压下平稳工作并能自动补偿的功能,从而使整机具有高效性能并且保持性好，工作寿命长。

其主要特点如下：

- 采用先进的转定子参数设计，启动压力低，效率较高，保持性好，运转平稳；
- 采用高压轴密封，可承载较高背压，允许串、并联使用；
- 先进的配流结构使马达配流精度高,磨损后自动补偿能力强,确保高的容积效率,负载速度平稳性能特点；
- 马达结构紧凑，安装方便。

OMZ series' orbit motors are designed to be shaft distribution flow or disc distribution flow structure, which enable to work steadily in high pressure condition, thus to prolong its service life.

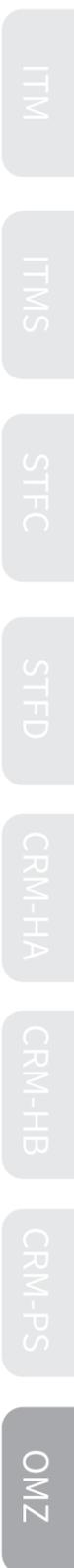
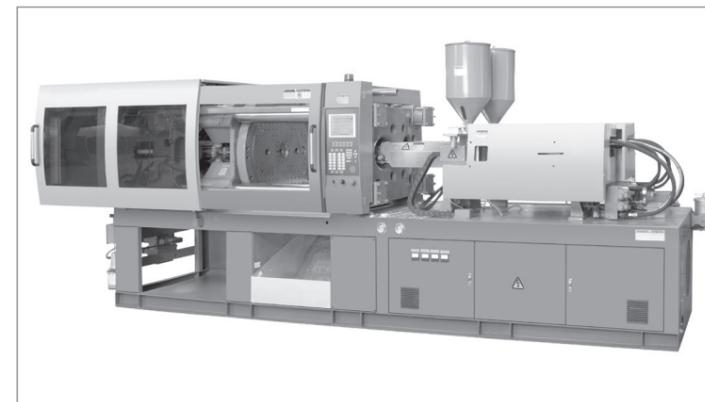
Main characteristics:

- Advanced gerolor gear set,with low pressure of start-up, high efficiency, and reliable operation;
- High back pressure endurance due to its high pressure shaft seal; enable parallel or series'connection;
- Good compensat ability due to its advanced distribution structure; high volumetric efficiency and load speed stability;
- Compact structure; easy installation.

产品应用 / Application

该马达可广泛应用于工程机械、农业机械、交通机械、石油采矿、机器制造等行业中，如注塑机调模，立式注塑机的预塑、油压机、带式锯床、输送机、收割机、油管钳、机械手、马路清扫车、起重吊车等各种机械上。

It is widely applied in construction engineering; agriculture machinery, transportation, oil or coal miners, adjusting mold in plastic injection machine. It is also especially used in vertical injection machine, hydraulic machine, oil pressure supply system, belt sawing machine, belt conveyer, copper, oil clippers, magic hand, road cleaner, hoist and so on.



OMZP 系列摆线液压马达是一种小体积、经济型轴配流液压马达。采用整体式转定子付，结构紧凑、重量轻、功率质量比大。

其特点:

- 整体式转定子付采用世界先进加工手段，确保整机体积小、效率高、功率大、寿命长；
- 轴密封承压高，可串、并联使用；
- 结构设计先进，功率质量比大。

OMZP series motor is an economical type, which is designed with axile flow distribution and gerotor gear set. It featured with compact structure, light weight and high power density.

Main Characteristics:

- Small volume, high efficiency, long service life due to special treated gerotor gear set;
- High pressure endurance in shaft seal; parallel or series connection;
- Advanced structure design, high power density.

主要技术参数/ Main Specification

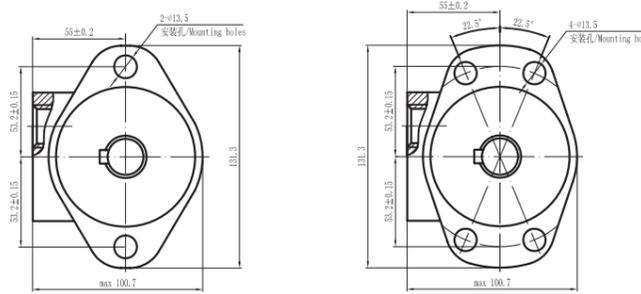
类型 Type		OMZP 50	OMZP 80	OMZP 100	OMZP 125	OMZP 160	OMZP 200	OMZP 250	OMZP 315	OMZP 400
排量 Displacement	ml/r	51.7	77.7	96.2	117.9	155.5	189.9	231	311.7	386.2
转速 Speed	额定 rated	850	650	520	390	310	260	200	156	130
	连续 cont.	879	740	589	475	370	296	237	189	149
	断续 int.	975	827	673	594	463	370	297	236	185
扭矩 Torque	额定 rated	81	129	161	202	204	259	325	345	435
	连续 cont.	81	129	161	202	245	286	360	406	435
	断续 int.	108	171	213	268	342	390	456	505	533
输出功率 Output Power	额定 rated	7	8.6	8.6	8	6.5	6.9	6.6	5.5	5.8
	连续 cont.	7	9.1	9	9.1	8.7	8.1	8.2	7.2	6.1
	断续 int.	8.9	11.8	11.9	11.8	11.9	10.9	10.1	8.6	7.2
工作压力差 Pressure Drop	额定 rated	12.5	12.5	12.5	12.5	10	10	10	8.5	8.5
	连续 cont.	12.5	12.5	12.5	12.5	12.5	11	11	11	10
	断续 int.	16.5	16.5	16.5	16.5	16.5	14	12.5	10.5	10.5
	峰值 peak	16.5	16.5	16.5	16.5	16.5	14	12.5	10.5	10.5
流量 Flow	额定 rated	45	55	55	55	55	55	55	55	55
	连续 cont.	45	60	60	60	60	60	60	60	60
	断续 int.	50	75	75	75	75	75	75	75	75
重量 Weight	Kg	5.6	5.7	5.9	6	6.2	6.4	6.6	6.9	7.4

- 额定转速、扭矩是指在额定流量、压力下的输出值；
- 连续值是指该排量马达可以连续工作的最大值；
- 断续值是指该排量马达在1分钟内工作6秒的最大值；
- 峰值是指该排量马达在1分钟内工作0.6秒的最大值。

- Rated speed and rated torque: output value of speed and torque under rated flow and rated pressure;
- Continuous pressure: Max.value of operating motor continuously;
- Intermittent prssure: Max.value of operating motor in 6 seconds per minute;
- Peak pressure: Max.value of operating motor in 0.6 Second per minute.

安装联接尺寸/ Installation Dimensions

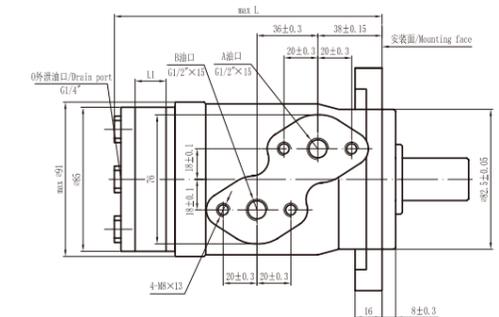
法兰/ Flange



2: 两孔菱形法兰
2: Rhomb mount, two holes

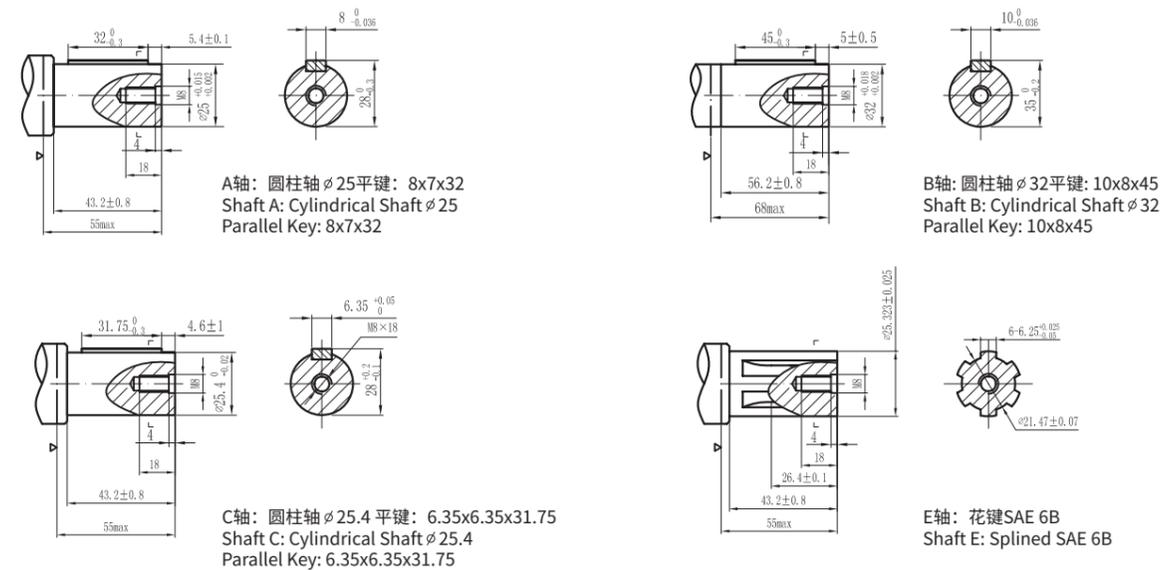
4: 四孔菱形法兰
4: Rhomb mount, four holes

止口、油口外形/ Port and Drain Port



排量 Disp	50	80	100	125	160	200	250	315	400
L	137	140.5	143	146	151	157	162	172	182
L1	7	10.5	13	16	21	26	32	42	52

轴伸/ Output Shaft



A轴: 圆柱轴 $\phi 25$ 平键: 8x7x32
Shaft A: Cylindrical Shaft $\phi 25$
Parallel Key: 8x7x32

B轴: 圆柱轴 $\phi 32$ 平键: 10x8x45
Shaft B: Cylindrical Shaft $\phi 32$
Parallel Key: 10x8x45

C轴: 圆柱轴 $\phi 25.4$ 平键: 6.35x6.35x31.75
Shaft C: Cylindrical Shaft $\phi 25.4$
Parallel Key: 6.35x6.35x31.75

E轴: 花键SAE 6B
Shaft E: Splined SAE 6B

订货信息/ Order Information

例: OMZP

1	2	3	4
排量/Disp.	法兰、止口/ Flange	轴伸/ Output Shaft	油口、外泄口/ Port And Drain Port
50 80 100 125 160 200 250 315	2- $\phi 13.5$ 菱法兰, 止口 $\phi 82.5 \times 8$ 2- $\phi 13.5$ Rhomb-flange, pilot $\phi 82.5 \times 8$	A $\phi 25$ 轴, 平键8x7x32 Shaft $\phi 25$, parallel key 8x7x32 B $\phi 32$ 轴, 平键10x8x45 Shaft $\phi 32$, parallel key 10x8x45	D G1/2" 板式4-M8, G1/4" G1/2" Manifold Mount 4-M8, G1/4"
	4- $\phi 13.5$ 菱法兰, 止口 $\phi 82.5 \times 8$ 4- $\phi 13.5$ Rhomb-flange, pilot $\phi 82.5 \times 8$	C $\phi 25.4$ 轴, 平键6.35x6.35x31.75 Shaft $\phi 25.4$, parallel key 6.35x6.35x31.75 E $\phi 25.4$ 轴, 花键SAE 6B Shaft $\phi 25.4$, splined key SAE 6B	M M22x1.5 板式4-M8, M14x1.5 M22x1.5 Manifold Mount 4-m8, M14x1.5

OMZR系列摆线液压马达是一种轴配流液压马达，该系列使用镶柱式转子付，具有在高压下工作并能自动补偿，从而使整机高效保持性好，工作寿命长。

其特点:

- 采用先进的转子参数设计，启动压边低，效率较高，并保持性好，运转平稳；
- 采用高压轴密封，可承载较高背压，允许串、并联使用；
- 联动轴特殊设计，马达使用寿命长；
- 特殊配流系统参数设计，可满足低噪声要求；
- 马达结构紧凑，安装方便。

OMZR series motor adopts the advanced gerolor gear set design with axile flow distribution, which can automatically compensate under high pressure thus to provide reliable and smooth operation, high efficiency and long service life.

Main Characteristics:

- Low pressure start-up, high efficiency and steady performance due to advanced gerolor gear set;
- High pressure endurance in shaft seal; parallel or series connection;
- Prolonged service life due to special design in the driver-linker;
- Low noise due to special flow distribution system;
- Compact structure and easy installation.

主要技术参数/ Main Specification

类型 Type		OMZR 50	OMZR 80	OMZR 100	OMZR 125	OMZR 160	OMZR 200	OMZR 250	OMZR 315	OMZR 375
排量 Displacement	ml/r	51.7	81.5	102	127.2	157.2	194.5	253.3	317.5	381.4
转速 Speed	额定 rated	750	650	520	420	330	265	200	165	135
	连续 cont.	960	750	600	475	378	310	240	190	155
扭矩 Torque	额定 rated	100	160	200	250	320	330	352	360	420
	连续 cont.	100	195	240	300	360	360	390	390	365
	断续 int.	126	220	280	340	430	448	470	470	548
输出功率 Output Power	额定 rated	7.7	12.3	12.3	12.0	12.3	10	9	7	6.5
	连续 cont.	9.5	12.5	13	12.5	12.5	10	7	6	5
	断续 int.	11.2	15	15	14.5	14	13	9.5	9	8
工作压差 Pressure Drop	额定 rated	14	14	14	14	14	12	11	8.5	8.5
	连续 cont.	14	17.5	17.5	17.5	16.5	13	11	9	7
	断续 int.	17.5	20	20	20	20	17.5	15	13	10
流量 Flow	连续 cont.	50	60	60	60	60	60	60	60	60
	断续 int.	60	75	75	75	75	75	75	75	75
重量 Weight	Kg	6.7	6.9	7	7.3	7.6	8.0	8.5	9	9.5

- 额定转速、扭矩是指在额定流量、压力下的输出值；
- 连续值是指该排量马达可以连续工作的最大值；
- 断续值是指该排量马达在1分钟内工作6秒的最大值；
- 峰值是指该排量马达在1分钟内工作0.6秒的最大值。

- Rated speed and rated torque: output value of speed and torque under rated flow and rated pressure;
- Continuous pressure: Max.value of operating motor continuously;
- Intermittent prssure: Max.value of operating motor in 6 seconds per minute;
- Peak pressure: Max.value of operating motor in 0.6 Second per minute.

安装联接尺寸/ Installation Dimensions

法兰/ Flange

2: 两孔菱形法兰
2: Rhomb mount, two holes

4: 四孔菱形法兰
4: Rhomb mount, four holes

止口、油口外形/ Port and Drain Port

排量尺寸/Size Disp.	80	100	125	160	200	250	315	400
L	146	150	155	161.5	170	180	192	204
L1	16	20	25	31.5	40	50	62	74

轴伸/ Output Shaft

A轴: 圆柱轴 $\phi 25$ 平键: 8x7x32
Shaft A: Cylindrical Shaft $\phi 25$ Parallel Key: 8x7x32

B轴: 圆柱轴 $\phi 32$ 平键: 10x8x45
Shaft B: Cylindrical Shaft $\phi 32$ Parallel Key: 10x8x45

C轴: 圆柱轴 $\phi 25.4$ 平键: 6.35x6.35x31.75
Shaft C: Cylindrical Shaft $\phi 25.4$ Parallel Key: 6.35x6.35x31.75

E轴: 花键SAE 6B
Shaft E: Splined SAE 6B

订货信息/ Order Information

例: OMZR

1	2	3	4
排量/Disp.	法兰、止口/ Flange	轴伸/ Output Shaft	油口、外泄口/ Port and Drain Port
50 80 100 125 160 200 250 315 375	2 2- $\phi 13.5$ 菱形法兰, 止口 $\phi 82.5 \times 8$ 2- $\phi 13.5$ Rhomb-flange, pilot $\phi 82.5 \times 8$	A $\phi 25$ 轴, 平键 8x7x32 Shaft $\phi 25$ Parallel Key: 8x7x32 B $\phi 32$ 轴, 平键 10x8x45 Shaft $\phi 32$ Parallel Key: 10x8x45	D G1/2" 板式 4-M8, G1/4" G1/2" Manifold Mount 4-M8, G1/4"
	4 4- $\phi 13.5$ 菱形法兰, 止口 $\phi 82.5 \times 8$ 4- $\phi 13.5$ Rhomb-flange, pilot $\phi 82.5 \times 8$	C $\phi 25.4$ 轴, 平键 6.35x6.35x31.75 Shaft $\phi 25.4$ Parallel Key: 6.35x6.35x31.75 E $\phi 25.4$ 轴, 花键 SAE 6B Shaft $\phi 25.4$ Splined SAE 6B	M M22x1.5 板式 4-M8, M14x1.5 M22x1.5 Manifold Mount 4-M8, M14x1.5

OMZS系列摆线液压马达是一种先进的端面配流结构液压马达，该系列马达使用镶柱式转定子付，具有工作压力高，工作效率高，整机高效保持性好，工作寿命长的特点。可在标准结构的基础上根据用户需求进行多功能的变型设计。

其特点:

- 采用先进的转定子参数设计，启动压力低，效率高并保持好；
- 工作压力高，输出扭矩大。采用圆锥滚子轴承结构，承受轴向、径向负荷能力强，使马达可直接驱动工作机构，使用范围扩大；
- 先进端面配流结构，使马达配流精度高，磨损后自动补偿功能强，确保高的容积效率、长寿命，转速平稳、提高负载速度特性。

OMZS series motor adopts the advanced gerolor gear set and disc flow distribution design, which is featured with high working pressure, high efficiency and long service life.

Main Characteristics:

- Low pressure start-up, high mechanical efficiency and steady performance due to advanced gerolor gear set;
- Higher working pressure and output torque; strong axial and radial force absorption due to its tapered roller bearing, which enables it to drive working bodies directly;
- Self-compensation, high volumetric efficiency, long service life, steady load performance due to its advanced disc flow distribution design.

主要技术参数/ Main Specification

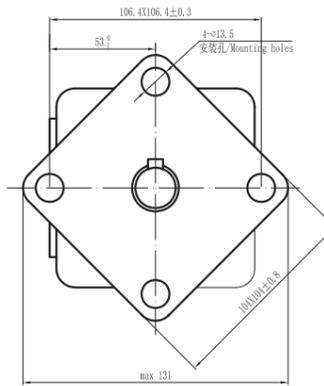
类型 Type		OMZS 80	OMZS 100	OMZS 125	OMZS 160	OMZS 200	OMZS 250	OMZS 315	OMZS 375
排量 Displacement	ml/r	80.6	100.8	125	157.2	200	252	314.5	370
转速 Speed	额定 rated	675	540	432	337	270	216	171	145
	连续 cont.	800	748	600	470	375	300	240	200
	断续 int.	988	900	720	560	450	360	280	240
扭矩 Torque	额定 rated	175	220	273	316	340	450	560	536
	连续 cont.	190	240	310	316	400	450	560	536
	断续 int.	240	300	370	430	466	540	658	645
	峰值 peak	260	320	400	472	650	690	740	751
输出功率 Output Power	额定 rated	12.4	12.4	12.4	11.2	9.6	10.2	10	8.6
	连续 cont.	15.9	18.8	19.5	15.6	15.7	14.1	14.1	11.8
	断续 int.	20.1	23.5	23.2	21.2	18.3	17.0	18.9	17
工作压力差 Pressure Drop	额定 rated	16	16	16	15	12.5	12.5	12	10
	连续 cont.	17.5	17.5	17.5	15	14	12.5	12	10
	断续 int.	21	21	21	21	16	16	14	12
	峰值 peak	22.5	22.5	22.5	22.5	22.5	20	18.5	14
流量 Flow	连续 cont.	65	75	75	75	75	75	75	75
	断续 int.	80	90	90	90	90	90	90	90
允许进油压力 Inlet pressure	额定 rated	21	21	21	21	21	21	21	21
	连续 cont.	25	25	25	25	25	25	25	25
	断续 int.	30	30	30	30	30	30	30	30
重量 Weight	Kg	9.8	10	10.3	10.7	11.1	11.6	12.3	12.6

- 额定转速、扭矩是指在额定流量、压力下的输出值；
- 连续值是指该排量马达可以连续工作的最大值；
- 断续值是指该排量马达在1分钟内工作6秒的最大值；
- 峰值是指该排量马达在1分钟内工作0.6秒的最大值。

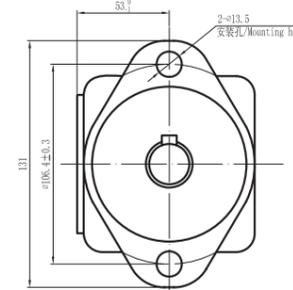
- Rated speed and rated torque: output value of speed and torque under rated flow and rated pressure;
- Continuous pressure: Max.value of operating motor continuously;
- Intermittent prssure: Max.value of operating motor in 6 seconds per minute;
- Peak pressure: Max.value of operating motor in 0.6 Second per minute.

安装联接尺寸/ Installation Dimensions

法兰/ Flange

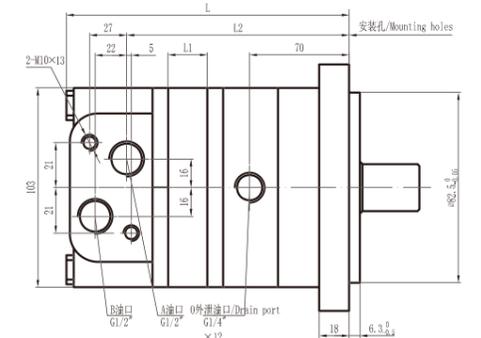


E4: 四孔方法兰
E4: Square mount, four holes



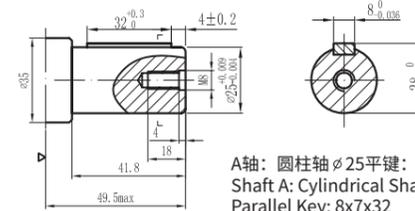
E2: 两孔菱形法兰
E2: Rhomb mount, two holes

止口、油口外形/ Port and Drain Port

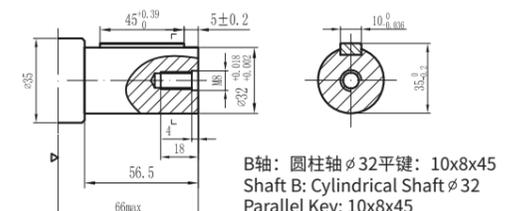


排量/Disp.	80	100	125	160	200	250	315	375
L	167	171	176	181.5	189	201	213	225
L1	13	17	22	27.5	35.1	47	59	71
L2	123.2	127.2	132.2	137.7	145.2	157.2	169.2	181.2

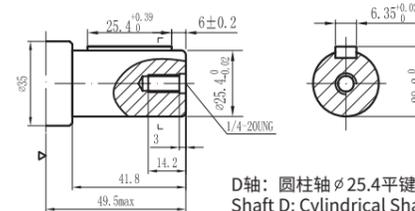
轴伸/ Output Shaft



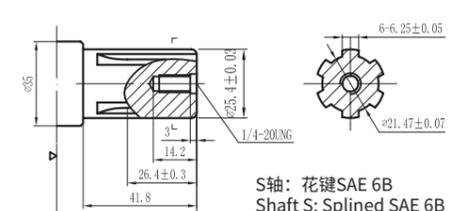
A轴: 圆柱轴 25平键: 8x7x32
Shaft A: Cylindrical Shaft 25
Parallel Key: 8x7x32



B轴: 圆柱轴 32平键: 10x8x45
Shaft B: Cylindrical Shaft 32
Parallel Key: 10x8x45



D轴: 圆柱轴 25.4平键: 6.35x6.35x25.4
Shaft D: Cylindrical Shaft 25.4
Parallel Key: 6.35x6.35x25.4



S轴: 花键SAE 6B
Shaft S: Splined SAE 6B

订货信息/ Order Information

例: OMZS 1 2 3 4

1	2	3	4
排量/Disp.	法兰、止口/ Flange	轴伸/ Output Shaft	油口、外泄口/ Port And Drain Port
80 100 125 160 200 250 315 375	E2 2-φ13.5菱法兰, 止口φ82.5x6.3 2-φ13.5 Rhomb-flange, pilot φ82.5x6.3	A φ25轴, 平键8x7x32 Shaft φ25 Parallel Key 8x7x32 B φ32轴, 平键10x8x45 Shaft φ32 Parallel Key 10x8x45	D G1/2" 板式2-M10, G1/4" G1/2" Manifold Mount 2-M10, G1/4"
	E4 4-φ13.5菱法兰, 止口φ82.5x6.3 4-φ13.5 Rhomb-flange, pilot φ82.5x6.3	D φ25.4轴, 平键6.35x6.35x25.4 Shaft φ25.4 Parallel Key 6.35x6.35x25.4 S φ25.4轴, 花键SAE 6B Shaft φ25.4, Splined SAE 6B	M M22x1.5板式2-M10, M14X1.5 M22x1.5 Manifold Mount 2-M10, M14X1.5

OMZT 系列摆线液压马达是一种先进的端面配流结构液压马达，该系列马达使用镶柱式转子付，具有工作压力高，工作效率高，整机高效保持性好，工作寿命长的特点。可在标准结构的基础上根据用户需求进行多功能的变型设计。

其特点:

- 采用先进的转子参数设计，启动压力低，效率高并保持好；
- 工作压力高，输出扭矩大。采用圆锥滚子轴承结构，承受轴向、径向负荷能力强，使马达可直接驱动工作机构，使用范围扩大；
- 先进端面配流结构，使马达配流精度高，磨损后自动补偿功能强，确保高的容积效率、长寿命，转速平稳、提高负载速度特性。

OMZT series motor adopts the advanced gerolor gear set and disc flow distribution design, which is featured with high working pressure, high efficiency and long service life.

Main Characteristics:

- Low pressure start-up, high mechanical efficiency and steady performance due to advanced gerolor gear set;
- Higher working pressure and output torque; strong axial and radial force absorption due to its tapered roller bearing, which enables it to drive working bodies directly;
- Self-compensation, high volumetric efficiency, long service life, steady load performance due to its advanced disc flow distribution design.

主要技术参数/Main Specification

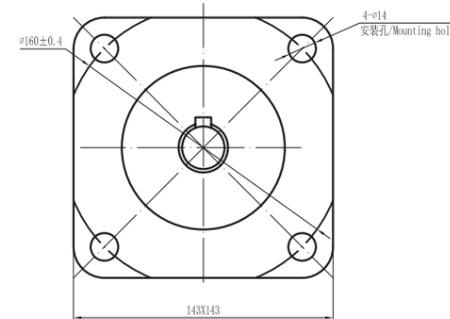
类型 Type		OMZT 160	OMZT 200	OMZT 250	OMZT 315	OMZT 400	OMZT 500	OMZT 630	OMZT 800
排量 Displacement	ml/r	161.1	201.4	251.8	326.3	410.9	523.6	629.1	801.8
转速 Speed	额定 rated	470	475	381	294	228	183	150	121
	连续 cont.	625	625	500	380	305	240	196	154
	断续 int.	780	750	600	460	365	285	233	185
扭矩 Torque	额定 rated	379	471	582	758	896	1063	1156	1207
	连续 cont.	470	590	730	950	1080	1220	1318	1464
	断续 int.	560	710	880	1140	1260	1370	1498	1520
输出功率 Output Power	额定 rated	18.7	23.4	23.2	23.3	21.4	20.4	18.2	15.3
	连续 cont.	27.7	34.9	34.5	34.9	31.2	28.8	25.3	22.2
	断续 int.	32	40	40	40	35	35	27.5	26.8
工作压力差 Pressure Drop	额定 rated	16	16	16	16	15	14	12	10.5
	连续 cont.	20	20	20	20	18	16	14	12.5
	断续 int.	24	24	24	24	21	18	16	13
流量 Flow	额定 rated	80	100	100	100	100	100	100	100
	连续 cont.	100	125	125	125	125	125	125	125
	断续 int.	125	150	150	150	150	150	150	150
允许进油压力 Inlet pressure	额定 rated	21	21	21	21	21	21	21	21
	连续 cont.	21	21	21	21	21	21	21	21
	断续 int.	25	25	25	25	25	25	25	25
重量 Weight	连续 cont.	19.5	20	20.5	21	22	23	24	25
	峰值 peak	30	30	30	30	30	30	30	30

- 额定转速、扭矩是指在额定流量、压力下的输出值；
- 连续值是指该排量马达可以连续工作的最大值；
- 断续值是指该排量马达在1分钟内工作6秒的最大值；
- 峰值是指该排量马达在1分钟内工作0.6秒的最大值。

- Rated speed and rated torque: output value of speed and torque under rated flow and rated pressure;
- Continuous pressure: Max. value of operating motor continuously;
- Intermittent pressure: Max. value of operating motor in 6 seconds per minute;
- Peak pressure: Max. value of operating motor in 0.6 Second per minute.

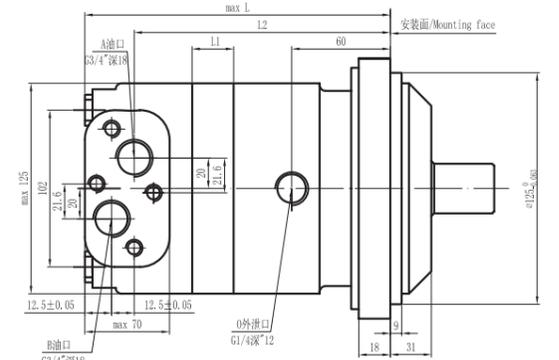
安装联接尺寸/ Installation Dimensions

法兰/ Flange



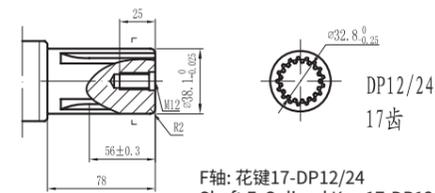
4: 四孔法兰
4: Square mount, four holes

止口、油口外形/ Port and Drain Port

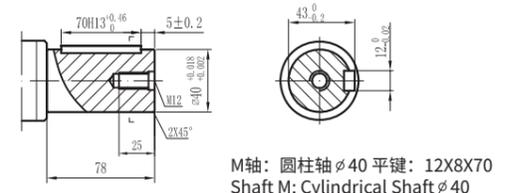


尺寸/Size	排量/Disp.	160	200	250	315	400	500
L		193	197	204	210	217	225
L1		17	21	14	20	27	35
L2		142.5	146.5	152.5	158.5	165.5	173.5

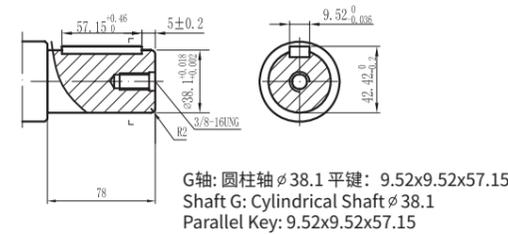
轴伸/ Output Shaft



F轴: 花键17-DP12/24
Shaft F: Splined Key 17-DP12/24



M轴: 圆柱轴 ϕ 40 平键: 12x8x70
Shaft M: Cylindrical Shaft ϕ 40 Parallel Key: 12x8x70



G轴: 圆柱轴 ϕ 38.1 平键: 9.52x9.52x57.15
Shaft G: Cylindrical Shaft ϕ 38.1 Parallel Key: 9.52x9.52x57.15

订货信息/ Order Information

例: OMZT

1	2	3	4
排量/Disp.	法兰、止口 / Flange	轴伸 / Output Shaft	油口、外泄口 / Port And Drain Port
160 200 250 315 400 500 630 800	4- ϕ 14 方法兰 ϕ 160, 止口 ϕ 125x9 4- ϕ 14 Square-flange, pilot ϕ 125x9	G ϕ 38.1轴, 平键9.52x9.52x57.15 Shaft ϕ 38.1 Parallel Key 9.52x9.52x57.15	D G3/4" 板式4-M10, G1/4" G3/4" Manifold Mount4-M10, G1/4"
		F ϕ 38.1轴, 花键17-DP12/24 Shaft ϕ 38.1 Splined Key 17-DP12/24	
		M ϕ 40轴, 平键12x8x70 Shaft ϕ 40 Parallel Key12x8x70	M M27x2 板式2-M10, M14x1.5 M27x2 Manifold Mount2-M10, M14x1.5



结构特点:

- 采用轴配流整体定转子设计, 机械效率高;
- 采用进口轴密封圈, 具有高背压承受能力;
- 多种法兰、输出轴、油口等安装连接形式;
- 方便于进行转速和旋转方向的调节;
- 体积小结构紧凑。

Main Characteristics:

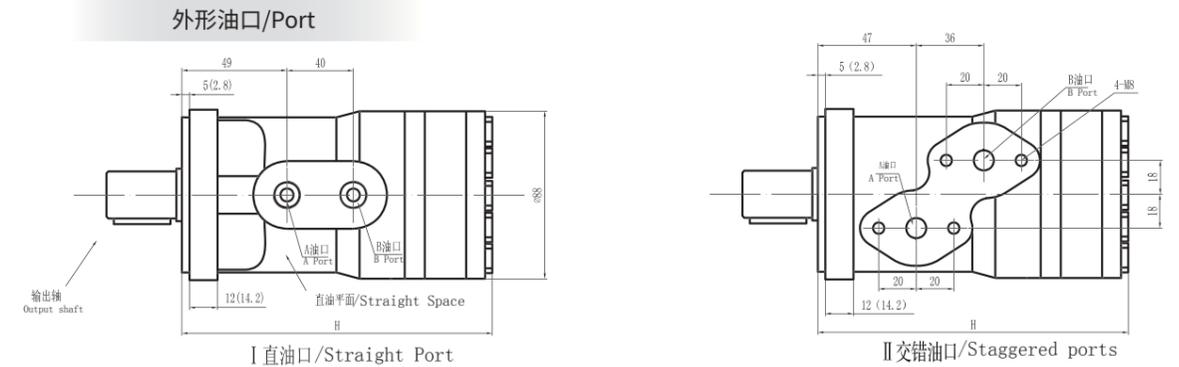
- High mechanical efficiency due to its axile distributor flow and overall gerotor gear set;
- High backpressure endurance, with advanced shaft seal;
- Multi-connection of flange, output shaft, and ports;
- Easy adjustment in speed and rotation;
- Compact structure.

主要技术参数/ Main Specification

排量 Displacement		ml/r	50	63	80	100	125	160	200	250	320	400	500
流量 Flow	连续工作 cont.	L/min	38	45	57	57	57	57	57	57	57	57	57
	断续工作 int.	L/min	45	53	68	68	68	68	68	68	68	68	68
最大转速 Max.Speed	连续工作 cont.	r/min	698	663	679	558	452	354	284	235	178	145	115
	断续工作 int.	r/min	859	774	811	669	544	425	339	281	208	171	136
压力 Pressure	连续工作 cont.	bar	124	124	124	124	124	115	110	100	90	90	83
	断续工作 int.	bar	138	138	138	138	138	124	124	124	124	110	90
扭矩 Torque	连续工作 cont.	N.m	73	86	124	154	194	228	285	304	364	466	496
	断续工作 int.	N.m	84	93	139	173	216	261	319	378	403	522	516
参考重量 Weight		Kg	5	5.3	5.5	6.1	6.2	6.4	6.7	7.1	7.4	7.7	8

- 断续工作压力指入口最大允许压力, 连续工作压力指工作压差;
- 不允许同时在最大转速和最大压力下使用马达;
- 在间断工作条件下, 马达每分钟运行时间不得超过10%;
- 推荐用油: 抗磨液压油, 粘度37-73cSt, 油液清洁度ISO18/13;
- 最高工作油温80°C;
- 该系列马达采用特殊的进口轴密封组件, 马达允许的最大背压可达10MPa, 但为获得良好的寿命及综合机械性能, 推荐使用背压不要超过5MAa, 超过时建议接外泄油管, 接外泄管时, 应保证马达内总能充满油。接外泄油管除可以保持较低的背压外, 还可以使马达内产生的磨损污染带走, 并可产生一定的冷却作用;
- 马达全负荷工作前应有磨合期, 推荐在最大工作压力的30%以下磨合1小时。
- Int.pressure: Max.input pressure; Cont.pressure: differential pressure;
- Porbit running in Max.Speed and Max.Pressure;
- In int.working condition, working time shall not be over 10% per minture;
- Suggested oil: antiwear hydraulic oil, 37-73cSt, ISO18/13;
- Max.working oil teperature: 80;
- Max.back pressure is10Mpa, but to the consideration of motor' s serive life and overall mechanical efficiency, we suggest the backpressure shall be lower than 5Mpa. Pls use drain pipe for higher backpressure and keep the motor fulfilled with oil. Drain pipe not only keep the lower back pressure, but also brings out the dirt inside and cool the motor;
- We suggest run motor with 30% Max.pressure for 1 hour for run-in period before motor works in full load.

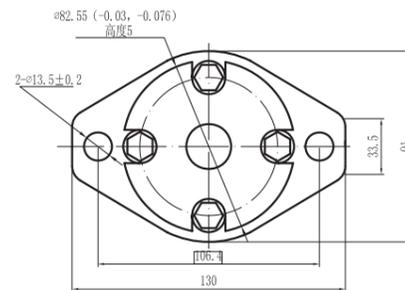
安装联接尺寸/ Installation Dimensions



排量/Disp. (ml/r)	50	63	80	100	125	160	200	250	320	400	500
H (mm)	144	146	148	150	154	158	163	169	179	189	201

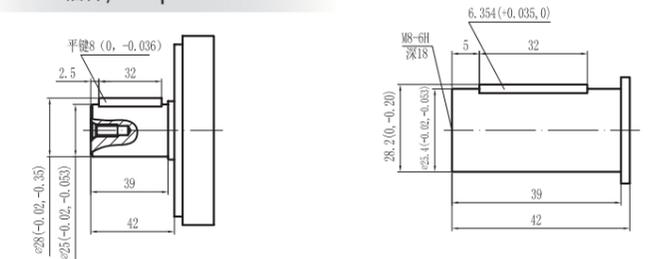
标准旋向: 面对输出轴,当A油口进油,B油口出油时, 马达顺时针旋转
Standard Rotation:A-Inport,B-OutPort, Clockwise rotation

止口/ Flange



2: 两孔菱形法兰
2: Rhomb mount two holes

轴伸/ Output Shaft



A轴: 圆柱轴 $\phi 25$ 平键: 8x7x32
Shaft A: Cylindrical Shaft $\phi 25$ Parallel Key: 8x7x32

C轴: 圆柱轴 $\phi 25.4$ 平键: 6.354x6.354x31.75
Shaft C: Cylindrical Shaft $\phi 25.4$ Parallel Key: 6.354x6.354x31.75

订货信息/ Order Information

系列 Series	按图码 Cord	安装尺寸 Mounting data	排量(cc/r) / Disp.									
			50	63	80	100	160	200	225	305	370	395
ETN JH	I 2A	直油口G1/2" 外泄油口M14X1.5 $\phi 25$ 平键8x7x32 L=42菱形法兰 $\phi 82.5 \times 5$ Aligned Port G1/2", BSP Case Drain M14x1.5, Straight F25 FLAT Key8, L=42, Diamond Flange, Pilot F82.55, Pilot Length5	012-0080	-0081	-0082	-0083	-0084	-0085	-0086	-0087	-0088	-0089
		直油口G1/2" 无外泄油口 $\phi 25$ 平键8x7x32 L=42菱形法兰 $\phi 82.5 \times 5$ Aligned Port G1/2", BSP No Case Drain Straight F25 FLAT Key8, L=42, Diamond Flange, Pilot F82.55, Pilot Length5	012-0160	-0161	-0162	-0163	-0164	-0165	-0166	-0167	-0168	-0169
	II 2A	交错油口G1/2" 外泄油口M14x1.5 $\phi 25$ 直油口平键8x7x32 L=42菱形法兰 $\phi 82.5 \times 5$ Staggered Port G1/2", BSP Case Drain Drain M14x1.5 Straight F25 Flat Key8, L=42, Diamond Flange, Pilot F82.55, Pilot Length5	012-0350	-0351	-0352	-0353	-0354	-0355	-0356	-0357	-0358	-0359
		交错油口G1/2" 外泄油口M14x1.5 $\phi 25.4$ 平键6.35x6.35x32 L=42菱形法兰 $\phi 82.5 \times 5$ Staggered Port G1/2", BSP Case Drain Drain M14x1.5 Straight F25.4 Flat Key6.35, L=42, Diamond Flange, Pilot F82.55, Pilot Length5	012-0360	-0361	-0362	-0363	-0364	-0365	-0366	-0367	-0368	-0369



结构特点:

- 采用轴配流镶柱定转子设计, 具有更高的配油精度, 机械效率更高;
- 采用进口轴密封圈, 具有高背压承受能力;
- 多种法兰、输出轴、油口等安装连接形式;
- 方便于进行转速和旋转方向的调节;
- 体积小, 结构紧凑。

Main Characteristics:

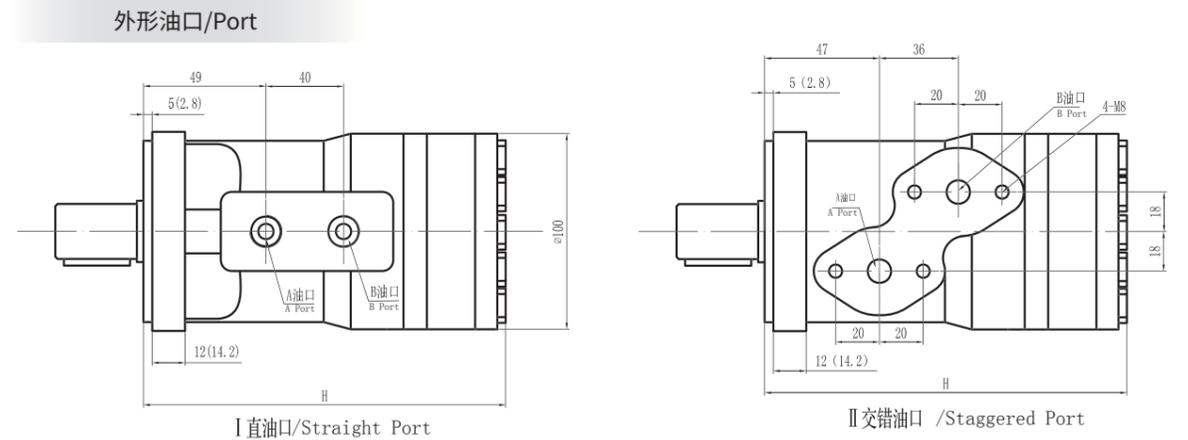
- High mechanical efficiency due to its axile distributor flow and overall gerotor gear set;
- High backpressure endurance, with advanced shaft seal;
- Multi-connection of flange, output shaft, and ports;
- Easy adjustment in speed and rotation;
- Compact structure.

主要技术参数/ Main Specification

排量 Displacement	ml/r	50	63	80	100	160	200	250	305	370	395
流量 Flow	连续工作 cont.	L/min	38	53	53	53	53	53	53	53	53
	断续工作 int.		45	57	57	57	57	57	57	57	57
最大转速 Max.Speed	连续工作 cont.	r/min	750	778	635	510	329	266	213	171	142
	断续工作 int.		875	832	680	537	347	281	226	182	150
压力 Pressure	连续工作 cont.	bar	138	138	138	138	124	124	124	103	83
	断续工作 int.		155	155	155	155	138	138	127	110	90
扭矩 Torque	连续工作 cont.	N.m	93	123	155	196	271	328	401	417	429
	断续工作 int.		105	138	174	219	297	359	410	441	427
参考重量 Weight	Kg	6.3	6.7	7.0	7.5	7.7	8.0	8.4	8.8	9.4	9.6

- 断续工作压力指入口最大允许压力, 连续工作压力指工作压差;
- 不允许同时在最大转速和最大压力下使用马达;
- 在间断工作条件下, 马达每分钟运行时间不得超过10%;
- 推荐用油: 抗磨液压油, 粘度37-73cSt, 油液清洁度ISO18/13;
- 最高工作油温80°C;
- 该系列马达采用特殊的进口轴密封组件, 马达允许的最大背压可达10MPa, 但为获得良好的寿命及综合机械性能, 推荐使用背压不要超过5Mpa, 超过时建议接外泄油管, 接外泄管时, 应保证马达内总能充满油。接外泄油管除可以保持较低背压外, 还可以使马达内产生的磨损污染带走, 并可产生一定的冷却作用;
- 马达全负荷工作前应有磨合期, 推荐在最大工作压力的30%以下磨合1小时。
 - Int.pressure: Max.input pressure; Cont.pressure: differential pressure;
 - Porbit running in Max.Speed and Max.Pressure;
 - In int.working condition, working time shall not be over 10% per minture;
 - Suggested oil: antiwear hydraulic oil, 37-73cSt, ISO18/13;
 - Max.working oil teperature: 80°C;
 - Max.back pressure is10Mpa, but to the consideration of motor' s serive life and overall mechanical efficiency, we suggest the backpressure shall be lower than 5Mpa. Pls use drain pipe for higher backpressure and keep the motor fulfilled with oil. Drain pipe not only keep the lower back pressure, but also brings out the dirt inside and cool the motor;
- We suggest run motor with 30% Max.pressure for 1 hour for run-in period before motor works in full load.

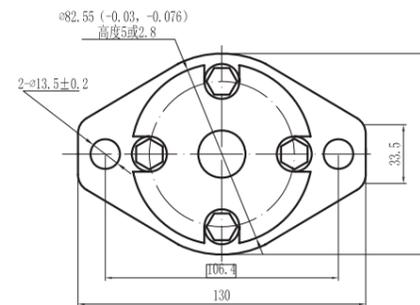
安装联接尺寸/ Installation Dimensions



排量/Disp.(ml/r)	50	63	80	100	160	200	250	305	370	395
H (mm)	153	156	159	164	170	177	186	198	209	213

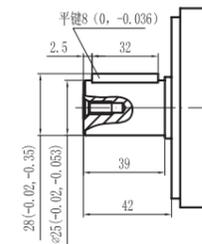
标准旋向: 面对输出轴,当A油口进油, B油口出油时, 马达顺时针旋转
Standard Rotation: A-Inport,B-OutPort, Clockwise rotation

止口/ Flange



2: 菱形法兰
2: Rhomb mount

轴伸/ Output Shaft



A轴: 圆柱轴 ø25 平键: 8x7x32
shaft A: Cylindrical shaft ø25
parallel key: 8x7x32

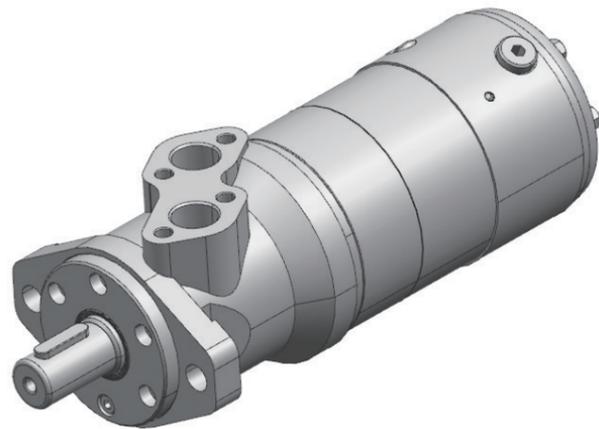
订货信息/ Order Information

系列 Series	按图码 Cord	安装尺寸 Mounting data	排量(cc/r) / Disp.									
			50	63	80	100	160	200	225	305	370	395
ETN JS	I 2A	直油口G1/2", 无外泄口 ø25轴平键8x7x32 L=42菱形法兰 ø82.5x5 Aligned port g1/2" BSP No Case Drain Straight F25 Flat key 8 L=42 Diamond Flange,Pilot F82.55, Pilot Length 5	030-0060	-0061	-0062	-0063	-0064	-0065	-0066	-0067	-0068	-0069
	II 2A	交错油口G1/2" 无外泄油口 ø25直轴平键 8x7x32 L=42菱形法兰 ø82.5x5 Staggered Port g1/2" BSP No Case Drain Straight F25 Flat Key 8 L=42 Diamond Flange, Pilot F82.55, Pilot Length5	030-0390	-0391	-0392	-0393	-0394	-0395	-0396	-0397	-0398	-0399

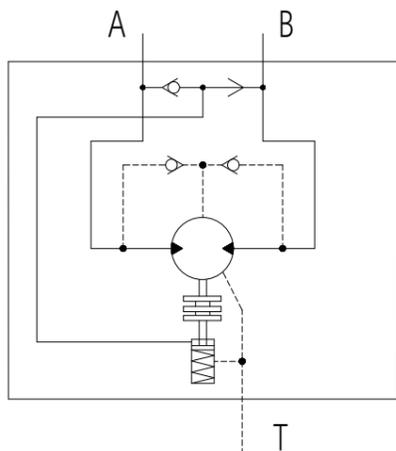
BMR-BK4 一款摩擦副直接制动联动轴轴配流制动马达，制动可靠，内置梭阀和制动油路，多组弹簧制动力，结构紧凑，可灵活调整，装配、参数调整和拆卸维修等方面。

BMR-BK4 is a direct-braking universal driving shaft valve spindle brake motor with friction pair, characterized by reliable braking, built-in shuttle valve, brake oil circuit, multiple groups of spring braking force, compact structure, flexible adjustment, assembly, parameter adjustment and convenient disassembly and maintenance.

外形示意图/ Outline Diagram



标准制动马达原理图/ Schematic Diagram of Standard Brake Motor



注：使用时，如不接外泄油口T，制动器开启压力会相应增加。

Note: if the external oil drain port T is not connected, the brake opening pressure will increase accordingly during use.

主要技术参数/ Main Specification

以下表格技术参数为BMR-BK4系列制动马达平键轴Φ25、Φ25.4，花键轴Φ25.4，锥轴Φ28.56

The technical parameters of the following table are flat key shaft Φ25, Φ25.4, spline shaft Φ25.4 and taper shaft Φ28.56 for BMR-BK4 brake motor

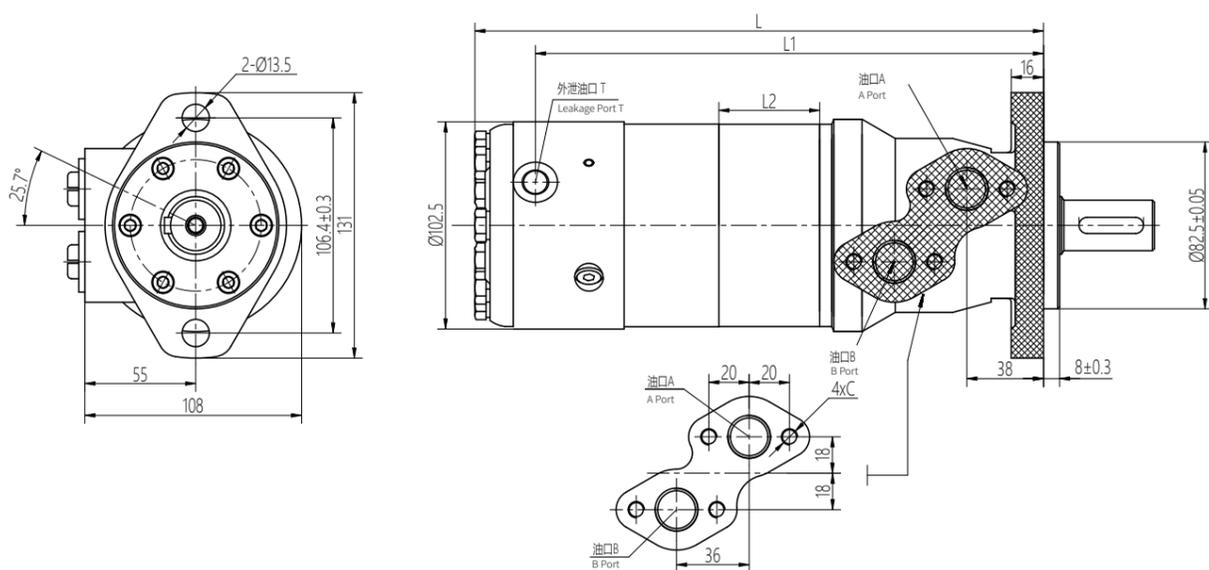
类型 Type	/	BMR-BK4 65	BMR-BK4 80	BMR-BK4 100	BMR-BK4 125	BMR-BK4 160	BMR-BK4 200	BMR-BK4 250	BMR-BK4 310	BMR-BK4 395	
排量 Displacement	ml/r	66.8	81.5	102	127.2	157.2	194.5	253.3	311	384	
最大转速 Max.Speed	连续工作 cont.	r/min	800	750	600	475	378	310	240	190	155
	断续工作 int.		950	940	750	600	475	385	300	240	190
最大扭矩 Max.Torque	连续工作 cont.	N.m	165	195	240	300	360	360	410	490	500
	断续工作 int.		195	220	280	340	430	440	490	550	620
	峰值 Peak		220	270	320	370	460	560	640	650	680
最大输出功率 Max.Output Power	连续工作 cont.	kW	11	12.5	13	12.5	12.5	10	7	9	7.5
	断续工作 int.		13	15	15	14.5	14	13	9.5	10	9
最大工作压差 Max.Operating Differential Pressure	连续工作 cont.	MPa	17.5	17.5	17.5	17.5	16.5	13	12	12	10
	断续工作 int.		20	20	20	20	20	18	15	14	12.5
	峰值 Peak		22.5	22.5	22.5	22.5	22.5	22.5	20	17.5	15
最大流量 Max.Flow Rate	连续工作 cont.	L/min	55	60	60	60	60	60	60	60	60
	断续工作 int.		65	75	75	75	75	75	75	75	75
结构型号 Structural model	/	BMR-BK4			BMR-BK4A			BMR-BK4B			
静态制动扭矩 Static braking torque	N·m	300~360			360~440			460~540			
制动器开启压力 Brake opening pressure	MPa	1.2~1.5			1.4~1.9			1.7~2.3			
制动油口最大承压 Max. pressure of braking circuit connector	MPa	20			20			20			
参考重量 Weight	Kg	11.4	11.7	11.9	12.1	12.4	12.9	13.5	13.8	13.8	

- 连续值是指该排量马达可以连续工作的最大值；
- 断续值是指该排量马达在1分钟内工作6秒的最大值；
- 峰值是指该排量马达在1分钟内工作0.6秒的最大值；
- 工作压差指进出口的压力差，进油压力指马达高压油口压力；
- 马达应选择最高连续工况的1/3-2/3处的高效区最佳工况；
- 可根据实际工况和环境温度选用液压油，油温在40°C时的运动粘度42-74mm²/s，工作油液的固体污染度等级不得高于19/16，系统最高工作油温90°C (不应超过1小时)；
- 马达负荷工作前应在最高连续工作压力的30%内跑合运行约1小时；
- 马达具有可选压力等级轴封。

- Continuous value refers to the maximum value of the displacement motor operating continuously;
- The intermittent value refers to the maximum value of the displacement motor operating for 6 seconds in 1 minute;
- Peak is the maximum value of the displacement motor operating for 6 seconds in 1 minute;
- The working pressure difference refers to the pressure difference between the oil inlet and outlet ports, and the oil inlet pressure refers to the pressure of the high-pressure oil port of the motor;
- The motor with the best operating condition at zone 1/3-2/3 of the highest continuous operating condition shall be selected;
- Hydraulic oil can be selected according to the actual operating conditions and ambient temperature, the kinematic viscosity of the oil temperature at 40°C shall be 42-74mm²/s, the solid pollution level of the operating oil shall not be higher than 19/16, and the maximum operating oil temperature of the system shall be 90°C (no more than 1 hour);
- Before the motor is loaded, it shall be operated for about 1 hour within 30% of the maximum continuous operating pressure;
- The motor has an optional pressure grade shaft seal.

安装联接尺寸 / Installation Dimensions

2 法兰 / 2 Flange

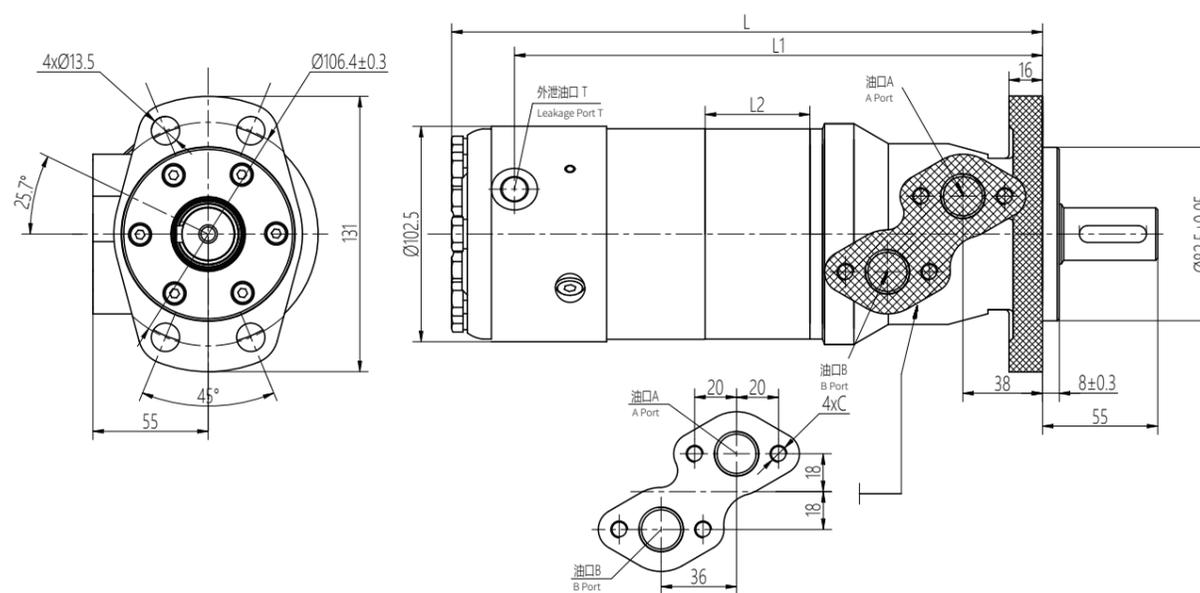


	代号/Code				
	D(深/Deep)	M(深/Deep)	S(深/Deep)	P(深/Deep)	R(深/Deep)
P(A、B)	G1/2(15)	M22x1.5(15)	7/8-14UNF(17)	1/2-14NPTF(15)	PT(RC)1/2(15)
T	G1/4(12)	M14x1.5(12)	7/16-20UNF(12)	7/16-20UNF(12)	PT(RC)1/4(12)
C	4xM10(13)	4xM8(13)	4x5/16-18UNC(13)4	4x5/16-18UNC(13)	4xM8(13)

型号/Model	L	L1	L2
BMR-BK4-65	247	215	13
BMR-BK4-80	250	218	16
BMR-BK4-100	254	222	20
BMR-BK4-125	259	227	25
BMR-BK4-160	264.5	232.5	30.5
BMR-BK4-200	272.1	240.1	38.1
BMR-BK4-250	284	252	50
BMR-BK4-310	288	256	54
BMR-BK4-395	288	256	54

安装联接尺寸 / Installation Dimensions

4 法兰 / 4 Flange

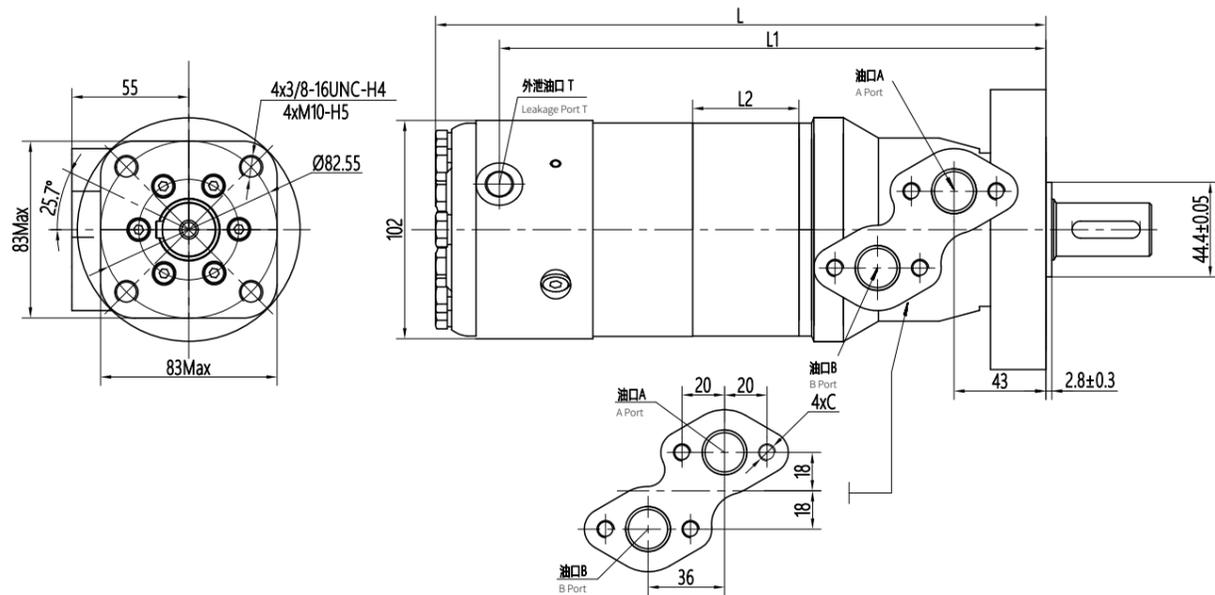


	代号/Code				
	D(深/Deep)	M(深/Deep)	S(深/Deep)	P(深/Deep)	R(深/Deep)
P(A、B)	G1/2(15)	M22x1.5(15)	7/8-14UNF(17)	1/2-14NPTF(15)	PT(RC)1/2(15)
T	G1/4(12)	M14x1.5(12)	7/16-20UNF(12)	7/16-20UNF(12)	PT(RC)1/4(12)
C	4xM10(13)	4xM8(13)	4x5/16-18UNC(13)4	4x5/16-18UNC(13)	4xM8(13)

型号/Model	L	L1	L2
BMR-BK4-65	247	215	13
BMR-BK4-80	250	218	16
BMR-BK4-100	254	222	20
BMR-BK4-125	259	227	25
BMR-BK4-160	264.5	232.5	30.5
BMR-BK4-200	272.1	240.1	38.1
BMR-BK4-250	284	252	50
BMR-BK4-310	288	256	54
BMR-BK4-395	288	256	54

安装联接尺寸 / Installation Dimensions

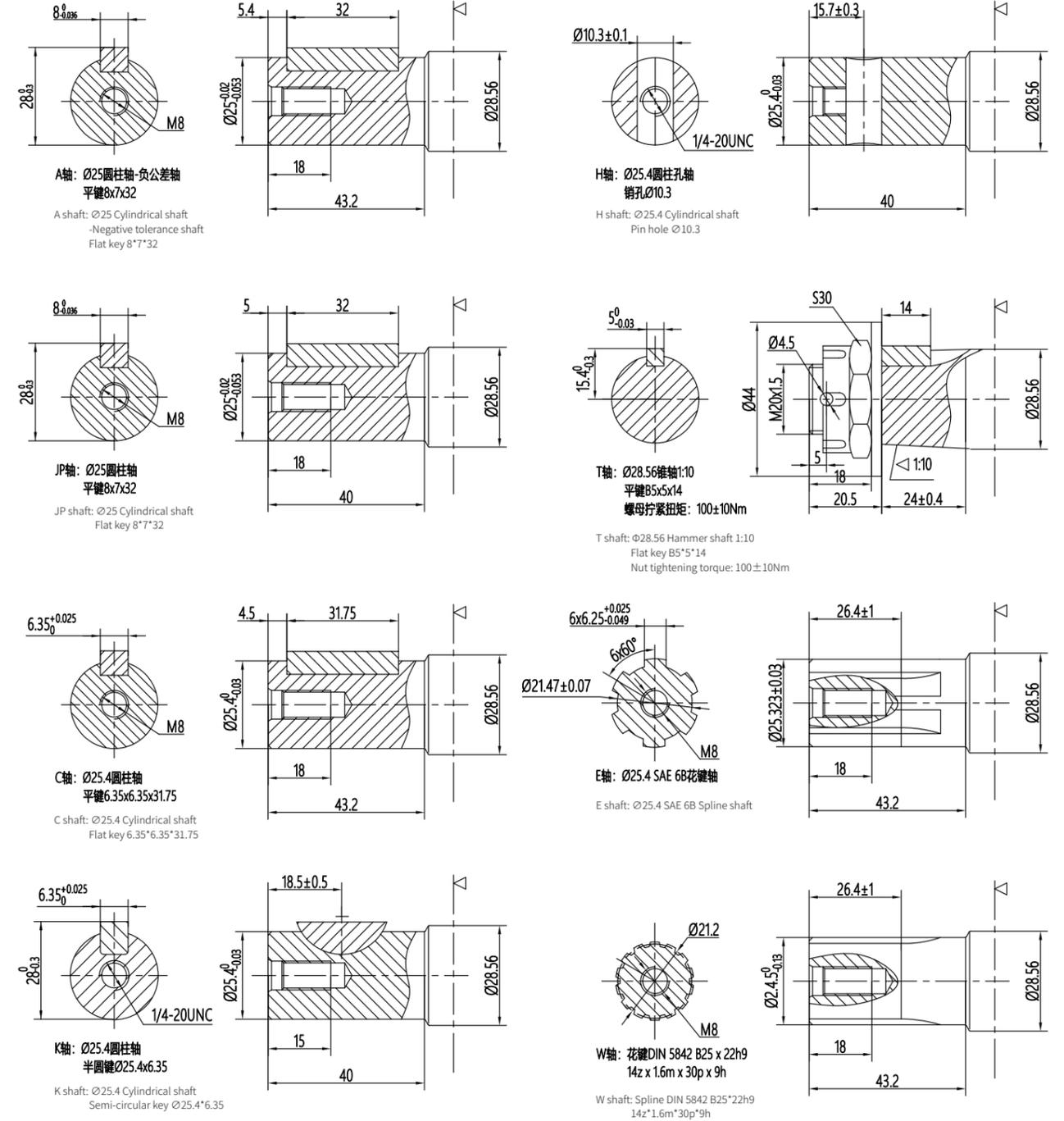
H4/H5 法兰 / H4/H5 Flange



	代号/Code				
	D(深/Deep)	M(深/Deep)	S(深/Deep)	P(深/Deep)	R(深/Deep)
P(A/B)	G1/2(15)	M22x1.5(15)	7/8-14UNF(17)	1/2-14NPTF(15)	PT(RC)1/2(15)
T	G1/4(12)	M14x1.5(12)	7/16-20UNF(12)	7/16-20UNF(12)	PT(RC)1/4(12)
C	4xM10(13)	4xM8(13)	4x5/16-18UNC(13)4	4x5/16-18UNC(13)	4xM8(13)

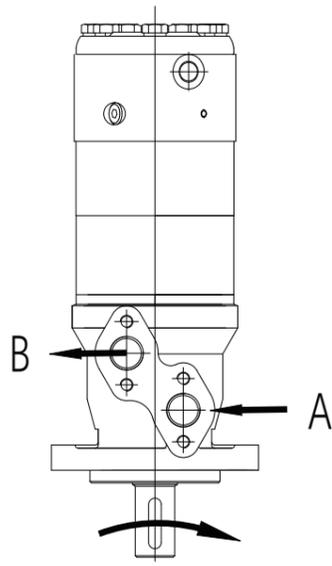
型号/Model	L	L1	L2
BMR-BK4-65	247	215	13
BMR-BK4-80	250	218	16
BMR-BK4-100	254	222	20
BMR-BK4-125	259	227	25
BMR-BK4-160	264.5	232.5	30.5
BMR-BK4-200	272.1	240.1	38.1
BMR-BK4-250	284	252	50
BMR-BK4-310	288	256	54
BMR-BK4-395	288	256	54

轴伸连接尺寸 / Shaft Extension Connection Dimensions



以上输出轴建议最大输出扭矩: 450Nm
Recommended maximum output torque of the above output shaft: 450Nm

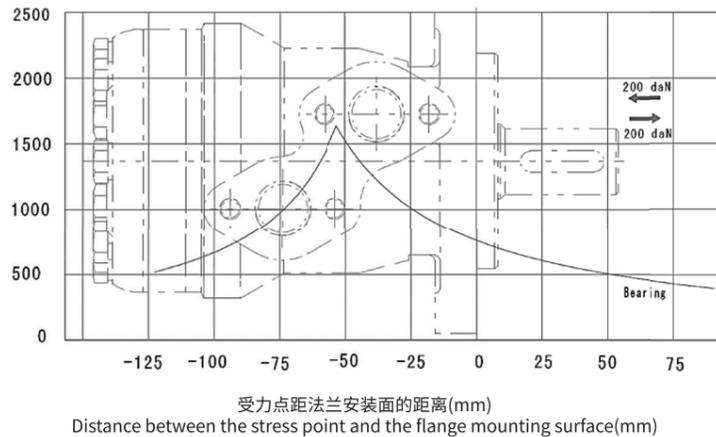
输出轴旋转方向/ Rotation Direction of Output Shaft



输出轴旋转方向: 标准
Output shaft rotation direction: standard

当面对马达轴伸方向, A油口为高压油时, 输出轴顺时针方向旋转; 反之, 则逆时针方向旋转。
When facing the motor shaft extension direction, if the A oil port is of high-pressure oil, the output shaft rotates in the clockwise direction; otherwise, it rotates in a counterclockwise direction.

输出轴径向力/ Radial Force of Output Shaft



这Bearing轴承径向负载曲线, 是保证轴承寿命 L_{10} (12×10^6 运转次数) 或者100r/min转速下运转2000h时, 允许负载。
The radial Load curve of the bearing is to ensure the allowable load when the bearing life is L_{10} (12×10^6 cycles) or 100r/min speed for 2,000h.

对于不同转速, 轴承负荷可以用以下系数乘以轴承径向负载曲线中的数值获得
For different speeds, the bearing load can be obtained by multiplying the following factors by the values in the radial load curve of the bearing

输出轴轴承承载与乘法系数关系 Output shaft bearing and multiplication factor									
转速/Speed	50	100	200	300	400	500	600	700	800
系数/Factor	1.23	1	0.81	0.72	0.66	0.62	0.58	0.56	0.54

订货信息/ Order Information

例/Example:

1	2	3	4	5	6	7	8
BMR-BK4							

Pos.1	2	3	4	5	6	7	8	
结构代码 Structural code	排量 Displacement	法兰、止口 Flange and seam allowance	轴伸 Shaft extension	油口、外泄口 Oil port and drain port	旋向工况 Rotational condition	油漆选项 Paint option	特殊功能 Special functions	
BMR-BK4		2 2xΦ13.5 菱法兰, 止口Φ82.5x8 2xΦ13.5 rhombic flange and seam allowance Φ82.5x8	A Φ25 轴, 平键 8X7X32(负公差轴径) Φ25 shaft, flat key 8X7X32 (negative tolerance shaft diameter)	D G1/2 板式4XM8, G1/4 G1/2 plate 4XM8, G1/4				
		J2 2xΦ13.5 菱法兰, 止口Φ82.5x5 2xΦ13.5 rhombic flange and seam allowance Φ82.5x5	C Φ25.4 轴, 平键 6.35X6.35X31.75 Φ25.4 shaft and flat key 6.35X6.35X31.75	M M22X1.5板式 4XM8, M14X1.5 M22X1.5 plate 4XM8, M14X1.5		00 不油漆		
BMR-BK4A	65 80 100 125 160 200 250 310 395	4 4xΦ13.5 菱法兰, 止口Φ82.5x8 4xΦ13.5 rhombic flange and seam allowance Φ82.5x8	JP Φ25 轴, 平键 8X7X32 Φ25 shaft, flat key 8X7X32	S 7/8-14UNF 板式 4X5/16-18UNC, 7/16-20UNF 7/8-14UNF plate 4X5/16-18UNC, 7/16-20UNF	无 None	标准 Standard	无 None	默认 (磷化)
		H4 4x3/8-16 方法兰, 止口Φ44.4x2.8 4x3/8-16 square flange and seam allowance Φ44.4x2.8	K Φ25.4轴, 半圆键Φ25.4X6.35 Φ25.4 shaft and semi-circular key	R 反向 Reverse	B 黑漆		N1 大径向力 Large radial force	
		H5 4xM10 方法兰, 止口Φ44.4x2.8 4xM10 square flange and seam allowance Φ44.4x2.8	H Φ25.4X6.35Φ25.4 孔轴, 销孔Φ10.3 Φ25.4 hole shaft and pin hole Φ10.3	P 1/2-14NPTF 板式 4X5/16-18UNC, 7/16-20UNF 1/2-14NPTF plate 4X5/16-18UNC, 7/16-20UNF		S 银灰漆		
BMR-BK4B			W Φ24.5 轴, 花键 Din 5482 B25X22h9 Φ24.5 shaft and spline Din 5482 B25X22h9	R PT(Rc)1/2 板式 4XM8, PT(Rc)1/4 PT(Rc)1/2 plate 4XM8, PT(Rc)1/4				
			T Φ28.56 锥轴, 平键 B5X5X 14 Φ28.56 taper shaft and flat key B5X5X 14					

注:用户在使用订货信息时, 将马达结构、排量、安装法兰、轴伸、进出油口等信息, 选择左面作色部位的代号按上面格式写给我们即可。
若所选规格不在上述表中或特殊要求, 请与我们联系。
马达的输出轴输出承受扭矩能力与轴型有关, 可选其他更大尺寸轴型。

Note: when using the order information, the user can write the information such as motor structure, displacement, mounting flange, shaft extension and oil inlet and outlet, and select the code of the color part on the left side according to the above format.
If the selected specification is not in the table above or there are special requirements, please contact us.
The output torque capacity of the output shaft for the motor depends on the shaft type, and other larger shaft types are optional.