

我们的产品 Our Products

静液压传动 Hydrostatic transmission
齿轮传动 Gear transmission
液压葫芦 Hydraulic hoist
铣挖机及挖机属具 Drum cutter and excavator attachments
液压系统 Hydraulic system

我们的优势 Our Advantages

满足客户需求的持续创新 Continuous innovation to meet customer needs
定制化的传动系统方案 Customized transmission system solutions
全方位技术支持 Comprehensive technical support
数字化智能制造工厂 Digital intelligent manufacturing factory
全球范围本地化支持网络 Global localized support network

我们的市场 Our Market

煤矿机械 Coal mining machinery
工程机械 Construction machinery
农业领域 Agricultural machinery
物流设备 Logistics equipment
工业领域 Industrial area
海运领域 Shipping area

上海工厂 上海市松江区新浜工业区天台路102号
Shanghai Factory No.102, Tiantai Road, Xinbang Industrial Zone, Songjiang District, Shanghai

嘉兴工厂 浙江省嘉兴市南湖区大桥镇东风路1570号
Jiaxing Factory No.1570 Dongfeng Road, Daqiao Town, Nanhu District, Jiaxing City, Zhejiang Province

安徽工厂 安徽省阜阳市颍泉区周棚街道周棚路81号
Anhui Factory No.81, Zhoupeng Road, Zhoupeng Street, Yingquan District, Fuyang City, Anhui Province

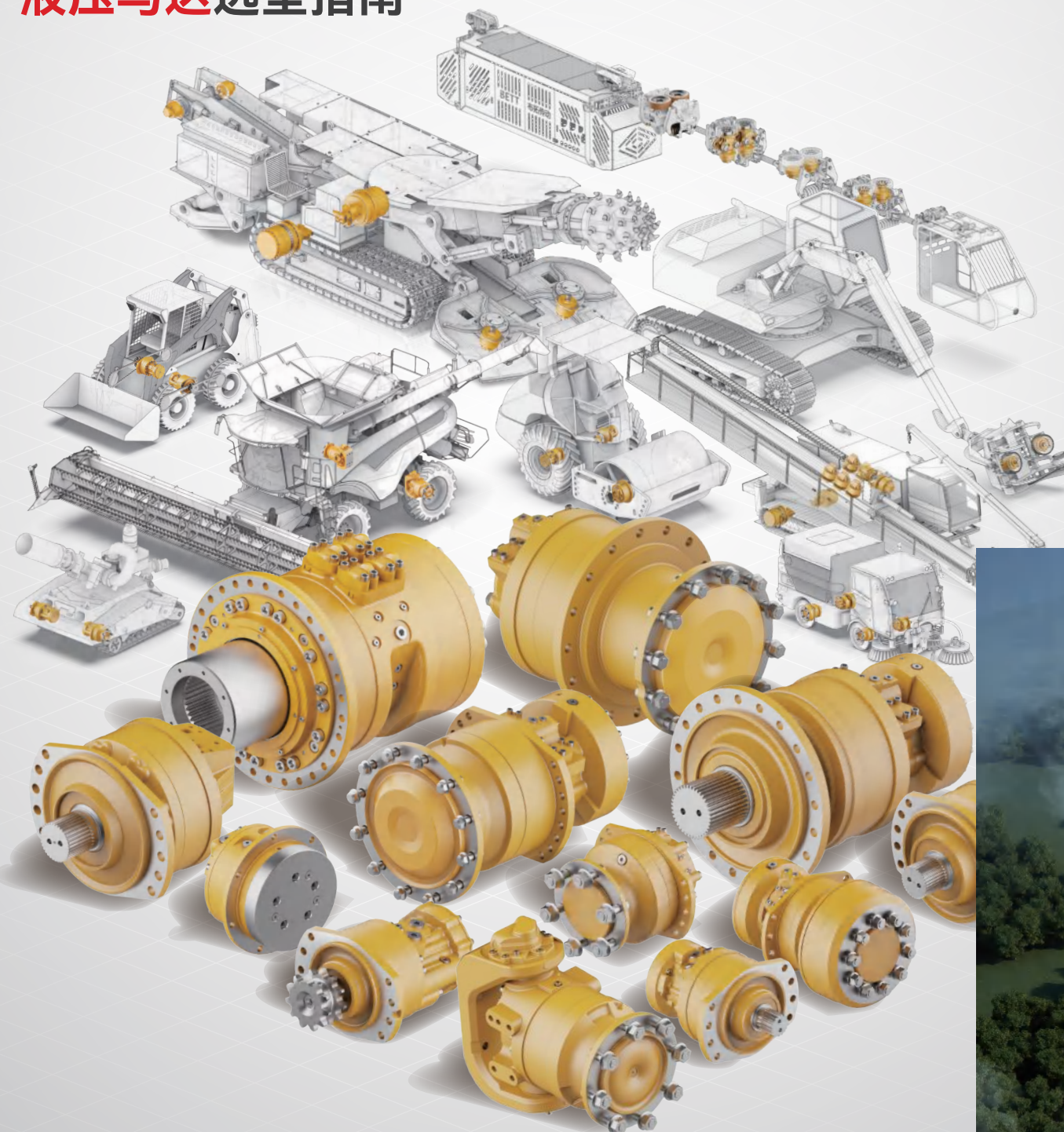
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微信搜索 布拓传动

HYDRAULIC MOTOR SELECTION GUIDE

液压马达选型指南



COMPANY INTRODUCTION

企业介绍

布拓传动有限公司是一家发展强劲的国家级高新技术企业。自 2010 年成立以来，主要致力于提供更适合现代市场需求和更严格质量要求的液压马达、液压葫芦、铣挖头、减速机 等静液压传动及齿轮传动的专业化解决方案，广泛应用于工程机械、煤矿机械、石油机械、船舶机械、冶金机械、港口机械、盾构机械、农业机械等行业。

布拓传动秉承专业、规范、创新与品质的经营理念，实施智能制造、技术创新战略，注重核心自主知识产权的积累和保护，坚持“开拓创新，追求卓越”，采用先进的生产工艺和严格的质量管理体系，提供可靠产品和服务，为客户创造价值、为员工提供平台、为企业创造财富、为社会承担责任。

BETT Transmission Co., Ltd. is a national high-tech enterprise with strong development. Since its establishment in 2010, it has been mainly committed to providing professional solutions for hydro static transmission and gear transmission such as hydraulic motors, hydraulic hoists, milling heads, reducers, etc. These are more suitable for modern market needs and more stringent quality requirements. They are widely used in engineering machinery, coal mining machinery, petroleum machinery, ship machinery, metallurgical machinery, port machinery, shield machinery, agricultural machinery and other industries.

BETT Transmission adheres to the business philosophy of professionalism, standardization, innovation and quality, implements intelligent manufacturing and technological innovation strategies, focuses on the accumulation and protection of core independent intellectual property rights, adheres to "pioneering innovation and pursuit of excellence", adopts advanced production technology and strict quality management system, provides reliable products and professional services, creates value for customers, provides a platform for employees, creates wealth for enterprises, and takes responsibility for society.



PRODUCTS CATALOG

目录

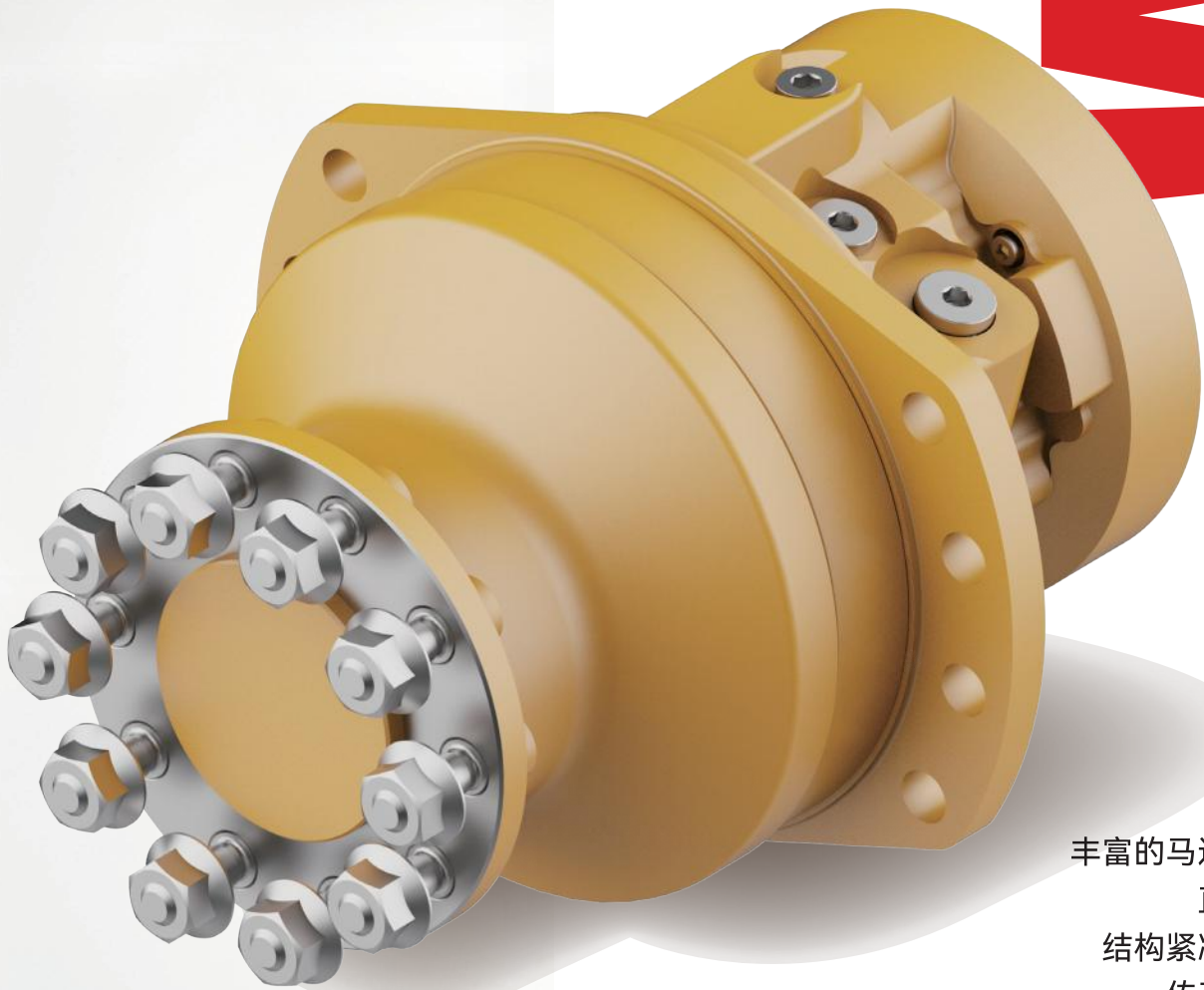
	BM 多用途马达 BM Multi-purpose Motor	03									
<table><tr><td>排量范围</td><td>Displacement range</td><td>172-30000 cm³/r</td></tr><tr><td>最高转速</td><td>Max speed</td><td>900 RPM</td></tr><tr><td>最大功率</td><td>Max power</td><td>500 kW</td></tr></table>			排量范围	Displacement range	172-30000 cm³/r	最高转速	Max speed	900 RPM	最大功率	Max power	500 kW
排量范围	Displacement range	172-30000 cm³/r									
最高转速	Max speed	900 RPM									
最大功率	Max power	500 kW									
	BMP 高性能马达 BMP High-Performance Motor	17									
<table><tr><td>排量范围</td><td>Displacement range</td><td>900-3526 cm³/r</td></tr><tr><td>最高转速</td><td>Max speed</td><td>548 RPM</td></tr><tr><td>最大功率</td><td>Max power</td><td>280 kW</td></tr></table>			排量范围	Displacement range	900-3526 cm³/r	最高转速	Max speed	548 RPM	最大功率	Max power	280 kW
排量范围	Displacement range	900-3526 cm³/r									
最高转速	Max speed	548 RPM									
最大功率	Max power	280 kW									
	BMF 可转向轮边马达 BMF Steerable Wheel Motor	27									
<table><tr><td>排量范围</td><td>Displacement range</td><td>172-2519 cm³/r</td></tr><tr><td>最高转速</td><td>Max speed</td><td>510 RPM</td></tr><tr><td>最大功率</td><td>Max power</td><td>80 kW</td></tr></table>			排量范围	Displacement range	172-2519 cm³/r	最高转速	Max speed	510 RPM	最大功率	Max power	80 kW
排量范围	Displacement range	172-2519 cm³/r									
最高转速	Max speed	510 RPM									
最大功率	Max power	80 kW									
	BMC 紧凑型马达 BMC Compactness Motor	33									
<table><tr><td>排量范围</td><td>Displacement range</td><td>270-2812 cm³/r</td></tr><tr><td>最高转速</td><td>Max speed</td><td>160 RPM</td></tr><tr><td>最大功率</td><td>Max power</td><td>70 kW</td></tr></table>			排量范围	Displacement range	270-2812 cm³/r	最高转速	Max speed	160 RPM	最大功率	Max power	70 kW
排量范围	Displacement range	270-2812 cm³/r									
最高转速	Max speed	160 RPM									
最大功率	Max power	70 kW									

多用途马达

Multi-purpose motor

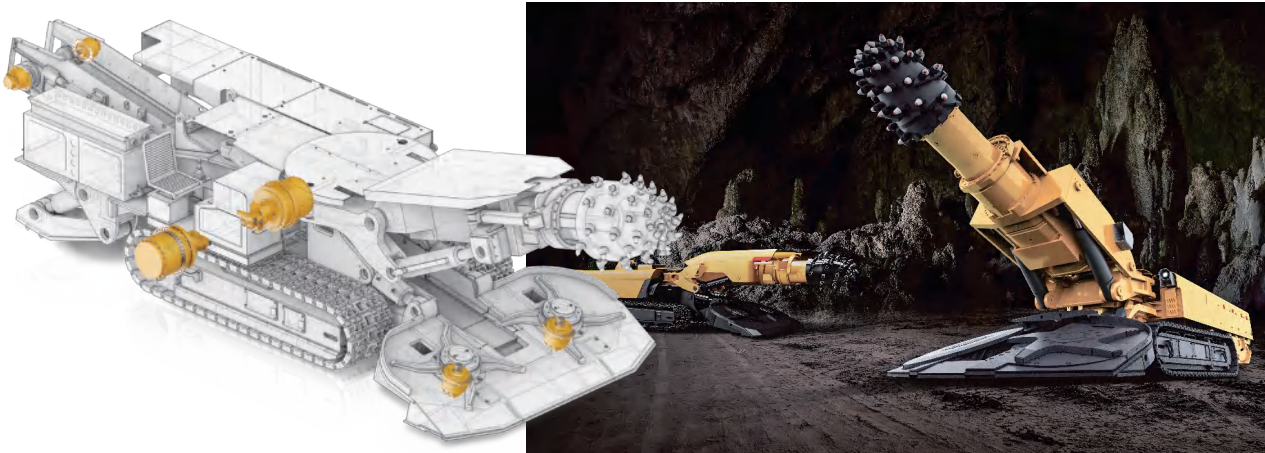
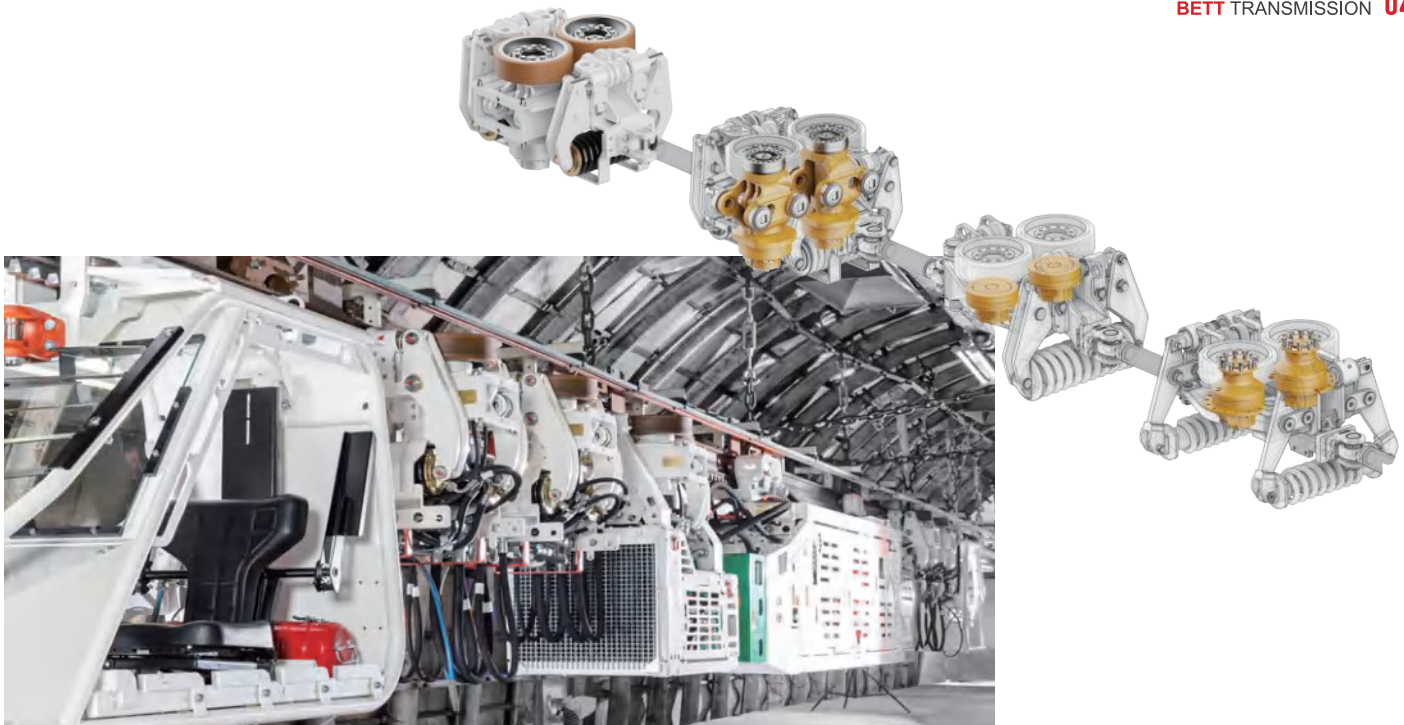
满足多种需求的解决方案

A solution tailored to meet diverse needs



丰富的马达产品线
直接驱动
结构紧凑、坚固
传动效率高
密封性能高
启动扭矩大、噪声低

comprehensive motor product line
Direct drive
Compact and robust design
High transmission efficiency
Superior sealing performance
High starting torque and low noise



BM/BME

BM/BME02 BM/BME05 BM/BME08 BM/BME11
BM/BME18 BM25 BM35 BM50 BM83 BM125 BM250

排量 Displacement range 最大转速 Max speed

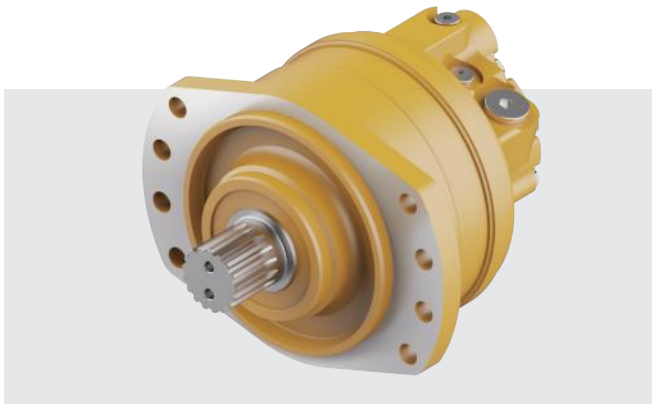
172-30000 cm³/r **900** RPM

最大扭矩 Max torque 最大功率 Max power

166950 N.m **500** kW

最大压力 Max pressure

450 bar



BM 技术参数 BM Technical Parameters

		全排量 ^① Full displacement				半排量 ^② Half displacement			
型号 Model	最高压力 Max pressure	排量范围 Displacement	最大扭矩 [®] Max torque	最高转速 Max speed	最高功率 Max power	排量范围 Displacement	最大扭矩 [®] Max torque	最高转速 Max speed	最高功率 Max power
	bar [PSI]	cm³/r [cu.in/rev]	Nm [lb.ft]	RPM	kW [HP]	cm³/r [cu.in/rev]	Nm [lb.ft]	RPM	kW [HP]
BM02	450 [6,527]	172-255 [10.5-15.6]	1800 [1,227]	580	18 [24]	86-128 [5.2-7.8]	916 [676]	590	12 [16]
BME02	400 [5,802]	332-398 [20.2-24.3]	2500 [1,843]	265	22 [29.5]	166-199 [10.1-12.1]	1260 [930]	340	16.5 [22]
BM05	450 [6,527]	260-560 [15.9-34.2]	4000 [2,950]	350	29 [39]	130-280 [7.9-17.1]	2000 [1,475]	360	19 [25]
BME05	400 [5,802]	503-750 [30.7-45.7]	4770 [3,518]	250	29 [39]	252-375 [15.4-22.9]	2390 [1,762]	300	19 [25]
BM08	450 [6,527]	467-934 [28.5-57.0]	6690 [4,934]	235	41 [55]	234-467 [14.2-28.5]	3345 [2,467]	250	27 [36]
BME08	400 [5,802]	1043-1248 [63.6-76.1]	7945 [5,859]	125	41 [55]	522-624 [31.8-38.1]	3970 [2,928]	110	27 [36]
BM11	450 [6,527]	730-1259 [44.5-76.8]	9000 [6,638]	200	50 [67]	365-630 [22.3-38.4]	4500 [3,319]	200	33 [44]
BME11	400 [5,802]	1263-1687 [77.0-102.9]	10700 [7,891]	170	50 [67]	632-630 [38.5-51.4]	5370 [3,960]	190	33 [44]
BM18	450 [6,527]	1091-2099 [66.5-128]	15000 [11,063]	170	70 [94]	546-1050 [33.3-64]	7520 [5,546]	170	47 [63]
BME18	400 [5,802]	2340-2812 [142.8-171.6]	17900 [13,202]	90	70 [94]	1170-1406 [71.4-85.8]	8950 [6,601]	110	47 [63]
BM25	450 [6,527]	2004-3006 [122.3-183.4]	21500 [15,857]	145	90 [121]	1002-1503 [61.1-91.7]	10760 [7,936]	145	60 [80]
BM35	450 [6,527]	2439-4198 [148.8-256]	30000 [22,126]	140	110 [148]	1220-2099 [74.4-128]	15000 [11,063]	140	73 [98]
BM50	450 [6,527]	3500-6011 [213.5-366.6]	43000 [31,715]	205	140 [188]	1750-3006 [106.7-183.3]	21580 [15,878]	225	93 [125]
BM83	450 [6,527]	6679-10019 [407.4-611.1]	71500 [52,924]	200	200 [268]	3340-5010 [203.7-305.5]	35880 [26,464]	145	135 [181]
BM125	320-450 [4,640-6,530]	10000-15000 [610-915]	77000 [56,792]	130	240 [322]	5000-7500 [305-457.4]	53715 [39,618]	105	160 [215]
BM250	350-450 [5,076-6,527]	17500-30000 [1,076-1,830]	166950 [84,899]	100	500 [680]	-	-	-	-

①可用于单排量或双排量马达

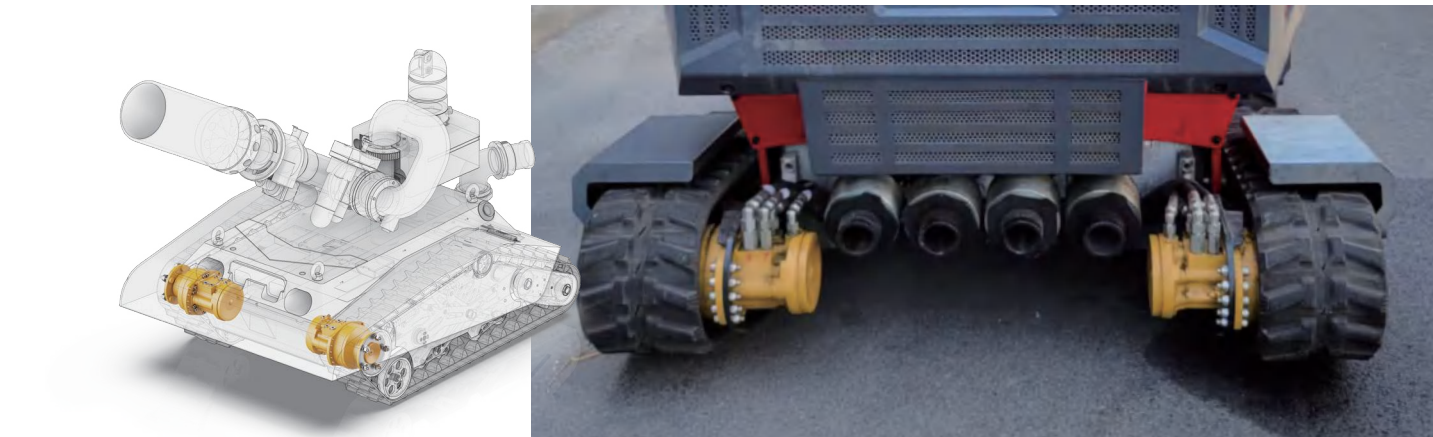
②仅可用于双排量马达

③最大理论扭矩 (Nm): 1/(20 π) x 最大排量 (cm³/r) x 最高压力 (bar)

①Available for single or dual displacement motors

②Only available for dual displacement motors

③Max theoretical torque(Nm): 1/(20 π) x Max displacement (cm³/r) x Max pressure (bar)



BM 尺寸参数 BM Dimension Parameters

轮边马达 Wheel Motor

			BM02 BME02	BM05 BME05	BM08 BME08	BM11 BME11	BM18 BME18	BM25	BM35	BM50	BM83	BM125
mm [in]	L1	1C	214.5 [8.44]	289.5 [11.40]	305.9 [12.04]	335.8 [13.22]	395 [15.55]	450.2 [17.72]	451.2 [6.47]	511 [20.11]	591 [23.26]	739 [29.09]
		2C	252.5 [9.94]	289.5 [11.40]	306.7 [12.07]	335.8 [13.22]	375 [14.76]	455 [17.91]	497 [19.56]	511 [20.11]	591 [23.26]	739 [29.09]
	L2 最大 [®] Max	1C	266 [10.47]	344 [13.54]	385 [15.15]	420.3 [16.54]	496 [19.52]	544 [21.41]	584 [22.99]	650 [25.59]	780 [30.71]	906 [35.67]
		2C	304 [11.97]	344 [13.54]	385.2 [15.16]	420.3 [16.54]	477 [18.78]	584 [22.99]	630 [24.80]	650 [25.59]	780 [30.71]	906 [35.67]
	最大直径A Max diameter A		235 [9.25]	300 [11.81]	335 [13.19]	375 [14.76]	425 [16.73]	485 [19.09]	485 [19.09]	485 [19.09]	555.5 [21.87]	565 [22.24]
kg [lb]	重量最大值 [®] Max weight		34 [75]	55 [121]	79 [174]	110 [242]	160 [352]	280 [617]	269 [592]	325 [716]	546 [1,201]	563 [1,239]

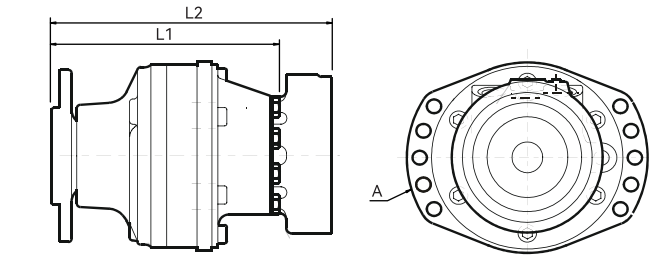
1C 单排量 / 2C 双排量

- ①具有最长多片式制动器的轮边马达
- ②具有多片式制动器的双排量轮边马达

1C Single displacement / 2C Dual displacement

①Wheel motor with longest multi-disc brake

②Dual displacement wheel motor with multi-disc brake



轴马达 Shaft Motor

			BM02 BME02	BM05 BME05	BM08 BME08	BM11 BME11	BM18 BME18	BM25	BM35	BM50	BM83	BM125	BM250
mm [in]	L1	1C	258.1 [10.16]	312 [12.28]	332 [13.07]	380 [14.94]	432 [17.00]	520 [20.47]	560 [22.04]	678 [26.69]	822 [32.36]	822 [32.36]	959 [37.76]
		2C	289.5 [11.4]	312 [12.28]	341 [13.42]	380 [14.94]	432 [17.00]	538 [21.18]	560 [22.04]	705 [27.75]	822 [32.36]	822 [32.36]	-
	L2 最大 [®] Max	1C	310.5 [12.22]	370 [14.56]	403 [15.86]	458.5 [18.05]	532.3 [20.95]	652 [25.67]	660 [25.98]	817 [32.16]	955 [37.60]	962 [37.87]	-
		2C	338 [13.3]	370 [14.56]	418 [16.45]	458.5 [18.05]	532.3 [20.95]	670 [26.37]	660 [25.98]	850 [33.46]	955 [37.60]	962 [37.87]	-
	最大直径A Max diameter A		235 [8.07]	300 [11.81]	335 [13.19]	375 [14.76]	425 [16.73]	485 [19.09]	425 [16.73]	485 [19.09]	565 [22.24]	565 [22.24]	631 [24.84]
kg [lb]	重量最大值 [®] Max weight		36 [79]	55 [121]	85 [187]	114 [251]	147 [324]	255 [561]	269 [592]	353 [778]	527 [1,159]	573 [1,261]	920 [2,028]

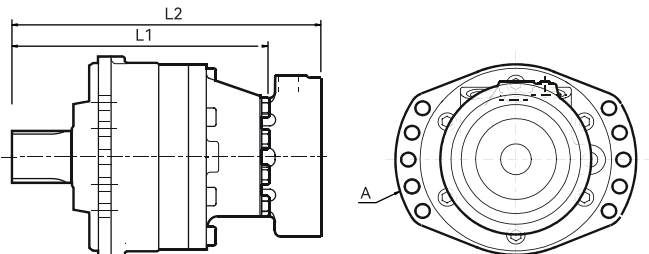
1C 单排量 / 2C 双排量

- ①具有最长多片式制动器的轴马达
- ②具有多片式制动器的双排量轴马达

1C Single displacement / 2C Dual displacement

①Shaft motor with longest multi-disc brake

②Dual displacement shaft motor with multi-disc brake



BM^{HF}

高流量马达 High-flow Motor

低能耗 高生产率

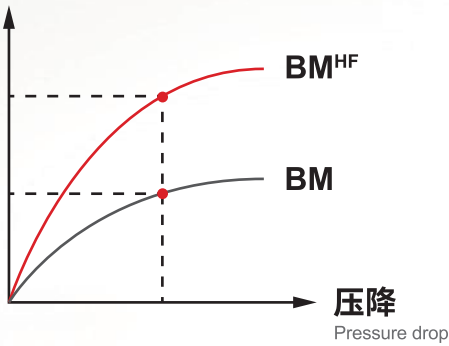
Low energy consumption, high productivity

- 高流量链轮驱动
 - 专用紧凑型设计
 - 集成多种功能
 - 更适合滑移装载机转向要求
- High-flow sprocket drive
 - Dedicated compact design
 - Multiple functions
 - Better suited for the steering requirements of skid steer loaders



最佳转速
Optimal speed

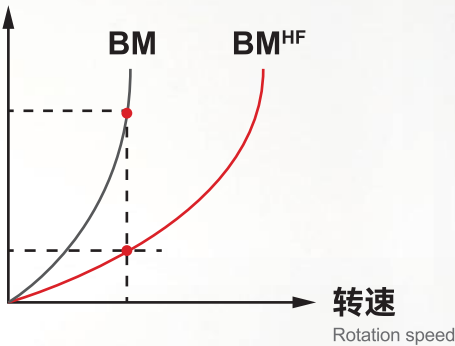
50%



在等效压降下，
BM^{HF}马达可以实现更高转速
At equivalent pressure drops,
the BM^{HF} motor can achieve higher speeds.

压力损失
Pressure loss

50%



在等效转速下，
BM^{HF}马达可以降低压力损失
At equivalent speeds,
the BM^{HF} motor can reduce pressure loss.

BM^{HF} 技术参数 BM^{HF} Technical Parameters

型号 Model	最高压力 Max pressure	全排量 ^① Full displacement				半排量 ^② Half displacement			
		排量范围 Displacement	最大扭矩 ^③ Max torque	最高转速 Max speed	最高功率 Max power	排量范围 Displacement	最大扭矩 ^③ Max torque	最高转速 Max speed	最高功率 Max power
	bar [PSI]	cm³/r [cu.in/rev]	Nm [lb.ft]	RPM	kW [HP]	cm³/r [cu.in/rev]	Nm [lb.ft]	RPM	kW [HP]
BM ^{HF} 02	450 [6,527]	172-255 [10.5-15.6]	1800 [1,227]	850	18 [24]	86-128 [5.2-7.8]	916 [676]	900	12 [16]
BM ^{HF} E02	400 [5,802]	332-398 [20.2-24.3]	2500 [1,843]	440	22 [30]	166-199 [10.1-12.1]	1260 [930]	470	16.5 [22]
BM ^{HF} 05	450 [6,527]	260-560 [15.9-34.2]	4000 [2,950]	700	50 [67]	130-280 [7.9-17.1]	2000 [1,475]	630	30 [40]
BM ^{HF} E05	400 [5,802]	503-750 [30.7-45.7]	4770 [3,518]	380	50 [67]	252-375 [15.4-22.8]	2390 [1,762]	370	30 [40]
BM ^{HF} 08	450 [6,527]	467-934 [28.5-57.0]	6690 [4,934]	450	41 [55]	234-467 [14.2-28.5]	3345 [2,467]	450	27 [36]
BM ^{HF} E08	400 [5,802]	1043-1248 [63.6-76.1]	7945 [5,859]	210	41 [55]	522-624 [31.8-38.1]	3970 [2,928]	220	27 [36]

①可用于单排量或双排量马达

②仅可用于双排量马达

③最大理论扭矩 (Nm): $1/(20 \pi) \times \text{最大排量 (cm}^3/\text{r)} \times \text{最高压力 (bar)}$

①Available for single or dual displacement motors

②Only available for dual displacement motors

③Max theoretical torque(Nm): $1/(20 \pi) \times \text{Max displacement (cm}^3/\text{r)} \times \text{Max pressure (bar)}$

BM^{HF}配流

减少压力损失

BM^{HF} flow distribution
Reduce pressure loss

整体式外壳

可更好地抵御最极端
环境条件

Monolithic housing
Better able to withstand the most
extreme environmental conditions

平面油口

可直连控制阀块

Flat oil port
Can be directly connected to
the control valve block

增强型安装法兰

可承受重载

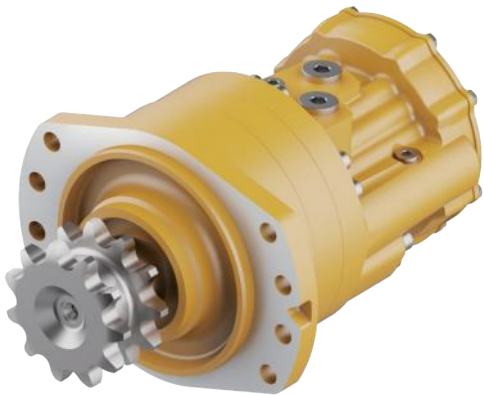
Reinforced mounting flange
Withstands heavy loads

双排量对称配流

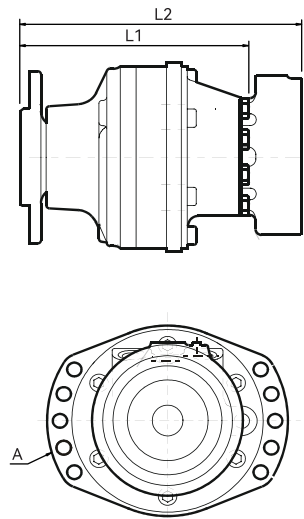
两个旋转方向的性能相同
(不可用于BM^{HF}/BM^{HF}E02)

Symmetrical distribution of dual displacement
The performance is the same for both directions of rotation
Not available for BM^{HF}/BM^{HF}E02

BM^{HF} 尺寸参数 BM^{HF} Dimension Parameters



轮边马达 Wheel Motor



			BM ^{HF} 02 BM ^{HF} E02	BM ^{HF} 05 BM ^{HF} E05	BM ^{HF} 08 BM ^{HF} E08
mm [in]	L1	1C	247.9 [9.76]	312 [12.28]	295 [11.61]
		2C	256.6 [10.10]	332 [13.07]	336.8 [13.26]
	L2 最大 ^① Max	1C	310.4 [12.22]	380.5 [14.98]	383.2 [15.08]
		2C	318.2 [12.53]	400.5 [15.76]	425 [16.73]
	最大直径A Max diameter A		235 [9.25]	300 [11.81]	335 [13.19]
kg [lb]	重量最大值 ^② Max weight		39.5 [87]	57.5 [127]	89.5 [197]

1C 单排量 / 2C 双排量

①具有最长多片式制动器的轮边马达

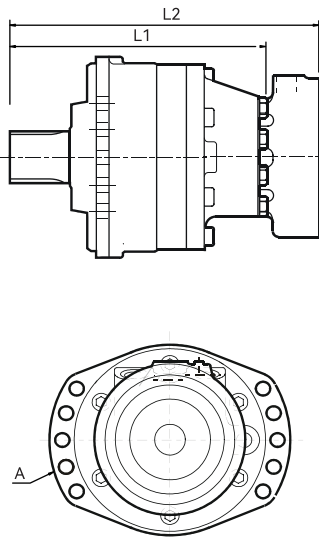
②具有多片式制动器的双排量轮边马达

1C Single displacement / 2C Dual displacement

①Wheel motor with longest multi-disc brake

②Dual displacement wheel motor with multi-disc brake

轴马达 Shaft Motor



			BM ^{HF} 02 BM ^{HF} E02	BM ^{HF} 05 BM ^{HF} E05	BM ^{HF} 08 BM ^{HF} E08
mm [in]	L1	1C	258.1 [10.16]	331.5 [13.05]	340 [13.38]
		2C	289.5 [11.4]	351.5 [13.84]	356 [14.02]
	L2 最大 [®] Max	1C	310.5 [12.22]	400 [15.75]	392 [15.43]
		2C	338 [13.3]	420 [16.53]	409 [16.10]
	最大直径A Max diameter A		235 [8.07]	300 [11.81]	335 [13.19]
kg [lb]	重量最大值 [®] Max weight		41.5 [91]	60.5 [133]	90.5 [199]

1C 单排量 / 2C 双排量

①具有最长多片式制动器的轴马达

②具有多片式制动器的双排量轴马达

1C Single displacement / 2C Dual displacement

①Shaft motor with longest multi-disc brake

②Dual displacement shaft motor with multi-disc brake

BM 轴伸类型 BM Shaft Extension Type



型号 Model	轮边法兰 Wheel flange	外花键轴 External spline shaft	平键轴 Flat key shaft	内花键轴 Internal spline shaft	锁紧盘轴 Locking disc shaft	双排链轮轴 Double-row sprocket shafts
BM/BME02	●	●	●			●
BM/BME05	●	●	●			●
BM/BME08	●	●	●			
BM/BME11	●	●				
BM/BME18	●	●	●		●	
BM25	●	●			●	
BM35	●	●			●	
BM50	●	●		●	●	
BM83	●	●		●	●	
BM125	●	●		●	●	
BM250		●		●	●	

BM 安装方式 BM Installation Method



型号 Model	在配流体盖上-双侧安装耳 On the distribution fluid cover Double-sided mounting ears	在轴承支撑上-双侧安装耳 On the bearing support Double-sided mounting ears	在轴承支撑上-圆形法兰 On the bearing support Round flange	马蹄形 Horseshoe flange
BM/BME02	●	●		
BM/BME05	●	●		●
BM/BME08	●	●		
BM/BME11	●	●		
BM/BME18	●	●		
BM25	●	●	●	
BM35	●	●	●	
BM50	●		●	
BM83	●		●	
BM125	●		●	
BM250			●	

BM 制动器 BM Brakes

安装在马达后部的多片式驻车制动器

Multi-disc parking brake mounted at the rear of the motor

最大驻车制动扭矩 Max parking brake torque		BM02 BME02	BM05 BME05	BM08 BME08	BM11 BME11	BM18 BME18	BM25	BM35	BM50	BM83	BM125
Nm[lb.ft]											
T03	2500 [1,840]	●									
T04	4220 [3,110]		●								
T08	5620 [4,150]			●							
T09	9000 [6,640]			●							
T12	11840 [8,730]				●	●		●			
T19	18600 [13,720]					●		●			
T21	20900 [15,415]						●	●	●		
T30	30000 [22,130]						●	●	●		
T83	42000 [30,980]								●		
T80	72000 [53,104]									●	●

- T制动器 配备增强后盘的制动器
 - 驻车制动器释放压力：12-30bar[174-435PSI]
- T-brake Brake with reinforced rear discs
 - Parking brake release pressure:12-30bar[174-435PSI]

安装在轴承支撑上的多片式驻车制动器

Multi-disc parking brake mounted on bearing support

最小驻车制动扭矩 Minimum parking brake torque		BM05 BME05	BM11 BME11	BM18 BME18	BM35
Nm[lb.ft]					
P05	4500 [3,320]	●			
P27	16000 [11,801]		●		
P20	20000 [14,750]			●	●
P27	19800 [14,604]			●	●

- 驻车制动器释放压力：16-30bar[232-435PSI]
 - 反向制动器
- Parking brake release pressure:16-30bar[232-435PSI]
 - Reverse brake



BM08带S08和T08制动器
BM08 with S08 & T08 brake

安装在轴承支撑上的多片式行车制动器

Multi-disc Service brake mounted on bearing support

行车制动扭矩 Service brake torque		BM05 BME05	BM08 BME08	BM11 BME11	BM18 BME18	BM35
Nm[lb.ft]						
S08	6000 [4,425]	●	●			
S17	22000 [16,226]			●		
S20	25000 [18,439]				●	●

- 获得最大行车制动扭矩的压力：120bar[1740PSI]
 - 正向制动器
- The pressure to obtain maximum service braking torque:120bar[1740PSI]
 - Forward brake



BM18带S20和P20制动器
BM18 with S20 & P20 brake

安装在轴承支撑上的多片式驻车 and 行车制动器

Multi-disc parking and service brakes mounted on bearing supports

	最小驻车和平平均行车制动扭矩 Minimum parking and average service brake torque		BM02 BME02	BM18 BME18	BM35
	Nm[lb.ft]				
	驻车 Parking	行车 Driving			
C03	2645 [1,951]	2645 [1,951]	●		
C27	22000 [16,226]	22000 [16,226]		●	●

- 驻车制动器释放压力：C03为12-30bar[174-435PSI]；C27为100-130bar[1450-1885PSI]
- 反向制动器

- 获得最大行车制动扭矩的压力：C03为120bar[1740PSI]；C27为70bar[1015PSI]
- 正向制动器

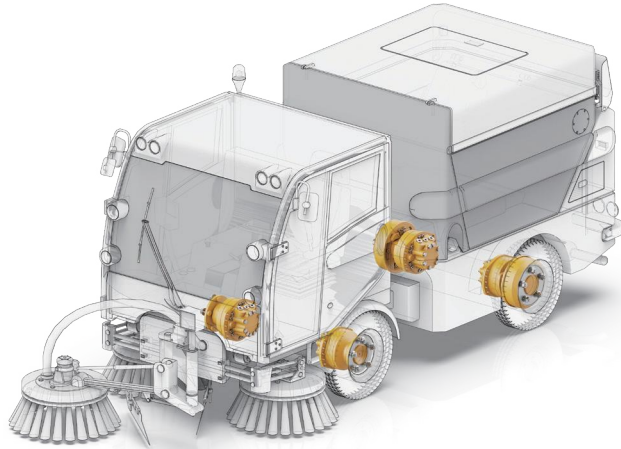
- Parking brake release pressure: C03 12-30bar[174-1885PSI]；C27 100-130bar[1450-1885PSI]
 - Reverse brake
- The pressure to obtain maximum service braking torque:C03 120bar[1740PSI]；C27 70bar[1015PSI]
 - Forward brake



BM18带C27制动器
BM18 with C27 brake

鼓式制动器 Drum brake

摩擦面 Friction surfaces	最大驻车制动扭矩 Max parking brake torque	最大行车制动扭矩 Max Service brake torque	BM02 BME02	BM05 BME05	BM08 BME08	BM11 BME11	BM18 BME18	BM25	BM35	BM50
mm[in]	Nm[lb.ft]									
200x40	1300 [1,840]	1300 [1,840]	●							
203x60	2750 [3,110]	2750 [3,110]	●							
250x60	5000 [4,150]	5000 [4,150]		●						
270x60	6000 [6,640]	6000 [6,640]			●					
315x80	12000 [8,730]	12000 [8,730]			●	●				
350x60	11000 [13,720]	11000 [13,720]					●			
432x102	27000 [15,415]	27000 [15,415]					●	●	●	●



BM02带鼓式行车制动器
BM02 with drum service brake

钳盘式制动器 Caliper disc brake

最大行车制动扭矩 Max Service brake torque		BM02 BME02
Nm[lb.ft]		
直径302 Diameter 302	1930 [1,423]	

增压制动器 Booster brake

提高自走式机器的安全性

通过利用液压马达全排量的静液压制动能力，可提高自走式机器的制动性能。

增压制动技术可满足机器以 40 kph 的转速运行时的制动要求。

增压制动器，旨在提高自走式机器的静液压制动能力。

Achieving greater safety for self-propelled machines

The braking performance of self-propelled machines can be improved by utilizing the hydrostatic braking capabilities of the hydraulic motor's full displacement.

Booster braking technology meets the braking requirements of the machine when operating at 40 kph.

Booster brakes designed to increase the hydrostatic braking capabilities of self-propelled machines.

马达规格

Specification	
• BM/BME18	• BMP11
• BM35	• BMP20
	• BMP27

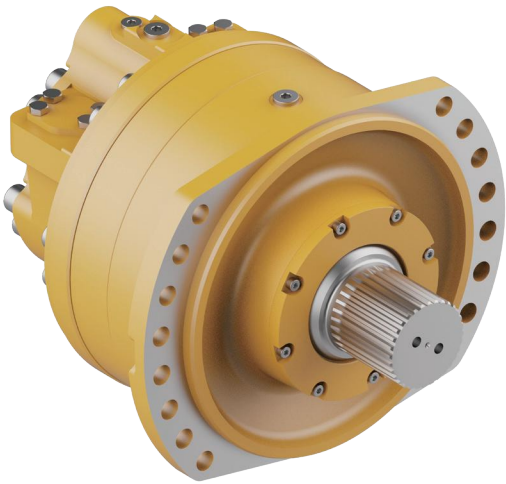
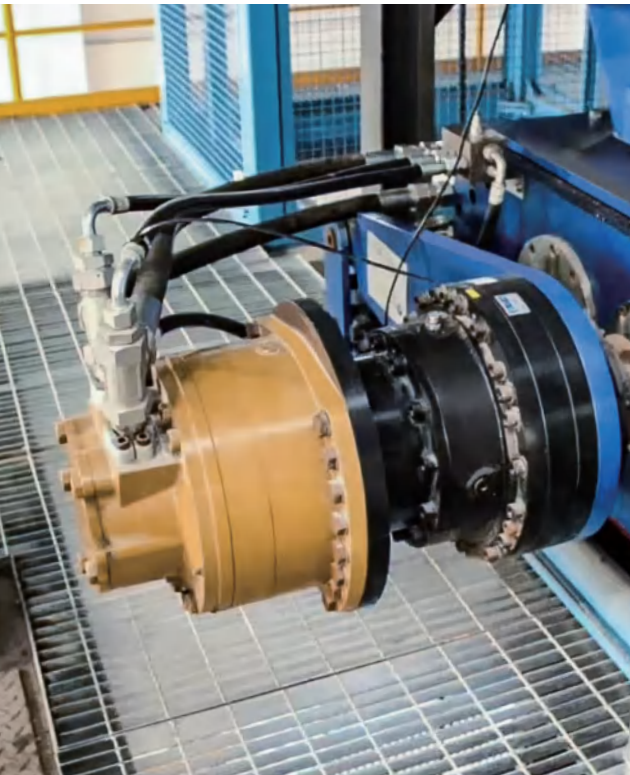
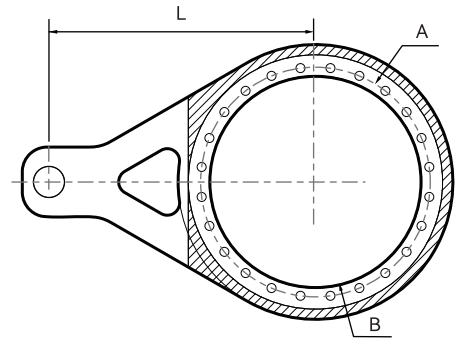


BM 扭力臂和锁紧盘 BM Torque arm and locking plate

为了简化马达集成到您的机器上的过程，布拓传动可提供与马达相匹配的扭力臂和锁紧套。

To simplify the process of integrating the motor into your machine, BETT Transmission can provide torque arms and locking sleeves that match the motor.

		BM35	BM50	BM83	BM125	BM250
mm [in]	L	500 [19.68]	600 [23.62]	800 [31.50]	800 [31.50]	1250±1 [49.21±0.04]
	直径A Diameter A	290 [11.42]	340 [13.39]	380 [14.96]	394 [15.51]	580 [22.83]
	直径B Diameter B	255 [10.04]	300 [11.81]	340 [13.38]	352 [13.85]	520.1 [20.47]
	厚度 Thickness	25 [0.98]	40 [1.57]	40 [1.57]	40 [1.57]	40±0.5 [1.57±0.02]
	安装 Installation	8xM20	12xM20	16xM20	16xM24	30xM20



BM25双排量外花键轴输出
BM25 dual displacement external spline shaft output

BM 可选功能 BM Optional Functions

		BM02 BME02	BM05 BME05	BM08 BME08	BM11 BME11	BM18 BME18	BM25	BM35	BM50	BM83	BM125	BM250
温度控制 Temperature control	冲洗阀 Flushing valve	●	●	●	●	●		●				
	高效率 (零间隙柱塞/环) High efficiency	●	●	●	●	●	●	●	●	●	●	
	附件壳体 冲洗油口 Accessory housing with flush oil port	●	●	●	●	●	●	●	●	●	●	
转速 Rotation speed	高速/低压降 (螺旋配流孔) High speed /low pressure drop	●	●	●	●	●	●	●	●	●	●	
	转速传感器 Speed sensor	●	●	●	●	●	●	●	●	●	●	
加强型选项 Enhanced options	超长寿命 Super long life	●	●	●	●	●	●	●	●	●	●	
	PEEK衬套 (耐高温) PEEK bushing	●	●	●	●	●	●	●	●	●	●	●
	加强型端盖 Reinforced end cap	●	●	●	●	●	●	●	●	●	●	
	整体式端盖 Monolithic end cap		●	●								
高压油口 High-pressure oil port	SAE法兰 SAE flange		●	●	●	●	●	●	●	●	●	●
	公制 Metric	●	●	●	●	●		●				
	UNF螺纹 UNF thread	●	●	●	●	●		●				
	法兰式油口 Flanged oil port		●	●	●	●				●	●	●
	GAS	●	●	●	●	●		●			●	
空心轴 (仅限花键轴马达) Hollow shaft (for splined shaft motors only)		●	●	●	●	●	●	●	●	●	●	●



大扭矩和径向柱塞

全静压防滑解决方案 Full hydrostatic anti-skid solution



提高机器的越野能力

车轮附着力是衡量车辆越野能力的关键因素。车轮与地面接触不足，会使车辆运行失控，暂时性的无法工作，导致轮胎过早的磨损，急剧增加油耗，毁坏现场地面。

全静压防滑系统可显著提高液压传动系统在恶劣地面条件下和陡坡上的性能。

Improve the off-road capability of the machine

Wheel adhesion is a key factor in measuring a vehicle's off-road capability. Insufficient contact between the wheels and the ground will cause the vehicle to lose control and temporarily stop working, causing premature tire wear, a sharp increase in fuel consumption, and damage to the on-site ground.

The fully hydrostatic anti-skid system significantly improves the performance of hydraulic transmission systems in harsh ground conditions and on steep slopes.

马达规格 Specification

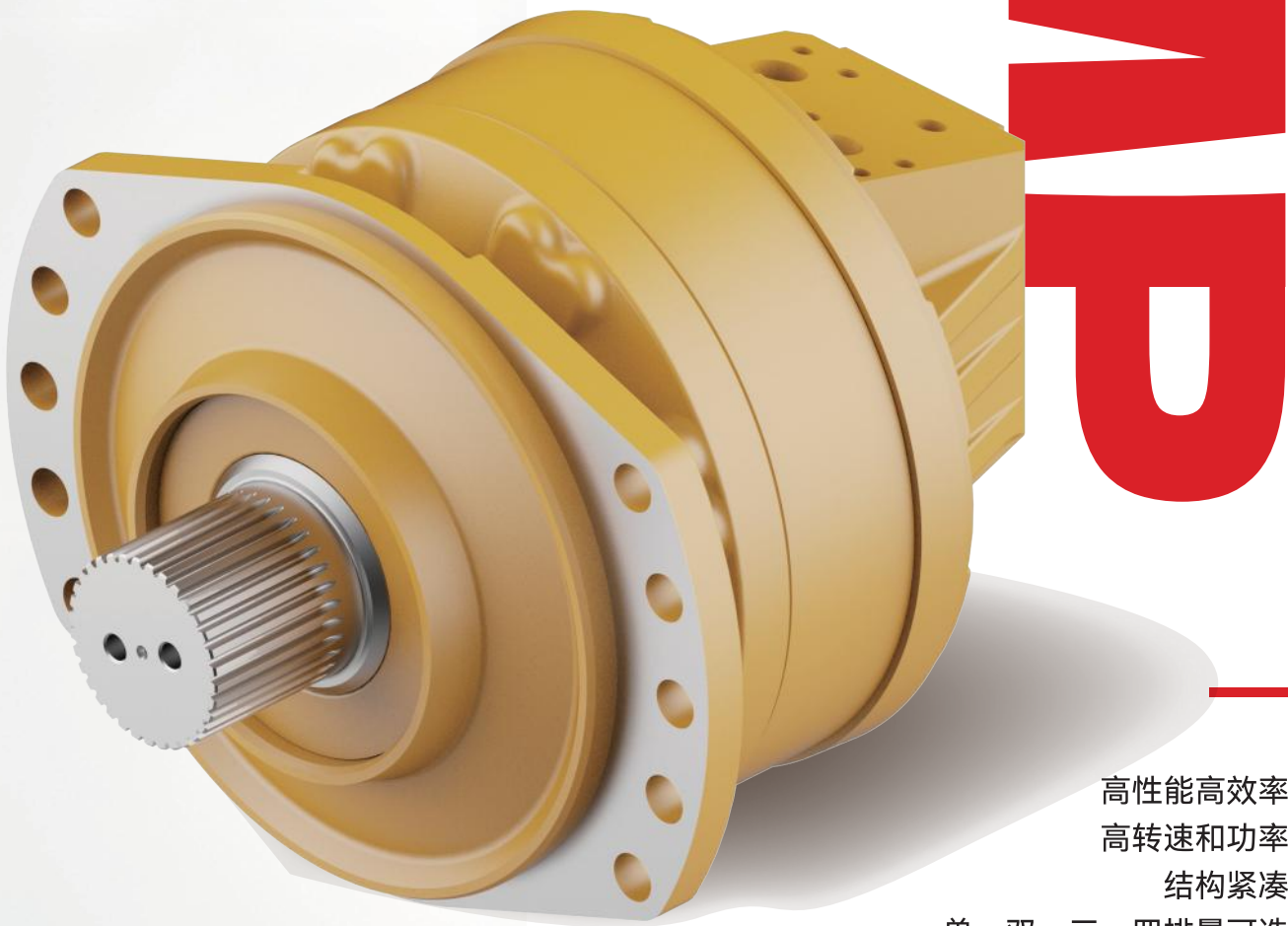
- BM/BME02
 - BM/BME05
 - BM/BME08
 - BM/BME11
- BM/BME18
 - BM35
 - BM50

高性能马达

High Performance Motor

高效低耗动力足

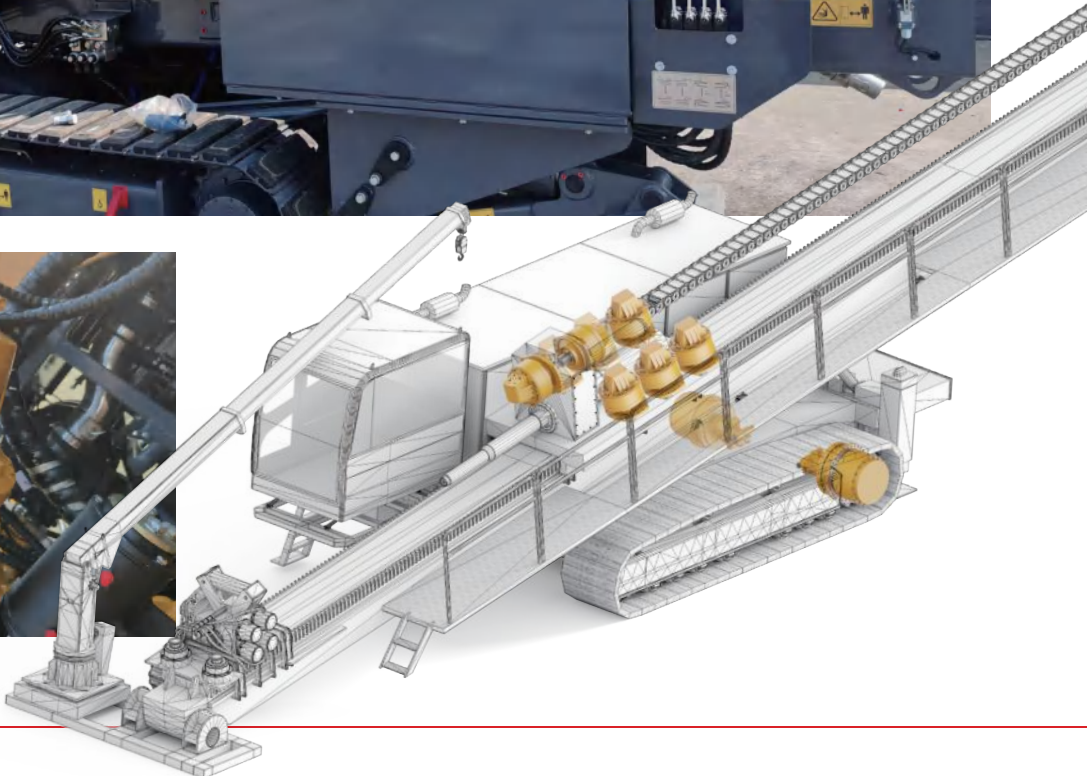
High efficiency and low power consumption



高性能高效率
高转速和功率
结构紧凑
单、双、三、四排量可选
多样式轴伸类型
行车、驻车、行驶一体制动器

High performance and high efficiency
High RPM and power
Compact structure design
Single, double, triple and quad displacement options available
Multiple shaft extension types
Service brake, parking brake, service and parking integrated brake

BMP



BMP

BMP11 BMP13 BMP17
BMP20 BMP27

排量 Displacement range	最大转速 Max speed
900-3526 cm ³ /r	548 RPM
最大扭矩 Max torque	最大功率 Max power
28059 N.m	280 kW
最大压力 Max pressure	
500 bar	



BMP 技术参数 BMP Technical Parameters

	型号 Model	最高压力 Max pressure	排量范围 Displacement	最大扭矩 ^① Max torque	最高转速 Max speed	最高功率 ^② Max power
		bar [PSI]	cm³/r [cu.in/rev]	Nm [lb.ft]	RPM	kW [HP]
单排量 Single displacement	BMP11	450 [6,527]	933-1401 [56.9-85.5]	10000 [7,376]	324	104 [139]
	BMP13	500 [7,252]	900-1542 [54.9-94.1]	12258 [9,041]	520	151 [202]
	BMP17	500 [7,252]	1200-2238 [73.2-136.6]	17792 [13,123]	379	249 [334]
	BMP20	500 [7,252]	1416-2427 [86.4-148.1]	19313 [14,244]	505	200 [268]
	BMP27	500 [7,252]	1893-3526 [115.5-215.2]	28059 [20,695]	340	280 [375]
双排量 ^③ Dual displacement	BMP11	450 [6,527]	311-1401 [19.0-85.5]	10000 [7,376]	318	106 [142]
	BMP13	500 [7,252]	300-1542 [18.3-136.6]	12258 [9,041]	548	158 [212]
	BMP17	500 [7,252]	400-2238 [24.4-85.4]	17792 [13,123]	398	241 [323]
	BMP20	500 [7,252]	531-2427 [32.4-148.1]	19313 [14,244]	520	190 [255]
	BMP27	500 [7,252]	710-3526 [43.3-215.2]	28059 [20,695]	345	230 [308]
三排量 Triple displacement	BMP11	450 [6,527]	311-1401 [19.0-85.5]	10000 [7,376]	293	105 [141]
	BMP13	500 [7,252]	300-1542 [18.3-136.6]	12258 [9,041]	491	154 [206]
	BMP17	500 [7,252]	400-2238 [24.4-85.4]	17792 [13,123]	360	250 [335]
	BMP20	500 [7,252]	354-2427 [21.6-148.1]	19313 [14,244]	480	175 [235]
	BMP27	500 [7,252]	473-3526 [28.9-215.2]	28059 [20,695]	330	215 [288]
四排量 Quad displacement	BMP20	500 [7,252]	354-2427 [21.6-148.1]	19313 [14,244]	435	175 [235]
	BMP27	450 [6,527]	473-3526 [28.9-215.2]	28059 [20,695]	316	215 [288]

①最大理论扭矩 (Nm): 1/(20 π) x 最大排量 (cm³/r) x 最高压力 (bar)

②最大转速下对应的最大功率

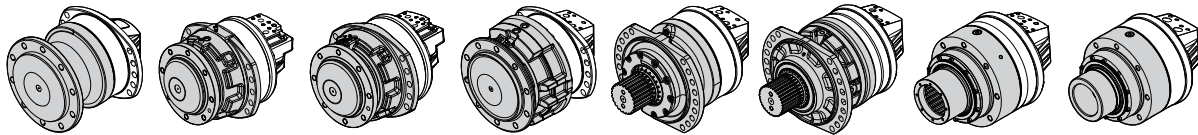
③对称配流体、带增压制动器

①Max theoretical torque(Nm): 1/(20 π) x Max displacement (cm³/r) x Max pressure (bar)

②Max power at max speed

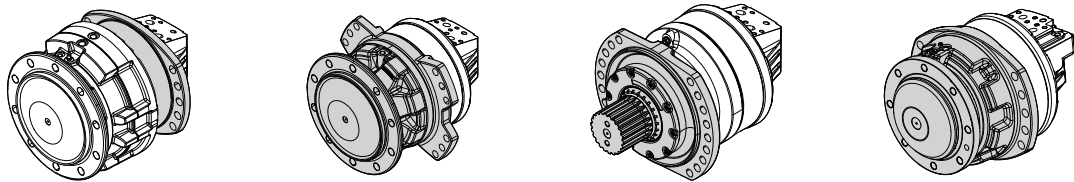
③Symmetrical distribution fluid, with booster brake

BMP 轴伸类型 BMP Shaft Extension Type



型号 Model	轮边 法兰 Wheel flange	轮边行车 制动器 Wheel service brake	轮边驻车 制动器 Wheel parking brake	轮边组合 制动器 Wheel combined brake	外花 键轴 External spline shaft	外花键轴 驻车制动器 External spline shaft parking brake	内花 键轴 Internal spline shaft	锁紧 盘轴 Locking disc shaft
BMP11	●	●	●		●			
BMP13	●	●	●		●	●		
BMP17	●	●	●		●	●		
BMP20	●	●	●	●	●	●	●	●
BMP27	●	●	●	●	●	●	●	●

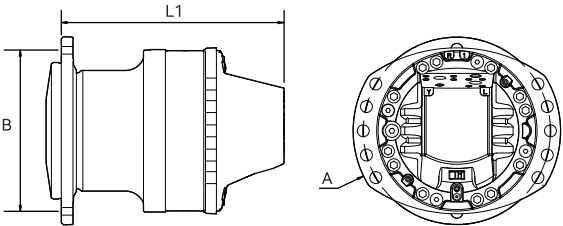
BMP 安装方式 BMP Installation Method



型号 Model	在配流体盖上 双侧安装耳 On the distribution fluid cover Double-sided mounting ears	在轴承支撑上 四侧安装耳 On the bearing support Four side mounting ears	在轴承支撑上 双侧安装耳 On the bearing support Double-sided mounting ears	在轴承支撑上 On the bearing support
BMP11	●		●	
BMP13	●		●	
BMP17	●		●	
BMP20	●	●	●	●
BMP27	●	●	●	●

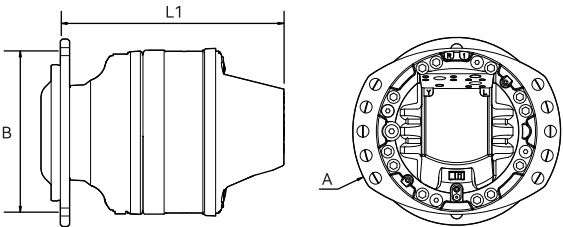
BMP 尺寸参数 BMP Dimension Parameters

轮边马达
Wheel Motor



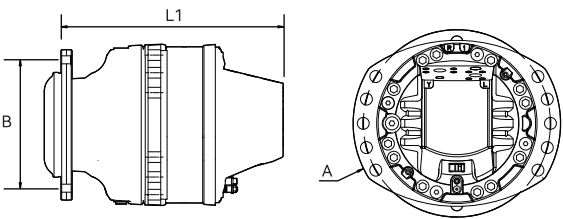
		BMP11	BMP13 BMP17	BMP20 BMP27
mm [in]	L1最大值 L1 Max	360.4 [14.19]	387.4 [15.25]	458.1 [18.03]
	最大直径A Max diameter A	377 [14.84]	377 [14.84]	425 [16.73]
	最大直径B Max diameter B	275 [10.83]	275 [10.83]	275 [10.83]
kg [lb]	重量最大值 Max weight	-	-	170 [375]

带驻车制动器或行车制动器的轮边马达
Wheel motor with parking brake or service brake



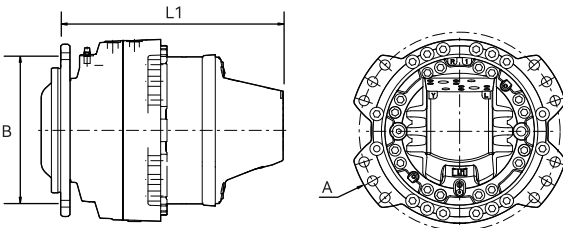
		BMP11	BMP13 BMP17	BMP20 BMP27
mm [in]	L1最大值 L1 Max	392.3 [15.44]	420.4 [16.55]	430.7 [16.96]
	最大直径A Max diameter A	377 [14.84]	377 [14.84]	425 [16.73]
	最大直径B Max diameter B	275 [10.83]	275 [10.83]	335 [13.19]
kg [lb]	重量最大值 Max weight	-	-	-

带驻车制动器的轮边马达
Wheel motor with parking brake



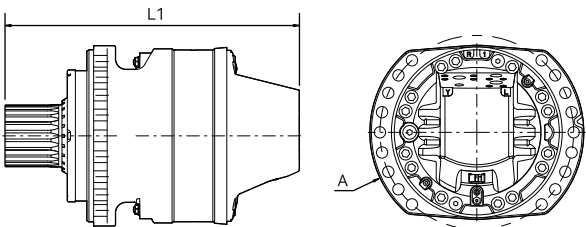
		BMP20	BMP27
mm [in]	L1最大值 L1 Max	456.1 [17.96]	456.1 [17.96]
	最大直径A Max diameter A	483 [19.01]	483 [19.01]
	最大直径B Max diameter B	355 [13.19]	355 [13.19]
kg [lb]	重量最大值 Max weight	231 [509]	231 [509]

带组合制动器的轮边马达
Wheel motor with combined brake



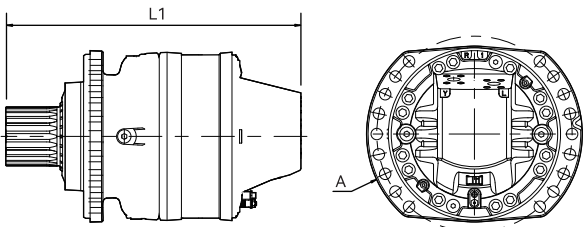
		BMP20	BMP27
mm [in]	L1最大值 L1 Max	456.1 [17.96]	456.1 [17.96]
	最大直径A Max diameter A	482 [18.98]	482 [18.98]
	最大直径B Max diameter B	355 [13.19]	355 [13.19]
kg [lb]	重量最大值 Max weight	240 [529]	240 [529]

外花键轴马达
External spline shaft motor



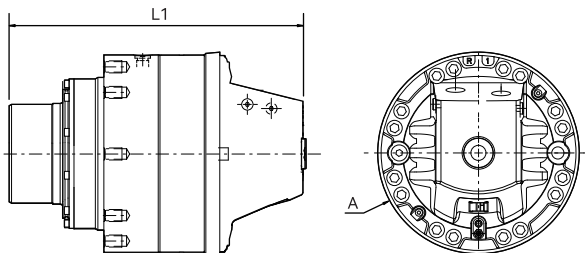
		BMP11	BMP13 BMP17	BMP20 BMP27
mm [in]	L1最大值 L1 Max	415 [16.33]	444 [17.48]	568 [22.36]
	最大直径A Max diameter A	375 [14.76]	375 [14.76]	425 [16.73]
kg [lb]	重量最大值 Max weight	-	-	136 [299]

带驻车制动器的外花键轴马达
External spline shaft motor with parking brake



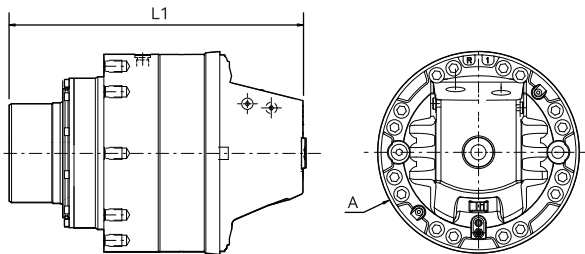
		BMP13 BMP17	BMP20 BMP27
mm [in]	L1最大值 L1 Max	541 [21.30]	599 [23.58]
	最大直径A Max diameter A	393 [14.47]	425 [16.73]
kg [lb]	重量最大值 Max weight	-	230 [507]

内花键轴马达
Internal spline shaft motor



		BMP20	BMP27
mm [in]	L1最大值 L1 Max	502 [19.76]	502 [19.76]
	最大直径A Max diameter A	340 [13.38]	340 [13.38]
kg [lb]	重量最大值 Max weight	157 [346]	157 [346]

锁紧盘马达
Locking disc motor



		BMP20	BMP27
mm [in]	L1最大值 L1 Max	495 [19.49]	495 [19.49]
	最大直径A Max diameter A	340 [13.38]	340 [13.38]
kg [lb]	重量最大值 Max weight	157 [346]	157 [346]

BMP 制动器 BMP Brakes

安装在轴承支撑上的多片式驻车制动器

Multi-disc parking brake mounted on bearing support

最小驻车制动扭矩 Minimum parking brake torque		BMP11	BMP13	BMP17	BMP20	BMP27
Nm[lb.ft]						
P17	16000 [11,801]	●	●	●		
P20	21700 [16,005]				●	●
P27	29200 [21,537]				●	●

• 驻车制动器释放压力：16-30bar[232-435PSI]

• 反向制动器

• Parking brake release pressure:16-30bar[232-435PSI]

• Reverse brake

安装在轴承支撑上的多片式行车制动器

Multi-disc service brake mounted on bearing support

平均行车制动扭矩 Average service brake torque		BMP11	BMP13	BMP17	BMP20	BMP27
Nm[lb.ft]						
S17	21300 [15,710]	●	●	●		
S20	25000 [18,439]				●	●

• 获得最大行车制动扭矩的压力：120bar[1740PSI]

• 正向制动器

• The pressure to obtain maximum service braking torque:120bar[1740PSI]

• Forward brake

安装在轴承支架或盖上的多片式组合制动器

Multi-disc brake mounted on bearing bracket or cover

BMP20和BMP27马达上使用的C27组合制动器兼具行车和驻车制动能力，采用封闭设计（湿式盘技术），可免受外界污染，具有强大可靠的制动能力。

The C27 combined brake used on BMP20 and BMP27 motors has both service and parking braking capabilities. It adopts a closed design (wet disc technology), which can be protected from external contamination and has strong and reliable braking capabilities.

	最小驻车和平平均行车制动扭矩 Minimum parking and average service brake torque		BMP20	BMP27
	Nm[lb.ft]			
	驻车 Parking	行车 Driving		
C27	18000 [13,276]	32000 [23,602]	●	●

- 驻车制动器释放压力：100-130bar[1450-1885PSI]

• 反向制动器

• Parking brake release pressure:100-130bar[1450-1885PSI]

• Reverse brake

- 获得最大行车制动扭矩的压力：70bar[1015PSI]

• 正向制动器

• The pressure to obtain maximum service braking torque:70bar[1015PSI]

• Forward brake

全静压防滑解决方案 Full hydrostatic anti-skid solution

提高机器的越野能力

车轮附着力是衡量车辆越野能力的关键因素。车轮与地面接触不足，会使车辆运行失控，暂时性的无法工作，导致轮胎过早的磨损，急剧增加油耗，毁坏现场地面。

全静压防滑系统可显著提高液压传动系统在恶劣地面条件下和陡坡上的性能。

Improve the off-road capability of the machine

Wheel adhesion is a key factor in measuring a vehicle's off-road capability. Insufficient contact between the wheels and the ground will cause the vehicle to lose control and temporarily stop working, causing premature tire wear, a sharp increase in fuel consumption, and damage to the on-site ground.

The fully hydrostatic anti-skid system significantly improves the performance of hydraulic transmission systems in harsh ground conditions and on steep slopes.



马达规格

Specification

- BMP11

• BMP20
- BMP13

• BMP27
- BMP17

增压制动器 Booster Brake

为自走式机器实现更高的安全性

通过利用液压马达全排量的静液压制动能力，可提高自走式机器的制动性能。

增压制动技术可满足机器以 40 kph 的转速运行时的制动要求。

增压制动器，旨在提高自走式机器的静液压制动能力。

Achieving greater safety for self-propelled machines

The braking performance of self-propelled machines can be improved by utilizing the hydrostatic braking capabilities of the hydraulic motor's full displacement. Booster braking technology meets the braking requirements of the machine when operating at 40 kph. Booster brakes designed to increase the hydrostatic braking capabilities of self-propelled machines.

马达规格

Specification

- BMP11

• BMP20

• BM/BME18
- BMP13

• BMP27

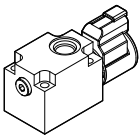
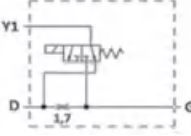
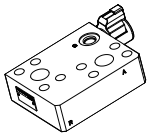
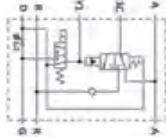
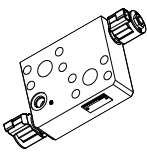
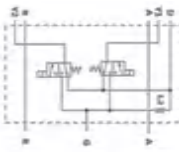
• BM35
- BMP17



BMP 法兰式集成阀块BMP Flanged integrated valve block

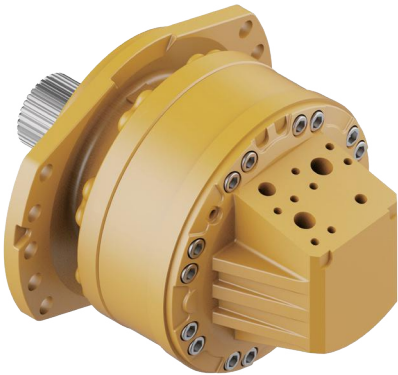
BMP20和BMP27马达上设计有平面油口，允许集成式阀块通过法兰联接安装在油口处，用于增强控制性能（排量切换控制等），同时可简化机器的管路布置。

The BMP20 and BMP27 motors are designed with flat ports, allowing the integrated valve block to be mounted at the ports via flange connections, to enhance control performance (displacement switching control, etc.) while simplifying the machine's piping layout.

	先导 Pilot	最高工作压力 Max operating pressure	最大流量 Max flow	
		bar[PSI]	L/min[GPM]	
	二档变量控制 Two-stage variable control	500 [7,252]	30 [7.92]	
	二档变量控制 +增压制动器 Two-stage variable control + booster brake	150 [2,175]	15 [3.96]	
	三档变量控制 Three-stage variable control	500 [7,252]	30 [7.92]	

BMP 内置功能BMP Built-in functions

		BMP11	BMP13	BMP17	BMP20	BMP27
温度控制 Temperature control	高效率 (零间隙柱塞/环) High efficiency	●	●	●	●	●
	附件壳体冲洗油口 Attachment housing flushing port	●	●	●	●	●
转速 Rotation speed	高速/低压降 (螺形配流孔) High speed /low pressure drop	●	●	●	●	●
	转速传感器预置 Speed sensor preset	●	●	●	●	●
加强型选项 Enhanced options	PEEK衬套 (耐高温) PEEK bushing		●	●	●	●
	整体式端盖 Monolithic end cap	●	●	●	●	●
高压油口 High-pressure oil port	扁平端口 Flat port	●	●	●	●	●



扁平油口
Flat port

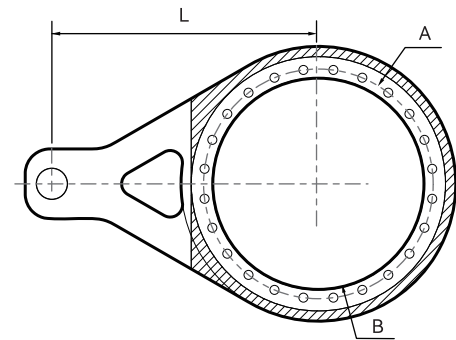
BMP 可选功能BMP Optional Functions

		BMP11	BMP13	BMP17	BMP20	BMP27
温度控制 Temperature control	冲洗阀 Flushing valve	●	●	●	●	●
转速 Rotation speed	转速传感器 Speed sensor	●	●	●	●	●
加强型选项 Enhanced options	超长寿命 Super long life	●	●	●	●	●
高压油口 High-pressure oil port	SAE法兰 SAE flange	●	●	●	●	●
	公制 Metric	●	●	●	●	●
	UNF螺纹 UNF thread	●	●	●	●	●
	GAS螺纹 GAS thread	●	●	●	●	●

BMP 扭力臂和锁紧盘BMP Torque arm and locking plate

为了简化马达集成到您的机器上的过程，布拓传动可提供与马达相匹配的扭力臂和锁紧套。

To simplify the process of integrating the motor into your machine, BETT Transmission can provide torque arms and locking sleeves that match the motor.



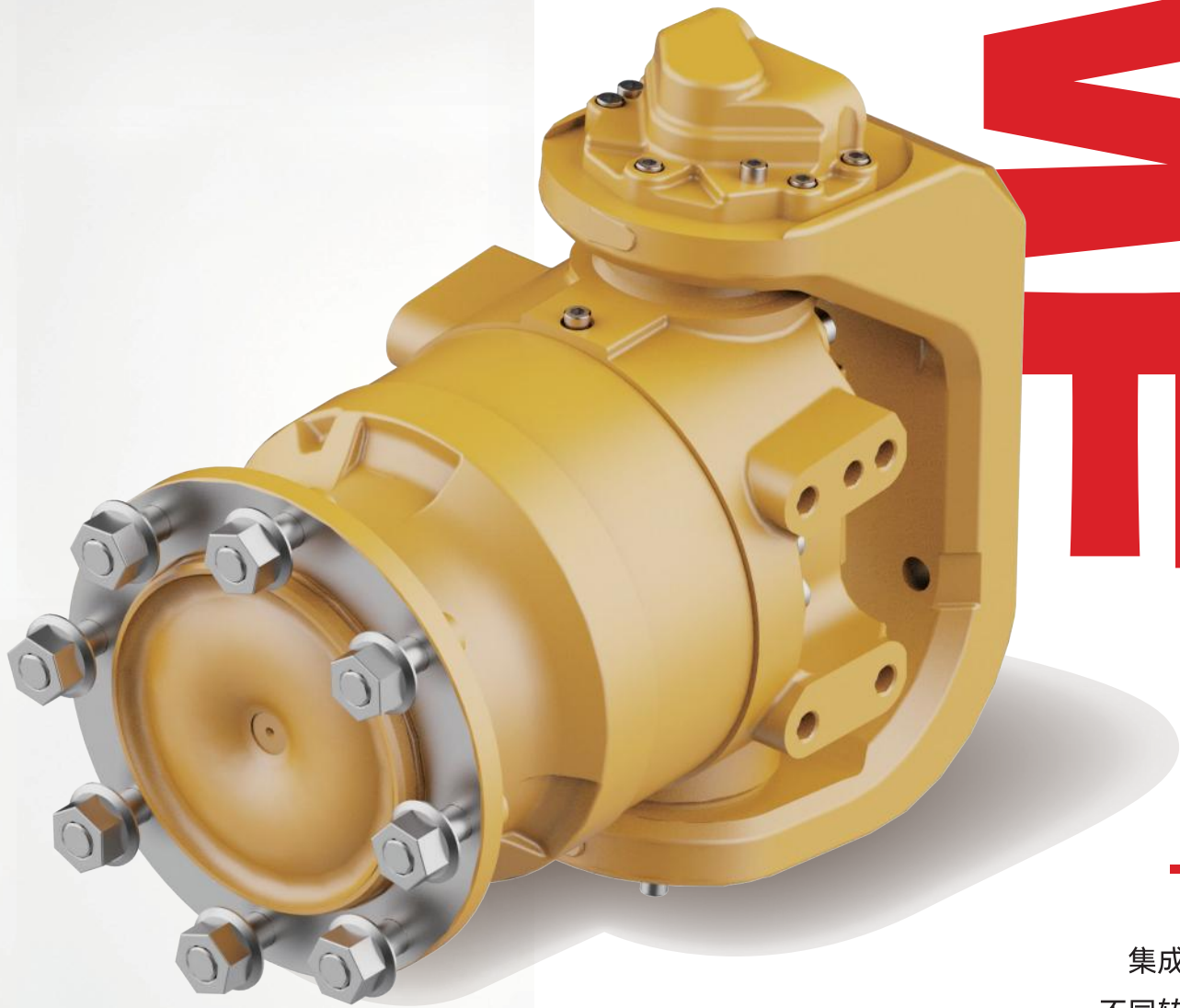
	L	直径A Diameter A	直径B Diameter B	厚度 Thickness	安装 Installation
	mm[in]				
BMP20	500 [19.68]	290 [11.42]	255 [10.04]	25 [0.98]	8xM20
BMP27	500 [19.68]	290 [11.42]	255 [10.04]	25 [0.98]	8xM20

可转向轮边马达

Steerable wheel motor

易于实现转向轮机动化

Easy to motorize the steerable wheel



集成枢轴
不同转向角
单排量或双排量
行车、驻车制动器

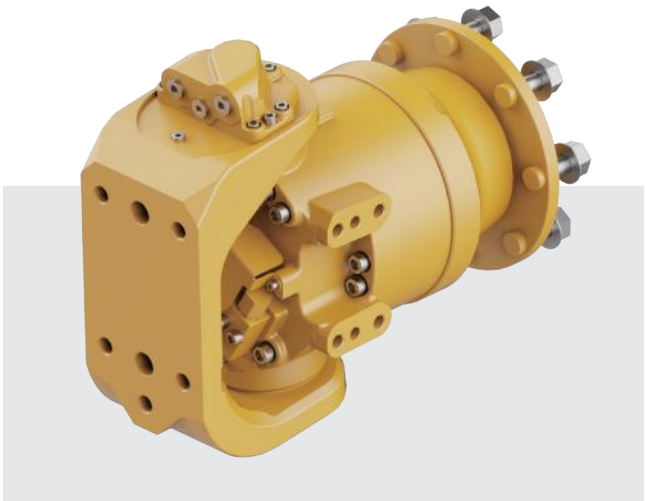
Integrated pivot
Different steering angles
Single or dual displacement
Service brake, parking brake



BMF/BMFE

BMF/BMFE02 BMF/BMFE05
BMF/BMFE11 BMF21

排量 Displacement range	最大转速 Max speed
172-2519 cm³/r	510 RPM
最大扭矩 Max torque	最大功率 Max power
16030 N.m	80 kW
最大压力 Max pressure	
450 bar	



BMF 技术参数 BMF Technical Parameters

		全排量 ^① Full displacement				半排量 ^② Half displacement			
型号 Model	最高压力 Max pressure	排量范围 Displacement	最大扭矩 ^③ Max torque	最高转速 Max speed	最高功率 Max power	排量范围 Displacement	最大扭矩 ^③ Max torque	最高转速 Max speed	最高功率 Max power
	bar [PSI]	cm³/r [cu.in/rev]	Nm [lb.ft]	RPM	kW [HP]	cm³/r [cu.in/rev]	Nm [lb.ft]	RPM	kW [HP]
BMF02	450 [6,527]	172-255 [10.5-15.6]	1800 [1,227]	390	18 [24]	86-128 [5.2-7.8]	916 [676]	510	12 [16]
BMFE02	400 [5,802]	332-398 [20.2-24.3]	2500 [1,843]	200	22 [29.5]	166-199 [10.1-12.1]	1260 [930]	275	16.5 [22]
BMF05	450 [6,527]	260-560 [15.9-34.2]	4010 [2,957]	420	29 [39]	130-280 [7.9-17.1]	1862 [1,373]	420	19 [35]
BMFE05	400 [5,802]	503-749 [30.7-45.7]	4768 [3,517]	225	29 [39]	251-375 [15.3-22.8]	3202 [2,361]	275	19 [35]
BMF11	450 [6,527]	730-1259 [44.5-76.8]	9000 [6,638]	200	50 [67]	365-630 [22.3-38.4]	4500 [3,319]	200	33 [44]
BMFE11	400 [5,802]	1263-1687 [77.0-102.9]	10700 [7,891]	170	50 [67]	632-844 [38.5-51.4]	5370 [3,960]	190	33 [44]
BMF21	400 [5,802]	1674-2519 [102.1-153.6]	16030 [11,823]	138	80 [107]	837-1260 [51.0-76.8]	8020 [5,915]	138	53 [71]

①可用于单排量或双排量马达

②仅可用于双排量马达

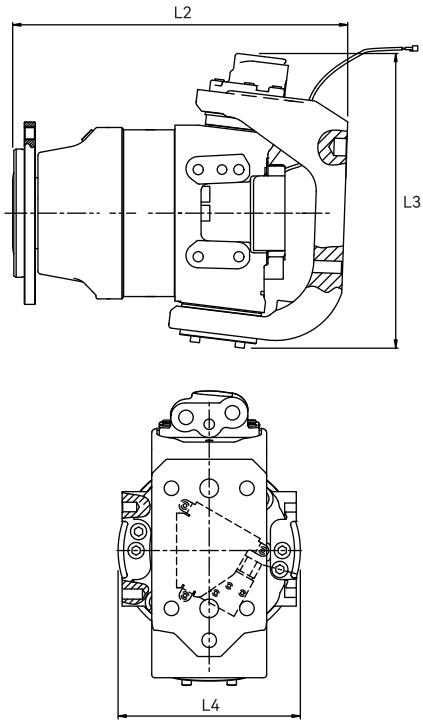
③最大理论扭矩 (Nm): 1/(20 π) x 最大排量 (cm³/r) x 最高压力 (bar)

①Available for single or dual displacement motors

②Only available for dual displacement motors

③Max theoretical torque(Nm): 1/(20 π) x Max displacement (cm³/r) x Max pressure (bar)

BMF 尺寸参数 BMF Dimension Parameters



			BMF02 BMFE02	BMF05 BMFE05	BMF11 BMFE11	BMF21
mm [in]	L1	1C	215.1 [6.47]	-	-	-
		2C	251.4 [9.90]	-	-	-
	L2 最大 ^① Max	1C	262.9 [10.35]	426 [16.77]	513 [20.20]	554 [21.81]
		2C	290.4 [11.43]	426 [16.77]	513 [20.20]	554 [21.81]
	L3		326.5 [12.85]	442 [17.40]	505 [19.88]	505 [19.88]
	L4		270 [10.63]	224 [8.81]	314 [12.36]	314 [12.36]
kg [lb]	重量最大值 ^② Max weight		47.8 [105.2]	97 [213]	210 [463]	230 [507]

1C 单排量 / 2C 双排量

①具有最长多片式制动器的轮边马达

②具有多片式制动器的双排量轮边马达

1C Single displacement / 2C Dual displacement

①Wheel motor with longest multi-disc brake

②Dual displacement wheel motor with multi-disc brake

BMF 制动器 BMF Brakes

多盘制动器 Multi-disc brake

最大驻车制动扭矩 Max parking brake torque		BMF02 BMFE02	BMF05 BMFE05	BMF11 BMFE11
Nm[lb.ft]				
T03	2500 [1,840]	●		
P05	4500 [3,320]		●	
P16	11000 [8,113]			●

T制动器 配备增强后盘的制动器（释放压力：12-30bar[174-435PSI]）

P制动器 安装在轴承座上的制动器（释放压力：16-30bar[232-435PSI]）

* BMF05/BMF11 马达多盘式制动器安装在轴承座上

T-brake Brake with reinforced rear discs (Release the pressure: 12-30bar[174-435PSI])

P-brake Brake mounted on bearing housing(Release the pressure: 12-30bar[174-435PSI])

*BMF05/BMF11 Motor multi-disc brake mounted on bearing housing

即装即用马达 Ready-to-use Motor

易于集成到底盘上

BMF马达能够优化机动化转向轮的设计。将枢轴功能、转向附件和锥形挡块集成到BMF马达外壳上，能够简化机动化转向轮在底盘上的装配。

Easy to integrate into the chassis

BMF motors enable optimal design of motorized steering wheels. Integrating the pivot function, steering attachment and conical stop into the BMF motor housing simplifies the assembly of motorized steering wheels on the chassis.

易于连接管的液压枢轴

- 高压管不会移动
- 避免管损坏
- 优化管长度
- 可在BMF/BMFE05、BMF/BMFE11和BMF21上使用

Hydraulic pivot for easy connection of pipes

- High-pressure pipes will not move
- Avoid pipe damage
- Optimize pipe length
- Available on BMF/BMFE05,BMF/BMFE11,BMF21

集成式转向支架附件

可在BMF/BMFE05、BMF/BMFE11和BMF21上使用

Integrated steering bracket attachment

Available on BMF/BMFE05,BMF/BMFE11,BMF21

C形框架

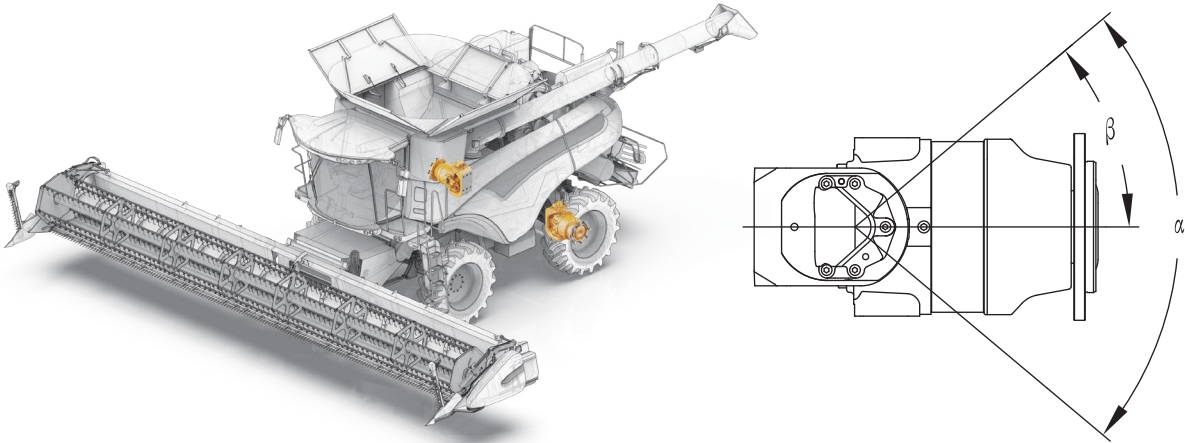
直接安装在机器轴上

C-frame

Mounted directly on the machine shaft

BMF 转向角 BMF Steering angle

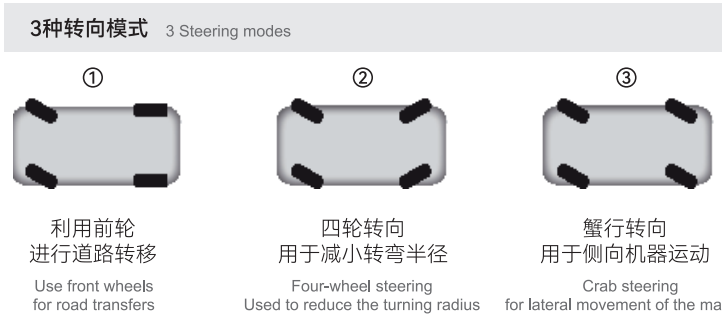
	BMF05 BMFE05	BMF11 BMFE11	BMF21	BMF02 BMFE02
角度α Angle α	90°	80°	80°	转向角α和β因客户底盘设计和马达油口的区别而不同 转向角通过转向限位螺钉进行调节 Steering angles α and β vary depending on the customer's chassis design and motor oil port The steering angle is adjusted via the steering limit screw
角度β Angle β	45°	40°	40°	



增大的转向角 Increased steering angle

与配备铰接式底盘的车辆相比，安装有机动化转向轮的车辆具有更好的转向角，因此，使用更少的运动即可在较小的半径内进行U形转弯。

Compared to vehicles with an articulated chassis, vehicles equipped with motorized steering wheels have a better steering angle and can therefore make U-turns in a smaller radius using less movement.



BMF 可选功能 BMF Optional Functions

		BMF02 BMFE02	BMF05 BMFE05	BMF11 BMFE11	BMF21
温度控制 Temperature control	高效率（零间隙柱塞/环） High efficiency	●	●		
	附件壳体冲洗油口 Attachment housing flushing port	●			
转速 Rotation speed	高速/低压降（蝶形配流孔） High speed/low pressure drop	●	●		
	转速传感器 Speed sensor	●	●	●	●
加强型选项 Enhanced options	超长寿命 Super long life	●	●	●	●
高压油口 High pressure oil port	SAE法兰 SAE flange	●	●		
	公制 Metric	●	●	●	●
	UNF螺纹 UNF thread	●	●	●	●

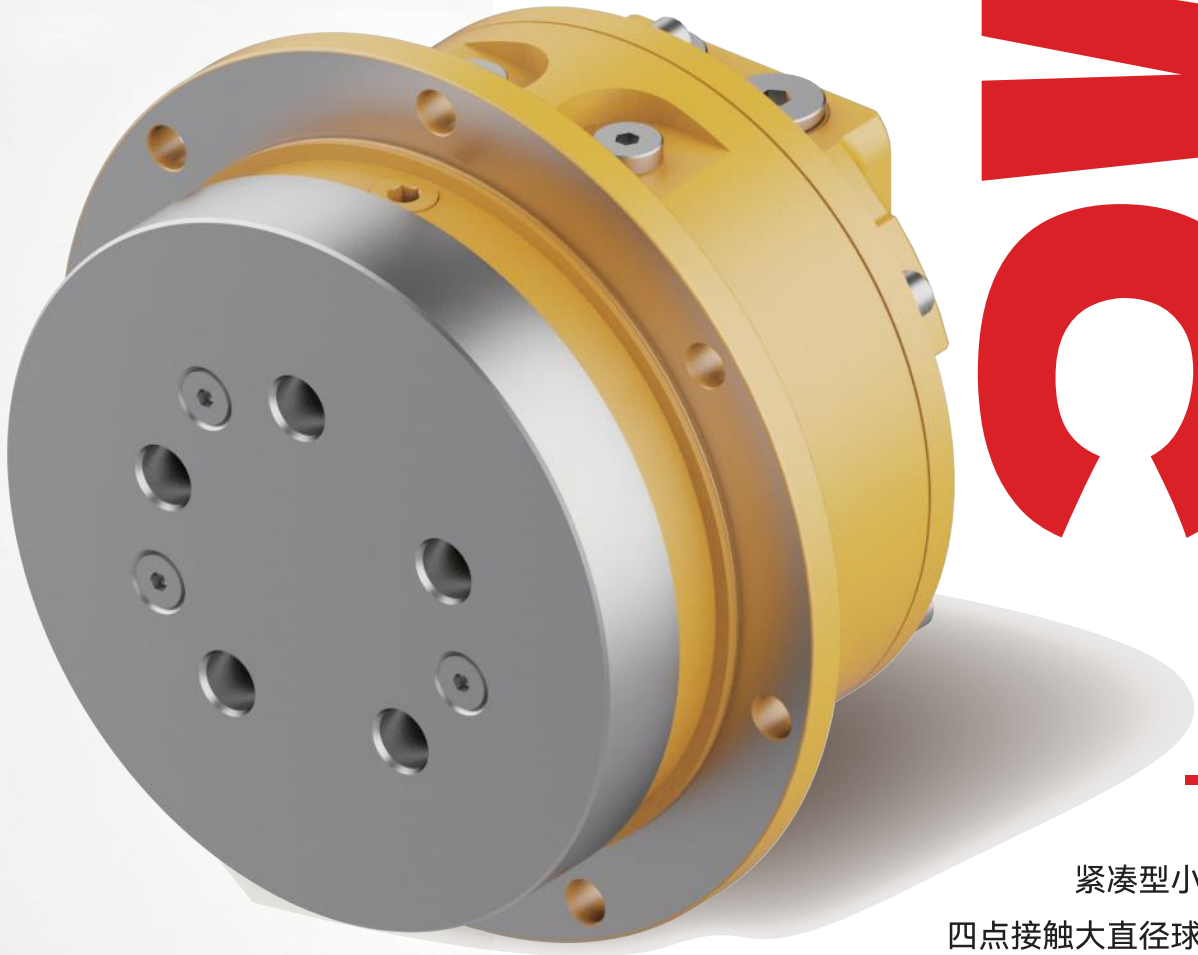


紧凑型马达

Compactness motor

小体积更灵活

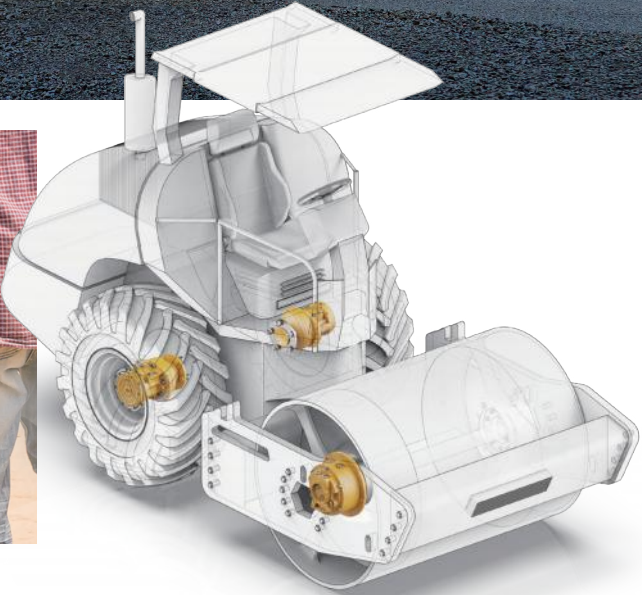
Small size and more flexibility



BMC

紧凑型小体积
四点接触大直径球轴承
单排量或双排量
驻车制动器
压路机应用的理想选择

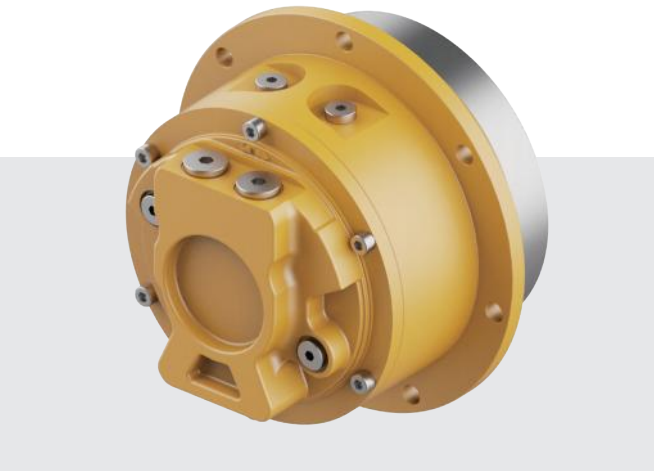
Compact and small size
Four-point contact large diameter ball bearing
Single or dual displacement
Parking brake
Ideal for road roller applications



BMC/BMCE

BMC/BMCE04 BMC05 BMC09
BMC/BMCE12 BMC/BMCE18

排量 Displacement range	最大转速 Max speed
272-2812 cm³/r	160 RPM
最大扭矩 Max torque	最大功率 Max power
17884 N.m	70 kW
最大压力 Max pressure	
450 bar	



BMC 技术参数BMC Technical Parameters

		全排量 ^① Full displacement				半排量 ^② Half displacement			
型号 Model	最高压力 Max pressure	排量范围 Displacement	最大扭矩 ^③ Max torque	最高转速 Max speed	最高功率 Max power	排量范围 Displacement	最大扭矩 ^③ Max torque	最高转速 Max speed	最高功率 Max power
	bar [PSI]	cm³/r [cu.in/rev]	Nm [lb.ft]	RPM	kW [HP]	cm³/r [cu.in/rev]	Nm [lb.ft]	RPM	kW [HP]
BMC04	400 [5,802]	272-408 [16.6-24.9]	2600 [1,918]	120	18 [24]	-	-	-	-
BMCE04	400 [5,802]	456-545 [27.8-33.2]	4470 [2,559]	90	18 [24]	-	-	-	-
BMC05	400 [5,802]	272-670 [16.6-40.9]	4265 [3,146]	130	22.5 [30]	-	-	-	-
BMC09	400 [5,802]	667-1000 [40.7-61.0]	6370 [4,698]	100	30 [40]	-	-	-	-
BMC12	450 [6,527]	627-934 [38.2-57.0]	6690 [4,934]	100	41 [55]	313-467 [19.1-28.5]	3345 [2,467]	100	27 [36]
BMCE12	450 [6,527]	1043-1356 [63.6-82.7]	9710 [7,162]	100	41 [55]	521-678 [31.8-41.4]	4855 [3,581]	100	27 [36]
BMC18	450 [6,527]	1395-2099 [85.1-128.0]	15016 [11,081]	155	70 [94]	697-1049 [42.5-64.0]	7508 [3,818]	160	47 [63]
BMCE18	400 [5,802]	2340-2812 [142.7-171.5]	17884 [13,198]	90	70 [94]	1170-1406 [71.4-85.8]	8942 [4,548]	110	47 [63]

①可用于单排量或双排量马达

②仅可用于双排量马达

③最大理论扭矩 (Nm): 1/(20 π) x 最大排量 (cm³/r) x 最高压力 (bar)

①Available for single or dual displacement motors

②Only available for dual displacement motors

③Max theoretical torque(Nm): 1/(20 π) x Max displacement (cm³/r) x Max pressure (bar)

BMC 安装方式BMC Installation Method

型号 Model	在轴承支撑上-圆形法兰 On the bearing support Circular flange	在配流体盖上-双侧安装耳 On the distribution fluid cover Double-sided mounting ears	在马达后面 Behind the motor
BMC04	●		
BMCE04	●		
BMC05			●
BMC09			●
BMC12		●	
BMCE12		●	



BMC 尺寸参数BMC Dimension Parameters

			BMC04	BMCE04	BMC05 轴向 Axial	BMC05 径向 Radial	BMC09	BMC12 BMCE12
mm [in]	L1	1C	172.7 [6.80]	176.2 [6.93]	165 [6.5]	146.5 [5.77]	247.6 [9.75]	249 [9.80]
		2C	-	-	-	-	-	283 [11.14]
	L2 最大 ^① Max	1C	-	-	-	-	-	-
		2C	-	-	-	203.5 [8.01]	-	-
	最大直径A Max diameter A			256 [10.08]	256 [10.08]	302 [11.89]	240 [9.45]	335 [13.81]
kg [lb]	重量最大值 ^② Max weight		31 [68]	32 [70]	35 [77]	40 [88]	72 [158]	82 [180]

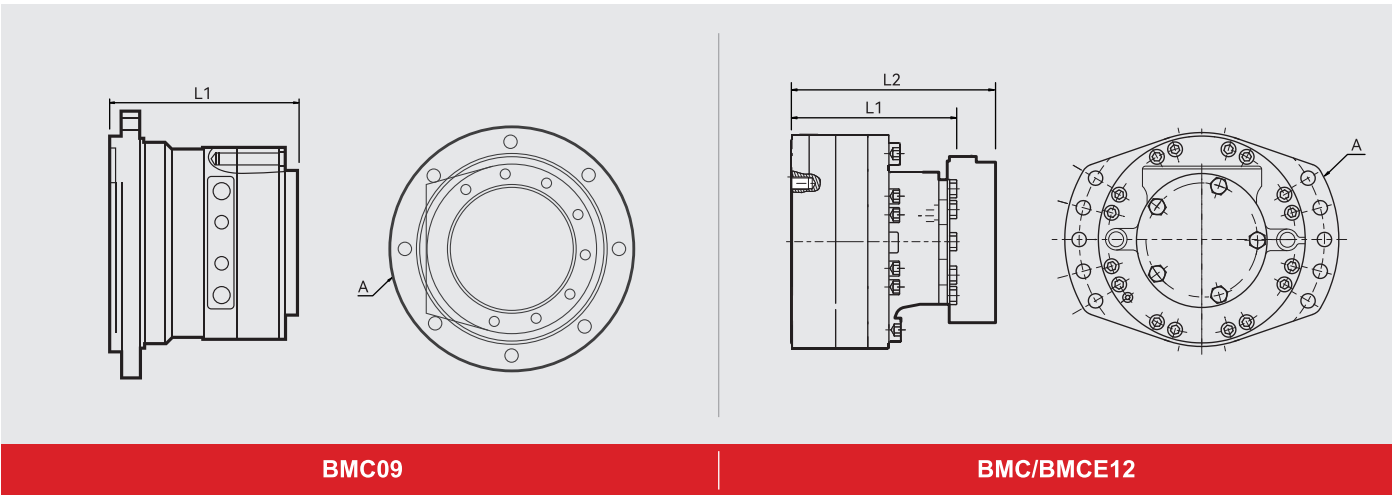
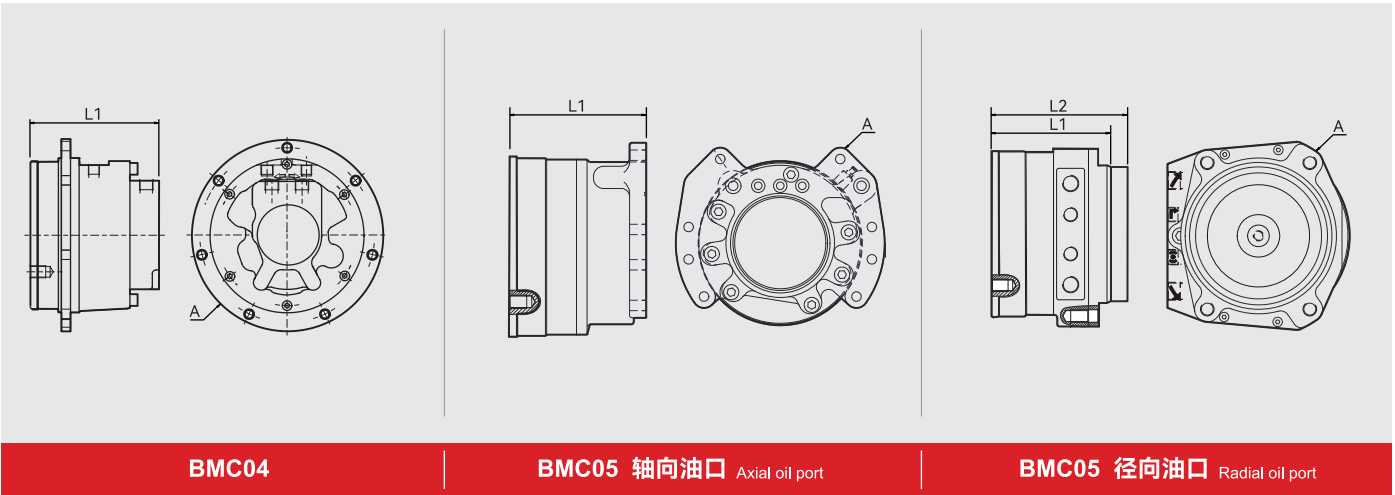
1C 单排量 / 2C 双排量

- ①具有最长多片式制动器的轮边马达
- ②具有多片式制动器的双排量轮边马达

1C Single displacement / 2C Dual displacement

①Wheel motor with longest multi-disc brake

②Dual displacement wheel motor with multi-disc brake



BMC 制动器 BMC Brakes

安装在马达后面的多片式驻车制动器

Multi-disc parking brake mounted behind the motor

最大驻车制动扭矩 Max parking brake torque		BMC05	BMC18 BMCE18
Nm[lb.ft]			
F04/T04	3600 [2,655]	●	
F07/T07	7000 [5,160]	●	
F12/T12	11840 [8,731]		●
F19/T19	18600 [13,721]		●

T制动器 具有标准盖板的制动器

F制动器 具有加强盖板的制动器

T brake Brake with standard cover

F brake Brake with reinforced cover

• 驻车制动器释放压力：12-30bar[174-435PSI]

• Parking brake release pressure:12-30bar[174-435PSI]

多片集成式驻车制动器

Multi-disc integrated parking brake

最大驻车制动扭矩 Max parking brake torque		BMC09
Nm[lb.ft]		
集成式制动器 Integrated brakes	6050 [4,460]	●

• 驻车制动器释放压力：12-30 bar [174-435 PSI]

• Parking brake release pressure:12-30bar[174-435PSI]

安装在轴承支撑上的多片式驻车制动器

Multi-disc parking brake mounted on bearing support

最大驻车制动扭矩 Max parking brake torque		BMC12 BMCE12
Nm[lb.ft]		
轴承支撑内的制动器 Brake inside bearing support	9000 [15,710]	●

• 驻车制动器释放压力：12-30 bar [174-435 PSI]

• Parking brake release pressure:12-30bar[174-435PSI]

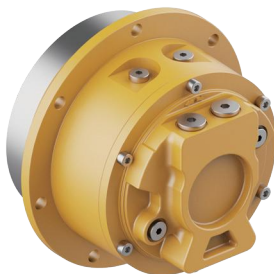
爪形制动器

Claw brake

最大驻车制动扭矩 Max parking brake torque		BMC04	BMCE04	BMC05 (带轴向油口) (Radial oil port)
Nm[lb.ft]				
爪形制动器 Claw brake	3170 [15,710]	●	●	●

• 驻车制动器释放压力：17-30bar[246-435PSI]

• Parking brake release pressure:17-30bar[246-435PSI]



带爪形制动器的BMC04
BMC04 with claw brake

BMC 可选功能 BMC Optional Functions

		BMC04	BMCE04	BMC05	BMC09	BMC12
温度控制 Temperature control	冲洗阀 Flushing valve					
	高效率 (零间隙柱塞/环) High efficiency		●		●	●
	附件壳体冲洗油口 Attachment housing flushing port	●			●	●
转速 Rotation speed	高速/低压降 (蝶形配流孔) High speed/low pressure drop		●			
	转速传感器 Speed sensor	●	●	●	●	●
加强型选项 Enhanced options	超长寿命 Super long life		●		●	●
	PEEK衬套 (耐高温) PEEK bushing	●	●	●	●	●
	加强型端盖 Reinforced end cap					●
	制动器锁定盘 (用于高转速应用) Brake locking disc				●	
空心轴 Hollow shaft		●	●	●	●	●

