

专注于径向柱塞大扭矩马达

液压马达系列

HYDRAULIC MOTOR SERIES



宁波恒通诺达液压股份有限公司

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企业简介

Company Profile

恒通液压成立于2004年，是一家专业研发、生产、销售低速大扭矩径向柱塞马达、铣挖机的国家高新技术企业。恒通液压坐落于浙江省宁波市镇海区，占地面积二十多亩，年产值8000多万元。

本着“专注、专业、创新”的精神，恒通液压长期致力于低速大扭矩径向柱塞液压马达的研发，公司拥有一支高素质的技术研发团队，他们由几十位液压行业的资深工程师组成。同时恒通液压也与燕山大学、宁波大学等高校建立了长期的战略合作关系。截至2022年，恒通液压已取得十多项发明专利、几十项实用新型专利，并先后通过了ISO9001质量管理体系、ISO140001环境管理体系等多项权威认证。在产品研发、技术支持和服务方面，具备强劲的技术实力和竞争优势。

作为液压行业的标杆企业，恒通液压积极参与国家及行业标准化工作，引导行业标准制定，已参与修/制定各项液压行业国家及企业标准八项。

恒通液压现拥有几十台进口数控车床，立、卧式加工中心、自动化生产线、自动化装配线，同时配备三坐标检测仪、智能影像仪、硬度检测机等各类检验设备，能够充分保证产品配件的加工精度。随着转子自动化生产线、前盖自动化生产线等智能设备的引进，恒通液压现已具备年产2万台马达的生产规模。2023年，公司新厂房已在紧锣密鼓地筹备中，预计2024年末正式投入生产。

未来，公司将继续沿着“企业规模化、人才战略化、产业多元化、产品多样化”的发展之路，不断创新，持续优化，立志成为中国领先的液压马达制造企业，成为高科技人才圆梦的家园。

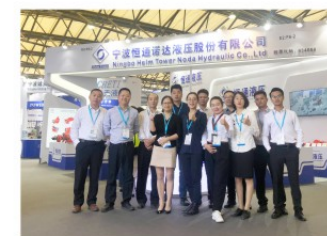
Ningbo Helm Tower Noda Hydraulic Co., Ltd. Was establish in 2004,which is a professional designer, manufacturer, exporter, national High-Tech enterprise for hydraulic piston motors, , drum cutter and parts.Our company is located in Zhenhai, Ningbo. Covering area 20 acres of land, ,annual output value more than \$12 million.

In the spirit of "focus, professionalism, and innovation", Helm Tower Hydraulic has long been committed to the research and development of low-speed and high torque radial piston hydraulic motors. The company has a high-quality technical research and development team, consisting of dozens of senior engineers in the hydraulic industry. Meanwhile Helm Tower Hydraulic has also established long-term strategic cooperative relationships with universities such as Yanshan University and Ningbo University. As of 2022, Helm Tower Hydraulic has obtained more than ten invention patents and dozens of utility model patents, and has successively passed multiple authoritative certifications such as ISO9001 quality management system and ISO140001 environmental management system. We have strong technical strength and competitive advantages in product research and development, technical support, and services.

As a benchmark enterprise in the hydraulic industry, Helm Tower Hydraulic actively participates in national and industry standardization work, guides the formulation of industry standards, and has participated in the revision/formulation of eight national and enterprise standards for the hydraulic industry.

Helm Tower Hydraulic currently has dozens of imported CNC lathes, vertical and horizontal machining centers, automated production lines, automated assembly lines, and various inspection equipment such as Three coordinate measuring machine, intelligent imaging machines, hardness testing machines, etc., which can fully ensure the processing accuracy of product accessories. With the introduction of intelligent equipment such as rotor automation production lines and front cover automation production lines, Helm Tower Hydraulic now has a production scale of 20000 motors per year. In 2023, the company's new factory building has been under intense preparation and is expected to be officially put into production by the end of 2024.

In the future, the company will continue to follow the development path of "enterprise scale, talent strategy, industrial diversification, and product diversification", continuously innovate and optimize, and aspire to become a leading hydraulic motor manufacturing enterprise in China and a home for high-tech talents to realize their dreams.



恒通的企业文化

企业使命：

聚焦客户需求，提供专业服务，为合作伙伴创造价值。

企业愿景：

持续创新，成为合作伙伴信赖的专业液压产品制造商与服务商。

恒通液压将聚焦液压行业，通过总体规划、分步实施、阶段见效、巩固提升，通过优化布局，整合供应链，提升企业品牌和竞争力，并全面进行标准化建设，事事有标准，人人有标准，运行有标准。

Helm Tower Company Culture

Corporate Mission:

Focus on customer needs, provide professional services, and create value for partners.

Corporate Vision:

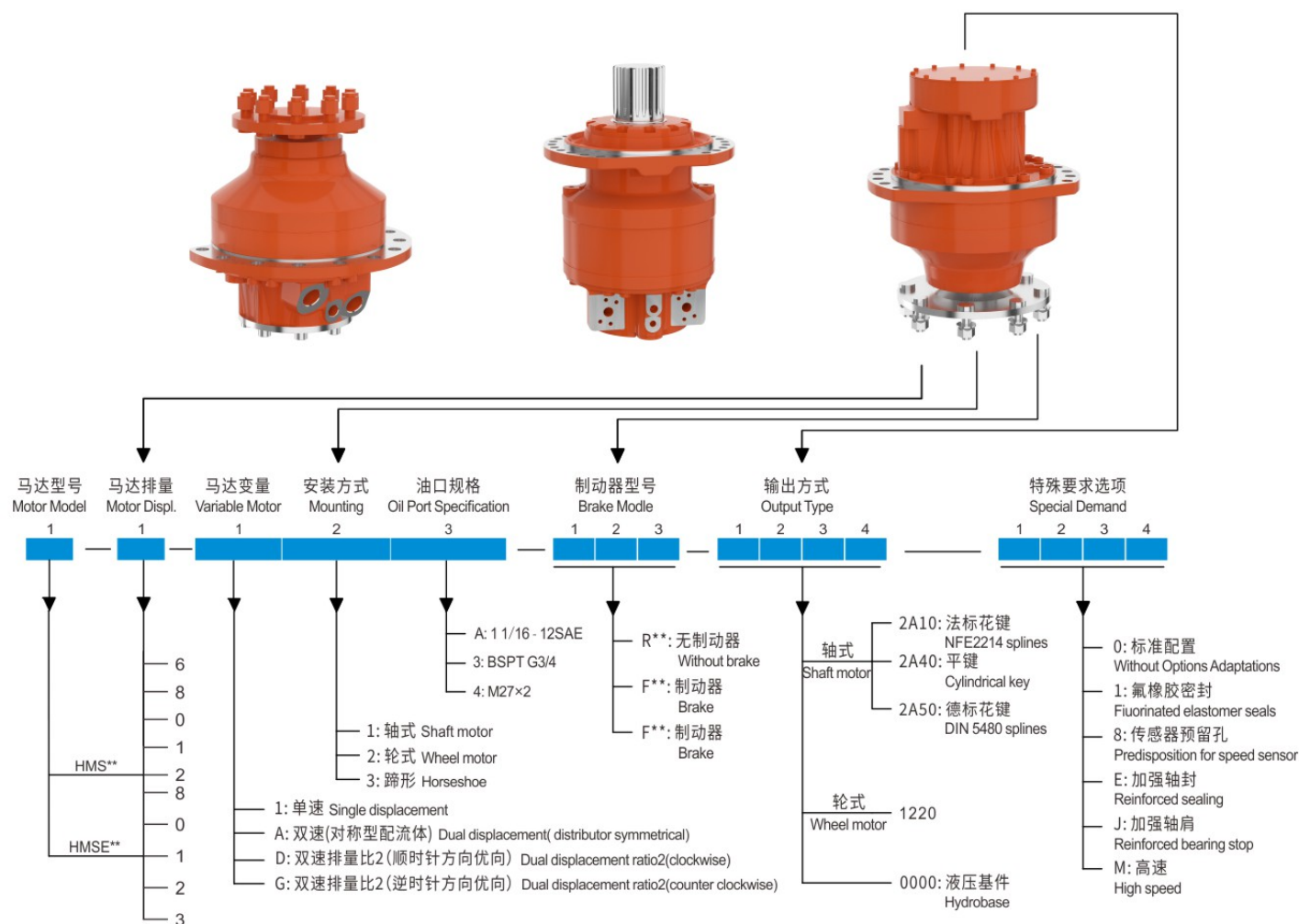
Continuously innovate, become a trusted professional hydraulic product manufacturer and service provider for partners.

Helm Tower will focus on the hydraulic industry, consolidate and improve through overall planning, step-by-step implementation, and phased effectiveness. By optimizing layout, integrating supply chain, enhance corporate brand and competitiveness, and comprehensively carry out standardization construction, with standards for everything and everyone.



HMS 系列液压马达

HMS Series hydraulic motor



HMS系列液压马达功能特点

HMS series hydraulic motor features

- 模块化设计、结构紧凑
- 可承受较大的轴向和径向力
- 扭力大、低速性能优越
- 模块化设计、结构紧凑
- 耐高压、耐磨损，实现高功率、高效率
- 可实现双向输出，可变速
- 可加装多规格制动器，多规格阀块，实现不同控制
- Modular design with compact structure
- Can withstand large axial and radial forces
- Excellent torque and low speed performance
- High pressure and wear resistance, achieving high power and efficiency
- Capable of achieving bidirectional output and variable speed
- Multiple specifications of brakes and valve blocks can be installed to achieve different controls

HMS系列马达应用

HMS series hydraulic motor application

- 产品广泛应用于:
- 压路机、平地机行走系统
 - 清扫车、小装载机行走系统
 - 挖掘机回转系统
 - 刮板机紧链系统
 - 支架搬运车行走系统
 - 破碎机回转系统
- The product is widely used in:
- Road roller and grader travel system
 - Sweeper and small loader travel system
 - Excavator slewing system
 - Scraper chain tightening system
 - Traveling system of bracket handling vehicle
 - Shredder slewing system



HMS02-HMS08 技术参数

HMS02-HMS08 Technical specifications

型号 Code	HMS02	HMSE02	HMS05	HMSE05	HMS08	HMSE08
排量 Displacement(ml/r)	172-255	332-398	260-560	503-820	467-934	1043-1248
压差10MPa时理论扭矩 Theoretical torque at 10MPa (N.M)	273-405	528-633	413-890	800-1304	743-1485	1658-1984
额定转速 Rated speed(r/min)	200-160	160-100	160-125	100-80	160-100	80
转速范围 Speed range(r/min)	0-390	0-200	0-265	0-200	0-210	0-130
额定压力 Rated pressure(MPa)	25	25	25	25	25	25
额定扭矩 Rated torque(N.M)	683-1013	1320-1583	1033-2225	2000-3260	1858-3713	4145-4960
最大压力 Max.pressure(MPa)	40	40	40	40	40	40
最大扭矩 Max.torque(N.M)	1094-1622	2112-2531	1654-3562	3199-5215	2970-5940	6633-7937
最大功率 Max.power(KW)	18	22	29	29	41	41
液压油 Hydraulic Oil	46#耐磨液压油					
油液温度 Oil temperature	-20° ~70°					
油液清洁度 Oil Cleanliness	GB/T 14039规定的等级1/19/16					
重量 Weight(KG)	24	24	44.1	44.1	62.6	62.6
制动器重量 Brake module weight(KG)	4.4	4.4	10.9	10.9	17.4	17.4

HMS系列马达应用

HMS series hydraulic motor application

产品广泛应用于:

压路机、平地机行走系统
 清扫车、小装载机行走系统
 挖掘机回转系统
 刮板机紧链系统
 支架搬运车行走系统
 撕碎机回转系统

The product is widely used in:

Road roller and grader travel system
 Sweeper and small loader travel system
 Excavator slewing system
 Scraper chain tightening system
 Traveling system of bracket handling vehicle
 Shredder slewing system



HMS11-HMS25 技术参数

HMS11-HMS25 Technical specifications

型号 Code	HMS11	HMSE11	HMS18	HMSE18	HMS25
排量 Displacement(ml/r)	730-1259	1263-1687	1091-2099	2340-2812	2004-3006
压差10MPa时理论扭矩 Theoretical torque at 10MPa (N.M)	1161-2002	2008-2682	1735-3337	3721-4471	3186-4780
额定转速 Rated speed(r/min)	80-125	63-80	80-100	50-63	63-100
转速范围 Speed range(r/min)	0-200	0-170	0-170	0-90	0-145
额定压力 Rated pressure(MPa)	25	25	25	25	25
额定扭矩 Rated torque(N.M)	2903-5005	5020-6705	4338-8343	9303-11178	7965-11950
最大压力 Max.pressure(MPa)	40	40	40	40	40
最大扭矩 Max.torque(N.M)	4643-8007	8033-10729	6939-13350	14882-17884	12745-19118
最大功率 Max.power(KW)	50	50	70	70	90
液压油 Hydraulic Oil	46#耐磨液压油				
油液温度 Oil temperature	-20° ~70°				
油液清洁度 Oil Cleanliness	GB/T 14039规定的等级1/19/16				
重量 Weight(KG)	89.2	89.2	126	126	221
制动器重量 Brake module weight(KG)	24.8	24.8	34	34	58

HMS系列马达应用

HMS series hydraulic motor application

产品广泛应用于:

压路机、平地机行走系统
 清扫车、小装载机行走系统
 挖掘机回转系统
 刮板机紧链系统
 支架搬运车行走系统
 撕碎机回转系统

The product is widely used in:

Road roller and grader travel system
 Sweeper and small loader travel system
 Excavator slewing system
 Scraper chain tightening system
 Traveling system of bracket handling vehicle
 Shredder slewing system



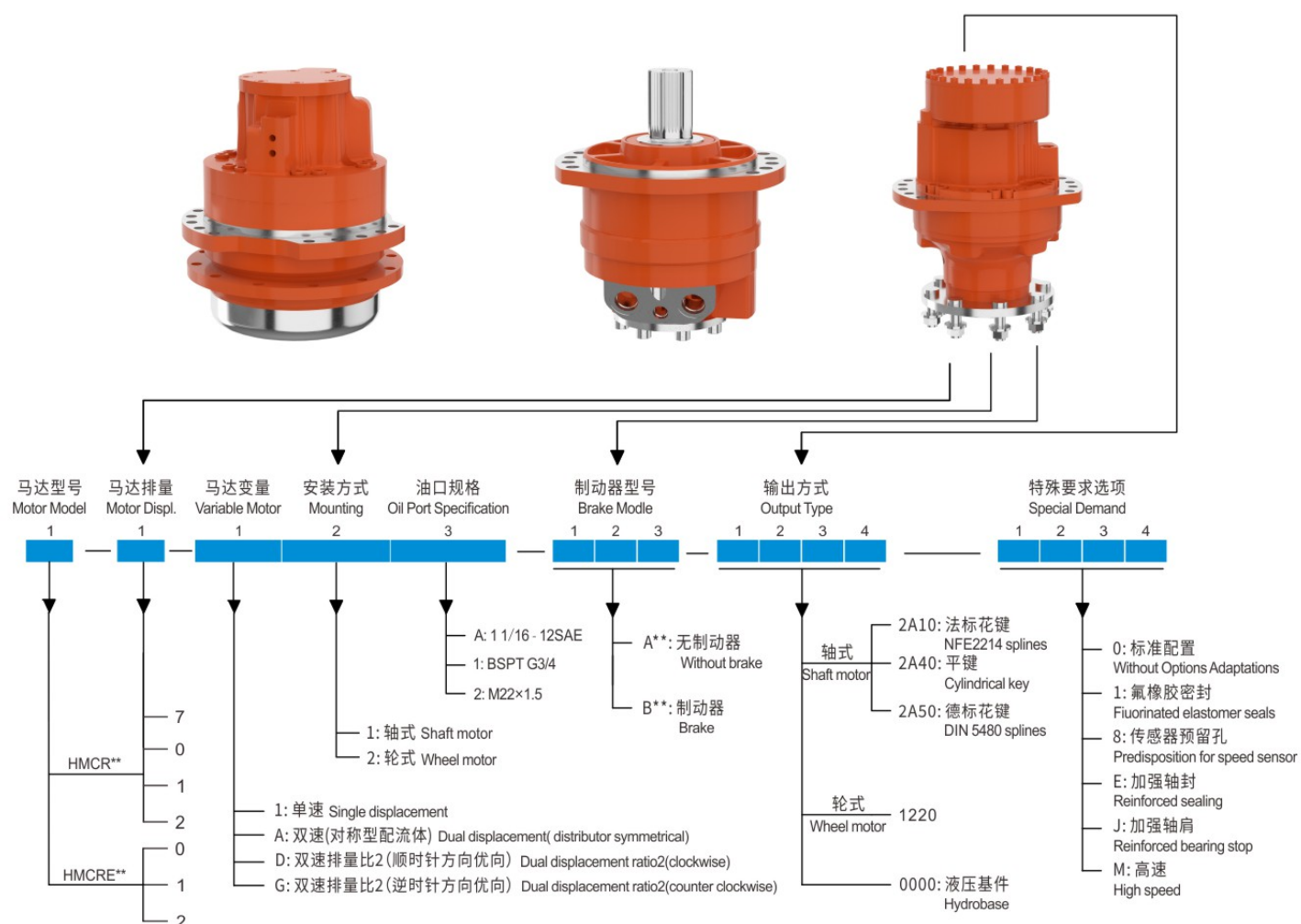
HMS35-HMS125 技术参数

HMS35-HMS125 Technical specifications

型号 Code	HMS35	HMS50	HMS83	HMS125
排量 Displacement(ml/r)	2439-4198	3500-6011	6679-10019	10000-15000
压差10MPa时理论扭矩 Theoretical torque at 10MPa (N.M)	3878-6675	5565-9557	10620-15930	15900-23850
额定转速 Rated speed(r/min)	63-100	50-80	40-63	30-50
转速范围 Speed range(r/min)	0-140	0-148	0-65	0-50
额定压力 Rated pressure(MPa)	25	25	25	25
额定扭矩 Rated torque(N.M)	9695-16688	13913-23893	26550-39825	39750-59825
最大压力 Max.pressure(MPa)	40	40	40	40
最大扭矩 Max.torque(N.M)	15512-26699	22260-38230	42478-63721	63600-95400
最大功率 Max.power(KW)	110	140	220	240
液压油 Hydraulic Oil	46#耐磨液压油			
油液温度 Oil temperature	-20° ~70°			
油液清洁度 Oil Cleanliness	GB/T 14039规定的等级1/19/16			
重量 Weight(KG)	200	370	450	475
制动器重量 Brake module weight(KG)	85	95	77	98

HMCR 系列液压马达

HMCR Series hydraulic motor



HMCR系列液压马达功能特点

HMCR series hydraulic motor features

- 模块化设计 结构紧凑
- 可承受较大的轴向和径向力
- 扭力大 低速性能优越
- 耐高压、耐磨损，实现高功率、高效率
- 可实现双向输出，可变速
- 可加装多规格制动器，多规格阀块，实现不同控制
- 可加装冲洗阀，实现降温效果
- Modular design with compact structure
- Can withstand large axial and radial forces
- Excellent torque and low speed performance
- High pressure and wear resistance, achieving high power and efficiency
- Capable of achieving bidirectional output and variable speed
- Multiple specifications of brakes and valve blocks can be installed to achieve different controls
- Can be equipped with a flushing valve to achieve temperature reduction effect

HMCR 系列马达应用

HMCR series hydraulic motor application

产品广泛应用于:

- 滑移装载机行走系统
- 摊铺机输料、分料系统
- 掘进机星轮系统
- 单轨吊驱动系统

The product is widely used in:

- Skid steer loader travel system
- Paver material transportation and distribution system
- Roadheader Star Wheel System
- Monorail crane drive system



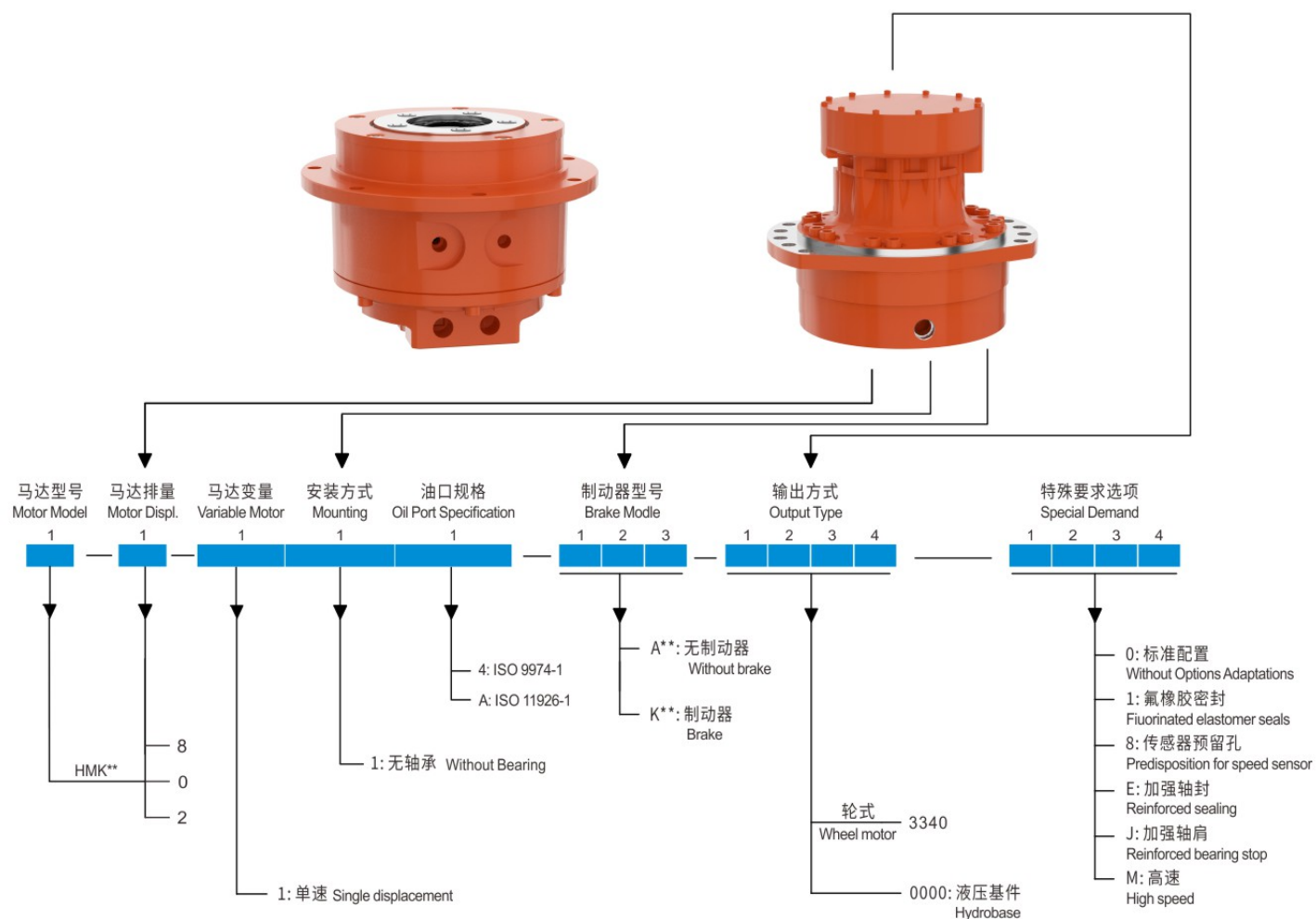
HMCR03-HMCR10 技术参数

HMCR03-HMCR10 Technical specifications

型号 Code	HMCR03	HMCRE03	HMCR05	HMCRE05	HMCR10	HMCRE10
排量 Displacement(ml/r)	160-280	325-400	380-565	620-820	780-940	1120-1340
压差10MPa时理论扭矩 Theoretical torque at 10MPa (N.M)	254-445	516-636	604-890	985-1302	1240-1494	1780-2130
额定转速 Rated speed(r/min)	250-125	160-125	160-125	125-100	125-100	100-80
转速范围 Speed range(r/min)	0-670	0-330	0-475	0-290	0-215	0-150
额定压力 Rated pressure(MPa)	25	25	25	25	25	25
额定扭矩 Rated torque(N.M)	635-1112	1290-1590	1510-2225	2462-3225	3100-3735	4450-5325
最大压力 Max.pressure(MPa)	40	40	40	40	40	40
最大扭矩 Max.torque(N.M)	1018-1781	2067-2544	2417-3593	3943-5215	4961-5978	7123-8522
最大功率 Max.power(KW)	18	22	29	35	44	50
液压油 Hydraulic Oil	46#耐磨液压油					
油液温度 Oil temperature	-20° ~70°					
油液清洁度 Oil Cleanliness	GB/T 14039规定的等级1/19/16					
重量 Weight(KG)	25.1	25.1	48	48	75	75
制动器重量 Brake module weight(KG)	6.3	6.3	8	8	10	10

HMK 系列液压马达

HMK Series hydraulic motor



HMK系列液压马达功能特点

HMK series hydraulic motor features

- 紧凑型设计、满足空间小的设计要求
- 可承受较大的轴向和径向力
- 扭力大、低速性能优越
- 耐高压、耐磨损，实现高功率、高效率
- 可实现双向输出，可变速
- Compact design meets the design requirements of small space
- Can withstand large axial and radial forces
- Excellent torque and low speed performance
- High pressure and wear resistance, achieving high power and efficiency
- Capable of achieving bidirectional output and variable speed

HMK系列马达应用

HMK series hydraulic motor application

产品广泛应用于：
各类大、中、小型压路机行走系统

The product is widely used in:
Various types of large, medium, and small road roller travel systems



HMK04-HMK47 技术参数

HMK04-HMK47 Technical specifications

型号 Code	HMK04	HMK18	HMK23	HMK35	HMK47
排量 Displacement(ml/r)	272-408	1395-2812	1395-2812	3143-3494	4680-5624
压差10MPa时理论扭矩 Theoretical torque at 10MPa (N.M)	432-649	2218-4471	2218-4471	4997-5555	7441-8942
额定转速 Rated speed(r/min)	120-110	120-59	120-59	50	50-46
转速范围 Speed range(r/min)	0-120	0-155	0-155	0-50	0-50
额定压力 Rated pressure(MPa)	25	25	25	25	25
额定扭矩 Rated torque(N.M)	1081-1621	5545-11177	5545-11177	12493-13888	18603-22355
最大压力 Max.pressure(MPa)	40	40	40	40	40
最大扭矩 Max.torque(N.M)	1730-2595	8872-17884	8872-17884	19989-26699	29765-35769
最大功率 Max.power(KW)	18	70	70	110	110
液压油 Hydraulic Oil	46#耐磨液压油				
油液温度 Oil temperature	-20° ~70°				
油液清洁度 Oil Cleanliness	GB/T 14039规定的等级1/19/16				
重量 Weight(KG)	20	150	150	236	236