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镇江液压股份有限公司

ZHENJIANG HYDRAULICS CO.,LTD.



全液压转向器 HYDRAULIC STEERING UNIT
摆线液压马达 HYDRAULIC ORBITAL MOTOR
液压制动器 HYDRAULIC BRAKE
行星齿轮箱 PLANETARY GEARBOX

40⁺年 专注全液压转向器和摆线液压马达

SPECIALIZING IN HYDRAULIC STEERING UNIT AND ORBITAL MOTOR FOR MORE THAN 40 YEARS





全液压转向器和摆线马达专家

Hydraulic steering unit and orbital motor expert

镇江液压股份有限公司成立于1976年，专业化研发与制造全液压转向器及配套阀类产品，镇江大力液压马达股份有限公司长期致力于高品质摆线液压马达及其配套产品的研发与制造，广泛为工程机械、工业车辆、农业机械、林业机械、路面机械、矿山机械、塑料机械、船用机械、园林机械等主机配套，畅销全中国，出口全世界。公司经过四十多年的发展，行稳致远，砥砺前行！具有了强大的研发能力，配备了先进的制造设备和检测仪器，打造出的高性能产品竭诚满足客户的需要，为非道路移动车辆全液压转向和机械设备液压扭矩输出提供理想的解决方案。

Zhenjiang Hydraulics Co., Ltd. was established in 1976, specializing in the development and manufacture of hydraulic steering unit, accessories valve and related products. Zhenjiang Dali Hydraulic Motor co., LTD., has been continuously devoting to research, development and manufacture of high quality orbital motor and related products. Products are widely used for engineering machinery, industrial vehicles, agricultural machinery, forestry machinery, road machinery, mining machinery, plastic machinery, marine machinery, garden machinery etc. We have good sales and service reputation all over China and the worldwide. The company has a history of more than 40 years development and we've been moving forward steadily. Based on strong R & D ability, advanced manufacturing equipment and testing instruments, we supply high-performance products and ideal solution of hydraulic steering system for off-highway mobile vehicles and mechanical equipment hydraulic torque output to satisfy customers' needs.

关于我们 >> ABOUT US



关于产品 >> 全液压转向器 STEERING UNIT



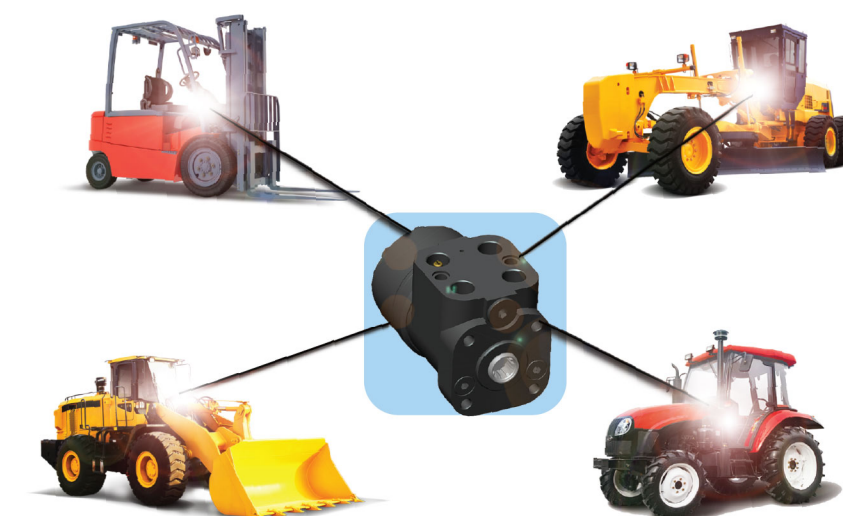
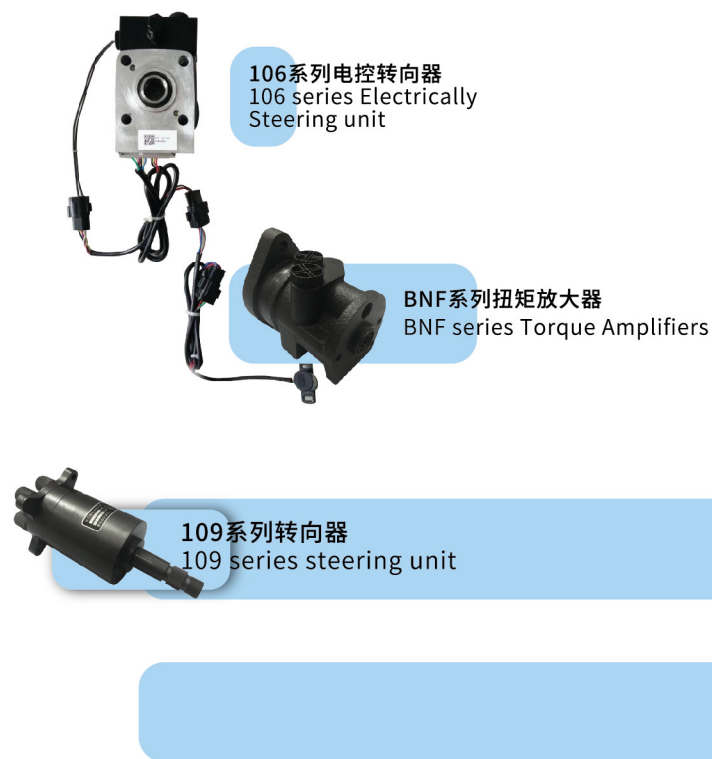
电控转向器
Electronically
Steering Unit



扭矩放大器
Torque Amplifier



全液压转向器
Hydraulic Steering
Unit



0 100 200 300 400 500 1000 1250 排量 mL/r

全液压转向器 Hydraulic Steering Unit

全液压转向器属于液压阀控制元件。通过方向盘转动快慢和方向来控制液压的输出流量和方向。由于采用了全液压转向，取消了方向盘和转向机构的机械连接，具有增力明显，布置灵活，单位功率重量低，无极调速，应急人力转向等优点。广泛使用在非道路移动车辆的转向当中。

Hydraulic steering belongs to hydraulic valve component range. It is used to control hydraulic output flow and direction by steering wheel rotation speed and direction. By the adoption of hydraulic steering, the mechanical connection between steering wheel and steering mechanism has been replaced, which result in the advantages of increasing steering force, flexible layout, low unit power weight, continuously variable transmission, emergency manual steering and so on. It is Widely used in the steering system for off-road mobile vehicles.

全液压转向器功能 Function of Hydraulic Steering Unit

开芯和闭芯系统

方向盘不转向时，液压泵来油经全液压转向器内部直接回油箱称之为开芯系统，不回油箱的称之为闭芯系统。

Open center and closed center system

when the steering wheel stop turning, the oil provided by hydraulic pump will return to the oil tank directly via the hydraulic steering unit, this is what we called as the open center system. If the oil do not return to tank, we called it as closed center system.

有反应和无反应系统

转向轮的冲击可通过转向器内部作用在方向盘上，驾驶人员可感受到路面情况，称之为有反应系统，感受不到路面情况称之为无反应系统。

Reaction and non-reaction system

the impact on the wheel hub can be reacted on steering wheel through steering unit. If the driver can feel the road condition, it is called as reaction system. If no feeling of the road condition, it is called as non-reaction system.

负荷传感系统

负荷传感转向器将转向系统的负荷压力信号传送到优先阀，来控制其供给转向器稳定流量和压力，并将多余流量供给其他工作系统，节能效果显著。

Load sensing system

the load sensing steering unit transmits the loading pressure signal of steering system to priority valve. It controls the steady flow and pressure supplied to steering unit. At the same time, it provides excess flow to other working systems. It helps to save energy significantly.



1.

BZZ 系列转向器 BZZ Series Steering Unit

主要针对国内用户开发，在国内市场有广泛应用。

Developed for domestic customer specially and applied widely in Chinese market.



2.

BZZ5 负荷传感型转向器 BZZ5 Series Load Sensing Type Steering Unit

通过转向器引出LS信号控制优先阀流量，优先供应转向器，保证转向可靠、节能。

It can be used to control the priority valve flow by leading the load sensing signal from steering unit. In this case, it will help to supply oil flow to steering unit and ensure reliable and effective steering.



3.

10 系列转向器 10 Series Steering Unit

该系列转向器可集成安全阀、缓冲阀、补油阀等液压系统功能阀，主要针对国外用户开发，符合国际标准，并在国内市场逐渐推广。

10 Series Steering unit is integrated with relief valve, anti-shock valve, suction valve and other function valves in hydraulic system. It is developed specially for oversea customers and the mounting dimension and quality is complied with international standard. At the same time, it has been widely used in domestic market as well.



4.

10□-5 系列转向器 10□-5 series steering control units

功能同BZZ5，并集成多种功能阀实现保护液压系统的作用。与优先阀连接可采用板式或管式，可根据主机厂要求，将液压信号引出控制电气系统。

Function same as BZZ5, and integrated with a variety of functional valves to protect hydraulic system. The connection with the priority valve can be plate or pipe type, and hydraulic signal can be drawn out to the electrical control system according to the requirements of OEMs.



5.

106 系列电控转向器 106 series Electrically Steering units

通过采集转向轮和方向盘转角信号，控制电磁阀对转向液压系统进行补油，实现了方向盘与转向轮精确对应关系。驾驶员在转向操作过程中更加方便、精确。

By collecting turning wheel and steering wheel angle signals, it controls electromagnetic valve to supply oil to steering hydraulic system. It helps to realize precise correspondence between turning wheel and steering wheel hub. Driver will feel more convenient and accurate in steering operation.



6.

108 系列转向器 108 series steering control units

通过双转定子设计，在正常转向时，双转定子同时参与工作实现大流量，在发动机熄火时，切换为一副小排量转定子工作，实现应急人力转向，转向更加安全可靠。

By double-gerotor sets design, when turning normally, the double-gerotors will be involved in working at the same time to achieve large flow. When engine shuts off, it is switched to one pair of small-displacement rotating stator to achieve emergency manual steering, which makes the steering safer and more reliable.



7.

109 系列转向器 109 series steering control units

该系列转向器整体结构和流量更小，可集成各种功能阀。适用于割草机、微型叉车、小型拖拉机、游艇等微型机械液压转向中。

The overall structure and flow rate of this steering unit is smaller, and various functional valves can be integrated. It is applied for hydraulic steering of mower, mini forklift, small tractor and yacht.



8.

TLF 系列同轴流量放大转向器 TLF series coaxial flow amplifying steering units

通过在负荷传感转向器上设计放大流量，使相同排量和整体结构尺寸产品具有更大流量，适合大中型轮式车辆全液压转向，并广泛应用在国内工程机械市场。

By designing magnified flow on load sensing steering units, it will have larger flow compared with the steering unit which have same displacement and overall structure size. It is widely applied for large and medium-sized wheel vehicles of domestic construction machinery market.



9.

BNF 系列扭矩放大器 BNF series Torque Amplifiers

通过驾驶员用较小的转向力矩实现输出较大力矩的一种液压元件。实现方向盘与转向轮的精确对应，适用于水稻插秧机等农机中。

This hydraulic component can output a larger torque by using a smaller steering torque from the driver. It helps to realize the accuracy correspondence between turning wheel and steering wheel hub. It is applied for rice planter and other agricultural machineries.



10.

组合阀块 Combination Valve

组合阀块与转向器配套使用，阀块集成安全阀、缓冲阀、补油阀、单向阀等，实现保护液压系统的功能。

Combination valves are used with steering units and integrated with relief valve, anti-shock valve, suction valve and check valve to realize the function of protecting hydraulic system.



11.

FLD 单路稳定分流阀 FLD Flow Divider Valves

主要用于液压泵供油量及系统负荷变化情况下，通过分流阀来保证转向器所需的稳定流量。

It's used for the situation when hydraulic pump fuel supply and system load changes, which ensures the steady flow required, which the steering units.



12.

YXL 型优先阀 YXL Type Priority Valve

优先阀主要用于在系统负荷变化及方向盘转速变化下，能优先保证转向器所需流量，并将多余流量供给其他工作系统。

Priority valves are mainly used to ensure the required flow of steering units under the change of system load and steering wheel speed, and supply excess flow to other working systems.



13.

PV型优先阀 PV Type Priority Valve

功能同YXL型优先阀。该优先阀必须要与10系列转向器集成使用。

Function same as YXL type. This priority valve must be connected with 10 series steering units.



14.

LFF 型流量放大阀 LFF Flow Amplifier Valve

该阀是利用转向器低压小流量来控制液压转向系统高压大流量的流量控制阀。该阀采用了压力补偿装置，输出流量不随负载改变，节能效果明显。

It is a flow control valve which uses low pressure and small flow rate of steering gear to control high pressure and large flow rate of hydraulic steering system. The valve adopts pressure compensation device, the output flow does not change with the load, and the energy-saving effect is obvious.



15.

LF 型流量放大阀 LF Flow Amplifier Valve

该阀是利用转向器小流量来控制液压转向系统大流量的流量控制阀。该阀采用了按比例流量放大的特殊结构，放大倍数稳定，节能效果显著。适用于大中型轮式车辆全液压转向。

It is a flow control valve which uses small flow rate of steering gear to control large flow rate of hydraulic steering system. The valve adopts a special structure of proportional flow amplification, with stable amplification factor and remarkable energy saving effect. It is suitable for full hydraulic steering system of large and medium wheeled vehicles.



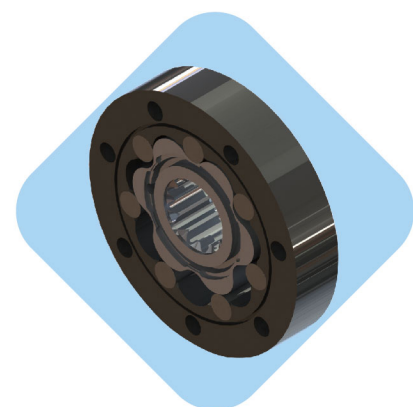
16.

FZ 转向柱 FZ steering column

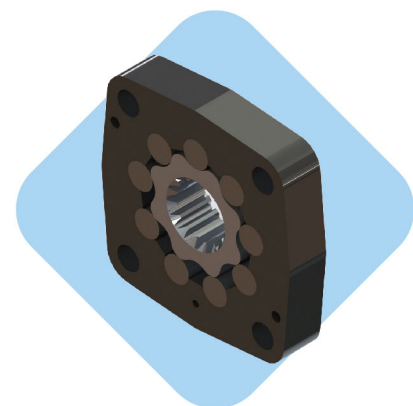
主要用于全液压转向器和方向盘连接。

Mainly used for full hydraulic steering units and steering wheel connection.

关于产品 >> 摆线液压马达 HYDRAULIC MOTOR



高速配流马达
[平面公转配流]
High Speed
Distribution Motor
[Disc Orbit Motion]



平面配流马达
[平面自转配流]
Disc Distribution Motor
[Disc Rotation]

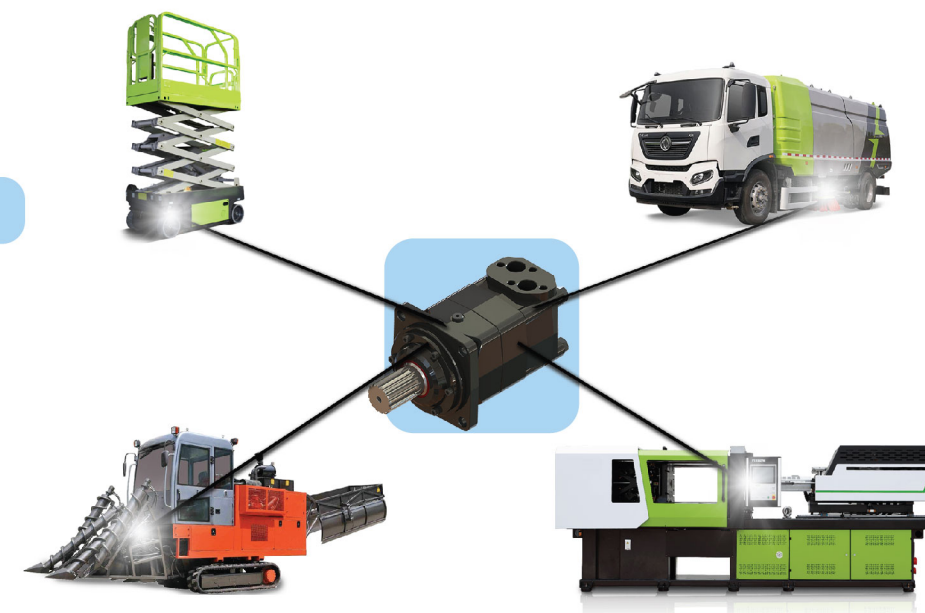
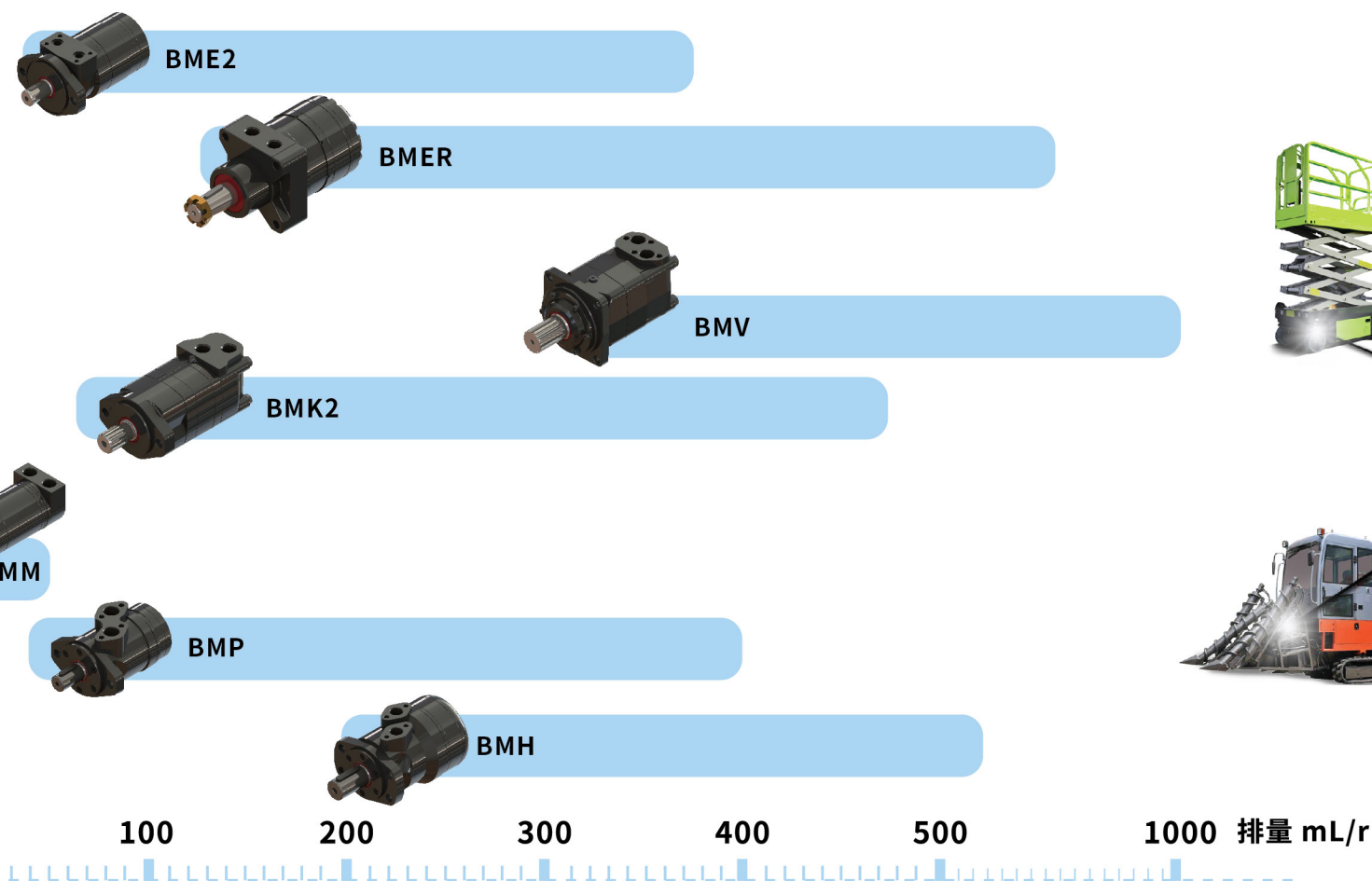


轴配流马达
[轴面自转配流]
Axial Distribution Motor
[Shaft Rotation]

摆线液压马达 Orbital Motor

摆线液压马达是液压系统的一种执行元件，它将液压泵提供的液压能转化为其输出轴的机械能，构造紧凑简洁、体型小、重量轻、输出扭矩大、转速范围宽、工作压力高、噪音小、单位质量功率高、抗负载性能好、可无极调速，最适用于转速1000转以下，压力等级25Mpa以下，功率50Kw以内的各类工况。

Orbital motor is one of the actuating components in hydraulic system, which can transfer hydraulic energy from hydraulic pumps to mechanical energy from output shaft. The advantages include small size, light weight, large output torque, wide rotational speed scope, high working pressure, low noise, high quality power per unit, high loading resistance and continuously speed regulation. Working conditions are best within the range of speed below 1000 RPM, pressure level below 25Mpa and power within 50Kw.



摆线液压马达配流形式 Distribution Modes of Orbital Motor

高速配流马达

属于平面配流马达的分支，配流系统为公转形式进行平面配流，配流精度高，在高压小流量情况下，具有较好的低速稳定性。

High Speed Distribution Motor [Disc Orbit Motion]

It's one of the disc distribution modes. The system is disc distribution in orbit motion, which can have better distribution accuracy and performance when motor in low speed under high pressure and low flow rate circumstance.

平面配流马达

经典的平面配流结构，配流系统为自转形式进行平面配流，自动补偿能力强，高效保持性好，承载能力强，工作压力高、输出扭矩大。

Disc Distribution Motor [Disc Rotation]

It's the classic disc distribution modes. The system is disc distribution in rotation, which can provide better autocompensation capability and higher efficiency retainability, capable of working under stronger loading capacity, higher working pressure and larger output torque.

轴配流马达

简洁的轴配流结构，配流系统为自转形式进行轴面配流，输出机构集成配流系统，集成化程度高，体积小，重量轻，转速高，功率密度大。

Axial Distribution Motor [Shaft Rotation]

It's the simple axial distribution modes. The system is axial distribution in shaft rotation and integrates flow distribution system with output components, which can ensure motors advanced in high degree of integration, small volume, light weight, high speed and high power density.



1.

BMM 系列摆线马达 BMM SERIES

微型轴配流马达，整体式转定子副，特别适合于高转速、安装空间小的场合。
Mini axial distribution system motor with gerotor gear set, specially suitable for high speed and small space working conditions.



2.

BMP 系列摆线马达 BMP SERIES

轴配流马达，整体式转定子副，可承受高背压，结构紧凑、适合安装空间有限的场合，适用领域广泛。
Axial distribution system motor with gerotor gear set, can bear higher back pressure. With compact structure, widely used in limited working space.



3.

BMR 系列摆线马达 BMR SERIES

轴配流马达，镶柱式转定子副，适宜于中高压的负荷，高效保持性好，低噪音。
Axial distribution system motor with gerotor gear set, suitable for medium and high loading, with the advantage of high efficiency retainability and low noise.



4.

BMH 系列摆线马达 BMH SERIES

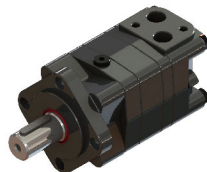
轴配流马达，镶柱式转定子副，马达排量 大，流量大，压力等级高。
Axial distribution system motor with gerotor gear set, with big displacement, high flow and pressure level.



5.

BM4 系列摆线马达 BM4 SERIES

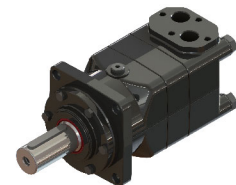
轴配流马达，镶柱式转定子副，适宜于中 高压的负荷，高效保持性好，低噪音。
Axial distribution system motor with gerotor gear set, traditional connection type popular used in domestic market, suitable for medium and high pressure loading. The ball bearing used in BMT series can provide larger radial force loading capacity.



6.

BMSY 系列摆线马达 BMSY SERIES

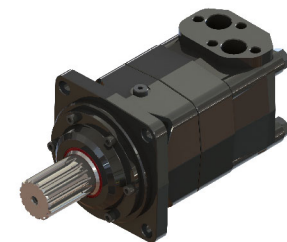
平面配流马达，大径向负载能力，较为粗壮的 联动轴设计，提供更高的压力和输出扭矩。
Disc distribution system motor, with heavy radial force capacity, strong driving shaft, BMSY series can bear higher pressure and provide larger output torque.



7.

BMT 系列摆线马达 BMT SERIES

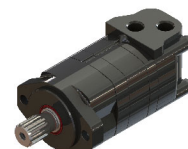
平面配流马达，先进的转定子参数和配流系统 设计，马达启动压力低、高效保持性好。
Disc distribution system motor, advanced rotor stator parameter and distribution system design ensure low starting pressure and high efficiency retainability.



8.

BMV 系列摆线马达 BMV SERIES

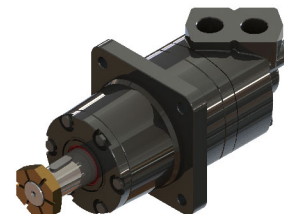
平面配流马达，这是我们目前所有产品中输 出功率最大的，适宜于各种极端工况。
Disc distribution system motor, with the largest output power, suitable for various extreme working conditions.



9.

BMK2 系列摆线马达 BMK2 SERIES

平面配流马达，以粉末冶金材质为基础设计 的配流系统，提供了较高的效率。
Disc distribution system motor, based on powder metallurgy material, provide higher efficiency.



10.

BMK6 系列摆线马达 BMK6 SERIES

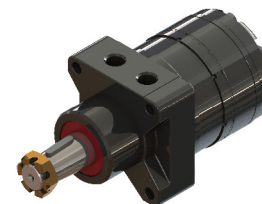
平面配流马达，排量范围宽泛，承载能力强， 连接形式多，适宜于各类复杂工况。
Disc distribution system motor with a wide range of displacement, strong loading capacity and multiple connection modes, suitable for all kinds of complex working conditions.



11.

BME2 系列摆线马达 BME2 SERIES

高速配流马达，粉末冶金配流盘和特殊材质密 封圈，密封效果好，适宜于低转速的工况。
High speed distribution system motor, based on powder metallurgy material and special designed seal kit, can provide better sealing effect, suitable for low speed working conditions.



12.

BMER 系列摆线马达 BMER SERIES

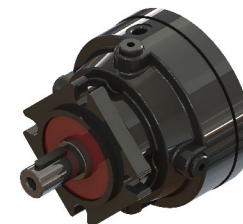
高速配流马达，较高的启动效率，低流量 情况下高效保持性好，适宜于中高压低转 速的工况。
High speed distribution system motor, with higher starting efficiency and high efficiency retainability, suitable for medium and high pressure but low speed working conditions.



13.

BMR-BK01 系列内置制动马达 BMR-BK01 SERIES (Hydraulic motor with integrated brake)

在BMR系列基础上设计的带内置式制动装 置的马达，具有制动功能，结构紧凑，体积 小，制动力大。
Design based on BMR series, integrated with brake, can provide brake function, compact structure, small size and big braking force.



14.

BK2 系列制动器 BK2 SERIES BRAKES

最高可提供600Nm的制动扭矩，其连接 形式可与各类马达进行匹配安装，此外 BK2型制动器也可以单独使用。
Braking torque upto 600Nm, BK2 can be used with or without motor. With multiple connections modes, BK2 can match with different series of motors.



15.

BK10 系列制动器 BK10 SERIES BRAKES

最高可提供1700Nm的制动扭矩，重载轴承提 供较大的承载能力，特殊的摩擦材料使其寿 命较长且维护成本低。
Braking torque upto 1700Nm. Heavy-duty bearings provide greater bearing capacity and special friction materials ensure longer service life and lower maintenance cost.



16.

WGB 减速箱 WGB GEAR BOX

轮毂式输出的行星减速器，多种减速比与多种法 兰连接，可内置驻车制动器，结构紧凑、适用范 围广，尤其适合与BMSY马达配套使用
Hub wheel outputting gear box, multiple reduction ratio matched with multiple flange connection. Parking brake can be integrated within gearbox. With compact structure, WGB can be widely used in different working conditions, especially with BMSY series.



17.

FP/FY/FS 阀系列 FP/FY/FS VALVE SERIES

FP/FY/FS 是与摆线液压马达的油口直接相连的 功能阀，结构紧凑。FP为平衡阀，FY为溢流阀， FS为梭阀。
FP/FY/FS are valves integrated with ports of hydraulic motor, which structure is compact. FP series are overcenter valves, FY series are crossover relief valves and FS series are switch valves.