永磁电机及控制器 狼王 YC22

产品名称	永磁电机及控制器 狼王 YC22
公司名称	沈阳永磁电机制造有限公司
价格	60000.00/套
规格参数	品牌:狼王 型号:YC22
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产品详情

品牌 狼王 型号 YC22

狼王比它的同类更坚韧！更优秀!

狼王团队历经15年，耗巨资，自主研制稀土永磁无刷直流电机（pmbldcm）、永磁同步电机和永磁伺服电机三大系列产品，共189个规格。

狼王稀土永磁无刷直流电机单体最大容量达到中国首创的270kw，公司可生产1kw到270kw的系列产品，广泛应用在电动汽车、石油开采、航天航空、铁路机车、数控机床、塑胶机械、家用电器、矿山机械、工程机械等领域，是调速电机的换代产品。

永磁无刷直流电机由电机和控制器构成，是典型的机电一体化产品。永磁无刷直流电机主要以高性能稀土钕铁硼永磁材料作转子材料，以位置传感器取代碳刷换向器，以电子控制器实现电子换相。它保留了传统直流电机的所有优点，同时又克服了碳刷、滑环结构复杂和故障率高的缺点。

永磁电机控制器采用dsp32位级芯片，利用模糊控制理论对电机进行直接转矩控制，控制简单，运行可靠，成本低，抗干扰强，能在强大辐射干扰下稳定工作；庞大的管理系统对电动机的速度、线圈温升、过压、欠压过流、温度进行有效管理和保护；具有电机软启动功能和升速曲线可调的优点。

wolf king is tougher and better than its competitors!

the team of wolf king spent 15 years and large amount of money in researching and developing three series of products and 189 specifications, including synchronous motor and bldcm and permanent magnet servo motor.

the maximum single capacity of wolf king repm bldcm has reached 270kw, which is a creation in china. the company can produce the series of products from 1kw to 270kw. those products are widely used in the fields of electric vehicles, oil exploitation, space, rail locomotives, nc machines, plastic machinery, household appliances, mining machinery, engineering machinery, and so on.

bldcm consists of motor and controller. it is a typical mechanical and electrical product. the rotor of bldcm is made of high-performance repm ndfeb permanent magnet material. it uses position sensor to replace the steering gear of carbon brush, thus electronic steering is realized by electronic controller. it has retained all the advantages of traditional dc motor, and also has overcome the shortcomings of complex structure and high failure rate of carbon brush and slip ring.

the controller of permanent magnet uses dsp chips of the 32nd level. it is easy to directly torque-control motors by the theory of dimly control. it is reliable, cheap, and strong anti-interfered. it can keep steadily operating with strong radiation and interference. its enormous management system can effectively manage and protect the motor speed, and the overheating, over-voltage, under-voltage, over-current, and temperature of coils. it has soft start-up function of motor, and speed run-up curve can be adjusted.

王者气质就是实力，真正的江湖霸主只有一个！

与传统交流、直流等电动机相比，稀土永磁无刷直流电机的优越之处在于：

1、效率高、节能、损耗小。

无功损耗低，效率高达93-97%，比异步电动机提高15-20%，比有刷直流电机提高30%。

2、体积小，重量轻。

120kw永磁无刷直流电机重量只有230kg；同功率交流电机重量在500kg以上。

3、结构简单：具有直流电机的性能,交流电机免维护的结构,维修量小。

4、启动转矩大，启动电流小,堵转2倍转距输入电流只有额定电流的1/20。

5、调节范围宽：调速范围0-100。

6、长期低速运行不发热：适应频繁启动、频繁换向。

与王者相伴，动力无极限！

与同类电机相比，狼王稀土永磁无刷直流电机具备独特优势：

1、起动力矩大：起动转矩是额定转矩的4倍。

2、在交流磁场下不退磁：狼王永磁电机已运行10年没发现退磁现象。

3、波形好：波形奇变率＜2%。

4、调速性能好：自主研发的方波、正弦波控制技术，可实现精准调速，转速精度误差1‰。

the king temperament lies in its strength. there is only one real overlord in this field!

comparing with traditional three-phase asynchronous ac motors, dc motors and other electric excitation motors, the advantages of sldcm are as follows.

1. high efficiency, energy saving, and low loss

the reactive loss is greatly reduced. the efficiency is as high as 93-97%, and is increased 15-20% than asynchronous motor and 30% than brush dc motor.

2. small size and light weight

the weight of 120kw bldcm is only 230kg; the weight of ac motors with the same power is more than 500kg.

3. simple structure: it has the performance of a dc motor, the maintenance-free structure of a ac motor, and less maintenance.

4. with large startup torque and small startup current, when the rotor is locked, the input current of 2 times of torque is only 1/20 of the rated current.

5. adjustment range: the speed range is 0-100.

6. long-term and low-speed operation without heat: it is suitable for frequent startup and commutation.

comparing with the same trade, wolf king repm bldcm has unique advantages:

1. large startup moment: the startup torque is four times of the rated torque.

2. no demagnetization in ac fields: there has been any demagnetization of wolf king permanent motor for ten-year operation.

3. good waveform: the odd variability of waveform＜2%；

4. good speed performance: gearing with the self-developed control technology of square wave and sine wave, it can achieve precise speed control, and its speed accuracy can reach 0.1%.

纵横天下绝对不是靠运气,

狼王对即将实施的行动总是具有充分的把握！

稀土永磁无刷直流电机应用领域十分广泛，仅举四例简单介绍：

油田抽油机专用---稀土永磁无刷直流电机

1、高效：yt型油田专用稀土永磁无刷直流电机效率94%-96.2%。

2、节能：yt型油田专用稀土永磁无刷直流电机在油田实际运行中有功节电20%，功率因数:0.997。

3、过载倍数大：因油井的井况不同，抽油机在运行的过程中遇到井压加大或卡井现象，通过4倍过载转矩能够顺利运转。

纯电动大巴专用---稀土永磁无刷直流电机及控制器

1、功率大：bs型永磁无刷直流电机最大功率270kw，可以为时速120公里豪华纯电动大巴配套；

2、效率高：120kw效率达到97.2%；

3、噪声低：采取低噪声设计和特殊工艺，避免谐波噪声，调制频率设计在15khz，接近超音频；

4、输出轴距大，低速大转矩，无需变速箱，成本低；

5、低压特性好：在240vdc电压下照常工作，与其他电机在320vdc额定电压的外特性相同，因而提高电池利用率、延长电动车续航里程。

纯电动轿车专用---轮边永磁无刷直流电机驱动总成

电动机中置，产品减少30%因传动所带来的效率损失，增加了续航里程。电机控制系统采用dsp32位级芯片，利用模糊控制理论，解决电子差速问题。

塑胶注塑机、挤出机专用---稀土永磁无刷直流电机

1、效率高：sj型塑胶专用无刷直流电机比变频调速拖动y系列电机效率高10～15%。

2、功率因数高：无功损耗比y系列电机降低了60～80%，其功率因数接近1。

3、起动转矩大：转子惯量小，能在0.8秒达到满速，最适合注塑机、挤出机应用。

4、频繁起动、低频运转电机不发热：能在一分钟内起动、制动10次，电机在100～3000转长期运转不发热。

5、调速精度高：转矩特性好，调速精度误差1‰，不受电网电压及负载变化的影响，提高挤出塑料制品的质量。

6、完善的保护功能：具有过压、过流、欠压、过热、短路等保护功能，确保安全可靠。

conquering the world does absolutely not rely on luck. wolf king always has full confidence in the actions to be implemented!

repm bldcm can be applied in a number of fields. only 3 examples are briefly introduced.

for pumping units in oil fields---remp bldcm

1. high-efficient: the efficiency of bldcm for oil field is 94%-96.2%.

2. energy-saving: bldcm specialized for oil fields are proved to save 20% of active electric power by the test which is actually operated in liaohe oil field; the power factor is 0.997.

3. large overload multiple: because of different conditions of oil wells, in the operating process, the pumping unit encounters great well stress or well block. however, by 4 times of overload torque, the pumping unit can be successfully raised.

repm bldcm and controller for electric bus of large size

1. great power: the maximum power of bs-3 bldcm which matches the complete set of buses is 270kw; it can supply the matching units to the luxurious electric bus of large size;

2. high-efficiency: the efficiency of 120kw is up to 97.2%;

3. low noise: in design and production technology, low noise design and special technology are adopted to avoid harmonic noise. in addition, the modulation frequency is designed to be 15k, which is basically close to supersonic frequency;

4. low noise; large torque of low speed; transmission without drive; security; lower cost;

5. good characteristics of low-voltage: bldcm can work as usual under 240vdc of voltage, with the same external characteristics of other motors under 320vdc of rated voltage, thus the utilization rate of batteries is increased, and the endurance mileage of electric vehicles is extended.

for plastic injection moulding machine and extractor

1. high efficiency the efficiency of this series of motors is 10～15% than that of frequency speed-governing drive y series of motors.

2. high power factor the reactive consumption is reduced 60-80% than y series of motors; its power factor is close to 1.

3. large startup torque with small rotor inertia and large startup torque of this motor, full speed can be reached in 0.8 second; it is suitable for the application of plastic injection moulding machine.

4. the low-frequency operating motor is not heated by frequent startup this motor can start and brake for ten times in

one minute. the motor is not heated after long-term operating for 100-3000rpm.

5. high-precision of speed governing with good characteristics of motor torque, the precision of speed governing is 1% without the effect of the change of network and load, thus the quality of extruded plastic products is improved.

6. complete protection such motors have protective functions of over-voltage, over-current, under voltage, overheat, short circuit, and so on; it is ensured to be safe and reliable.