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Wind Power Industry Hydraulic Slip Ring/Coupling

TENGXUAN
TECHNOLOGY

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江苏腾旋科技股份有限公司
TENGXUAN TECHNOLOGY CO., LTD.

Introduction

江苏腾旋科技股份有限公司（股票代码：430602）是研制、开发和生产动态密封、液压、传动及相关产品的高新技术企业，拥有无锡和郎溪两大生产基地。其中无锡工厂为国家级专精特新“小巨人”企业，郎溪工厂为安徽省专精特新小巨人企业。

公司下属的液压密封与传动工程中心是江苏省省级实验中心。公司长期致力于液压、密封和传动技术的研究，拥有有效授权专利149件（其中：发明20件、实用新型88件、外观41件），待授权各类专利申请13件（其中：发明7件、国防专利2件、实用新型4件）。

公司拥有加工中心、数控车床、高精度磨床及其它专用设备400余台套，液压、密封和传动试验台30余台，具备各类高、低速联轴器的生产及实验能力。其中生产的柱销型、叠片型、膜盘型联轴器已经广泛应用于军工、风电、化工、工程机械等领域。

Tengxuan Technology Co., LTD. (Stock code: 430602) is a High-Tech enterprise engaged in the research, development and production of dynamic sealing, hydraulics, transmissions and related products, it has two production bases in Wuxi and Langxi. The Wuxi plant is obtained the State specialized small giant enterprises and Langxi branch factory is obtained the State specialized small giant enterprises of Anhui Province.

The Hydraulic seal and transmission Engineering center of the company is the provincial experimental center of Jiangsu Province. Tengxuan company has been committed to the research of hydraulic, sealing and transmission technology for a long time. It has 149 valid authorized patents (including 20 inventions, 88 utility models and 41 appearance) and 13 applications for various types of patents (including 7 inventions, 2 national defense patents and 4 utility models) to be authorized.

Tengxuan company has more than 400 sets of processing centers, CNC lathes, high-precision grinders and other professional equipment, and more than 30 hydraulic, sealing and transmission test benches. It has the production and experimental capacity of all kinds of high and low speed couplings. The production of pin type, flexible disc type and diaphragm type couplings have been widely used in military, wind power, chemical industry, construction machinery and other fields.



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精心设计、精工制造
国际品质、国内价格
完善的技术支持
快捷的售后服务
提供维护保养培训
提供低成本配件及维修服务
提供现场指导安装、调试服务

*Design and manufacturing capabilities
In-house and field technical support
Maintenance training
Installation guidance and trouble shooting*

风电行业液压滑环

Wind Power Coupling Hydraulic Slip Ring

ML系列旋转接头属于间隙密封结构，有自支撑与轴承支撑两种结构形式。主密封部件也有浮动式和固定式两种结构形式。外部连接以法兰安装为主，该系列产品由于结构本身具有微量间隙，因此对于介质的清洁度要求较高，对于具有保压需求的液压系统应慎用。需要定期的维护保养确保产品在设备中的使用。

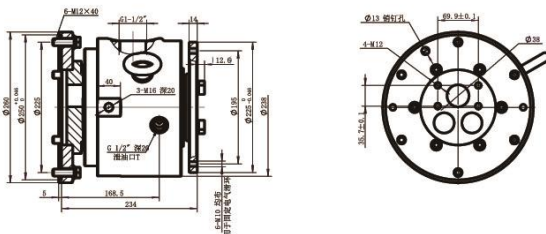
ML series rotary union uses the clearance seal, which has self-support and bearing support. It also has stationary sealing and float sealing as option, outside is connected by flange. Due to the clearance seal, this series has gap which needs high requirements for media cleanliness. We don't recommend this series of rotary union when it applies to the hydraulic system which needs pressure maintaining. This series of rotary union has the demands of regular maintenance.

ML01R040F——轴承支撑 Bearing support



技术参数 Operating Data			
通径 Size	40	通道数 Number of channels	1
转速范围 Rotating speed	0—100rpm	适用介质 Media	齿轮油/液压油 Gear Oil / Hydraulic oil
温度范围 Temperature Range	-40—60℃	额定压力 Rated Pressure	100bar
电缆通道数 Number of cable channels	1-3		
防腐等级 Anticorrosion grade	(EN ISO 12944-2) C3(H)		

独立通道设计
法兰连接
多电缆通道
导电滑环连接
用于齿轮箱润滑系统
Independent Passage design
Flange Connection
Multi-Passage For Cable
Electric Slip Ring Connection
Used for gear box lubrication system



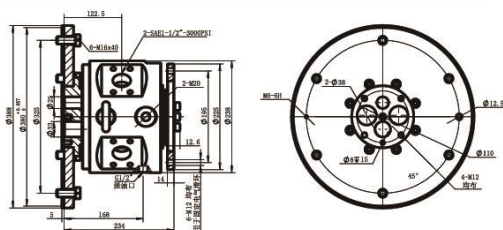
ML02R038F-A18——轴承支撑 Bearing support

技术参数 Operating Data			
通径 Size	40	通道数 Number of channels	2
转速范围 Rotating speed	0—100rpm	适用介质 Media	齿轮油/液压油 Gear Oil / Hydraulic oil
温度范围 Temperature Range	-40—60℃	额定压力 Rated Pressure	100bar
电缆通道数 Number of cable channels	2		
防腐等级 Anticorrosion grade	(EN ISO 12944-2) C4 (H)		



2通道设计
法兰连接
多电缆通道
导电滑环连接
用于齿轮箱润滑系统

Two Passages Design
Flange Connection
Multi-Passage For Cable
Electric Slip Ring Connection
Used for gear box lubrication system

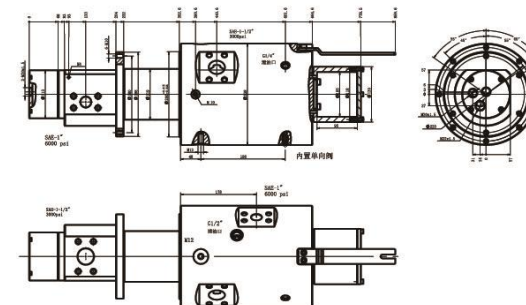


ML03R038F-A14——轴承支撑 Bearing support



技术参数 Operating Data			
通径 Size	15—40	通道数 Number of channels	3
转速范围 Rotating speed	0—100rpm	适用介质 Media	液压油 Hydraulic oil
温度范围 Temperature Range	-40—60℃	额定压力 Rated Pressure	0—315bar
电缆通道数 Number of cable channels	2		
防腐等级 Anticorrosion grade	(EN ISO 12944-2) C5		

3通道设计
高低压同时工作
法兰连接
多电缆通道
导电滑环连接
用于液压变桨系统
Three Passages Design
High and low pressure working simultaneously
Parallel Passage for Media
Multi-Passage For Cable
Electric Slip Ring Connection
Used for hydraulic variable pitch system



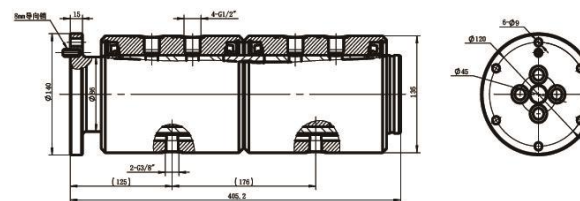
ML04R015F型——自支撑 Self-support

技术参数 Operating Data			
通径 Size	15	通道数 Number of channels	4
转速范围 Rotating speed	0—100rpm	适用介质 Media	液压油 Hydraulic oil
温度范围 Temperature Range	-40—80℃	额定压力 Rated Pressure	200bar
防腐等级 Anticorrosion grade	(EN ISO 12944-2) C3		



4通道设计
法兰连接
并行介质通道
中心电缆通道
导电滑环连接
用于液压变桨系统

Four Passages Design
Flange Connection
Parallel Passage for Media
Centre Passage for Cable
Electric Slip Ring Connection
Used for hydraulic Variable pitch system



半直驱机组的联轴器一般为弹性柱销联轴器，主要有制动盘、非金属弹性模块、胀套、和力矩限制器等部分组成。

The coupling of semi-direct drive unit is usually elastic pin coupling. It is mainly composed of brake disk, non-metallic elastic module, locking assemblies, torque limiter and other components.



半直驱联轴器

Coupling of semi-direct drive unit

技术特点:
Features:

- 结构紧凑，半直驱联轴器可以做的比较短；
- 传扭能力强，适用于低速大扭矩的机型；
- 抗大荷载短时冲击能力强，内嵌式力矩限制器能通过打滑降低大扭矩的短时冲击；
- 具备一定的绝缘性能，一般 > 5MΩ；
- 具备一定的吸收误差的能力；

Compact Structure, semi direct drive coupling can be made shorter;

Strong torsional ability, suitable for low speed and high torque applications;

Suitable for shaft connection with small torque, the built-in torque limiter can reduce the short impact of high torque through slipping;

Electrical insulation, > 5MΩ;

Elastic action can compensate for radial, angular and axial deviations;

技术参数 Operating Data										
型号	扭矩/kNm		误差			额定转速/rpm	绝缘等级	抗腐蚀等级	接口尺寸/mm	制动盘外径/mm
	机组额定扭矩	额定打滑扭矩	角偏差/°	径向位移/mm	轴向位移/mm					
LQ230XZMY	144	230	±0.2	±0.1	±0.6	254	<DC1000V/20MΩ	C4 (H)	260	1043

双馈机组的联轴器一般为膜片联轴器，也有部分是连杆式和膜盘式。主要有制动盘、膜片、胀套、玻纤管和力矩限制器等部件组成。

The coupling of doubly-fed unit is usually diaphragm coupling and some of them are connecting rod type and diaphragm type. The mainly composed of brake disk, diaphragm, locking assemblies, glass fiber tube and torque limiter.



双馈联轴器

Coupling of doubly-fed unit

技术特点:
Features:

- 容错能力强，能吸收较大的轴向、径向和角向位移；
- 绝缘性高，一般 > 100MΩ，能有效降低齿轮箱的电腐蚀；
- 抗大荷载短时冲击能力强，内嵌式力矩限制器能通过打滑降低大扭矩的短时冲击；
- 重量较轻，适用于高速机型。

Strong fault tolerance and able to absorb large axial, radial and angular misalignment;

Have excellent electrical insulation, generally > 100MΩ, it can be effectively reduce the electrical corrosion of gear box;

Strong ability to withstand short-term impact of large loads, the built-in torque limiter can reduce the short impact of high torque through slipping;

Light weight, suitable for high-speed applications.

技术参数 Operating Data

型号	扭矩/kNm		误差			额定转速/rpm	绝缘等级	抗腐蚀等级	接口尺寸/mm		制动盘外径/mm	
	机组额定扭矩	额定打滑扭矩	角偏差/°	径向位移/mm	轴向位移/mm				齿轮箱侧	发电机侧		
LQ047XZMY	31	47	±1.5	±8	±10	1750	<DC1000V/1000MΩ	C4 (H)	160	170	880	
LQ042XZMY	28.61	42							160	170	880	
LQ043XZMY	28.61	42							160	170	1000	
LQ058XZMY	36.82	58							160	180	880	
LQ133XZMY	79.2	133							1150	210	210	1190
LQ051XZSY	34.5	51							14.2	±8	1750	180