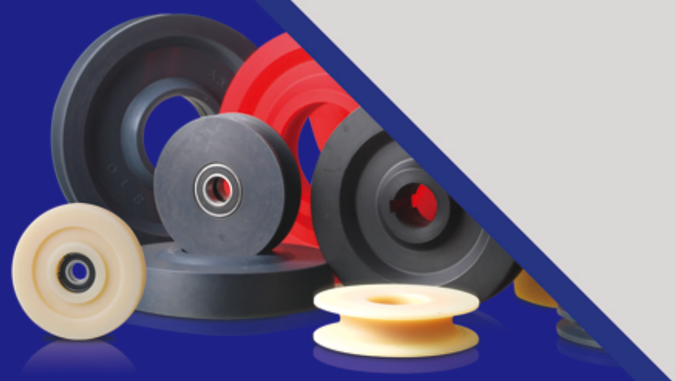
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专业配套于：

- 工程机械行业
- 塔机升降机行业
- 高空作业机械行业
- 电梯、电力行业
- 欧式电动葫芦行业
- 农业机械行业
- 智能物流行业

MC尼龙滑轮、滑块



手机：13930994529
13633298044

邢台欧力晟机械配件制造有限公司
Xingtai Ouli sheng machinery Parts Manufacturing Co., LTD

邢台欧力晟机械配件制造有限公司
Xingtai Ouli sheng machinery Parts Manufacturing Co., LTD

公司简介
COMPANY PROFILE

邢台欧力晟机械配件有限公司（欧晟尼龙）创建于1985 年，本公司成立发展 20 多年，专业科研“以塑代钢”新型材料：特种 MC 尼龙。二十多年来，欧晟尼龙已发展成为集专业研发、生产，销售为一体的综合性企业。

公司位于河北邢台任县工业区，占地面积 1 万平方米，员工 80 多人，年生产尼龙制品 50 多万件，在生产规模技术研发等方面一直处于国内同行业领先地位！

汇集多方优势资源，凭借雄厚经济实力，不断引进先进的生产设备拥有普通机床 60 台，数控机床 20 台，率先引进先进的 MC 尼龙生产流水线，实现机电一体化控制，使生产规模大幅度提升、质量更有保障。

本公司秉承“诚信为本，合作共赢”的经营理念，依靠卓越的产品质量和优秀的营销团队，赢得了国内外广大客户的认可和信赖，与知名企业建立了稳定的战略合作伙伴关系。”传承卓越，共创未来”，将继续以客户要求为先导，以持续发展为动力，不断研究创新，工人将承继着荣耀与梦想，立足于雄厚的根基之上，一如既往地执著于打造卓越领先的品牌企业，做尼龙行业的领跑者而一路奋进。



Xingtai Olisheng Machinery Parts Co., LTD. (Olisheng Nylon) was founded in 1985, the company was established and developed for more than 20 years, professional research "plastic instead of steel" new material: special MC nylon. For more than 20 years, OLsen Nylon has developed into a comprehensive enterprise integrating professional research and development, production and sales.

The company is located in Hebei Xingtai Ren County industrial zone, covers an area of 10,000 square meters, more than 80 employees, the annual production of nylon products more than 500,000 pieces, in the production scale technology research and development has been in the domestic industry leading position!

Bring together many advantages of resources, with strong economic strength, and constantly introduce advanced production equipment with 60 sets of ordinary machine tools, 20 sets of CNC machine tools, the first to introduce advanced MC nylon production line, to achieve mechanical and electrical integration control, so that the production scale is greatly improved, quality is more guaranteed.

The company adhering to the "integrity-based, win-win cooperation" business philosophy, relying on excellent product quality and excellent marketing team, has won the recognition and trust of customers at home and abroad, and established a stable strategic partnership with well-known enterprises.

Inherit excellence, create the future ", will continue to take customer requirements as the guide, to sustainable development as the driving force, continuous research and innovation, workers will inherit the glory and dream, based on a strong foundation, as always, to build excellent leading brand enterprises, do the nylon industry leader and forge ahead all the way.

行业应用
INDUSTRY APPLICATION


汽车制造业
AUTOMOTIVE


飞机制造业
AVIATION


土木工程
CIVIL ENGINEERING


包装行业
PACKAGING


船舶行业
SHIP


建筑机械
CONSTRUCTION MACHINERY


港口机械
PORT MACHINERY


再生能源业
RENEWABLES


轨道交通
RAIL

MC尼龙物理、机械性能
Mc Nylon Physlcal,Mechanlcal Propertles

表1：MC尼龙物理、机械性能
Table 1: Physical and mechanical properties of MC nylon

类别 Category	性能 Property	单位 (条件) Unit (Conditions)	数值 Count Value
物理性能 Physical Properties	比重Property	g/m3	1.15-1.16
	吸水率Water Absorption	%	0.7-1.3
热性能 Thermal Performance	马丁耐热Martin Heatproof	℃	67-74
	连续耐热Continuous Heat	℃	120
	耐寒温度Cold Temperature	℃	-40
	热变形温度Heat Distortion Temperature	℃ (1.82mpa)	150-190
	导热系数Thermal Conductivity	千卡/米小时℃kcal/m hours℃	0.28-0.29
	线膨胀系数Linear Expansion Coefficient	10-5	4-7
	燃烧性Flannability		自熄From Extinguish
机械性能 Mechanical Property	抗拉强度 (Tensile strength	Mpa	74-108
	抗拉弹性模量tensile modulus of elasticity	GPA	3-3.4
	抗压强度compressive strength	Mpa	100-138
	抗弯强度compressive strength	Mpa	140-170
	冲击强度 impact strength	KJ/m2	8.8-12.8
	伸长率elongation	%	10-30
	硬度hardness	R-标准standard	110-120
电性能 Electrical Property	体积电阻volume resistance	Ωm	$6x10^{12}$
	表面电阻surface resistance	Ω	9.7x1014
	介电常数permittivity	10^6HZ	2.5-3.6
	介电损耗dielectric loss	10^6HZ	0.015-0.020
	击穿电压breakdown voltage	MV/m	15

表2：MC尼龙与金属材料性能比较
Table 2: Comparison of properties of MC nylon and metal materials

性能Property	单位Unit	铸钢cast steel	黄铜 brass	青铜bronze	灰口钢 Grey iron	MC尼龙MC nylon
溶点melting point	℃	1425	950	995	1200	225
密度density	g/cm3	7.8	8.4	8.8	7	1.15-1.16
导热系数heat conductivity coefficient	千卡/米小时℃kcal/m hours℃		80	55	40-80	0.28-0.29
线膨胀系数coefficient of linear expansion	10^{-5}/℃	11.3-13	18.8	17.9	8.5-11.6	40-70
硬度hardness	HB	131-229	70-120	60-110	143-269	21-35
弹性模量elasticity modulus	10^6kg/cm2	1.75	0.91-0.99	1.05	1.15	0.04
摩擦系数friction coefficient		0.12		0.2	0.18	0.09-0.112
拉伸强度 tensile strength	kg/mm2	45-65	30	18-25	10-35	7.5-11

表3：MC尼龙的抗张特性
Table 3: Tensile properties of MC nylon

性质Properties	单位Unit	温度Temperature 0℃	23℃	100℃
2%伸张率时应用2%elongation when applied	kg/cm2	520	450	150
5%伸张率时应用5%elongation when applied	kg/cm2	980	870	280
10%伸张率时应用10%elongation when applied	kg/cm2			380
20%伸张率时应用20%elongation when applied	kg/cm2			470
屈服点的压力The yield point stress	kg/cm2	1000	870	500
伸长率elongation	%	6.5	5	30
断裂点的压力Breaking point pressure	kg/cm2	999	880	500
伸长率elongation	%	8	15	50

表4：MC尼龙的压缩性质
Table 4: Compression properties of MC nylon

性质Properties	单位Unit	数值 numerical value
1%压缩变形应力1%Compression deformation stress	kg/cm2	250
2%压缩变形应力2%Compression deformation stress	kg/cm2	470
4%压缩变形应力4%Compression deformation stress	kg/cm2	870
屈服点的压力The yield point stress	kg/cm2	1040
压缩变形率Compression ratio	%	6

MC尼龙物理、机械性能
Mc Nylon Physlcal,Mechanlcal Propertles

表5：tdber磨损试验
Table 5:tdber wear test

试料 Test Materials	磨损量 Wearing Capacity		
Mc尼龙Mc nylon	0.5-0.8	备注	notes
尼龙66 nylon66	1.6	试验条件	test condition
布基酚醛树脂制品burkina phenolic resin products	6.7	温度20±℃ 温度65±5℃	Tenperature of 20±℃,hunidity65±5℃
石棉酚醛塑料制品Asbestos bakelite products	10.5	磨轮CS-17，荷重1000克	wheel cs-17,load 1000g
聚缩醛polyacetal	3.2	回转数3000次	Rotational speed 3000times
高密度聚己烯High density polyethylene	2.5	磨损量是以MC尼龙的磨损重量	MCnylon wear volume is based on the wear
硬质聚亚胺脂橡胶Rigid polyurethane rubber	2.0	为1的磨损体积比	weight of a volume ratio of wear
铜copper	8.3		
钢 (ss14) steel (ss14)	8.8		

表6：mc尼龙在添加填料情况下的摩擦系数比较
Table 6: Comparison of friction coefficient of mq nylon with filler

Mc尼龙材料Mc nylon materials	润滑情况Lubrication condition	摩擦系数U friction coefficient U
未加填料Filler not added	无油润滑oil-free lubrication	0.112
未加填料Filler not added	机油润滑oil lubrication	0.07-0.10
加1%碳墨Plus 1% carbon ink	机油润滑oil lubrication	0.05-0.07

说明：试验温度58℃，负荷50kg/cm^2,转速190转/分钟，试验时间15分钟。

表7：mc尼龙在不同润滑条件下的磨损系数
Table 7: Wear coefficient of mq nylon under different lubrication conditions

润滑条件Lubrication condition	磨擦方式Friction Way 静磨擦系数uostatic Friction coefficient uo	动磨擦系数V Dynamic Friction coefficient of V
循环油润滑Circulating oil lubrication	0.002-0.2	
矿物油润滑Mineral oil lubrication	0.1	0.08
黄干油润滑Huang dry oil lubrication	0.15-0.20	
无油润滑 (干摩擦) Non-lubricated (dry friction)	0.3-0.4	0.15-0.30
水润滑Water lubrication	0.23	0.19
5%二硫化钼填充料5% molybdenum disulfide filler	0.07-0.15	0.06-0.1

表8：多种材料的摩擦系数和PV值
Table 8: Friction coefficients and PV values of various materials

材料Materiais	许用应力P(MPa) Allowable stress P(MPa)	许用速度V(m/s) Permissible(m/s)	PV极限值 PVLimits	摩擦系数Friction Coefficient 无润滑Without Lubrication	润滑Lubrication
轴承合金Bearing Alloy	20	50	10	0.28	0.005
鲁铜CNC-565 Lu copper CNC-565	5	3	10	0.15	0.0093
青铜BPOΨ0.6-0.5Bronze BPOΨ0.6-0.5	10	3	15	0.12	0.01
MC尼龙 MC Nylon	10	3	10	0.156	0.0185
MC尼龙+3% 石墨MC Nylon+3%graphite	8	10	15	0.025	0.008
MC尼龙+5% 石墨MC Nylon+5%graphite	10	4	12	0.08	0.015
夹布胶木 Fabric Bakelite	6	3.5	8	0.16	0.02

高空作业平台 滚轮系列
AERIAL WORK PLATFORM ROLLER SERIES

MC尼龙

MC尼龙是一种高强度的浇铸尼龙，内含二硫化钼(MoS2)超微粉末提高其润滑性。其非凡的强度支承轴承的负荷大大高于其他工程热塑塑胶。由于它的内在弹性，非极性和极快的工作应力释放能力，不会产生永久的变形。MC尼龙耐磨，不但减少设备的总重，而且保护相配合的金属表面。

MC nylon

MC nylon is a high strength cast nylon containing molybdenum disulfide (MoS2) superfine powder to improve its lubricity. Its extraordinary strength supports bearing loads significantly higher than other engineering thermoplastics. Due to its inherent elasticity, non-polarity and extremely fast working stress release ability, no permanent deformation will occur. MC nylon wear-resistant, not only reduces the total weight of the equipment, but also protects the matching metal surface.

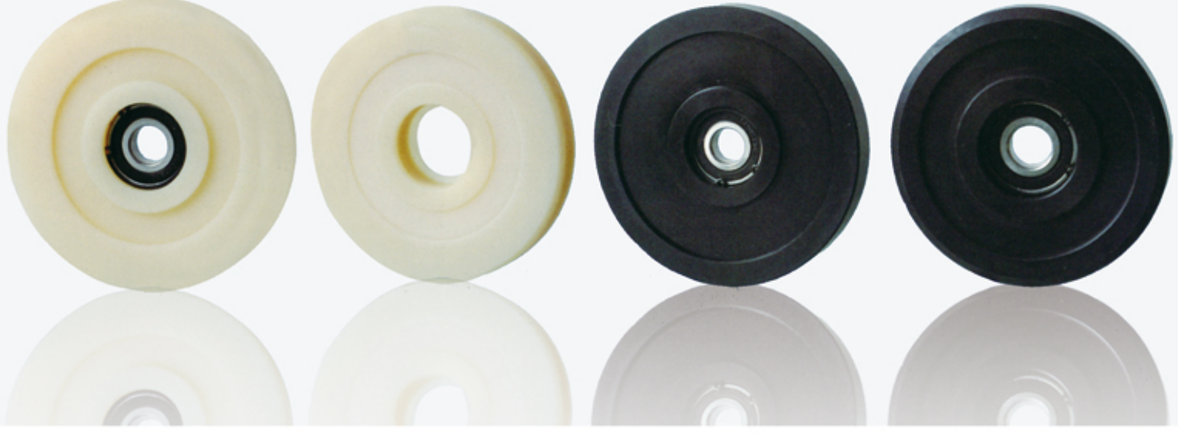
剪叉式升降平台 超高分子滑块系列
SHEAR FORK LIFT PLATFORM ULTRA HIGH MOLECULAR SLIDER SERIES

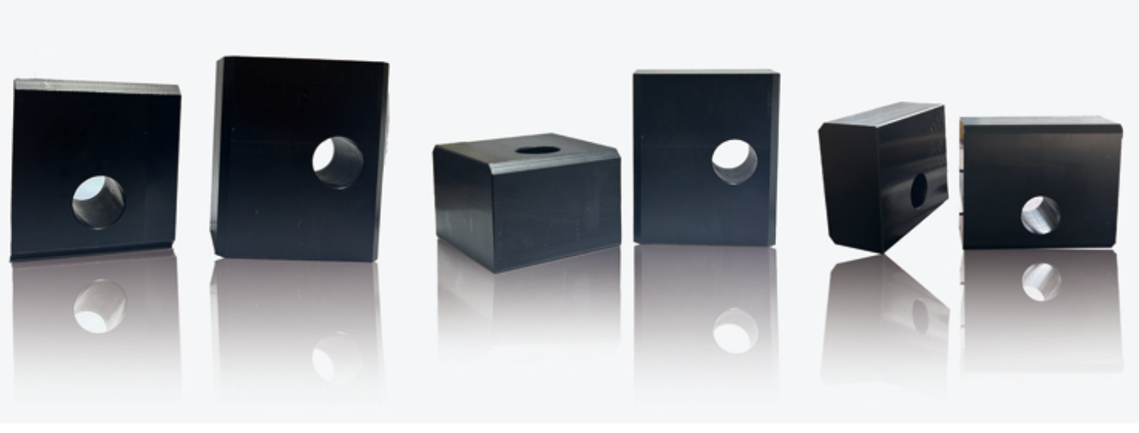
超高分子量聚乙烯(UHMPWE)的应用，分子量最高可达920万，用于解决许多工业领域的摩擦、磨损和滑动问题。该材料因其卓越的滑动性能、极耐磨、高冲击强度和耐化学性而与众不同，在许多高技术含量以及高要求的应用中占据重要位置。

使用该材料可以满足如机械伸缩臂等机械滑动中高耐磨和高静音的工况要求。

Ultra-high molecular weight polyethylene (UHMPWE) applications, up to 9.2 million molecular weight, are used to solve friction, wear and slip problems in many industrial areas. The material is distinguished by its excellent sliding properties, extreme wear resistance, high impact strength and chemical resistance, and occupies an important position in many high-technology and demanding applications.

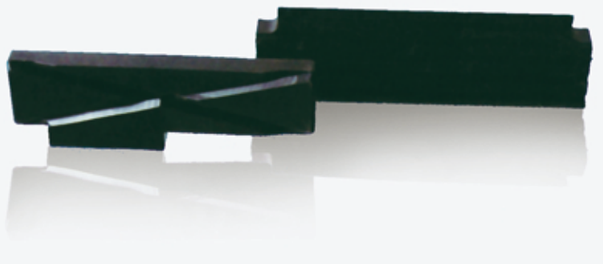
The use of the material can meet the requirements of high wear resistance and high silence in mechanical sliding, such as mechanical telescopic arm.











欧式葫芦起重系列
EUROPEAN HOIST LIFTING SERIES

MC尼龙滑轮的自润滑油和比金属软的特性：

滑轮在与钢索接触时有一定程度的变形，加大了滑轮和钢索的接触面，使最大接触压力下降由于滑轮的变形，相应减少了钢索的变形扭曲和钢丝之间的摩擦，从而全面的保护钢索，延长钢索的寿命。在雨中和湿气大的环境中不生锈，不会因生锈损伤钢索给以在沟槽中的钢索最初润滑就达到最佳使用效果。

MC nylon pulley self lubricating and softer than metal characteristics：

When the pulley is in contact with the cable, there is a certain degree of deformation, which increases the contact surface of the pulley and the cable, and reduces the maximum contact pressure. Due to the deformation of the pulley, the deformation and distortion of the cable and the friction between the steel wire are correspondingly reduced, so as to comprehensively protect the cable and extend the life of the cable. There is no rust in the rain and humidity environment, and the steel cable will not be damaged by rust. The initial lubrication of the steel cable in the trench will achieve the best use effect.

3T

5T

10T

16T



20T



支持定制



电梯电力系列
ELEVATOR POWER SERIES

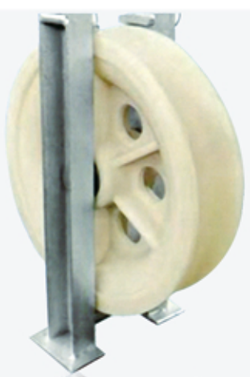
为了保证电梯轮使用的安全，我们的工程师从设计，到实际的耐压实验和老化实验，
都经过了严密的计算和实践以保证客户能够用到优质的产品。

1、成本低廉、抗老化性能好
2、质量轻，转动惯量小，装配方便
3、噪声低，减震性能好
4、耐蠕变，有极好的回弹性
5、耐磨，使用寿命长
6、采用高分子结构尼龙材料高速离心浇铸成型内部组织细密，结构均匀，动平衡好，品质易控制。

In order to ensure the safety of the elevator wheel, our engineers from the design, to the actual pressure test and aging test, have gone through strict calculation and practice to ensure that customers can use high-quality products.

1, low cost, good anti-aging performance
2, light weight, small moment of inertia, easy assembly
3, low noise, good shock absorption performance
4, creep resistance, excellent resilience
5, wear-resistant, long service life
6, the use of polymer structure nylon material high-speed centrifugal casting molding internal organization fine, uniform structure, dynamic balance, easy to control quality.









工程机械汽车吊系列
CONSTRUCTION MACHINERY TRUCK CRANE SERIES

尼龙滑轮特点

1、机械强度高，适用于大型机械
2、耐磨耗、自润滑性能好、MC尼龙滑轮的耐磨寿命比钢、铁滑轮高4-5倍
3、适应温度范围宽，可在些-40℃-100℃范围内使用
4、能减震、不产生噪音、运转平稳
5、不损害对偶材料，制作起重机滑轮、钢丝绳的耐寿命可延长10倍；
6、具有自熄性，使用安全
7、质轻、密度为钢的1/7，铜的1/2.5，耐腐蚀，不沾水，不生锈；
8、机械加工性能好，形态稳定性高。

徐工吊车
8T、新 8T、12T、16D、16K25K30K、20B 20G、25A、25E、16K 25K 30K、20B 20G、35K 50K、40K 50KII、60K 70K、XCT8T 12T xct16T 20T、XCT25T、XCT55T、XCT70T

Nylon pulley features

1, high mechanical strength, suitable for large machinery
2, wear resistance, self-lubrication performance is good, MC nylon pulley wear life is 4-5 times higher than steel, iron pulley
3, adapt to a wide temperature range, can be used in the range of -40℃-100℃
4, can absorb shock, no noise, smooth operation
5, do not damage the pair material, the production of crane pulley, steel wire rope life can be extended by 10 times;
6, with self-extinguishing, safe to use
7, light weight, density of steel 1/7, copper 1/2.5, corrosion resistance, no water, no rust;
8, good machining performance, high morphological stability.

工程机械随车吊系列
CONSTRUCTION MACHINERY CRANE SERIES

MC尼龙应用

MC尼龙制品作为工程塑料之一，”以塑代钢、性能卓越”用途极其广泛，它具有重量轻、强度高、自润滑、耐磨、防腐，绝缘筹多种独特性能。其摩擦系数比钢低8.8倍，比铜低8.3倍，而比重仅为钢的七分之一。MC尼龙可直接取代原铜不锈钢、铝合金等金属制品，多年来我公司生产的MC尼龙滑轮、滑块、拖轮、齿轮等，不仅较好地取代了相应的金属品而且使用户降低成本，延长整机及零件的使用寿命，经济效益显著提高MC尼龙材料以其强度高、钢度大、韧性好、低蠕变、耐磨耗及化学稳定性而著称，MC尼龙除具有普通尼龙材料特点外，由于其分子量大、结构度高，物理机械性能十分优异，其机械强度比一般尼龙高3倍，超过正常工程塑料。

中联吊车
12T、老 16T、新 16T、老 20T、新 20T、新 25T、新 30T、50T、60T、35T、ZTC 20T、ZTC 25T、ZTC 50T、ZTC 70T
三一吊车
20H、20T、25T、50T、75T
雷萨吊车
25T、25T、50T
柳工吊车
8T、10T、12T、16T、20T、25T、新 25T

MC Nylon Application

MC nylon products as one of the engineering plastics, "plastic instead of steel, excellent performance" is extremely widely used, it has light weight, high strength, self-lubrication, wear-resistant, anti-corrosion, insulation and a variety of unique properties. Its friction coefficient is 8.8 times lower than steel, 8.3 times lower than copper, and its specific gravity is only one-seventh that of steel. MC nylon can directly replace the original copper stainless steel, aluminum alloy and other metal products, over the years my company produced MC nylon pulley, slider, tug, gear, etc., not only better replace the corresponding metal products and users to reduce costs, extend the service life of the machine and parts, MC nylon material is known for its high strength, large steel, good toughness, low creep, abrasion resistance and chemical stability, MC nylon in addition to the characteristics of ordinary nylon materials, due to its large molecular weight, high structure, physical and mechanical properties are very excellent, its mechanical strength is 3 times higher than ordinary nylon, more than normal engineering plastics.





建筑机械塔机系列
CONSTRUCTION MACHINERY TOWER CRANE SERIES

建筑机械升降机系列
CONSTRUCTION MACHINERY LIFT SERIES

尼龙滑轮使用优点：

1 重量轻，方便在高空安装
2 耐磨性好，使用寿命长
3 保护钢丝绳，延长钢丝绳使用寿命
（和钢滑轮比可延长钢丝绳使用寿命8倍）
4 不产生摩擦火花，安全性能强
5 能满足长期露天作业的要求

尼龙滑轮主营
中联塔机、徐工塔机、 三一塔机、大汉塔机、 浙江建机、广西建机 等各大塔机厂

Nylon pulley use advantages:

1 Light weight, easy to install at high altitude
2 Good wear resistance, long service life
3 Protect the wire rope and extend the service life of the wire rope
(Compared with steel pulley, the service life of the wire rope can be extended by 8 times)
4 No friction spark, strong safety performance
5 Can meet the requirements of long-term open-air operation

标准滑轮

MC尼龙标准滑轮的外径从160~1260mm。它们从半成品，可以按照客户的要求加工为具体的尺寸。不但尺寸适应性强，同时成本低，可以小批量发货、充分满足OEM的需要。外径大于1260mm的少量滑轮可以通过铸型圆盘机加工获得。

定做滑轮

可以按照客户要求定做特殊的MC尼龙滑轮。仅需提供滑轮的图纸或关键尺寸，包括钢缆的直径，滑轮外径，槽径，毂宽和凸缘宽度。还需提供轴承的型号，以便确定适当的中心孔压配尺寸。

Standard pulley

C Nylon standard pulley outer diameter from 160 to 1260mm. They are from semi-finished products and can be machined to specific sizes according to customer requirements. Not only size adaptability, while low cost, can be shipped in small batches, fully meet the needs of OEM. A small number of pulleys with an outer diameter greater than 1260mm can be obtained by machining the cast disc.

Custom pulley

Special MC nylon pulley can be customized according to customer requirements. Provide only drawings or key dimensions of the pulley, including cable diameter, pulley outside diameter, groove diameter, hub width and flange width. It is also necessary to provide the bearing model number in order to determine the appropriate center hole pressure fitting size.



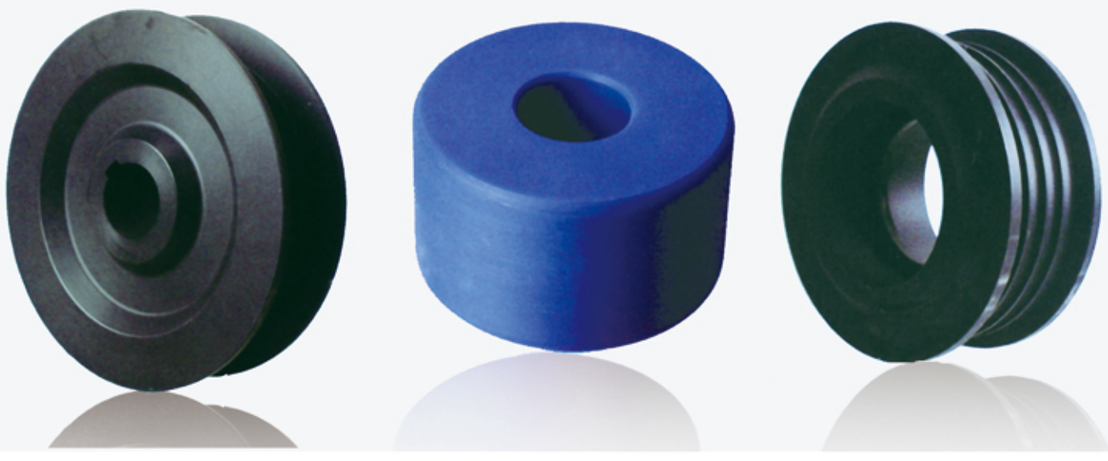


智能仓储、猴车衬套系列

INTELLIGENT STORAGE, MONKEY CAR BUSHING SERIES

单体浇铸尼龙又称MC尼龙。它采用碱催化聚合法使已内酰胺或其它内酰胺单体直接在模具内聚合并凝固成型。它是采用阴离子聚合反应技术，将加有催化剂的溶融已内酰胺单体在常压下浇注在各种形状模其中进行反应而形成的铸件制品。MC尼龙的分子量高达7-10万，为一般尼龙6、尼龙66的3倍，因而其综合机械性能远比其他的尼龙材料好得多，以MC尼龙为基材，在反应过程中添加名类改性剂，例如复合油润滑剂、二硫化钼、石墨、玻璃纤维、碳纤维、纳米矿粉等，使之更加耐磨、耐腐蚀、耐老化、白润滑、吸振、吸噪音;同时由于工艺和工模结构简单，制造成本相对低廉，成为替代铜、不锈钢、铝合金、聚四氟乙烯等的理想材料。

Monomer casting nylon is also known as MC nylon. Caprolactam or other lactam monomers are polymerized and solidified directly in the mold by alkali catalytic polymerization. It is a casting product formed by using anionic polymerization reaction technology, and the dissolved caprolactam monomer with catalyst is poured in various shapes under normal pressure for reaction. MC nylon molecular weight up to 7-100,000, 3 times the general nylon 6, nylon 66, so its comprehensive mechanical properties are much better than other nylon materials, MC nylon as the base material, in the reaction process to add a name modifier, such as composite oil lubricant, molybdenum disulfide, graphite, glass fiber, carbon fiber, nano mineral powder, etc. Make it more wear resistant, corrosion resistant, aging resistant, white lubrication, vibration absorption, noise absorption; At the same time, due to the simple process and mold structure, the manufacturing cost is relatively low, and it has become an ideal material to replace copper, stainless steel, aluminum alloy, polytetrafluoroethylene and so on.





农业机械系列

AGRICULTURAL MACHINERY SERIES

采用工程型料代替金属，作为履带链轨的导向轮与承重轮，在保证承裁的同时，大大降低自重，减少履带进行时的噪音和抖动，提高驾驶员的舒适度，显著廷长照警整化使用寿命。

Using engineering materials instead of metal, as the guide wheel and bearing wheel of the track chain rail, while ensuring the cutting, greatly reduce the weight, reduce the noise and shake of the track, improve the comfort of the driver, and significantly lengthen the service life.



