



淮安市华富特种铸型尼龙有限公司

HUAIAN HUA FU SPECIAL CASTING NYLON CO., LTD

主营MC尼龙产品
Monomer Cast Nylon Products

- ★ 滑轮/Pulley
- ★ 齿轮/Gear
- ★ 滑块/Block
- ★ 轴套/Sleeve
- ★ 滚轮/Wheel
- ★ 托辊/Roller
- ★ 导绳器/Rope Guides

各类非标尼龙定制件
All shape of nylon parts

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公司简介

淮安市华富特种铸型尼龙有限公司是一家专业从事以塑代钢新材料 - “特种铸型尼龙” (TMC) 尼龙滑轮、尼龙滑块、尼龙导绳器、尼龙齿轮、各类非标尼龙制品定做的有限责任公司。公司位于江苏省淮安市淮安经济开发区，占地面积8000平方米，注册资金1000万，年生产各类尼龙制品100余万件，销售额6000余万元，随着国家基础建设和社会经济的发展公司每年销售量始终保持两位数以上增长，并已与国内多家知名主机厂家达成战略合作关系，配套主机厂家主要有沈阳三洋、爱登堡电梯、大汉科技、卫华集团等。公司现雇有各类管理生产技术类员工110余人，公司具有雄厚的经济实力，良好的科学管理水平。精湛的技术员工队伍。高效精良的生产设备，庞大的销售服务网络。近年来，先后一直承担着我国工程机械、建筑起重机械等行业 (TMC) 不锈钢链条滚子、齿轮、涡轮、滑轮、滑块、托轮、支承轮等百余种近千个系列配套件定点生产任务，是我国特种铸型尼龙 (TMC) 产业重点企业之一，受到社会各界的广泛关注，产品品质受到广大客户高度认可和一致好评！

展望未来，华富尼龙公司董事长马仁贵先生充满信心，相信在公司各位同仁的一同努力下、领导的正确引领下，公司销售业绩和客户数量也必将年年攀上新峰！

Company Profile

Huaian Huafu Special Casting Nylon Co.,ltd is specialized in producing various nylon parts including pulleys, Block, Gear, Roller, wheels, elevator pulley, Rope guide and etc.

During over ten years development, Huafu have developed into one of those top suppliers of nylon products with over one hundred workers including eighteen engineers and annual output value of ten million US dollars. Also Huafu have established long-term strategic partner relationship with many domestic well-known machinery companies such as Zoomlion group, Sany group, Weihua group. The above mentioned companies enjoy good reputation both in domestic and abroad market in top heavy machinery industry. And together our nylon parts also are well recognized among these giant companies.

Huafu have been engaged in developing new ways of casting process and improvement of formula to meet customers' more strict demands. When it comes to complicated products, we are customer's first choice for our rich experience and efficient delivery. We also have enough stock of most general products in order to match customer's urgent project progress.

Market competition is fierce, which requires companies' more fast reaction, quick delivery, better service. We have been engaged in improving our management, quality of products, satisfaction of our customers and try to have more impact in global nylon product market. Together with all our customers to create a more prosperous, safe, colorful future. And we will also make Huafu a world well-known nylon parts supplier.



企业资质

Enterprise Qualification



营业执照/Business License



认证证书/Authentication Certificate



认证证书/Authentication Certificate

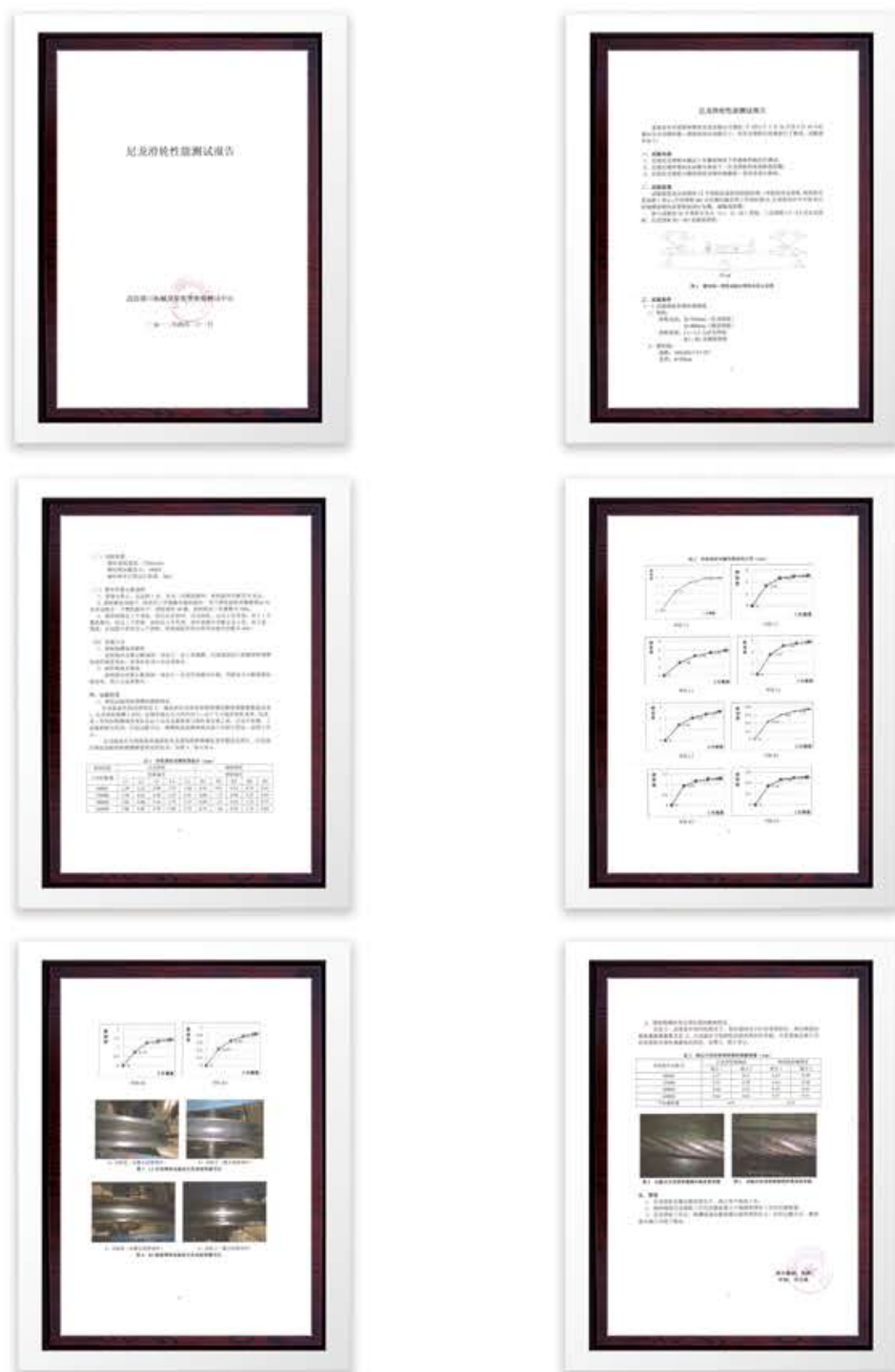


MC尼龙物理性能检测报告/Test Report of Mc Nylon





MC尼龙滑轮性能测试报告/Application Report of Mc Nylon Pulley



尼龙材质特点和应用

Characteristics and Applications of Nylon Materials



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和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，将加有催化剂的熔融已内酰胺单体在常压下浇注在各种形状模具中进行反应并形成铸件制品。

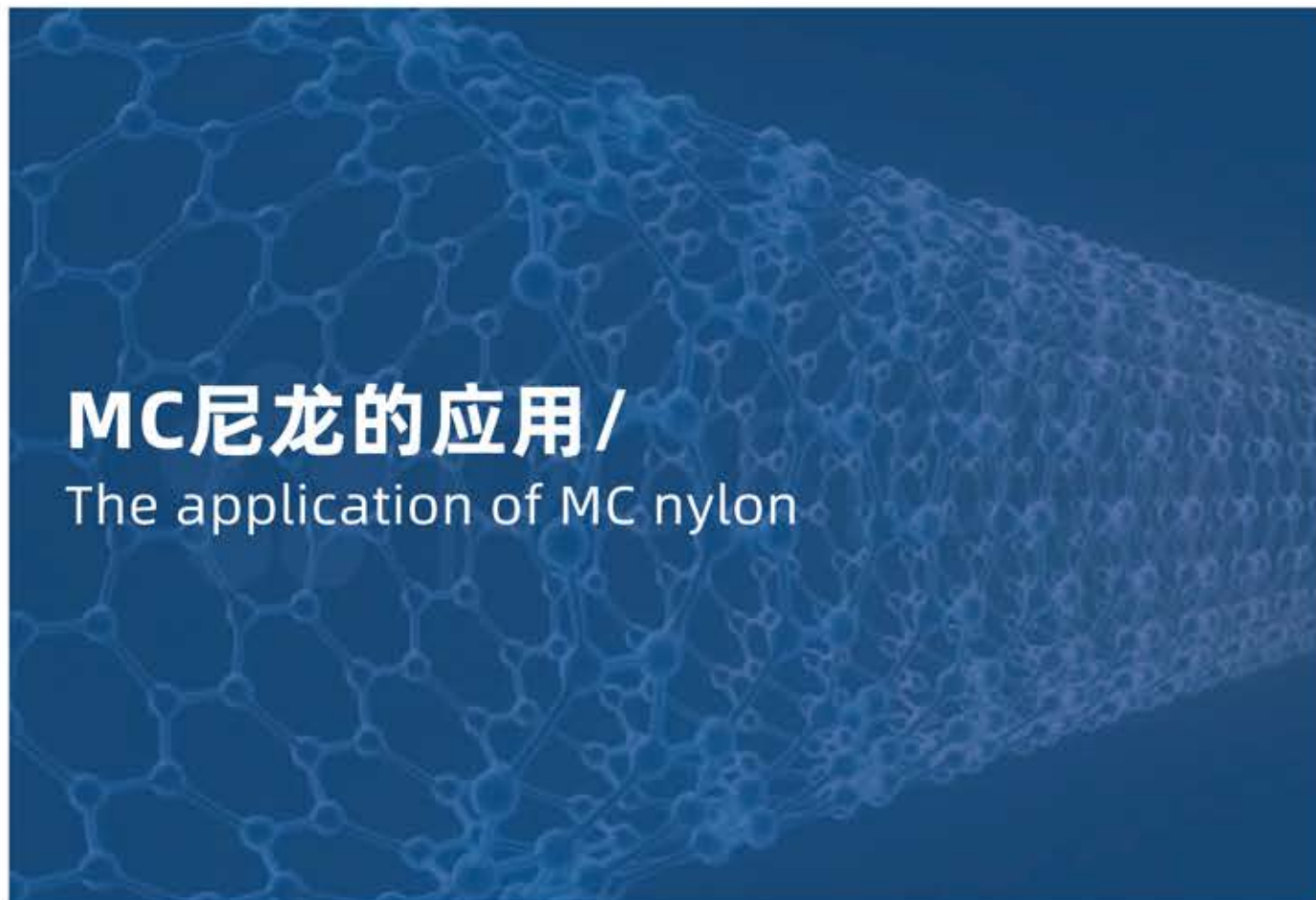
MC尼龙的分子量高达7-10万，为一般尼龙6、尼龙66的3倍。因而其综合机械性能远比其他的尼龙材料好很多，是国家发改委大力推广的重要节能材料之一。

多年来我们不断地坚持对MC尼龙的改性技术进行研究和开发，极大地拓宽了其应用领域。以MC尼龙为基材，在反应过程中添加各类改性剂，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、自润滑、抗振、吸音；同时，由于工艺和工模结构简单，制造成本相对低廉，MC尼龙制品成为替代铜、不锈钢、铝合金、聚四氟乙烯等的理想材料。

MC nylon, also known as monomer casting nylon, is produced through alkali catalytic polymerization where caprolactam and other lactam monomers are directly solidified in the mold. This process utilizes anionic polymerization reaction technology by adding a catalyst to melt caprolactam monomer under normal pressure in various mold shapes for reaction and formation of castings.

The molecular weight of MC nylon ranges from 70000-100,000, which is three times higher than general nylon 6 and nylon 66. As a result, its comprehensive mechanical performance surpasses that of other nylon materials. It has been recognized as one of the important energy-saving materials actively promoted by the National Development and Reform Commission.

Throughout the years, we have persistently focused on research and development of MC nylon modification technology to expand its application field significantly. By incorporating various modifiers such as composite oil lubricant, molybdenum disulfide, graphite, glass fiber, carbon fiber, nano mineral powder during the reaction process with MC nylon as the substrate; it enhances wear resistance, corrosion resistance, aging resistance, self-lubrication vibration resistance, sound absorption. Additionally due to its simple manufacturing process and mold structure; it offers relatively low production costs making MC Nylon products an ideal substitute for copper, stainless steel, aluminum and etc.



MC尼龙物理、机械性能

Physical and mechanical properties of MC nylon

表1:MC 尼龙物理、机械性能

类别 CATEGORY	性能 PERFORMANCE	单位 UNIT	数值 NUMERICAL VALUE
物理性能 PHYSICAL PROPERTIES	密度 Density	g/m ³	1.15-1.16
	吸水性 hydrophilism	%	0.7-1.3
热性能 THERMAL PERFORMANCE	马丁耐热 Martin's Temperature	°C	67-74
	连续耐热 Continuous Heat-resistant	°C	120
	耐寒温度 Cold Resistance Temperature	°C	-40
	热变形温度 Heat Deflection Temperature	°C	120
	导热系数 Thermal Conductivity	瓦/米·度 (W/(m·K))	0.28-0.29
	线膨胀系数 linear Expansion Linear	10 ⁻⁵ /°C	4-7
	燃烧性 Flammability	/	Self-extinguishing
机械性能 MECHANICAL PROPERTY	拉伸强度 Tensile Strength	Mpa	90-100
	抗拉弹性模量 Tensile modulus of elasticity	GPA	3-3.4
	抗压强度 Compressive Strength	Mpa	100-110
	抗弯强度 Flexural Strength	Mpa	120-130
	冲击强度 Impact strength	KJ/m ²	8.8-12.8
	断裂伸长率 Elongation at Break	%	10-30
	邵氏硬度 Shore Hardness	D	≥80
	疲劳强度 Fatigue Strength	10 ⁵ KG/cm ²	200
	摩擦系数 Friction Coefficient	无油润滑 (No Oil Lubrication)	0.1-0.3
电性能 ELECTRICAL PROPERTY	体积电阻 Volume resistance	Ωm	6X10 ¹¹
	表面电阻 surface resistance	Ω	9.7X10 ¹⁴
	介电常数 Permittivity	10 ⁴ HZ	2.5-3.6
	介电损耗 Dielectric loss	10 ⁶ HZ	0.015-0.020
	击穿电压 Breakdown voltage	MV/m	15

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，绝缘等多种独特性能。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、齿轮、涡轮、托轮、支承轮、泵叶、轴套、轴瓦、柱销、活塞阀体、挡胶板、皮带轮、转动轮、棒材、管材、板材等，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 nylon products as one of the engineering plastics is widely used in many areas. it has merits of light weight, high strength, self-lubrication, wear-resistant, anti-corrosion, insulation. The friction coefficient is 8.8 times lower than steel, 8.3 times lower than copper, and the proportion is only one seventh of steel.

MC nylon can directly replace the original copper stainless steel, aluminum alloy and other metal products, over the years my company's production of MC nylon pulley, block, gear, turbine, support wheel, pump blade, shaft sleeve, bearing bush, pin, plate, belt pulley, rotating wheel, rod, pipe, plate, not only better replace the corresponding metal products, but also enable users to reduce costs, prolong the service life of the machine and parts, and significantly improve the economic benefits.

表2:MC尼龙与金属材料性能比较

性能 PERFORMANCE	单位 UNIT	铸钢 CAST STEEL	黄铜 BRASS	青铜 BRONZE	灰口钢 GREY IRON	MC 尼龙 MC NYLON
熔点 melting point	°C	1425	950	995	1200	225
密度 density	g/m ³	7.8	8.4	8.8	7	1.15-1.16
导热系数 conductivity coefficient	千卡/米小时°Ckcal/m hours°C	/	80	55	40-80	0.28-0.29
线膨胀系数 coefficient of linear expansion	10 ⁻⁵ /°C	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 ⁵ kg/cm ²	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/mm ²	45-65	30	18-25	10-35	75-11

表3:MC尼龙的抗张性能

性能 PERFORMANCE	单位 UNIT	温度/TEMPERATURE			性能 PERFORMANCE	单位 UNIT	数值 NUMERICAL VALUE
		0°C	23°C	100°C			
2%伸长率时应用 2%elongation when applied	kg/mm ²	520	450	150	1%压缩变形应力 1%Compression deformation stress	kg/mm ²	250
5%伸长率时应用 5%elongation when applied	kg/mm ²	980	870	280	2%压缩变形应力 2%Compression deformation stress	kg/mm ²	470
10%伸长率时应用 10%elongation when applied	kg/mm ²	/	/	380	4%压缩变形应力 4%Compression deformation stress	kg/mm ²	870
20%伸长率时应用 20%elongation when applied	kg/mm ²	/	/	470	屈服点的压力 The yield point stress	kg/mm ²	1040
屈服点的压力 The yield point stress	kg/mm ²	1000	870	500	伸长率 Elongation	%	6.5
伸长率 Elongation	%	6.5	5	30	断裂点的压力 Breaking point pressure	kg/mm ²	999
断裂点的压力 Breaking point pressure	kg/mm ²	999	880	500	伸长率 Elongation	%	8
伸长率 Elongation	%	8	15	50	压缩变形率 Compression ratio	%	6

MC 尼龙耐磨性能比较

Comparison of Wear Resistance of MC Nylon

由于MC尼龙又较高的结晶度，因而表现出良好的耐性能。它只是在初期使用时稍有损，以后很少，它不象金属品那样，磨损程度与使用期成正比例增长(见表5、6、7)

表5:TDBER磨损实验

试料 TRIAL SUBJECT	耐磨损 WEARING CAPACITY	备注 notes 试验条件 test condition
MC尼龙 MC nylon 尼龙66 nylon66	0.5-0.8 1.6	温度20±5℃湿度65±5℃ 磨轮CS-17荷重1000克 回转数3000次 磨损量是以MC尼龙的磨损重量 为1的磨损体积比
布基酚醛树脂制品 bakelite phenolic resin products	6.7	Temperature of 20±5℃, humidity 65±5℃
石棉酚醛塑料制品 Asbestos bakelite products	10.5	wheel CS-17, load 1000g
聚缩醛 Asbestos	3.2	Rotational speed 3000times
高密度聚乙烯 High density polyethylene	2.5	MC nylon wear volume is based on the wear weight of a volume ratio of wear
硬质聚氨酯橡胶 Rigid polyurethane rubber	2.0	
铜 copper	8.3	
钢(SS14) steel(SS14)	8.8	

表6:MC尼龙添加填料情况下摩擦系数比较

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%碳黑 Plus 1% carbon ink	机油润滑 oil lubrication	0.05-0.07

表7:MC尼龙在不同润滑条件下的磨损系数

润滑条件 MC NYLON MATERIALS	润滑情况 LUBRICATION CONDITION	摩擦系数U FRICTION COEFFICIENT U
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

材料 MATERIALS	许用应力P(MPA) ALLOWABLE STRESS P(MPA)	许用速度V(M/S) PERMISSIBLE V(M/S)	PV极限值 PV LIMITS	摩擦系数 FRICTION COEFFICIENT	
				无润滑 WITHOUT LUBRICATION	润滑 LUBRICATING
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 BPOq0.6-0.5 Bronze BPOq0.6-0.5MC	10	3	15	0.12	0.01
尼龙 MC Nylon MC	10	3	10	0.156	0.0185
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

特种尼龙滑轮主要规格参数

Main specifications and parameters of cast nylon pulleys

外径 OUTER DIAMETER	内径 INNER DIAMETER	厚度 THICKNESS	动配合 MOVABLE FIT
140	25	32	+0.10 +0.17
150	30	32	+0.15 -0.22
176	30	32	+0.15 +0.22
180	40	46	+0.18 +0.25
200	40	37	+0.18 +0.25
210	40	40	+0.18 +0.25
230	45	40	+0.20 +0.27
250	45	46	+0.20 +0.27
260	45	46	+0.20 +0.27
265	50	50	+0.22 +0.29
280	50	46	+0.22 +0.29
300	60	120	+0.25 +0.32
320	75	65	+0.52 -0.62
330	75	55	+0.28 +0.35
330	75	120	+0.28 +0.35
330	80	120	+0.31 +0.38
350	80	90	+0.31 +0.38
355	80	120	+0.31 +0.38
410	85	120	+0.35 +0.42
410	85	120	+0.35 +0.42
450	90	90	+0.37 +0.44

外径 OUTER DIAMETER	内径 INNER DIAMETER	厚度 THICKNESS	过盈配合 INTERFERENCE FIT
140	47	32	-0.10 -0.15
150	47	32	-0.10 -0.15
176	62	32	-0.13 -0.18
200	72	37	-0.18 -0.23
214	80	41	-0.20 -0.25
240	80	54	-0.20 -0.25
250	72	52	-0.18 -0.23
260	85	45	-0.22 -0.27
270	100	47	-0.27 -0.32
280	80	45	-0.20 -0.25
290	100	47	-0.27 -0.32
300	80	55	-0.20 -0.25
300	110	49	-0.30 -0.35
310	120	60	-0.33 -0.38
320	80	45	-0.20 -0.25
330	110	55	-0.33 -0.38
340	140	56	-0.37 -0.42
350	140	56	-0.37 -0.42
356	125	52	-0.35 -0.40
360	110	55	-0.33 -0.38
365	130	54	-0.35 -0.40



特种尼龙滑轮主要规格参数

Main specifications and parameters of cast nylon pulleys

外径 OUTER DIAMETER	内径 INNER DIAMETER	厚度 THICKNESS	过盈配合 INTERFERENCE FIT
380	140	80	-0.37 -0.42
390	110	55	-0.33 -0.38
400	110	55	-0.33 -0.38
405	125	52	-0.35 -0.40
410	160	63	-0.42 -0.47
417	100	56	-0.27 -0.32
435	150	59	-0.40 -0.45
440	170	65	-0.44 -0.49
447	130	74	-0.36 -0.41
450	125	60	-0.35 -0.40
466	140	56	-0.37 -0.42
470	215	83	-0.53 -0.58
480	210	77	-0.52 -0.57
485	110	60	-0.33 -0.38
490	130	80	-0.36 -0.41
500	110	78	-0.33 -0.38
520	220	79	-0.54 -0.59
540	125	65	-0.35 -0.40
560	160	52	-0.42 -0.47
571	180	95	-0.46 -0.51
580	310	74	-0.72 -0.77

外径 OUTER DIAMETER	内径 INNER DIAMETER	厚度 THICKNESS	过盈配合 INTERFERENCE FIT
600	215	90	-0.53 -0.58
612	210	77	-0.52 -0.57
612	310	86	-0.72 -0.77
620	110	58	-0.33 -0.38
625	200	110	-0.50 -0.55
630	210	80	-0.52 -0.57
640	140	62	-0.38 -0.43
650	210	77	-0.52 -0.57
660	215	100	-0.53 -0.58
671	240	85	-0.58 -0.63
680	180	70	-0.46 -0.51
685	130	74	-0.36 -0.41
690	225	118	-0.55 -0.61
700	230	60	-0.56 -0.61
710	180	130	-0.46 -0.51
750	210	77	-0.52 -0.57
790	110	75	-0.33 -0.38
836	130	74	-0.36 -0.41
847	100	100	-0.31 -0.36
910	320	124	-0.74 -0.79
1272	360	126	-0.82 -0.87



行业应用产品展示

Products Show





塔机系列产品

Tower crane series products





升降机系列产品

Lift series products





桩基系列产品

Pile foundation series products





汽车吊系列产品

Truck crane series products





高空作业车系列产品

Aerial work platform series products





行车系列产品
Crane series products





自卸车系列产品

Self-dump truck series products



电力设备系列产品

Power equipment series products





履带吊系列产品

Crawler crane series products



石油机械系列产品

Petroleum machinery series products





仓储设备车系列产品

Warehousing equipment car series products





舞台设备系列产品

Stage equipment series products





农机系列产品

Agricultural machinery series products

以塑代钢





水利机械系列产品

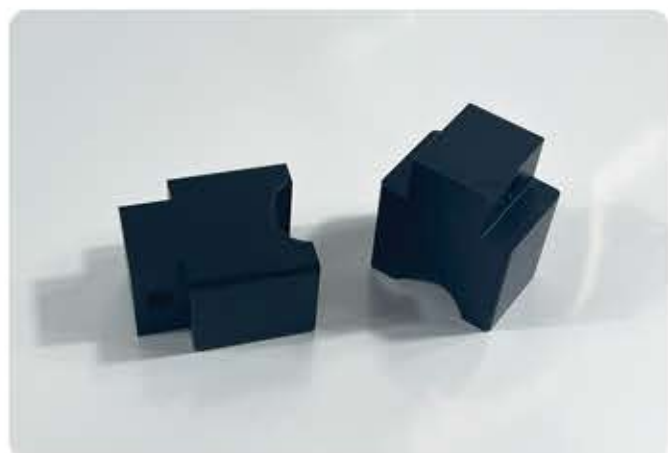
Water conservancy machinery series products





畜牧机械系列产品

Animal husbandry machinery series products



电梯系列产品

Elevator series products

