

ISO 9001 STRICT PRODUCTION MANAGEMENT SYSTEM

严格的生产管理体系 ISO-9001

信航(SUN HONG)是制浆造纸, 钢铁行业刮刀片及刮刀装置系统优秀供应商和全球主要制造刮除解决方案提供商之一。专业向造纸、钢铁、纺织工业提供设备全部的各类材质和各种用途刮刀片、刮刀装置及部件;流浆箱护散件及漂片:真空伏辊密封元件、密封条支座、加压气胎:陶瓷脱水元件:涂布计量棒及支座。

SUN HONG is an excellent supplier of doctor blade and doctoring device systems in the pulp, paper and steel industry, as well as one of the world's leading providers of manufacturing scraper solutions. We specialize in providing equipment for the pulp & paper, steel, and textile industries, including all types of materials and various uses of doctor blades, doctor blade devices, and components; headbox protective components and floating plates; vacuum suction roll sealing strip, supports, pneumatic tube ceramic dewatering elements: coated measuring rods and supports.

信航(SUN HONG)所有产品都使用高质量的材料及先进的生产工艺。复合材料刮刀凭借着全球最大, 最高强度, 最先进的模压生产设备、最高专业水平的研发机构和良好的技术服务, 始终以先进的生产技术、优质可靠的产品质量, 合理的价格从而取得用户的高度满意。

SUN HONG uses high-quality materials and advanced production processes for all its products. Composite material blades relies on the world's largest, highest strength, most advanced molding production equipment, the highest professional level of research and development institutions, and good technical services, always achieving high customer satisfaction with advanced production technology, high-quality and reliable product quality, and reasonable prices.

先进专业的测验、实验设备 Advanced professional testing, laboratory equipments



专业人员对现有产品分析和新产品研发进行测验, 为可持续发展创新。  
Professionals test, analyze the existing products, develop the new products, and innovate for sustainable development.



SUN HONG Doctor Blade System

信航是专业为造纸, 印刷, 纺织等行业, 生产各种高性能复合材料和特种高性能塑料, 机械制造和纺织高端玻璃纤维制品的公司。

我们提供半成品, CNC加工定制产品到整套系统解决方案。模压材料生产长度一次成型达14.5米, CNC成品加工能力整体达12米。

SUN HONG is a company specializing in the production of various high-performance composite materials and special high-performance plastics for industries such as papermaking, printing, and textiles, as well as high-end glass fiber products for machinery manufacturing and textiles.

We provide semi-finished products, CNC customized products, and complete system solutions. The production length of molded materials can reach 14.5 meters in one molding, and the overall CNC finished product processing capacity is 12 meters.

# 刮刀系列






## Doctor Blade Series



我们经验丰富的服务技术人员可帮助您选择最佳的刮刀  
Our experienced technicians can help you choose the best blades

### Sun Hong EP Series

<p><b>SHEP_TTC</b></p> <p>材料:超高分子量聚乙烯UHMW-PE(分子量550万、900万)与润滑剂烧结合而成、特佛龙。 MATERIAL:UHMW-PE(molecular weight 5.5、9.0 million )、Teflon</p> <p>可根据客户要求,灵活设计 Can desian according to client' s request (1)适用于特种软胶辊或易破坏的辊面 Suit for specifically soft rubber roll or breakable roll (2)适用于胸辊,真空伏辊,校正辊,吸移辊等。Suit for breast roll, vacuum couch roll, guide roll, suction transfer roll etc.</p>	
<p><b>SHEP-II</b></p> <p>材料:改性酚树脂和优质棉纤维布、石墨注入酚树脂和超细棉织物、酚树脂超细玻璃纤维布,棉织物及碳纤维层压。 MATERIAL: Fine cotton fiber fabric with phenolic resin-system and graphite impregnation,Superfine glass fiber fabric with phenolic resin-system, fine cotton fiber fabric layer, layers of carbon fibers.</p> <p>适用于任何部位的硬胶辊。 Suit for any part of stiff rubber roll.</p>	
<p><b>SHEP-III</b></p> <p>材料:高耐磨环氧树脂,高等研磨填料,超细玻璃纤维布 MATERIAL: Superfine glass fibre fabric with high wear resistance of epoxy-resin system and super fine abrasive stuff</p> <p>适用于烘缸和干燥缸等 Suit for dryer cylinder and dryer.</p>	
<p><b>SHEP-IV</b></p> <p>材料:环氧树脂和超细玻璃纤维布。 MATERIAL:Superfine glass fiber fabric with epoxy-resin system.</p> <p>适用于清洁要求较高的辊或缸面。 Suit for the rolls or cylinder surface with highest requirement of cleanness.</p>	
<p><b>SHEP-V</b></p> <p>材料:高温环氧树脂,耐磨层材料,超细玻璃纤维布。 MATERIAL: Superfine glass fiber fabric with high temperature resistant epoxy-resin system and abrasive stuff.</p> <p>适用于烘于部头一组烘缸, MG缸。 Suit for first group of dryer cylinder, MG cylinder.</p>	

<p><b>SHEP-VI</b></p> <p>材料:高韧性环氧超细玻璃纤维布。 MATERIAL: Superfine glass fiber fabric with epoxy-resin system, higher bending strength.</p> <p>适用于压光机的辊面。 Suit for calendar roll.</p>	
<p><b>SHEP-VII</b></p> <p>材料:超级耐磨芳胺涂层环氧树脂超细玻璃纤维布。 MATERIAL:Superfine glass fiber fabric with epoxy-resin system and extremely wear resistant aramid layer.</p> <p>适用于镀铬面的烘缸。 Suit for the chromed dryer cylinder.</p>	
<p><b>SHEP-VIII</b></p> <p>材料:精细碳化硅树脂碳纤维毡超细玻璃纤维布、超耐高温环氧树脂超细玻璃纤维布,加碳纤维,低摩擦系数,高耐磨损率。 MATERIAL:Superfine glass fiber fabric with epoxy-resin system and fine silicone carbide layer, Superfine glass fiber fabric with very high temperature resistant epoxy-resin system and carbon fiber. Low coefficient of friction, high wear-resistance.</p>	
<p><b>SHEP-IX</b></p> <p>材料:超级精细碳化涂层环氧树脂超细玻璃纤维布碳纤维高耐磨损度不错的刮除清洁设施。 MATERIAL:Superfine glass fiber fabric with epoxy-resin system and carbon fiber and very fine silicone carbide layers, good doctoring cleaning properties, high wear-resistance.</p>	
<p><b>SHEP-X</b></p> <p>材料:超耐高温环氧树脂超细玻璃纤维布加碳纤维碳化涂层,高耐磨损度的不错的刮除清洁设施 MATERIAL:Superfine glass fiber fabric with epoxy-resin system and carbon fibre and silicone carbide layers, good doctoring cleaning properties,high wear-resistance.</p>	

## 喷涂陶瓷刮刀

### Spraying Ceramic Blades

#### SHEP-CACS

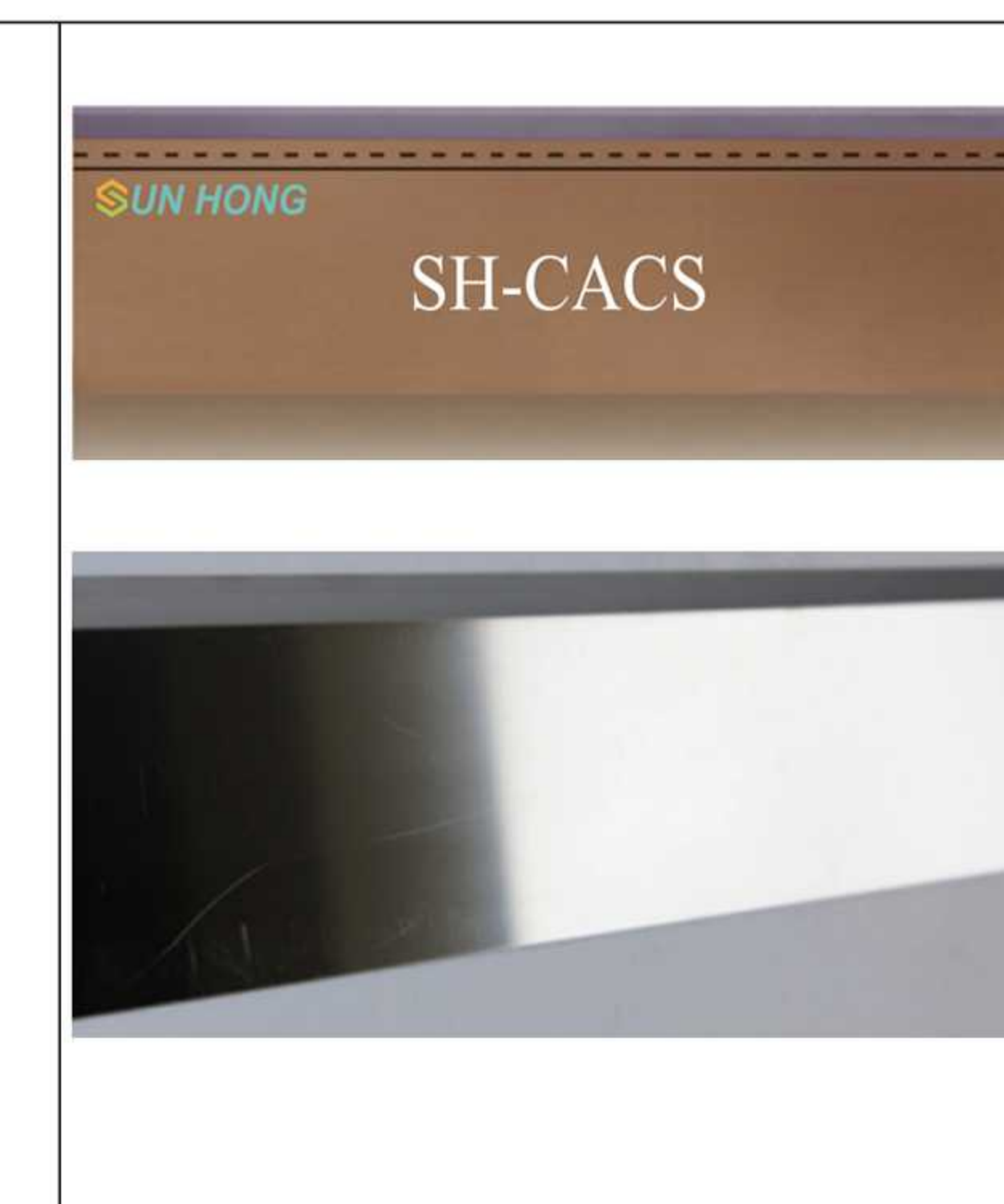
材料:铜合金,精密金属,不锈钢  
Material: copper alloy, precision metal, stainless steel.

角度: 0.5° -90°  
Angle: 0.5° -90°

涂层刀具的优点 Advantage of coating blade.

1. 超高容量的耐磨性 Superior abrasion resistance.
2. 耐高温 High temperature resistance.
3. 相当高的使用寿命 Long working life.

根据客户要求提供其他尺寸  
Supply other size according to client's request.



## 特种刮刀

### Particular Blades

#### SHSP-SS 密封刮刀片 Sealing Blade

选用特种精密弹性不锈钢带  
Choose special precision elasticity stainless steel belt.

根据客户开孔率制作  
Production according to client' s aperture ratio.  
特殊要求按客户图纸生产  
Special request according to client' s design.



#### SHSP-TYS 齿形刮刀片 Tooth Type Blade

选用特种精密碳素钢带  
Choose special precision carbon steel belt.  
明亮的抛光  
Bright polishing stiffness.

根据客户开孔率制作  
Production according to client' s aperture ratio.  
特殊要求按客户图纸生产  
Special request according to client' s design.



# 刮刀系列

## Doctor Blade Series



我们经验丰富的服务技术人员可帮助您选择最佳的刮刀  
Our experienced technicians can help you choose the best blades

### Sun Hong SH Series

#### 常用刮刀系列

#### Standard & Excellent Blades

<p><b>SHB1</b></p> <p>主要用途：低速纸机和高速纸机的湿部。 Application: Wet section of low speed paper machine and high speed paper machine.</p> <p>特点：耐化学优良的环氧树脂，耐磨性极佳，耐温160°。 Specialty: Excellent chemical resistance epoxy resin, excellent wear resistance, 160°C temperature resistance.</p>	
<p><b>SHB2</b></p> <p>主要用途：从网部到卷取部，适用于各种辊子。 Application: Various rollers from the wire section to the winding section</p> <p>特点：超细纤维与环氧树脂结合，有良好的化学性，耐温185°。 Specialty: Microfiber combined with epoxy resin, excellent chemical properties, 185°C temperature resistance.</p>	
<p><b>SH-20C</b></p> <p>主要用途：适用于烘缸，镀铬辊，橡胶辊，石辊等。 Application: Dryer cylinder, chrome roller, rubber roller, stone roller, etc.</p> <p>特点：含有20%碳纤维和玻璃纤维构成，优良的柔性环氧树脂，使刮刀与辊面贴合性极佳，耐温185°。 Specialty: Composed of 20% carbon fiber and glass fiber. Excellent flexible epoxy resin, which makes the blade and roll surface have excellent adhesion, 185°C temperature resistance.</p>	
<p><b>SH-40C</b></p> <p>主要用途：适用于烘缸，镀铬辊，橡胶辊，石辊等。 Application: Drying cylinder, chrome roller, rubber roller, stone roller, etc.</p> <p>特点：含有40%碳纤维和玻璃纤维构成，优良的柔性环氧树脂，自润性强，耐温185°。弯曲强度可达760N/mm2 Specialty: Composed of 40% carbon fiber and glass fiber. Excellent epoxy resin with strong self-lubricating 185°C temperature resistance. Bending strength 760N/mm2.</p>	
<p><b>SH-60C</b></p> <p>主要用途：适用于烘缸，镀铬辊，橡胶辊，石辊等。 Application: Drying cylinder chrome roller, rubber roller, stone roller, etc.</p> <p>特点：含有60%碳纤维和玻璃纤维构成，优良的柔性环氧树脂，自润性强，耐温185°。弯曲强度可达830N/mm2。 Specialty: Composed of 60% carbon fiber and glass fiber. Excellent epoxy resin, strong self-lubricating 185°C temperature resistance. Bending strength 830N/mm2.</p>	
<p><b>SH-100C</b></p> <p>主要用途：适用于陶瓷辊，镜面辊及软压光辊。 Application: Ceramic rolls, mirror rolls and soft calender rolls</p> <p>特点：含有100%碳纤维压制而成，优良的环氧体系，自润性强，耐温185°。弯曲强度可达1000N/mm2。 Specialty: 100% carbon fiber pressed, excellent epoxy resin system. Extremely strong self-lubricating 185°C temperature resistance. Bending strength 1000N/mm2</p>	

#### 高分子刮刀

#### HDPE Blades

<p><b>HDPE-1</b></p> <p>主要用途：胸辊及较软的胶辊，聚氨酯辊等。 Application: Chest rollers, soft cots, polyurethane rollers, etc.</p> <p>特点：耐温80摄氏度，分子量300万。 Specialty: 80° C temperature resistance, molecular weight 3 million</p>	
<p><b>HDPE-2</b></p> <p>主要用途：湿部的软胶辊，聚氨酯辊等。 Application: Wet section, soft cots, polyurethane rollers, etc.</p> <p>特点：耐温80摄氏度，分子量300万。 Specialty: 80° C temperature resistance, molecular weight 6 million</p>	
<p><b>HDPE-3</b></p> <p>主要用途：湿部的软胶辊，聚氨酯辊等。 Application: Wet section, soft cots, polyurethane rollers, etc.</p> <p>特点：耐温80摄氏度，分子量800万。 Specialty: 80° C temperature resistance, molecular weight 8 million.</p>	

#### 耐磨型刮刀

#### Wear Resistant Blades

<p><b>SHP-Glass Fiber</b></p> <p>主要用途：用于胶黏物较脏的铸铁辊 Application: Cast iron rolls with dirty adhesive</p> <p>特点：环氧树脂与超细的玻璃纤维系统，加有超细的碳研磨颗粒能很好的清洁辊面的脏物，耐温185°，具有很好的耐化学性。 Specialty: Epoxy resin and ultra-fine glass fiber system, with ultra-fine carbon abrasive particles to clean the surface of the roll, 185°C temperature resistance, with excellent chemical resistance</p>	
<p><b>SH-P20C</b></p> <p>主要用途：用于胶黏物较脏，表面不光滑的铸铁辊。 Application: Cast iron rolls with dirty adhesive and uneven surface</p> <p>特点：含有20%的碳纤维织物和环氧树脂，极低的摩擦系数，极耐磨。 Specialty: 20% carbon fiber fabric and epoxy resin, very low friction coefficient, extremely wear resistant</p>	
<p><b>SH-P40C</b></p> <p>主要用途：用于胶黏物较脏，表面不光滑的铸铁辊。 Application: Cast iron rolls with dirty adhesive and uneven surface</p> <p>特点：含有40%的碳纤维织物和环氧树脂，极低的摩擦系数，极耐磨。 Specialty: 40% carbon fiber fabric and epoxy resin, very low friction coefficient, extremely wear resistant.</p>	
<p><b>SH-P60C</b></p> <p>主要用途：用于胶黏物较脏，表面不光滑的铸铁辊。 Application: Cast iron rolls with dirty adhesive and uneven surface</p> <p>特点：含有60%的碳纤维织物和环氧树脂，极低的摩擦系数，极耐磨。 Specialty: 60% carbon fiber fabric and epoxy resin, very low friction coefficient, extremely wear resistant</p>	

#### 净面，漏纸毛型刮刀

#### Clean Surface, Paper Leakage Type Blades

<p><b>SH-CL</b></p> <p>Clean Glass Fiber Light Yellow Doctor Blade</p> <p>主要用途：从网部到卷取部适用于各种辊子 Application: Various rollers from the wire section to the coiling section</p> <p>特点：超细纤维与柔性环氧树脂结合，与辊面贴敷性好，有良好的化学性，耐温185°。 Specialty: Microfiber combined with flexible epoxy resin, excellent adhesion to roll surface, excellent chemical property, 185°C temperature resistance.</p>	
<p><b>SH-C20C</b></p> <p>主要用途：适用于烘缸，镀铬辊，橡胶辊，石辊等。 Application: Dryer cylinder, chrome roller, rubber roller, stone roller, etc.</p> <p>特点：含有20%碳纤维和玻璃纤维构成，优良的柔性环氧树脂，使刮刀与辊面贴合性极佳，耐温185°。 Specialty: Composed of 20% carbon fiber and glass fiber. Excellent flexible epoxy resin, which makes the blade and roll surface have excellent adhesion, 185°C temperature resistance.</p>	
<p><b>SH-C40C</b></p> <p>主要用途：适用于烘缸，镀铬辊，橡胶辊，石辊等。 Application: Drying cylinder, chrome roller, rubber roller, stone roller, etc.</p> <p>特点：含有40%碳纤维和玻璃纤维构成，优良的柔性环氧树脂，使刮刀与辊面贴合性极佳，耐温185°。 Specialty: Composed of 40% carbon fiber and glass fiber. Excellent flexible epoxy resin, which makes the blade and roll surface have excellent adhesion, 185°C temperature resistance.</p>	
<p><b>SH-C60C</b></p> <p>主要用途：适用于烘缸，镀铬辊，橡胶辊，石辊等。 Application: Dryer cylinder, chrome roller, rubber roller, stone roller, etc.</p> <p>特点：含有60%碳纤维和玻璃纤维构成，优良的柔性环氧树脂，使刮刀与辊面贴合性极佳，耐温185°。 Specialty: Composed of 60% carbon fiber and glass fiber. Excellent flexible epoxy resin, which makes the blade and roll surface have excellent adhesion, 185°C temperature resistance.</p>	
<p><b>SH-C100C</b></p> <p>主要用途：适用于烘缸，镀铬辊，橡胶辊，石辊等。 Application: Drying cylinder, chrome roller, rubber roller, stone roller, etc.</p> <p>特点：含有100%碳纤维和玻璃纤维构成，优良的柔性环氧树脂，使刮刀与辊面贴合性极佳，耐温185°。 Specialty: Composed of 100% carbon fiber and glass fiber. Excellent flexible epoxy resin, which makes the blade and roll surface have excellent adhesion, 185°C temperature resistance.</p>	

# 刮刀系列

## Doctor Blade Series



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Our experienced technicians can help you choose the best blades

### Sun Hong SH Series

#### 抗剥离型刮刀

#### Anti Stripping Blades

<p><b>SH-H1</b></p> <p>主要用途：用于再生纸浆造纸机的前部。 Application: Front recycled pulp paper machine</p> <p>特点：采用高强度树脂与玻璃纤维（含有碳研磨颗粒）制成，耐温185°，具有很好的抗老化性。 Specialty: Made of high strength resin and glass fiber(containing carbon abrasive particles) It has a temperature resistance of 185° C degrees and has excellent aging resistance.</p>	
<p><b>SH-H2</b></p> <p>主要用途：高车速，再生纸浆，废纸浆尤其突出。 Application: High speed, recycled pulp, especially waste paper.</p> <p>特点：超细玻璃纤维织物，具有特别开发的环氧树脂体系，非常耐磨，清洁效果非常好。 Specialty: Ultra-fine fiber glass fabric with specially developed epoxy resin system, very wear-resistant and very excellent cleaning effect.</p>	
<p><b>SH-H2C</b></p> <p>主要用途：高车速，再生纸浆，废纸浆尤其突出。 Application: High speed, recycled pulp, especially waste paper.</p> <p>特点：具有特殊开发的环氧树脂体系，和碳纤，玻璃纤维混合制成的刮刀，具有摩擦系数低，耐磨性好，清洁效果好。弯曲强度600N/mm2。 Specialty: Specially developed epoxy resin system, blade made of carbon fiber and glass fiber, with friction coefficient, excellent wear resistance and excellent cleaning effect. Bending strength 600N/mm2</p>	
<p><b>SH-H4C</b></p> <p>主要用途：高车速，再生纸浆，废纸浆尤其突出。 Application: High speed, recycled pulp, especially waste paper.</p> <p>特点：具有特殊开发的环氧树脂体系，和碳纤，玻璃纤维混合制成的刮刀，具有摩擦系数低，耐磨性好，清洁效果好。弯曲强度760N/mm2。 Specialty: Specially developed epoxy resin system, scraper made of carbon fiber and glass fiber, with friction coefficient, excellent wear resistance and excellent cleaning effect. Bending strength 760N/mm2</p>	
<p><b>SH-H6C</b></p> <p>主要用途：高车速，再生纸浆，废纸浆尤其突出。 Application: High speed, recycled pulp, especially waste paper.</p> <p>特点：具有特殊开发的环氧树脂体系，和碳纤，玻璃纤维混合制成的刮刀，具有摩擦系数低，耐磨性好，清洁效果好。弯曲强度830N/mm2。 Specialty: Specially developed epoxy resin system, scraper made of carbon fiber and glass fiber, with friction coefficient, excellent wear resistance and excellent cleaning effect. Bending strength 830N/mm2</p>	
<p><b>SH-H10C</b></p> <p>主要用途：高车速，再生纸浆，废纸浆尤其突出。 Application: High speed, recycled pulp, especially waste paper.</p> <p>特点：具有特殊开发的环氧树脂体系，和碳纤，玻璃纤维混合制成的刮刀，具有摩擦系数低，耐磨性好，清洁效果好。弯曲强度1000N/mm2。 Specialty: Specially developed epoxy resin system, scraper made of carbon fiber and glass fiber, with friction coefficient, excellent wear resistance and excellent cleaning effect. Bending strength 1000N/mm2</p>	

#### 净面，漏纸毛型刮刀

#### Clean Surface, Paper Leakage Type Blades

<p><b>SHHT-Glass Fiber</b></p> <p>主要用途：超级高温热辊，压光辊等。 Application: Super high temperature hot rolls, calender rolls, etc.</p> <p>特点：具有耐高温体系树脂和玻璃纤维相结合，清洁效果好。 Specialty: Combination of high temperature resistant resin and glass fiber, excellent cleaning effect.</p>	
<p><b>SHHT-20C</b></p> <p>主要用途：超级高温热辊，压光辊等。 Application: Super high temperature hot rolls, calender rolls, etc.</p> <p>特点：具有耐高温体系树脂和20%碳纤维相结合，清洁效果好。 Specialty: Combination of high temperature resistant resin and 20% carbon fiber, excellent cleaning effect.</p>	
<p><b>SHHT-40C</b></p> <p>主要用途：超级高温热辊，压光辊等。 Application: Super high temperature hot rolls, calender rolls, etc.</p> <p>特点：具有耐高温体系树脂和40%碳纤维相结合，清洁效果好。 Specialty: Combination of high temperature resistant resin and 40% carbon fiber, excellent cleaning effect.</p>	
<p><b>SHHT-60C</b></p> <p>主要用途：超级高温热辊，压光辊等。 Application: Super high temperature hot rolls, calender rolls, etc.</p> <p>特点：具有耐高温体系树脂和60%碳纤维相结合，清洁效果好，摩擦系数低，耐磨性优异。 Specialty: Combination of high temperature resistant resin and 60% carbon fiber, excellent cleaning effect</p>	
<p><b>SHHT-100C</b></p> <p>主要用途：超级高温热辊，压光辊等。 Application: Super high temperature hot rolls, calender rolls, etc.</p> <p>特点：具有耐高温体系树脂和100%碳纤维相结合，清洁效果好，摩擦系数低，耐磨性极佳。 Specialty: Combination of high temperature resistant resin and 100% carbon fiber, excellent cleaning effect.</p>	

#### 金属刮刀

#### Metal Blades

<p>精密铜合金刮刀 Precision copper alloy blade</p>	
<p>碳钢Carbon Steel SK-5 经淬火处理的碳钢（碳含量0.75%） 硬度为HV470-520 Quenched carbon steel (carbon content 0.75%) Hardness: HV470-520</p>	
<p>不锈钢Stainless Steel 经淬火处理的不锈钢（含13%铬） 硬度：HRC42-46 标准厚度：1.2mm Quenched stainless steel (containing 13% chromium) Hardness: HRC42-46 Standard thickness: 1.2mm</p>	

#### 刮刀气胎

#### Air Tube



# How to Choose Blade Material

辊筒名称 Roll Name	辊筒表面材质 Surface Material	刮刀片材质选择 Blade Material	安装角度 Install Angle	刮刀线压力 (N·m-1) Line Pressure	
				正常 Normal	最大 Max.
胸辊 Breast Roll	硬橡胶 Hard Rubber (0-3 P&J)	超高分子高密度聚酯 UHMWPE 聚酯 Polyester 环氧树脂 Epoxy Resin	25°	50	90
	环氧树脂 Epoxy Resin	聚酯 Polyester	25°	50	100
网辊 Wire Drive Roll	硬橡胶 Hard Rubber (0-3 P&J)	超高分子高密度聚酯 UHMWPE 聚酯 Polyester 环氧树脂 Epoxy Resin	25°	50	90
	环氧树脂 Epoxy Resin	聚酯 Polyester	25°	70	90
毛毯辊 Felt Roll	硬橡胶 Hard Rubber (0-3 P&J)	超高分子高密度聚酯 UHMWPE 环氧树脂 Epoxy Resin	25°	70	90
	环氧树脂 Epoxy Resin	超高分子高密度聚酯 UHMWPE 聚酯 Polyester phenoset(酚醛树脂)	25°	70	90
	Beltex	超高分子高密度聚酯 UHMWPE 聚酯 Polyester phenoset(酚醛树脂)	25°	70	90
压榨辊 Press Roll	硬橡胶 Hard Rubber (0-3 P&J)	超分子量金属 Supramolecular Metal 不锈钢18/8 Stainless Steel 超分子量环氧树脂 Epoxy Resin	15° -30°	90	180
	花岗岩 Granite	Monel 不锈钢18/8 Stainless Steel Phenepoxy 超分子量环氧树脂 Epoxy Resin Carboset	25° -30°	150-300	500
	不锈钢 Stainless Steel	Phenose 超分子量环氧树脂 Epoxy Resin Phenepoxy	25°	90	110
	激冷铸铁 Chilled Iron	超分子量环氧树脂 Epoxy Resin Carboset 超分子量金属 Supramolecular Metal 不锈钢18/8 Stainless Steel Monel	25°	130	180
沟纹压辊 (Venta-nip) Groove Press Roll	硬橡胶 Hard Rubber (4-20 P&J)	超分子高密度聚酯 UHMWPE	15° -25°	50-90	110
	环氧树脂 Epoxy Resin	超分子高密度聚酯 UHMWPE	15° -25°	50-90	110

烘缸 Dryer Cylinder MG缸 MG Cylinder 施胶压榨辊 Size Press Roll	铸铁 Cast Iron	硬质钢 Hard Steel 环氧树脂 Epoxy Resin 青铜 Bronze 研磨料 Grinding Material	25° -30°	60	180
	激冷铸铁 Chilled Iron	硬质钢 Hard Steel 环氧树脂 Epoxy Resin 青铜 Bronze 研磨料 Grinding Material	25° -30°	60	180
	钢 Steel	环氧树脂 Epoxy Resin 青铜 Bronze	25° -30°	60	180
	硬橡胶 Hard Rubber (0-3 P&J)	硬质钢 Hard Steel 环氧树脂 Epoxy Resin	15° -20°	70	90
烘缸 Dryer Cylinder	青铜 Bronze	Phenose	25°	90	110
	铬钢 Chrome Steel	环氧树脂 Epoxy Resin Monel	25°	90	110
干燥缸和冷缸 Dryer Cylinder & Cold Cylinder	铬钢 Chrome Steel	环氧树脂 Epoxy Resin monel Carboset	25° -30°	90	180
	铸铁 Cast Iron	硬质钢 Hard Steel 环氧树脂 Epoxy Resin 青铜 Bronze 研磨料 Grinding Material 碳纤维 Carbon Fiber	25° -30°	90	180
	激冷铸铁 Chilled Iron	硬质钢 Hard Steel 环氧树脂 Epoxy Resin 青铜 Bronze	25° -30°	90	180
	钢 Steel	环氧树脂 Epoxy Resin 青铜 Bronze	25° -30°	90	180
压光辊和超级压光辊 Calender Roll & Super Calender	不锈钢 Stainless Steel	Phenose 环氧树脂 Epoxy Resin	25°	90	110
	铜 Copper	Phenose	25°	70	90
	激冷铸铁 Chilled Iron	环氧树脂 Epoxy Resin 超分子量高密度聚酯 UHMWPE Carboset 硬质钢 Hard Steel	25° -30°	90	300
卷纸缸 Reel	钢 Steel	环氧树脂 Epoxy Resin 超分子量高密度聚酯 UHMWPE Carboset 硬质钢 Hard Steel	25° -30°	90	300
	激冷铸铁 Chilled Iron	环氧树脂 Epoxy Resin 青铜 Bronze	25° -30°	130	180
	钢 Steel	环氧树脂 Epoxy Resin 青铜 Bronze	25° -30°	130	180

## 配置刮刀装置的基本技术原则在刮刀片材质选择上，应严格遵守下列技术原则：

- 1.冷硬铸铁辊筒不能使用不锈钢刀片。
- 2.镀铬的辊筒不能使用青铜刀片。
- 3.钢辊筒不能使用钢片。
- 4.铜辊不能使用蒙耐尔刀片。
- 5.合成橡胶辊筒不能使用金属刀片。
- 6.在要增加刮刀片压力以前，必须换用新刮刀片。

The basic technological principles of installing blade devices.

The technological principles abided by in selecting blade material.

Chilled iron casting roller cannot use stainless blades.

Chrome plate roller cannot use bronze blade. Steel roller can not use steel blade.

Copper roller cannot use monel blade.

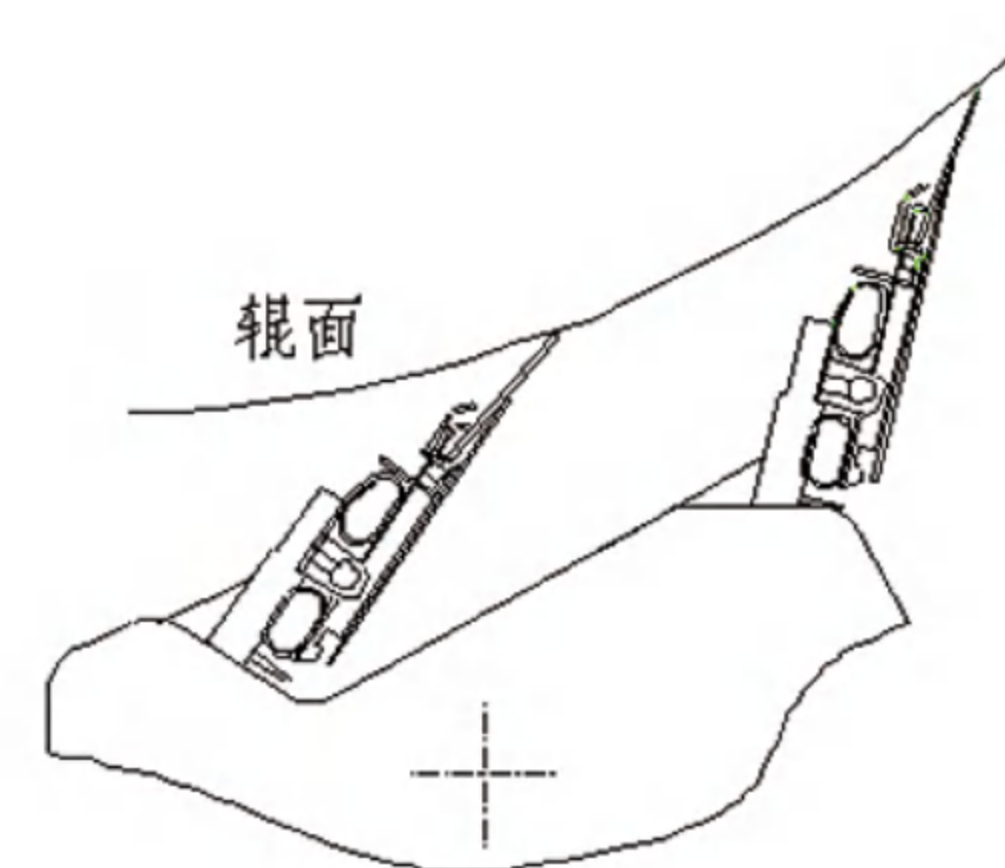
Composite rubber roll cannot use metal blade. Before increasing blade pressure, must to change a new blade.

## 刮刀装置系统 Doctor Blade Device

### ——双刮刀(DST)气囊加压刮刀装置

#### Double Doctor Blade Devices

双刮刀装置用于干部与湿部，使纸机能安全有效的运行。分为电机摆动和气胎摆动。  
Double blade devices can be used in dryer and wet part on the paper machine to ensure its safe operation. It can be divided into motor swing and air swing.



特点:真空伏辊采用双刮刀，有助于除去孔眼中的水分、细小纤维和填料等污物，从而出伏辊的湿纸页干度可提高1.5%~2.0%，相当于出压榨部的湿纸页干度提高1%，节约干燥用气量3%~4%，双刮刀投资在2~3个月内便可收回。在提高水分均匀度及减少进入压榨部水分方面发挥了巨大的效果。

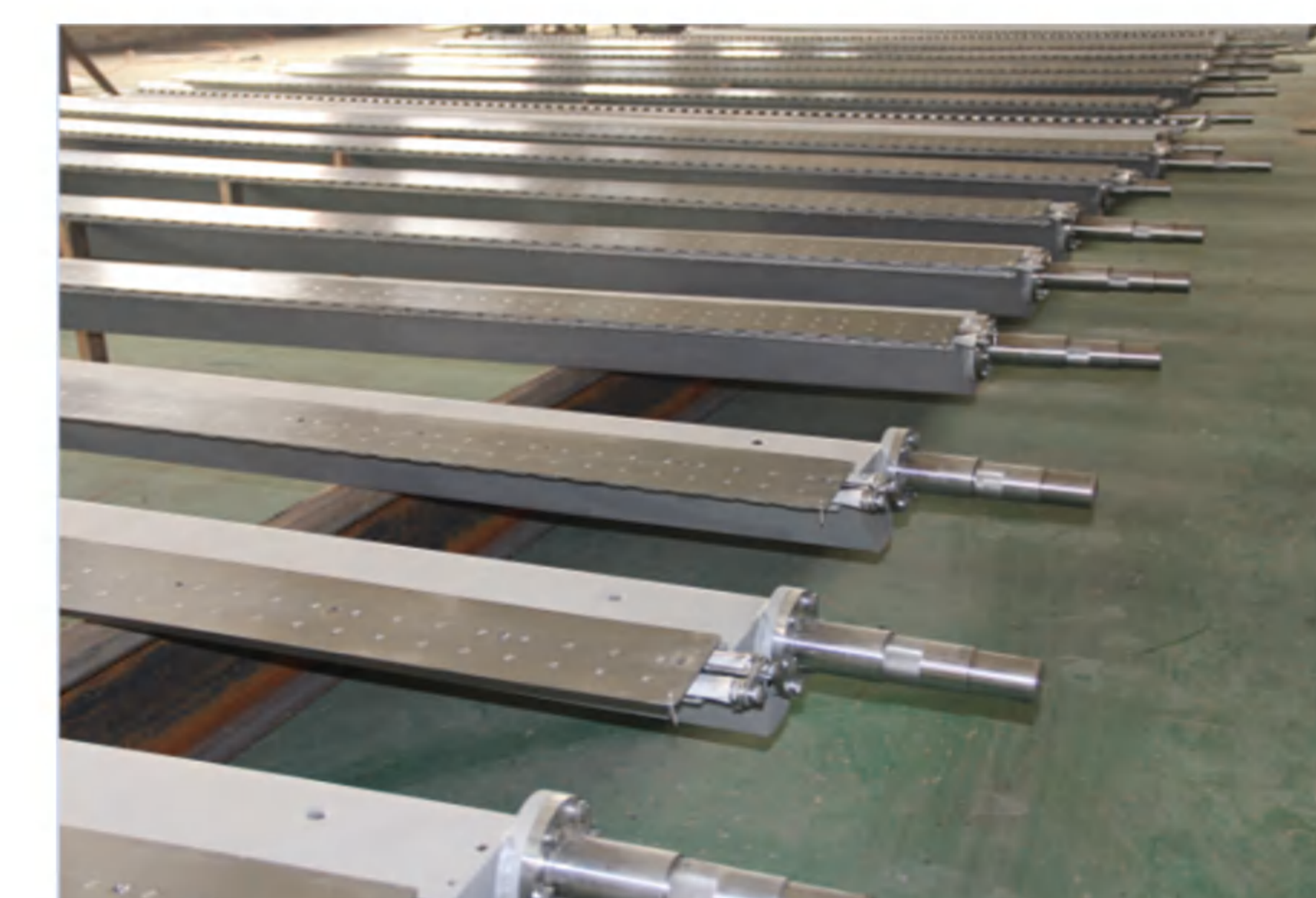
- A.安装真空伏辊刮刀后，进入压榨部水分大量减少，水份均匀度得到有效改善。
- B.返回到网部的水份减少，质地得到有效改善。
- C.特殊形状的刀片可以在刀片背后产生负压，将辊子网眼内的水份及脏东西吸出。减少辊子网眼的堵塞，提高了辊子的寿命。
- D.真空伏辊周围的带水现象及水雾现象得到解决。E,根据用户提供的资料，纸张的克重变化得到改善，单位重量稳定。从产品质量及削减成本方面都发挥了良好的效果。

Characteristics: vacuum couch roll use the double doctor blades, it can erase the water, small fibre and dirt of the hole, then the dryness of wet paper can be improve 1.5%-2.0% on couch roll, equal to the dryness of wet paper improved 1 % on press section, saving air to dry 3%-4%. The investment of double doctor blades can be taken back within 2-3 months. it plays a tremendous effect to improve water uniformity and reduce the water into the press section.

- A. Improve water uniformity and reduce the water into the press section after installed the vacuum couch roll.
- B. The water of return to the wire part can be reduced so as to improve the character.
- C. The special form of the doctor blade can produce negative pressure on the back of blade, then suck out moisture and dirt of roll holes, reduce the mesh clogging and improve the life of roll.
- D. The water phenomenon and water mist around of vacuum couch roll are resolved.
- E. According to information provided by the client, the weight of paper are improved and unit weight becomes stable. Play a good result in terms of product quality and cut costs.



双刮刀(DST)刮刀装置 Double Blade (DST Blade Devices)



单刮刀(DST)刮刀装置 Single Blade (DST Blade Devices)



气动摆动机构刮刀装置 Oscillator Blade Device

## ▶ 刮刀装置系统 Doctor Blade Device

### ——起皱刮刀装置 Creping Blade Device

起皱是卫生纸机最为重要的工艺之一，为提高生产效益及产品质量稳定，起皱技术起着至关重要的影响。杰出的起皱功能可消除多种工艺波动，确保设备高效运行。

Creping is one of the most important processes in the tissue machine. It plays a vital role in improving product effect and quality stability. Outstanding creping feature can eliminate a variety of process variations, and ensure the efficient operation of the equipments.

- 设备具有角度调整装置。
- 刀片加压和杨克缸表面结合适应。
- 通过对刮刀强度进行优化，可消除振动。
- 刀片更换快捷，过程安全。

Equipment have the angle adjusting device.  
The blade pressure is suitable with surface combine of Yankee.  
Optimize the intensity of doctor blade to eliminate the vibration.  
It is quick and safe for changing blade.



### ——靴压专用刮刀装置 Speciality Doctor Blade Device for Shoe Press

靴套刮刀装置，采用优化碳纤维材料制作，产品质量轻，强度高，直线度一致，刮刀采用UHMW-PE材料，压力在100N/M。有效的压出向上脱出的水分，同时是随靴辊转动的水雾最少。适用于：导辊和靴辊只需要很小的空间位置维修很容易拉出或推进。

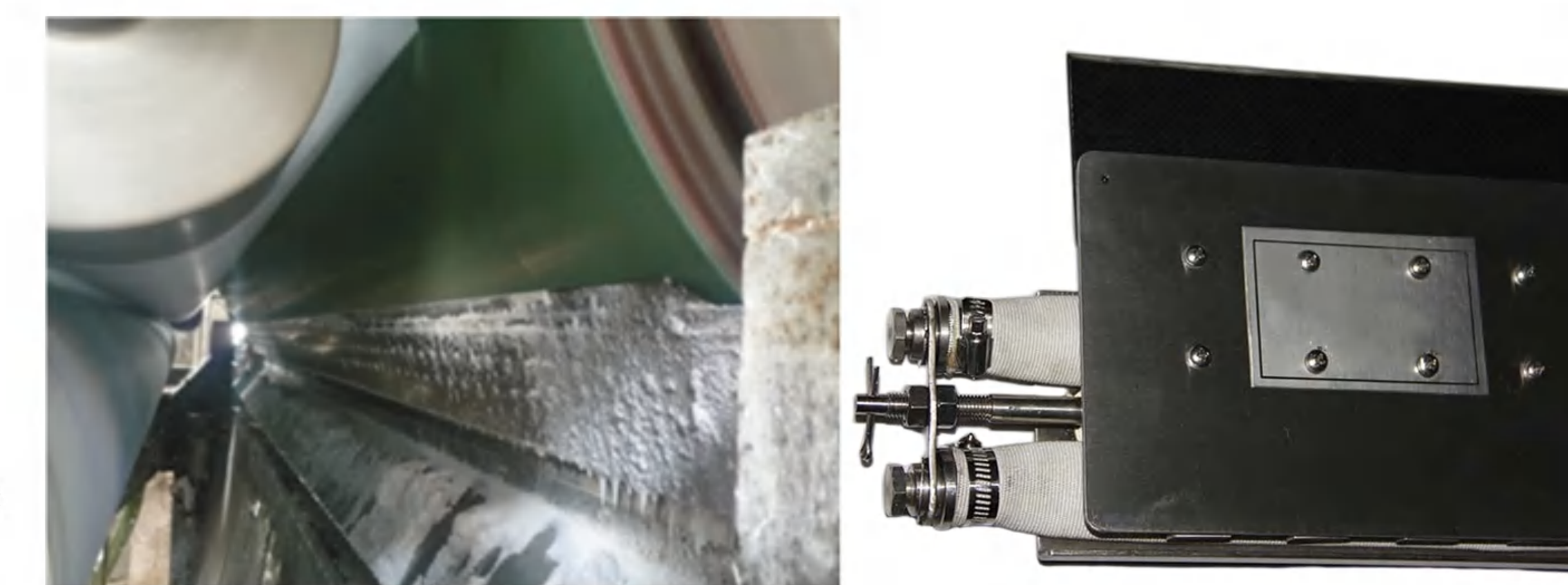
The shoe cover blade device is made of optimized carbon fiber material, with light weight, high strength, and consistent straightness. The blade is made of UHMW-PE material and has a pressure of 100N/M. Effectively squeezing out the upward water while minimizing the amount of water mist that rotates with the shoe rollers. Suitable for: The guide roller and shoe press roller only require a small space for maintenance and can be easily pulled out or pushed in.



### ——双气囊刮刀夹具 Double Air Tube Blade Holder

刮刀夹具通过气囊确保刮刀与辊面整个横幅压力接触都非常均匀一致，且无需手动校准刮刀架，防止刮伤辊子。均匀的横幅压力可保证较小刮刀压力有良好的清洁效果与使用普通刮刀夹相比，能有效减轻面及刮刀片的磨损。刮刀夹具压板选用特种不锈钢材料，经过淬火、调质、回火等工艺加工成型，上压板硬度和屈服强度在使用中突出两个优点。

The blade holder ensures that the pressure contact between the blade and the roller surface is very uniform and consistent throughout the entire width through an airbag, and there is no need to manually calibrate the blade frame to prevent scratching the roller. Uniform width pressure can ensure good cleaning effect with smaller blade pressure. Compared with using ordinary blade holder, it can effectively reduce the wear of the surface and doctor blades. The pressure plate of the blade holder is made of special stainless steel material, processed and formed through quenching, tempering, and other processes. The hardness and yield strength of the upper pressure plate are outstanding in use.



## ▶ 刮刀装置系统 Doctor Blade Device

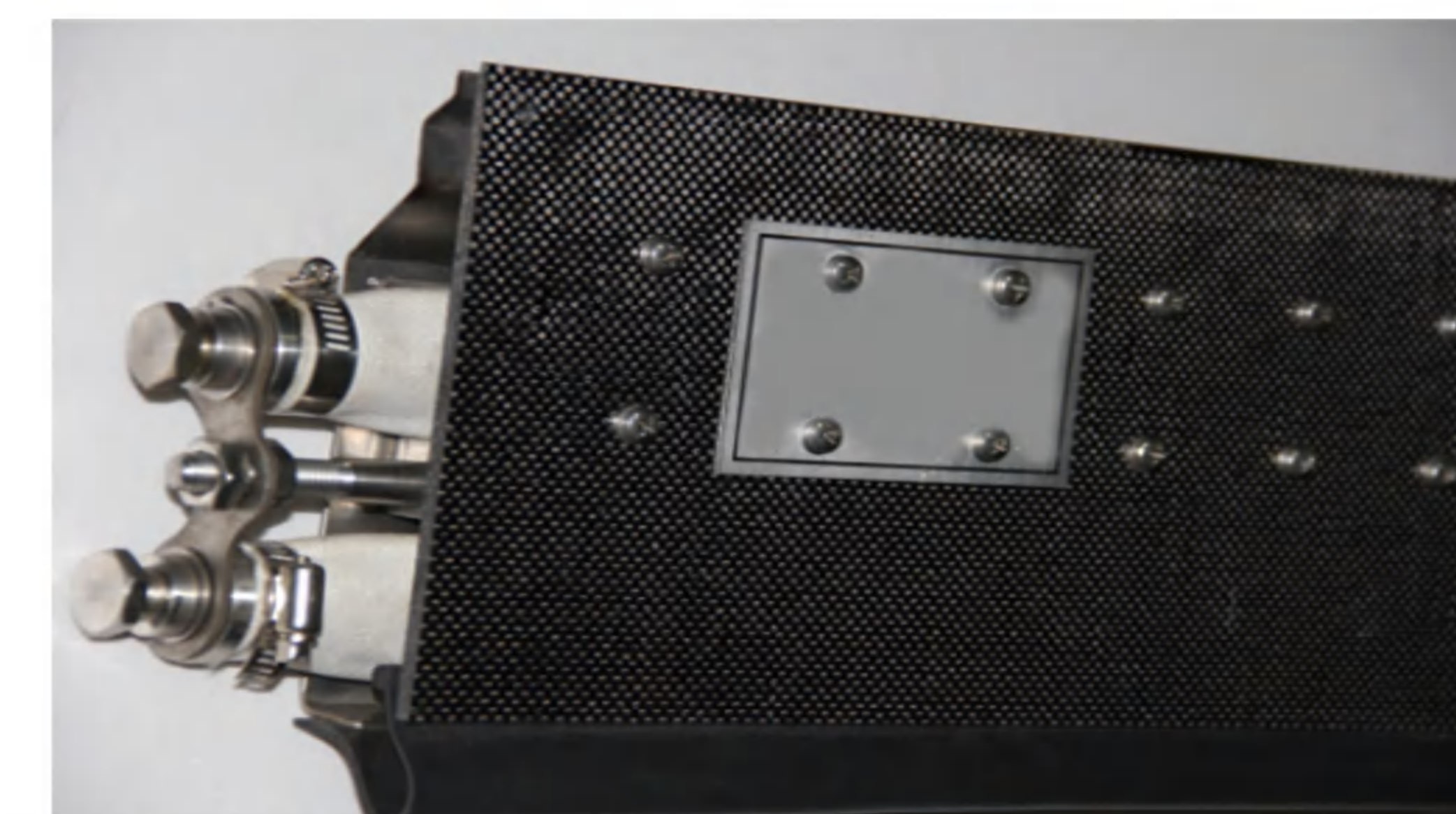
### ——双气囊碳纤维上压板刮刀夹 Carbon Fiber Blade Holder

上压板采用高强碳纤维材料，在使用中：

- (1)上压板在加压后保证刮刀片直线度，能和面完全结合。
- (2)上压板屈服强度较高，减少在使用中因刮刀片震动造成上压板断裂。

The upper pressing plate is made of high-strength carbon fiber material. During use:

- (1) The upper pressure plate ensures the straightness of the scraper blade after pressurization and can fully bond with the surface.
- (2) The yield strength of the upper pressure plate is relatively high, reducing the risk of upper pressure plate fracture caused by scraper blade vibration during use.



### ——K35 刮刀夹具 K35 Blade Holder

刮刀夹具的特点：

- 1.加压方式靠自重，一般靠手动抬刀及关闭，但是在某些重要场合，可以靠气缸远距离地调节线压、抬刀和加压。如纸机网部张紧辊刮刀、烘干部落纸缸刮刀。
- 2.通过微调螺栓，可以调节刀片的压力。

Features of blade holder:

1. Add pressure by weight; usually manually carry on and off. But in some important occasions, can rely on the distance cylinder to adjust the line pressure, raising blade and adding pressure. Such as tensioning roll in wire section of paper machine, dryer cylinder in dryer section.
2. Through fine-tuning bolt, you can adjust the pressure of the blade.

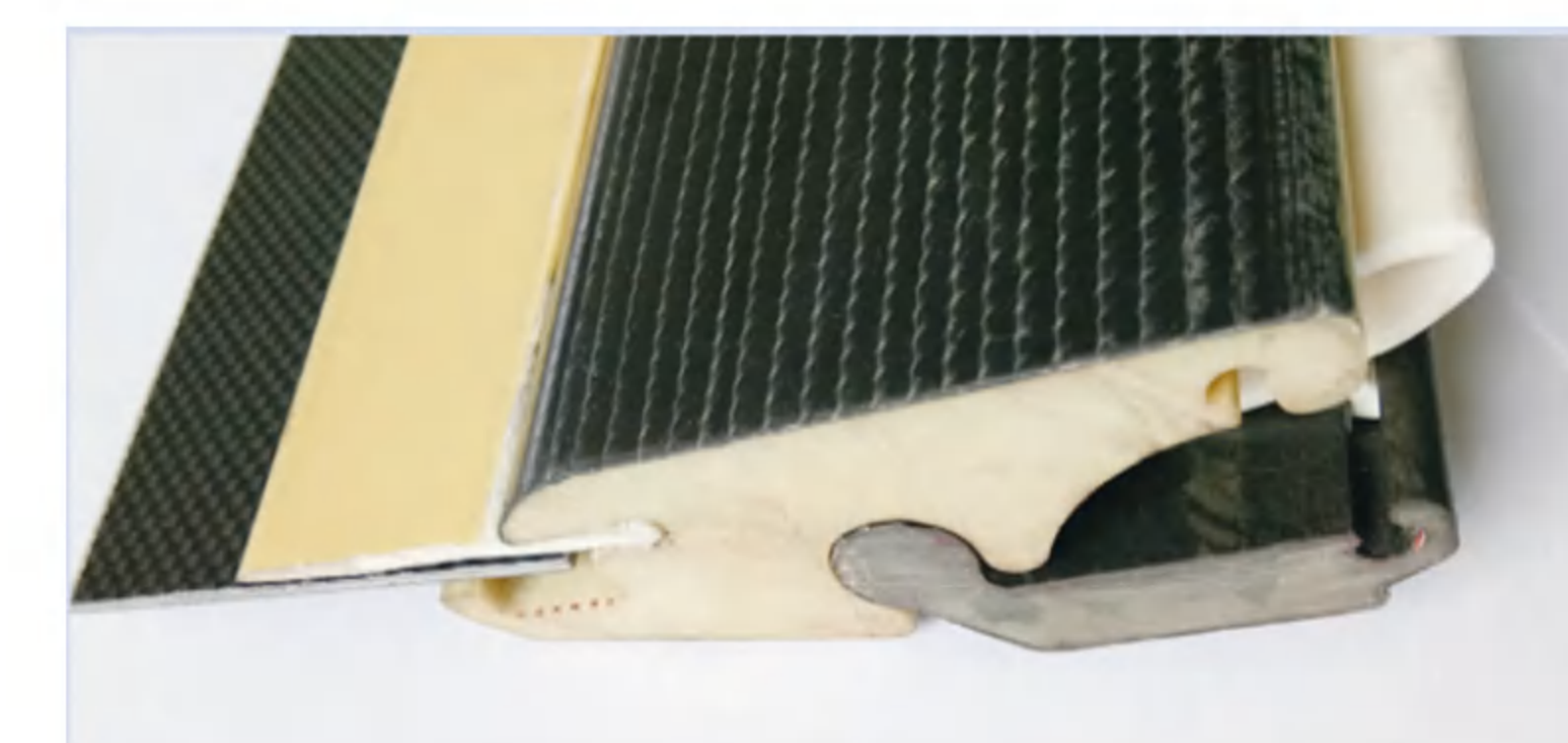


### ——单气囊碳纤维刮刀夹具 Single Air Tube Carbon Fiber Blade Holder

为满足客户生产的特殊需求，研发的碳纤维复合材料刮刀夹。这种刮刀夹具有持久耐用、重量轻、抗腐蚀等特性，可消除振动，保持辊面和缸面清洁，且易于安装和维护。结构简单是设计追求的目标，同样也意味着出现故障的部件较少。由于只使用一根软管实现加载和卸载两种功能，软管采用工厂组装，冷固定位，确保非常快速且无故障更换。只有一根软管意味着只需要一个连接气管，减少了安装的成本。刀夹表面平坦，可以安装引纸吹风管。

We have researched and developed the carbon fiber composite blade holder to meet the special needsof the customer. This kind of holder has characteristics of durable, light weight, corrosion-resistant, caneliminate vilbration, keeping the roll surface and cylinder surface clean and is easy to install and maintain.

Simple structure is the aim of design, also meansless faulty parts. Due to use only one hose to achieve two functions of load and unload, soft hose adopt factoryassembled, cold fixed, ensure fast and trouble-free replacement.Only one hose means that only one connection trachea, reducing thecost of installation. Holder surface is smooth, can be installed paper injection blow pipe.



## ▶ 刮刀装置系统 Doctor Blade Device



### ——气动摆动器 Pneumatic Swinger

气压摆动的应用：  
使用压缩空气使刮刀系统均匀摆动，消除刮刀在摆动中产生的振动和停滞，提高纸品质量，延长辊子使用寿命。

The application of air pressure swinger:  
Use compressed air to let the blade system swing uniformly eliminating the vibration and stagnation of blade during the swing process, to improve the quality of paper and extend the life of the roller.



### ——刮刀装置轴承座和专用轴承 Blade Device Bearing House & Speciality Bearing

- 使用于所有刮刀场合
- 在轴承维护之后减少了刮刀校正程序
- 提高摆动器性能
- 准确的刮刀水平度
- 改善整体刮除效果独特的设计，易于维护

Apply all blade occasions  
Reduce the blade calibration procedure after bearing maintenance  
Improve swinger performance  
Accurate level degree of blade  
Unique design to improve the overall scrape effect, easy to maintain



### ——刮刀角度仪 Blade Angle Instrument

设定和保持的刮刀片角度是最大限度提高刮刀性能的关键。刮刀角度仪是用来设置刮刀片和刮具的适当角度，用以提高刮刀性能。应用包括起皱，鼓式剥落，以及纸制品设备。

The key of improve maximize blade performance is set up and maintain the angle of the blade. The blade angle instrument is used to set the proper angle of the blade and blade holder to improve the performance of blade. Applications include creping, peeling drum and paper products equipment.



## ► 涂布刮刀 Coating Blade



质量是当今造纸涂布页的关键。刮刀边缘是影响涂布工艺的最后一道关卡。我们通过开发来生产一种能保持稳定质量的刮刀。涂布刮刀系列涂布(包括陶瓷涂布)刮刀就是我们努力的结果。我们生产的涂布刮刀超过一般刮刀两倍的使用寿命。

Quality is the key in the paper coating industry. The blade edge is the last hurdle of the coating process. We have developed and produced one kinds of blade which can remain stable auality.Our coating blade including the ceramic coating one is the result of our efforts. Our coating blade has more longer service life than other brand doctor blade.

### ——喷涂陶瓷涂布刮刀 Sprayed Ceramic Coating Blade

喷涂陶瓷涂层，对于高端产品用户来说使用性能最佳，抗磨损能力最强。  
Sprayed ceramic coating have a best use ability and strong wear-resistance for the high-end product users.

- |            |                                     |
|------------|-------------------------------------|
| -光滑的陶瓷表面   | Smooth ceramic surface              |
| -精良的陶瓷涂层技术 | Superior ceramic coating technology |
| -超强的耐磨特性   | Superlor wear-resistance            |
| -提高生产能力    | Increase production capacity        |
| -超长的刮刀使用寿命 | Long service life                   |



### ——涂布棒 Ceramic Coating Rod

我们开发的(Ceramic Coating Rod)刮棒喷陶瓷涂层，对于高端产品用户来说使用性能最佳，抗磨损能力最强。  
Our Ceramic Coating Rods developed in order to improve the base paper sizing and coating quality.With in-depth understanding of ceramics, we have developed scraping rod spray ceramic coating. It has excellent anti-wear ability and best using performance for users of high-end products.

- |                  |   |
|------------------|---|
| -提高生产能力          | Increase production capacity  |
| -超长的刮棒使用寿命       | Long service life   |
| -可靠的构件确保了最佳的运行性能 | Reliable constructional element, which ensures the best operation performance |



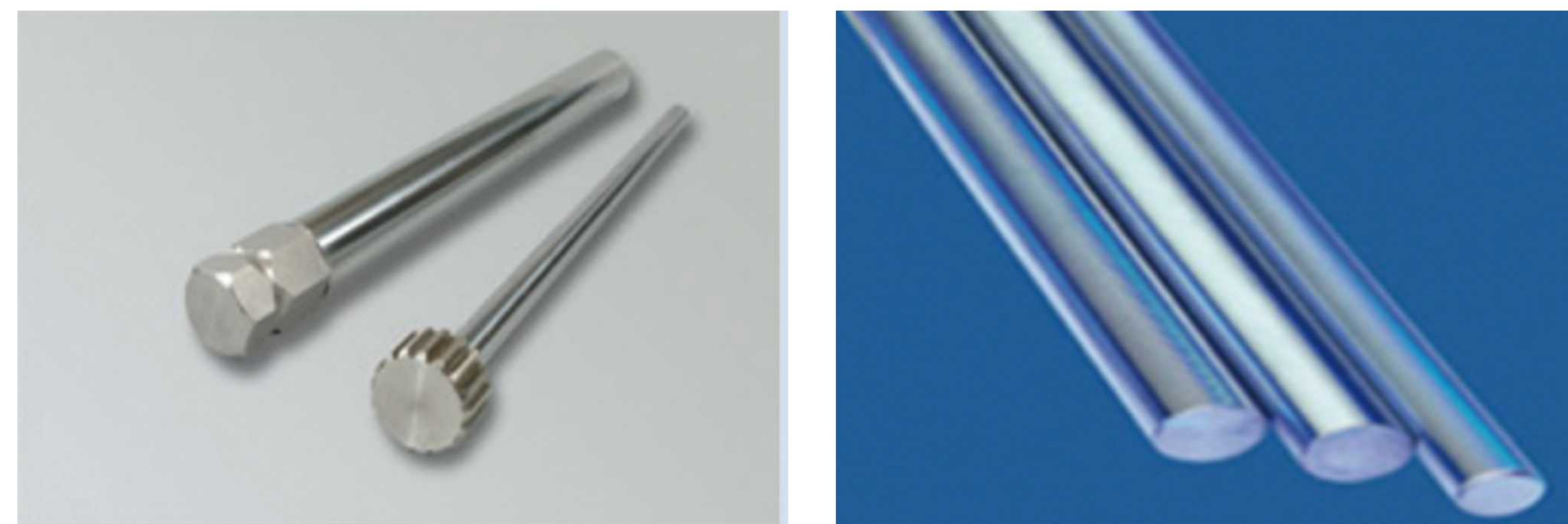
## ► 涂布刮刀 Coating Blade



### ——镀铬刮棒 Chrome Plated Spatula

产品为了提高原纸施胶和涂布质量而开发。  
In order to improve the quality of the base paper sizing and coating.

- |             |                              |
|-------------|------------------------------|
| -表面镀铬       | Chrome-faced                 |
| -光滑的或是沟纹的表面 | Smooth or grooved surface    |
| -超强的耐磨特性    | Superior wear-resistance     |
| -提高生产能力     | Increase production capacity |

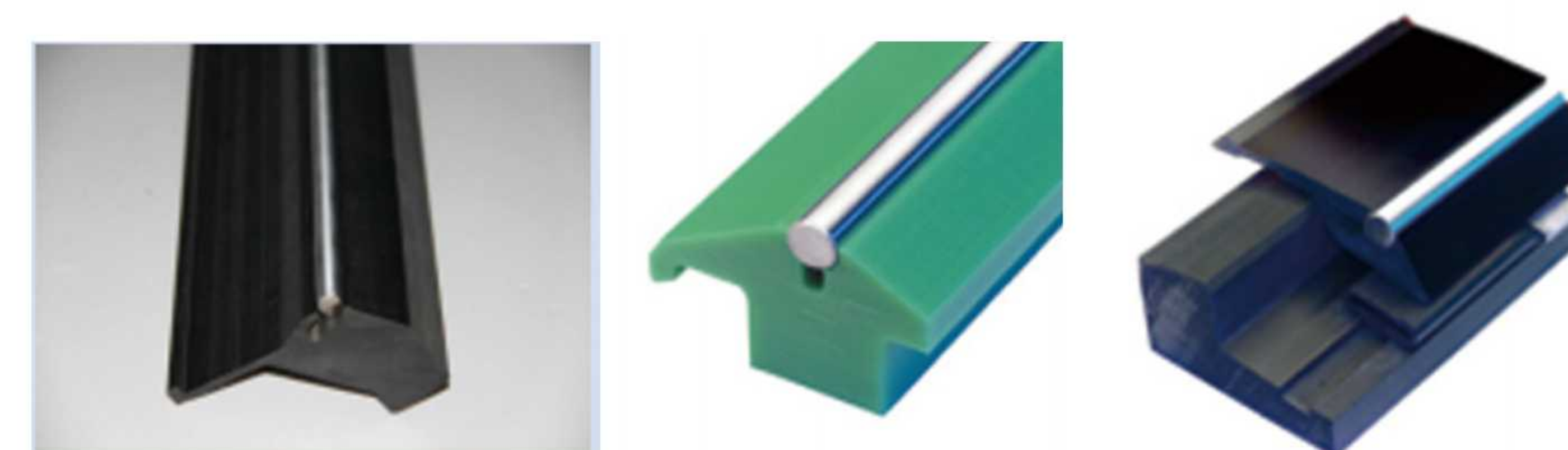


### ——计量棒座 Measure Bar Seat

超高分子量聚乙烯(UHMW)制品,提供性能卓越的超高分子量聚乙烯(UHMW-PE)计量棒座制品, 应用在各种规格计量棒产品, 可以根据客户要求加工。

Ultrahigh molecular weight polyethylene(UHMW) products provide ultra-high molecular weight polyethylene (UHMW-PE) metering rods of superior performance; apply in a variety of specifications according to customer requirements.

- |              |  |
|--------------|--|
| -优良的耐磨性      | Excellent abrasion resistance                  |
| -滑动质量非常好     | Very good slide quality                        |
| -低摩擦损失值      | Low friction loss values                       |
| -在高应力速率高能量吸收 | High-energy absorption in the high stress rate |
| -优异的耐化学性     | Excellent chemical resistance                  |



### ——传动轴和接头 Drive Axle and Joint

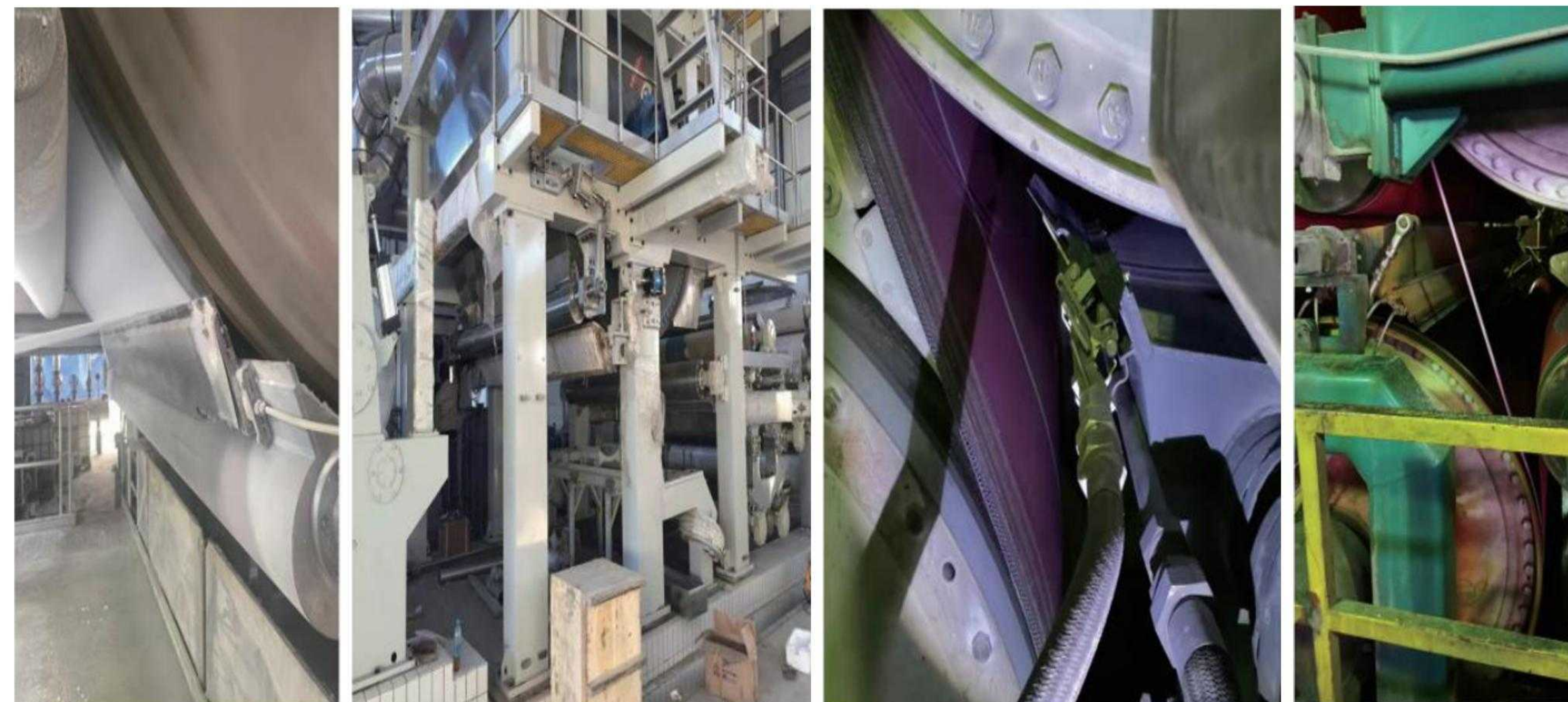
使用于各种直连传动的计量棒。  
Metering rods applying for a variety of direct-attached transmissions.



加工设备 Production Equipment



应用案例 Customer Application



Website: [www.sunhongpapertech.com](http://www.sunhongpapertech.com)

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