



辉龙过滤集团 HL filter Group



广德辉龙环保科技有限公司
GuangDe HL Environmental Technology Co., Ltd.

辉龙百年发展历程



20世纪初, 余氏家族在江浙地区,
从事传统过滤网的生产

1985年, 天台工厂投入使用

1994年, 成立广州龙辉龙滤网有限公司

1996年, 辉龙过滤上海办事处

1998年, 辉龙(香港)国际发展有限公司

2003年, 苏州辉龙净化过滤有限公司

2004年, 辉龙过滤天津办事处

2006年, 广州爱康尔过滤设备有限公司

2009年, 浙江天台辉龙大酒店

2012年, 辉龙过滤成都办事处

2013年, 广德辉龙环保科技有限公司

2014年, 辉龙过滤西安办事处

2015年, HL Filter Germany office

2016年, HL Filter (U.S.A) Co.,Ltd

2016年, 上海菲佐环保科技有限公司

公司简介 Company profile

辉龙过滤是一家专业从事烟气除尘及液体过滤的研发、设计、制造、销售与服务的高新技术企业;

辉龙过滤以东华大学、浙江大学、浙江工业大学化工材料研究院为技术依托,在净化、过滤领域不断进行基础性研究、拓展相关的业务领域。公司在引进先进生产设备的同时,大力引进、培养专业技术人才,雄厚的技术实力确保了辉龙产品卓越的品质。

广德辉龙环保科技有限公司隶属于**辉龙过滤集团**,创建于2013年8月,位于安徽省广德县,东临浙江湖州,北接江苏无锡,占地100亩,总投资1.5亿,目前主要从事滤料、布袋、龙骨、过滤器的研发、生产和销售,产品广泛运用于燃煤电厂、钢铁、筑路、石化、各种液体过滤及工业除尘领域。

辉龙过滤秉承“依靠科学技术、振兴民族工业、立民族志气、创世界品牌”的企业文化和“顾客至上,合作共赢”的服务理念。始终致力于过滤事业的持续发展,不断开拓,创新,进取,追求科技的顶峰。

HL Filtration is a high-tech enterprise that focus on study, design, manufacture, sales and service of dedusting and liquid filtration.

We continue improve our products and expand relevant business based on the corporation with universities such as Donghua University, Zhejiang University etc. We keep purchasing advanced equipment and training professional employee, which ensure the outstanding quality of HL products.

Guangde HL Environmental Protection Technology Co., Ltd. is one subsidiary of HL Group, founded in August 2013, located in Guangde, Anhui Province, at east of Huzhou City, Zhejiang Province, and at north of Wuxi City, Jiangsu Province. Covering an area of 100 mu, with a total investment of 150 million. Mainly study, produce and sales of filtration fabrics, filter bags, bag cages. These products are widely used in coal-fired power plants, steel, road building, petro-chemical, various liquid filtration and industrial dedusting.

HL Filtration adheres to the enterprise culture of "relying on science and technology, revitalizing national industry, setting up national ambition and creating world brand" and the service concept of "customer first, win-win situation". We are always committed to the continuous development of filtration, open, innovation, enterprising, and pursue the peak of science and technology.





什么使辉龙与众不同? Why HL?

企业荣誉 Company honors

专业的人才
 (致力于过滤行业三十年)
Professional talents
 (Committed to filtration industry for thirty years)

技术前瞻性
 (2015年成立东华大学研究生合作基地, 不断致力于新型滤料的研发)
Technical foresight (In 2015, Donghua University graduate students cooperative base was established in HL, which committed to the research and development of new filter media.)

整体解决方案
Overall solution.

专业化的定制服务团队
 (售前服务, 现场选型, 定制加工, 安装)
Professional team for customization service
 (pre-sale service, on-site selection, customization, installation).

遍布全球的销售与技术服务网络, 专业及时的为客户解答
Worldwide sales and technical services network, professional and timely solutions for customers.

先进的制造与检验设备
Advanced manufacturing and inspection equipments.

社会责任, 积极参与公益事业
Social responsibility and care public welfare

企业文化与团队建设 (辉龙早操 / 辉龙之歌 / 辉龙季刊 / 户外拓展 / 培训)
Corporate culture and team building
 (HL morning exercises / songs of the HL / HL Quarterly / Outdoor Development / training)



滤料生产线 Needle punched felt producing line

广德辉龙环保配备先进的滤料生产线，每条产线年产滤料近300万平方米。多台开包机使得滤料可以设计不同纤维配比，使滤料性能差异化来适应不同工况；双梳理双铺网可以制备梯度滤料，表层采用超细纤维达到高的拦截效率，底层采用高旦纤维支撑，使滤料达到高效低阻的效果。高速铺网机可铺设250-1000g滤料，通过系列高频针刺机针刺可以达到理想的针刺密度，可生产各种常温滤料、高温滤料。

HL filter equipped with advanced production lines which can produce 3 million square meters of filtration fabric each line. Due to our 4 unpacking machines and double cross-lapping machine we can design the filter with different fiber mix or layer according to the final use. The gradient filter made by super fine fiber in the surface and supported by normal fine fiber below, which makes the filter with a high efficiency and low pressure drop. We can produce variety types of room-temperature filter and high-temperature filter with grams between 250 to 1000 by our high-speed laying machine and a series of high-frequency needle-punched machine.



开包机
Unpacking machine



梳理机
Carding machine



铺网机
Lapping machine



针刺机
Needle-punched machine

滤料后整理 Finishing

滤料的后处理至关重要，滤料热定型温度一般高于使用温度30度，并介于材料玻璃化温度与软化温度之间。热定型赋予滤料在使用过程中的尺寸稳定性并可消除材料应力，烧毛压光使得滤料表面光滑，易于清灰。功能性整理赋予滤料特殊的性能，如防水防油整理、耐酸碱整理、抗腐蚀整理、热覆膜等。

The heat setting temperature of the filter fabric is between the glass transition temperature and softening temperature of the material and usually 30 degrees higher than its working temperature, the heating process can make the size of filter stability during using. Singeing and calendaring make the surface of filter smoothly and easy for dust clean. Other functional finishing treatment can give filter special characters such as water-proof and oil-proof finishing, acid-alkali-resistant finishing, anti-corrosion finishing, heat-covered membrane etc.



热定型
Heat setting



烧毛压光机
Singeing and calendaring

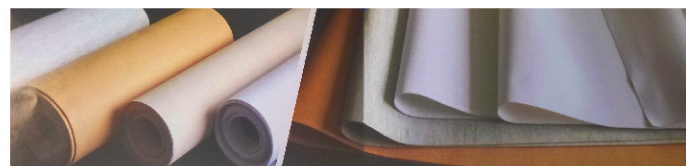


分切
Cutting and winding

常温滤料 Room-temperature needle punched felt



常温滤料
Room-temperature needle punched felt



高温滤料
High-temperature needle punched felt

我司生产的常温滤料有涤纶针刺毡、丙纶针刺毡、亚克力针刺毡、覆膜针刺毡、抗静电针刺毡、拒水防油针刺毡等。产品耐磨、耐折、透气性好，是高效的常温过滤材料，广泛应用于钢铁、水泥、化工、食品加工等行业。

We produce polyester felt, polypropylene felt, acrylic felt, membrane felt, anti-static felt, water repellent and oil-proof felt etc, these felt can be used in room temperature situation. Due to their excellent performance of wear-resistant, fold-resistant and good permeability are widely used in iron and steel, cement, chemical, food processing and other industries.

品名 name	克重 Weight(g/m ²)	厚度 Thickness (mm)	透气量 Air permeability (m ³ /m ² .min)	耐温 Working temperature(°C)		热收缩率 Thermal Shrinkage(%)	
				连续 Continuous	瞬间 Peak	经向 Warp	纬向 Weft
涤纶针刺毡 Polyester felt	400-700	1.7-2.6	8-20	130	150	≤1	≤1.5
丙纶针刺毡 Polypropylene felt	300-800	1.5-2.8	8-20	90	110	≤1	≤1.5
亚克力针刺毡 Acrylic felt	400-600	1.8-2.6	8-20	125	145	≤1	≤1.5
常温覆膜针刺毡 PTFE membrane felt	350-800	1.5-2.8	3-5	120	150	≤1	≤1.5

高温滤料 High-temperature needle punched felt

我司生产的高温滤料有PPS针刺毡、芳纶针刺毡、玻纤复合针刺毡、PTFE针刺毡、P84针刺毡、NOMEX针刺毡等。高温针刺毡采用耐高温化纤材料针刺而成，并经定型、烧毛、轧光等后处理。使用温度可达160-280°C，是一种高效的过滤材料，耐曲挠、耐磨性好，容尘较少、清灰效果好，根据不同的种类具有耐酸碱、抗水解等优良性能。

Our products of high temperature felt are PPS felt, aramid felt, glass fiber composite felt, P84 felt etc. These felts are made from high temperature resistant fiber. The using temperature can be 180 °C to 260 °C. These high efficiency felts with a good abrasion resistance and corrosion resistance, it is also good for dust remove. Based on different kinds of filter material, the felt has excellent properties such as acid and alkali resistance, hydrolysis resistance etc.

品名 name	克重 Weight(g/m ²)	厚度 Thickness (mm)	透气量 Air permeability (m ³ /m ² .min)	耐温 Working temperature(°C)		热收缩率 Thermal Shrinkage(%)	
				连续 Continuous	瞬间 Peak	经向 Warp	纬向 Weft
PPS针刺毡 PPS felt	400-650	1.5-2.2	8-20	160	190	≤1	≤1.5
P84针刺毡 P84 felt	500-600	2.0-2.4	8-20	220	260	≤1	≤1.5
PTFE覆膜针刺毡 PTFE membrane felt	700-850	0.8-1.2	3-5	260	280	≤1	≤1.5
芳纶针刺毡 Aramid felt	400-550	1.8-2.4	8-20	200	220	≤1	≤1.5
NOMEX针刺毡 NOMEX felt	400-550	1.8-2.4	8-20	204	240	≤1	≤1.5
玻纤复合针刺毡 Fiberglass compound felt	850-950	2.2-2.8	10-25	260	280	≤1	≤1.5

高温滤料纤维性能: Performance of High-temperature fiber

性能指标items 滤料名称name	使用温度 working temperature (°C)	力学性能 mechanical property		化学稳定性 chemical stability					水介稳定性 Water dielectric stability	阻燃性 fire resistance
		抗磨 wear resistance	抗折 Flexural resistance	无机酸 inorganic acid	有机酸 organic acid	碱 alkali	氟化剂 HF	有机溶剂 organic solvent		
NOMEX	204	1	1	3	2	3	2	2	3	1
芳纶 Aramid	200	1	1	3	2	3	2	2	3	1
P84	260	2	2	2	1	2	2	1	2	1
PPS	160	2	2	1	1	2	4	1	1	1
PTFE	260	3	3	1	1	1	1	1	1	1
无碱玻璃纤维 Alkali free fiberglass	200-300	2	4	3	3	4	4	2	1	1
高强超细玻纤 High strength ultrafine glass fiber	200-300	2	3	3	3	4	4	2	1	1

注: 1,2,3,4表示优劣顺序, 1为最佳, 4为最差

Note: 1 / 2 / 3 / 4 stand for the order of fiber performance, 1 is the best and 4 is the worst.

滤袋生产线 Producing line of filter bag

我司配备热熔、线缝全自动缝合线，可年产滤袋300万条。齐全的生产设备可以生产常规圆形滤袋、扁袋、褶皱滤袋及异形袋，对于热熔性滤料我司均采用热熔缝合，包括覆膜滤料，线缝滤袋针孔可以做密封处理，减少泄漏从而达到超低排放。

Our company equipped with welding and stitching line for filter bag produce, we can produce 3milions filter bag each year. The complete production equipments can produce conventional round filter bag, flat bag and special-shapes bag. We produce filter bag with welding technology for thermoplastic materials, including membrane felts. The needle hole of filter bag can be sealed with special PTFE tape, which can reduce the leakage to meet strictly emission requirements.



全自动热熔、线缝生产线
Automatic production line



生产工位
Production station



自动裁底机
Automatic bottom cutting machine



自动裁钢带机
Automatic snap ring cutting machine



圆形滤袋 Round shape filter bag

圆形滤袋是最常用的滤袋形式，广泛应用于电力、化工、钢铁、水泥等行业

Round shape filter bag is the most commonly type of filter bag, which is widely used in power, chemical, steel, cement and other industries.



扁滤袋 Flat filter bag

扁滤袋常用于沥青搅拌、食品加工等行业；我司生产的沥青搅拌专用除尘袋，被三一重工等知名企业广泛使用

Flat filter bag is usually used in asphalt mixing, food processing and other industries. Our special designed products for asphalt mixing, which is widely used by some well-known enterprises such as SANY.



针孔密封滤袋 Pinhole sealed filter bag

针对目前日趋严格的环保要求，我司开发生产的全密封滤袋可以是可以达到超低排放要求。

As the increasingly stringent environmental protection requirements, the fully sealed filter bag developed and produced by our company can meet the requirement of ultra low emission.

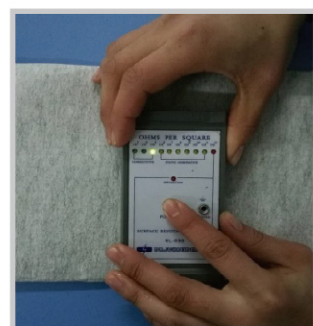


褶皱滤袋 Pleated filter bag

褶皱滤袋由于高的过滤面积，使得在相同的过滤面积下，它的体积更小，广泛应用于需要超低排放或需要改造的场合。

Due to its high surface ratio, the pleated filter bag is smaller than normal filter bag at same filtration areas, is widely used in ultra low emission required situations or where there needs a reform.

检测与包装 Testing and packaging



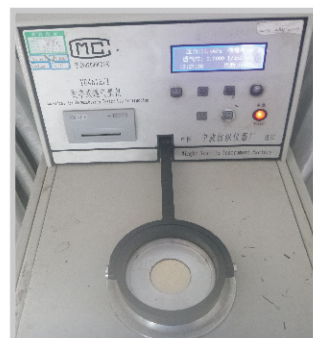
滤料防静电性能测试
Anti-static test



滤料强力测试
Tensile strength test



滤料克重测试
GSM test



滤料透气性能测试
Air permeability test



滤料厚度测试
Thickness test



滤料热收缩测试
Thermal shrinkage Test



成品包装 Packaging

我司严格按照相关标准对滤料和滤袋进行全面检验，确保产品质量。滤袋成品采用防水包装，确保货物的安全运输。

We checked our products strictly according to the relevant standards of felts and bags which ensure the products quality meet customer's requests. The filter bag is well protected during its shipping because of our waterproof packaging.

龙骨 Bag cage

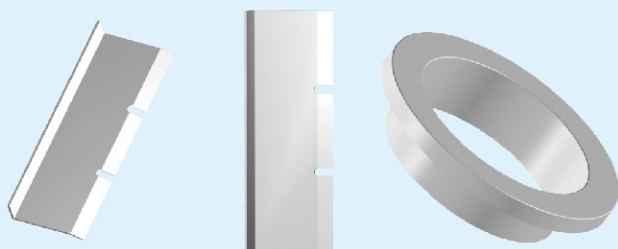


辉龙拥有成套的龙骨焊接设备，特别定制的后处理喷涂线，可以提供种类繁多质量上乘的龙骨产品。龙骨的形状、大小、材质、后处理、头盖等根据使用场合不同而各不相同，辉龙龙骨的设计和制作根据具体的使用工况和除尘袋尺寸，使得生产的龙骨完全满足客户要求，达到最佳的配套效果。通常的龙骨形状有：圆形、椭圆形、菱形、星型等，由于辉龙完备的自动生产线，我们能够根据客户要求生产不同形式的龙骨。

Thanks to our automatic welding system and special designed coating line, we can provide our customers different types of bag cage with high quality. The shapes, sizes, materials, finishing treatments, holder basket etc. of bag cage are different according to different applications, we design and produce bag cages by final use and the size of filter bag or Customer's specifications, which makes HL products meet customer's requirements perfectly. The shapes of bag cages are usually round, oval, diamond, star, etc. Due to our specialized produce line we can make bag cages various type and size according to the requirements of our customers.

龙骨外形 Shapes of bag cage

	圆形 8,10,12,16,20,24根筋 Round shapes 8,10,12,16,20,24wires
	椭圆形和菱形 6,8,10根筋 Oval and diamond shapes 6,8,10wires
	星形 6,8根筋 Star shapes 6,8wires

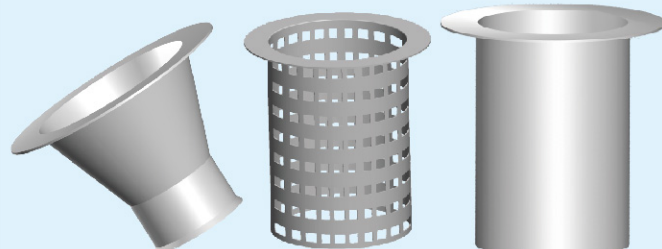


头盖

对于不同的行业往往采用不同类型的头盖，辉龙公司多年的行业经验足够满足大多数不同的行业要求。

Collars

With years experience HL can covers the needs of most application and industries about different types of Collar.

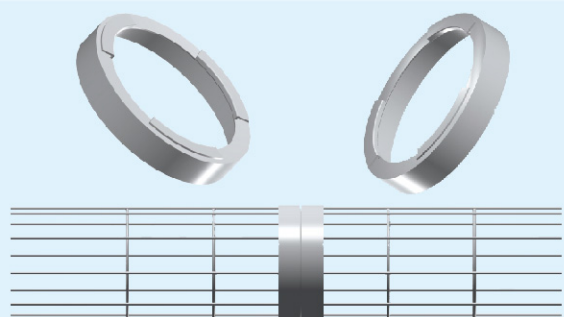


文氏管

文氏管具有保护滤袋和增强滤袋清灰的效果，它具有非常多的类型，我们的行业经验可以帮助客户选择最合适的文氏管。

Venturi

Venturi has a good effect both at bag protection and dust cleaning; we can choose best size and shape for our customers from dozens types of Venturi.

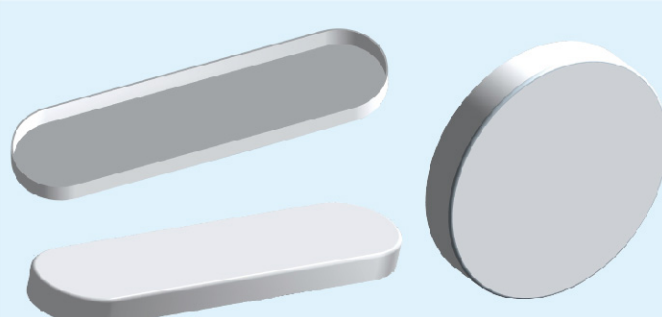


链接

为了方便运输和安装，需要将龙骨做成分节式，我们具有多种连接方案可供客户选择。

Joint systems

There is enough choice for our customers to decide how the cage joint, in order to easy shipping and installation.



底盖

底盖的形状一般和龙骨形式一致，大部分是标准产品，但我们也可以根据客户要求特别定制。

Bottoms

Most bottoms are standard products and with the same type of cage body, we can also produce what our customer's requests.

辉龙可以根据客户要求提供各种类型的龙骨，上面是一些典型龙骨配件。包括不同类型的头盖、文氏管和保护套管、链接方式和底盖。圆形头盖是最常用的，还有一些特殊形式的头盖或底盖，我们可以特别定制。对于长度在6-8m的龙骨我们时常需要做成分节式龙骨，通常为2-3节，这样可以方便运输和安装。针对客户不同的要求，我们提供最佳的解决方案。

HL can provide various type of bag cage to meet customer's requirement, there are some typical components of bag cage above, including Collars, Venturis, Joint systems and Bottoms. Round shapes of Collars is most widely used in this filed, we can also customized some special types of Collars. We need design to 2-3 sections of cage when its length is 6-8m, which can makes shipment and installation more easily. HL is able to select a best solution to meet the diverse needs from customers.

材料 Material

碳钢 Carbon steel	
不锈钢 Stainless steel	
镀锌钢丝 Galvanized steel	
彩锌钢丝 Color-zinc plating steel	

不同的应用所使用的材料不同，他们各有优点。我们可以根据客户要求选择材料，或者采用我们推荐的材料。我们特别定制的喷涂线可以赋予普通碳钢材料优秀的防护性能，使其能够胜任恶劣工况，而镀锌钢丝、不锈钢钢丝、镀锌彩锌钢丝本身就具有优异的耐腐蚀性能，不需要涂层处理。这些材料通常的使用温度如下：

Different material have different performance in their final use, we can choose those materials for our customers based on the applications or by the requirements from customers. Our special designed coating line can made common carbon steel with good performance against corrosion. Stainless steel, galvanized steel, color-zinc plating steel can protect them from corrosion by themselves; these materials usually can be used under:

不锈钢 Stainless steel	≤500°C
碳钢 Carbon steel	≤200°C
镀锌钢丝和彩锌钢丝 Galvanized steel & Color-zinc plating steel	≤450°C

喷涂线 Coating line





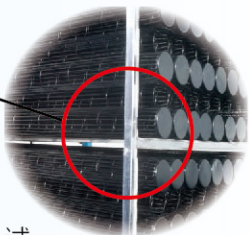
我们严格按照产品要求和标准进行检验，得益于标准的检验流程，辉龙的产品质量可控，顾客信任。我们采用优质的镀锌方管作为框架材料，柔软的织物内衬，保证货物可靠运输没有损伤。

We checked the products strictly according to products requirements and related standards. Thanks to our standard procedure of quality control, the products' quality is trust by our customers. The shipping frame made by galvanized square tube with soft fabric inside, which ensure the cargo secure and without damage during shipping.



垂直测试台
Verticality test platform

可靠的框架
Reliable frame



涂膜厚度测试
Coating thickness test



250N拉力焊接牢固度测试
Welding strength test under 250N

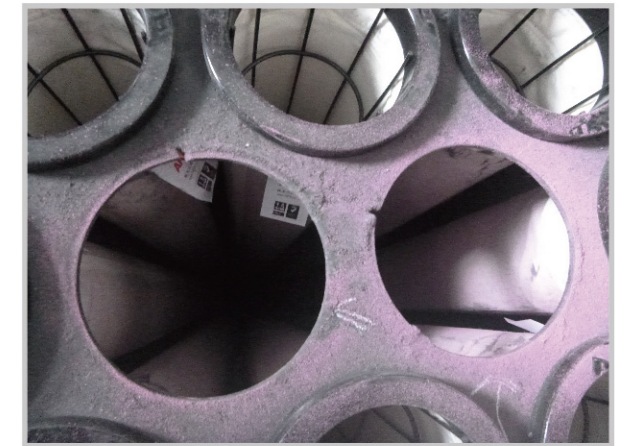


服务案例 After sales service

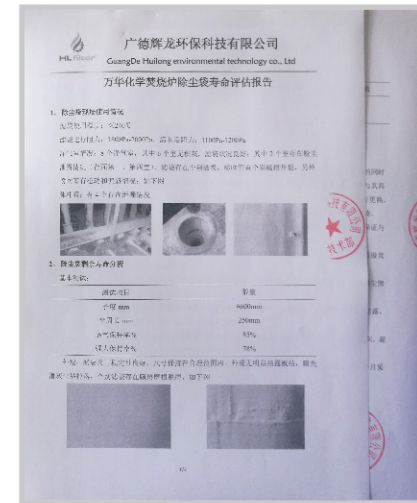
现场安装 Installation



烟气检测，荧光粉检漏 Analysis of exhaust gas and leak test



寿命评估与检修 Using life analysis and filter bag examine



行业应用 Application



各行业领域企业客户的首选

The preferred choice of business customers in various industries



合作伙伴 Customers

