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移动式单机滤筒除尘器 MOBILE CARTRIDGE DUST COLLECTOR



吸气罩吸收的焊接烟尘通过吸气臂进入过滤单元内部，首先撞击分流板，改变气流方向，使气流向上流动，这样可避免直接冲击滤芯，也得到了循环，大颗粒的粉尘被过滤筒收集前先分离出来，细小颗粒经过有PTFE薄膜的过滤筒过滤分离，过滤后干净的空气通过消声排入外界，完成过滤的全过程。带有PTFE薄膜的过滤筒分离的烟尘颗粒，在脉冲反吹作用下，粉尘落入粉尘容器，进行收集。

RH型焊接烟尘净化器，滤筒材质采用高精度PTFE覆膜材料，这种滤材可以确保滤筒的清灰效果及长久的使用寿命，采用高效滤筒式过滤方式达到国家规定的室内排放6mg的标准，是一种全新的净化设备。

此型号焊接烟尘净化设备与镀锌管道、吸气臂或吸气罩连接组成焊接烟尘净化系统，可用于多个工位焊接、焊接专机、激光切割、等离子切割烟尘的净化处理。

The harmful substance in the smoke caused in the process of welding and relative arts and crafts :gaseous toxic and harmful substance such as CO , NO_2 , nitric oxide;copper,aluminium and zinc which exist as the smoke in the air;graininess harmful substance such as Fe_2O_3 , aluminium oxide,fluoride,Barium compounds,chromium compounds,nickel oxide,cadmium oxide,cadmium oxide,chromium hemitrioxide and dioxide thorium and so on;carcinogen such as nickel oxides,Cr Oxide and so on;radioactive substance.only the clean air which through the welding smoke cleaner and in accordance with the country safe environment protection department emission standard can be discharged to the workshop or other working places.

Filtration principle:welding smoke absorbed by capturing hood enters into the filter through the capture arms,impact the splitter plate firstly,changes the airflow destination,upwards the airflow,and gets cycle in order to avoid impacting the filter element directly.Big dust particles are divided before collected by filter cartridge,at the same time,the fine dust is separated by membrane filter cartridge,then the clean air is eliminated to the outside through the muffler.That is the total filtration process.The smoke particles divided through filter cartridge fall into the container and are collected under the pulsing effect.

RH model welding smoke catcher,for filter media,we adopt the high precisin PTFE membrane.This kind of filter media can ensure the cleaning effect and long lifespan.Adopting the high filtration efficiency reaches the national standard that requires indoor emission must be 6mg,and it bran-new cleaning equipment.

This welding smoke cleaner system consists of welding smoke cleaner and galvanized pipe,source capture arm of source capture cover,which can be used in the cleaning treatment of the welding station,laser cutting,plasma cutting smoke.

横装式滤筒除尘器 HORIZONTAL CARTRIDGE DUST COLLECTOR

含尘气体在风机的引导下进入除尘器后，由于气流端面的突然扩大及气流分布板的作用，气流中一部分颗粒粗大的尘粒在重力和惯性力的作用下，沉降到底斗；粒度细、密度小的尘粒进入过滤室，通过布朗扩散和纤维拦截等综合效应，使粉尘沉积在滤筒的滤料表面，净化后的气体进入净气室内，由出风口经风机排出。滤筒除尘器的阻力随着滤筒的表面面积增加而变大，当阻力达到一定的设定值时，通过反吹系统脉冲阀喷射吹管的小孔，喷射出一股高速高压气流，进行清灰。此时PLC程序控制脉冲阀的启闭，当脉冲阀开启时，气包内的压缩空气通过文氏里管的扩充，均匀的进入滤筒内部，在滤筒内部形成瞬间的正压，产生巨大的震动，使沉积在滤料上的粉尘脱落，掉入灰斗内，收集的粉尘通过卸灰阀，排出到灰筒内。

最上排滤筒会首先脉冲反吹，然后控制仪选择下排重复脉冲反吹过程。此后此控制仪会顺序继续选择其他滤筒进行脉冲反吹操作。

Dirty air access to the dust collector under the lead of the fan, then the bigger dust particle sink into the hopper for the sake of gravity. The superfine, low density stick on the filter cartridge surface, then the pulse cleaning system shake the dust on the filter media. The filtered clean air will enter into clean room, and then exhaust through the outlet. The resistance of the dust collector will be increased with the filter area increasing, when the resistance reach the set value, then the tube of the solenoid valve will send out high speed high pressure flow to do dust cleaning work. The PLC controls the solenoid valve on/off. When the solenoid valves opened, the air will go into the filter cartridge by the means of venturi guide function and come into being instant positive pressure to shake the dust on the filter cartridge to drop into the hopper, then down into the dust bin by controlling the discharge valve.

The topmost filter cartridges will start the pulse work firstly, then the controller choose lower line of filter cartridges to do the pulse work line by line.



竖装式滤筒除尘器 VERTICAL CARTRIDGE DUST COLLECTOR

竖装式滤筒除尘器将含尘空气通过入口进入除尘器内，大颗粒尘埃在重力的作用下，自然沉降到下料斗内，而小颗粒尘埃吸附在滤筒的外表面，在反吹力的作用下，沉降到下料斗内，然后自然进入收料装置内。

Vertical cartridge dust collector intakes the dirty air into the dust collector through inlet, big dust particle will sink into the hopper for the sake of gravity while the small dust particle stick on the filter media surface, then under the pulse reverse blow function, sink into the hopper, then into the dust bin.



性能特点 FEATURES

- 由于其核心过滤元件为槽式高效滤筒，因此，同布袋除尘器相比，大大地节约了空间；
- 独特的设计，使除尘器使用效率高，压损低，大大地节约能源；
- 安装、保养不必进入机体内，缩短了停车时间，气包上配置调压过滤器，提高喷吹气体的质量，配备了爬梯，平台及护栏，使得维护更方便；
- 竖装式设计更加容易清洗；
- 特有的侧开门式，便于滤筒维护保养；
- 特殊的文氏管设计，有效吸引大量空气足以将粉尘震落，清洗效果达到最佳；
- 可选卡盘式安装：人员在机体外拆装，无二次污染独特的凸轮杆滑轨锁定装置，使过滤器可由机外推入并自动定位。
- Since the core filter element is pleated high efficient filter cartridge, compared to the bag house, it saves much room.
- Unique design makes the dust collector more efficient, pressure drop lower, and save lots of energy.
- It is unnecessary to go inside of the dust collector to replace the filter elements, and shorten the shut down time. There is pressure valve on the air manifold to improve the compressed air quality, also there is ladder, platform, and shelter, the access door to make the maintenance convenient.
- Vertical design makes the dust cleaning easier
- Special Venturi design leads large volume enough air to shake the dust so the pulse cleaning efficiency reaches the best condition.
- Square Cap loaded (Optional): Installation and discharge carried out outside the dust collector. Poles make the filters can be pulled in and out easily.

布袋改造式滤筒除尘器 BAG HOUSE MODIFICATION- CARTNIDGE DUST COLLECTOR

在传统的工艺工程中，如物料的输送系统、回风系统、混料系统、集料系统等，布袋除尘器系统应用更多、更广泛，但由于布袋除尘器占地空间大、过滤效率低、更换频繁且不方便、系统能耗高，都是制约其发展的因素，我公司根据实际工况，开发出各种不同规格的滤筒，替代不同规格的滤袋。

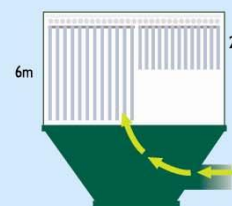
In some industries, such as cement, steel industry, bag house is widely used. But bag house occupy large room, its filter efficiency low, replacement is frequent and inconvenient, high energy consumption which has been a problem for those industries, too. According to actual application, Renhe Co. develops different specification filter cartridge to replace bag filters.



性能特点 FEATURES

- 结构紧凑，节省占地空间；
- 滤筒采用一体化设计，密封性能好，方便安装更换，缩短停车时间；
- 滤筒备件采用表面过滤，过滤效率高；
- 可以适用于多种工况，对粉尘浓度偏大的行业特别适用；
- 清灰彻底，不积灰；
- 与滤袋除尘器相比，滤筒除尘器的结构简单，过滤面积显著提高，可增大过滤面积2.5~3倍左右，过滤效率高；与其他滤筒除尘器相比，其粉尘浓度适用性非常好。
- Compact structure, save room.
- Filter cartridge: Good sealness performance.
- Surface filtration, high filter efficiency.
- Widely applied for different working environment, especially for heavy dust concentration industry.
- Dust cleaning fully.
- Compared to bag house, cartridge dust collector's structure is simpler. Filter area increased by 2.5-3 times, high filter efficiency.

滤筒除尘器与传统的布袋除尘器的性能对比 CAMPANISON BETWEEN CARTRIDGE DUST COLLECTOR AND TRADITIONAL BAG HOUSE



- 有效过滤面积提高了2~3倍；
- 降低了压差，提高了处理风量；
- 降低了气布比，有效的提高了过滤效率；
- 脉冲反吹系统工作效率提高，节省能耗；
- 滤筒元件变短变少，有利于安装；
- 文氏管、龙骨免除，结构简单；
- 大大提升了除尘备件的使用寿命，降低设备的停机次数。
- The filter area increased by 2-3 times.
- Lower pressure drop, and improve air flow.
- Lower cloth ratio, improve the filter efficiency a lot.
- Working efficiency has been improved by the pulse anti blowing, which help save enery.
- Filter elements becomes shorter and less, which do good to the installation.
- No Venturi, cage, structure is simpler.
- Prolong the service life of the filter elements, decrease the shut down times.

滤筒安装方式

FILTER CARTRIDGE LOADED METHODS

锥形和圆形滤筒 CONICAL AND CYLINDRICAL FILTER CARTRIDGE



- ◎ 宽褶皱设计
- ◎ 进出风面都有开孔率 > 72% 的金属网防护，安全的支撑，且不影响流量；
- ◎ 滤材采用精细纤维和含有树脂的纤维制成；
- ◎ 特定的加工工艺，防止滤材过度错位；
- ◎ 特殊的滤材固定，使滤材不与金属护网摩擦；
- ◎ 高效过滤；
- ◎ 大通风量设计；
- ◎ 顶部开口，底部开口/底部封底，带减缩安装孔；
- ◎ 镀锌防锈金属结构件；
- ◎ 橡胶密封。



- ◎ Wide pleat depth.
- ◎ Inner & Outer Liner.
- ◎ Filter Media: Superfine fiber and fiber contains resin.
- ◎ Special manufacture technical to prevent filter media from extremely move.
- ◎ Special filter media fix to keep filter media and metal liner from crossing each other.
- ◎ High filter efficiency.
- ◎ Large air flow.
- ◎ Top open, bottom close with hole.
- ◎ Galvanized anti-corrosion metal construction.
- ◎ Rubber gasket .

圆柱 CYLINDRICAL



- ◎ 宽褶皱设计
- ◎ 进出风面都有开孔率 > 72% 的金属网防护，安全的支撑，且不影响流量；
- ◎ 滤材采用精细纤维和含有树脂的纤维制成；
- ◎ 特定的加工工艺，防止滤材过度错位；
- ◎ 特殊的滤材固定，使滤材不与金属护网摩擦；
- ◎ 高效过滤；
- ◎ 大通风量设计；
- ◎ 顶部开口，底部开口/底部封底，带减缩安装孔；
- ◎ 镀锌防锈金属结构件；
- ◎ 橡胶密封。
- ◎ Wide pleat depth.
- ◎ Inner & Outer Liner.
- ◎ Filter Media: Superfine fiber and fiber contains resin.
- ◎ Special manufacture technical to prevent filter media from extremely move.
- ◎ Special filter media fix to keep filter media and metal liner from crossing each other.
- ◎ High filter efficiency.
- ◎ Large air flow.
- ◎ Top open, bottom close with hole.
- ◎ Galvanized anti-corrosion metal construction.
- ◎ Rubber gasket .

卡盘式 SQUARE CAP



- ◎ 滑杆式安装,维护方便快捷;
- ◎ 顶部开口，底部封底;
- ◎ 镀锌防锈金属结构件;
- ◎ 橡胶密封圈。

- ◎ Square cap pole installation method which makes the maintenance convenient and fast.
- ◎ Top open/Bottom close.
- ◎ Galvanized anti-corrosion metal construction.
- ◎ Rubber gasket.

螺旋卡口 TWIST-LOCK

- ◎ 螺旋设计增加强度;
- ◎ 外保护带适用于清洁式脉冲力大的工况。
- ◎ Twist-lock design make the strength better.
- ◎ Outer strap is suitable for large pulse pressure application.



三耳/四耳 THREE-LUG/FOUR-LUG

- ◎ 三耳/四耳设计，可采用下装式或上装式安装方便快捷;
- ◎ 顶部开口，底部封底;
- ◎ 镀锌防锈金属结构件;
- ◎ 橡胶密封圈。（上，下可选）
- ◎ Three-lug/Four lug design, Top loaded/bottom loaded options.
- ◎ Top open/Bottom Close.
- ◎ Galvanized anti-corrosion metal construction.
- ◎ Rubber gasket (Top only, Top/Bottom optional).



螺纹式 THREAD TYPE

- ◎ 螺纹式设计，采用旋转安装，安装方便快捷;
- ◎ 顶部开口，底部封底;
- ◎ 镀锌防锈金属结构件（可选不锈钢）;
- ◎ 橡胶密封圈。
- ◎ Thread installation design;
- ◎ Top open/Bottom close;
- ◎ Galvanized anti-corrosion metal construction (Stainless steel optional);
- ◎ Rubber gasket.



滤筒安装方式

FILTER CARTRIDGE LOADED METHODS

PU密封安装滤筒 PU CAP



- ◎ PU滤筒设计，滤材间隙均匀；
- ◎ 浅折距设计，易清灰；
- ◎ 两端端盖采用聚氨酯技术与滤材连接；
- ◎ 内有防腐处理保护网；
- ◎ 易于清灰、安装维修方便、使用寿命长；
- ◎ 应用于水泥行业、搅拌站物料输送、主机室除尘净化。
- ◎ PU Cap design, well-distributed pleats.
- ◎ Shallow pleat depth, easily dust cleaning.
- ◎ The connection between filter media and cap is polyurethane technology.
- ◎ Inner liner: Anti-corrosion.
- ◎ Good dust cleaning efficiency, convenient in installation and maintenance, longer service life.
- ◎ Applied for cement industry, dust convey, main room filtration.

梅花盖 MAY CAP



- ◎ 梅花盖设计，采用吊装式，快速定位，密封效果好；
- ◎ 顶部开口，底部小孔；
- ◎ 镀锌防锈金属结构件；
- ◎ 橡胶密封圈。
- ◎ May cap design, vertical loaded, good sealness performance;
- ◎ Top open/Bottom close with hole;
- ◎ Galvanized anti-corrosion metal construction;
- ◎ Rubber gasket.

板式过滤器 PANEL FILTER



- ◎ 增加了200%以上的过滤面积；
- ◎ 极易清灰的褶皱式设计；
- ◎ 耐破力强；
- ◎ 安装、拆卸方便；
- ◎ 可水洗；
- ◎ 有效面积利用率高。
- ◎ Filter area: Increased by 200% filter area;
- ◎ Pleat design: Easy to clean the dust;
- ◎ Strong burst resistance;
- ◎ Convenient in installation and discharge;
- ◎ Washable;
- ◎ Make the best use of the filter area.

替代布袋式滤筒 PLEATED BAG FILTER-TO REPLACE BAG FILTER



- ◎ 浅褶距设计，容易清灰；
- ◎ 高效过滤；
- ◎ 过滤面积为相同布袋的3倍；
- ◎ 顶部开口，底部封底；
- ◎ 镀锌防锈金属结构件；
- ◎ 法兰多种安装方式；
- ◎ 橡胶密封圈（上端盖上下端密封，可选）。
- ◎ Shallow pleat depth, the dust is easy to be filtered;
- ◎ High filter efficiency;
- ◎ The filter area is three times more than bag filter;
- ◎ Top open/Bottom close;
- ◎ Galvanized anti-corrosion metal construction;
- ◎ Many types of flange designh installation methods;
- ◎ Rubber gasket (Top gasket only/Top & Bottom gasket, optional).

布袋 BAG FILTER



扁布袋 FLAT BAG FILTER

- ◎ 极易清灰的设计；
- ◎ 耐破度强；
- ◎ 安装、拆卸方便；
- ◎ 根据现场不同工况可采用侧插式或者上插式。
- ◎ Easy to clean the dust;
- ◎ Strong mullen burst;
- ◎ Convenient in installation and replace;
- ◎ Loaded method: Side loaded, Top loaded according to the application;



覆膜滤袋 PTFE MEMBRANE BAG FILTER

基材采用高品质的涤纶、诺梅克斯、P84、PPS等材料，作热电熔和PTFE高效覆膜处理，过滤级别可达H11-H13。

Basic media: high-quality polyester, Nomex, P84, the PPS, and other materials for heat fused and efficient PTFE-coated handle, the level of filtering up to the H11-of H13.



高温滤袋 HIGH-TEMPERATURE BAG FILTER

- ◎ 耐温：150℃，200~250℃/280℃
- ◎ High Temperature resistance: 150 °C, 200 ~ 250 °C / 280 °C

方框过滤 PANEL FILTER



粗效滤芯 PREFILTER

- ◎ 可重复利用的金属铝框;
- ◎ 进口的聚酯合成纤维滤料或金属纤维, 初阻力低, 可多次清洗再利用;
- ◎ 蓬松的纤维结构, 保证了较高的积尘率和更大的容尘量。
- ◎ Reusable aluminum frame;
- ◎ Imported polyester or metal fiber, low initial resistance, and is washable;
- ◎ Loose fiber structure to ensure more dust content and capability.



袋式中效过滤芯 BAG FILTER

- ◎ 消除静电处理的熔喷超细化学纤维复合滤料或玻纤滤料;
- ◎ 滤材具有梯度过滤, 使用过程中过滤效率不衰减, 精度可靠;
- ◎ 每片滤袋均附有内衬条, 可有效保持袋形, 避免通风状况下滤袋过度张开而产生过滤“死区”, 结构合理, 充分利用有效过滤面积;
- ◎ 风阻力低, 使用寿命长。
- ◎ Eliminate the superfine chemical fiber or glass fiber caused by antistatic treatment;
- ◎ Filter media is level filtration, the filter efficiency will be maintained and the filter precision is reliable;
- ◎ Each bag gets hold frame to keep the bag from outshaped. Also the reasonable structure makes the best use of the filter area;
- ◎ Low filter resistance, longer service life.



高效框式滤芯 HEPA

- ◎ 金属框架, 强度高, 适合于风量波动大和间歇运行工况;
- ◎ 抗水型超细玻璃纤维滤材, 适合高湿度和大风量环境;
- ◎ 效率稳定, 容尘量大, 使用寿命长。
- ◎ Metal Frame, good strength, which is suitable for large air flow fluctuation and interval operation environment;
- ◎ Water proof superfine glass fiber filter media, which is suitable for high humid, and large air flow application;
- ◎ Stable filter efficiency, large dust content, longer service life.



大流量高效过滤器 LARGE AIR FLOW HEPA

- ◎ 采用超细玻璃纤维, 经折叠成大表面积, 再组装框架制成之滤网;
- ◎ 滤材表面积为传统(有隔板式)之二倍, 处理风量;
- ◎ 使用寿命长, 可减少更换频率, 降低成本。
- ◎ Superfine glass fiber, large filter area, which is about 2 times more, large air flow;
- ◎ Longer service life, which can reduce the replacement times, in turn, save cost.

配件 ACCESSORIES

- 1.电磁阀 Solenoid valve
- 2.控制仪 Controller



- 1.压差表 Differential pressure gauge
- 2.文氏管 Venturi



- 1.保护带 Strap
- 2.冲孔网 Perforated liner
- 3.菱形网 Diamond-shape liner



- 1.滤架 Cage
- 2.盖板 Access cover
- 3.手轮 Handwheel



- 1.三角形密封圈 Triangle gasket
- 2.扁形密封圈 Flat gasket
- 3.空心密封圈 Hollow gasket



- 1.矩形密封圈 Rectangle gasket
- 2.梯形密封圈 Trapezoid gasket
- 3.硅胶密封圈/氟橡胶密封圈 Silicon gasket/Fluorocarbon gasket





濾材
FILTER MEDIA

描述 DESCRIPTION				规格 SPECIFICATION			化学性质 CHEMICAL PROPERTIES					
名字 Name	材料 Material		后处理 Post-processing		克重(gram/m²) Weight gram/m²	厚度(mm) Thickness(mm)	最高温度℃ Maximum temperature ℃	透气度 Premeability	防油防水 Oil water proof	防水 Water proof	酸性 Acid	碱性 Alkali
RH-001	聚酯20%纤维80%	20% polyester+80% Cellulose			130	0.64	80	★★	★	★	★	★
RH-002	聚酯15%纤维85%	15% polyester +85% Cellulose			124	0.7	80	★★	★	★	★	★
RH-007	纤维100%	100% Cellulose			118	0.79	80	★★	—	—	★	★
RH-019NWFR	聚酯15%纤维85%	15% polyester +85% Cellulose	纳米阻燃	Nano flame retardant	137	0.79	80	★★★	★★	★	★	★
RH-020NW	聚酯15%纤维85%	15% polyester+85% Cellulose	纳米	Nano	132	0.84	80	★★★	★★	★	★	★
RH-203	聚酯100%	100% polyester			240	0.75	120	★★	★★	★	★	★
RH-210	聚酯100%	100% polyester			260	0.61	120	★★	★★	★	★★	★
RH-212CD	聚酯100%	100% polyester	防静电	Anti-static	260	0.61	120	★★	★★	—	★★	★
RH-213FR	聚酯100%	100% polyester	阻燃	Flame-retardant	260	0.61	120	★★	★★	★★	★★	★
RH-215FS	聚酯100%	100% polyester	防油防水	Oil,water proof	260	0.61	120	★★★	★★★	★★★	★★	★
RH-303	聚酯100%	100% polyester	覆膜	PTFE Membrane	240	0.60	120	★	—	★★★	★★	★★
RH-306	聚酯100%	100% polyester	覆膜	PTFE Membrane	260	0.68	120	★	—	★★★	★★	★★
RH-309FR	聚酯100%	100% polyester	覆膜阻燃	PTFE Membrane FR	260	0.62	120	★	—	★★★	★★	★★
RH-311	聚酯100%	100% polyester	覆膜	PTFE Membrane	270	0.83	135	★	—	★★★	★★	★★
RH-313CD	聚酯100%	100% polyester	防静电覆膜	Anti-static PTFE Membrane	260	1.01	135	★	—	★★★	★★	★★
RH-316	聚酯100%	100% polyester	新型覆膜	New PTFE Membrane	135	0.58	110	★	—	★★★	★★	★★

一无, ★一般, ★★好, ★★★很好
—No, ★Ordinary, ★★good, ★★★very good