



Stock Code : 688659

FLUE DUST TREATMENT SYSTEM

Filter And DeNO_x Solutions

Hefei,China . 2023

ANHUI YUANCHEN ENVIRONMENTAL PROTECTION SCIENCE&TECHNOLOGY CO.,LTD

A large blue geometric shape, resembling a parallelogram, occupies the right side of the slide. Inside this shape is a photograph of a modern glass skyscraper, which is reflected in a pool of water in the foreground. The text 'COMPANY PROFILE' is centered within this blue area in a white, spaced-out, sans-serif font.

C O M P A N Y
P R O F I L E



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Social Responsibility





C O M P A N Y P R O F I L E

Company Introduction

Hefei,China . 2023

ANHUI YUANCHEN ENVIRONMENTAL PROTECTION SCIENCE&TECHNOLOGY CO.,LTD

C O M P A N Y
P R O F I L E



YUANCHEN TECHNOLOGY GROUP



Profile

Established in 2005, focusing on technology research & development in the field of environmental protection for 18 years

2013

Established Yuanchen Carbon Technology Co., Ltd

2016

Completed the shareholding system transformation and changed its name to “Anhui Yuanchen Environmental Protection Science&Technology Co., Ltd.”

2014

The first catalyst production line was officially put into operation

2005

Officially established
The first filter bag production line was officially put into production

2017

Germany Autefa needle punch production line put into operation
Filter material rank first in the power market industry

2018

The wholly-owned subsidiary Anhui Confair Testing Technology Co., Ltd. was established and obtained double certification of CNAS and CMA

2019

Established wholly-owned subsidiary Anhui Weina IoT Technology Co., Ltd. and Yuanchen Science and Technology Research Institute

2021

The company officially landed on A-shares and listed on the Science and Technology Innovation Board of the Shanghai Stock Exchange.
Stock code: 688659

2022

The construction of the new material recycling industrial park has successfully rolled off the composite foil products of Yuanchen Technology



Listed company

Established in 2005,
Listed on the Science and Technology
Innovation Board in March 2021



Technology enterprise

Built a serious of national scientific
research workstations, joint laboratories,
and technology research centers



Group company

Business involves industrial flue gas
dedusting and denitrification, recycling
industry, smart environmental protection,
testing, new material development

Total Assets : 1.27 billion CNY (185 million USD) , 2022 Operating Income: 580 million CNY (84.4 million USD) , Employees Number : 600+

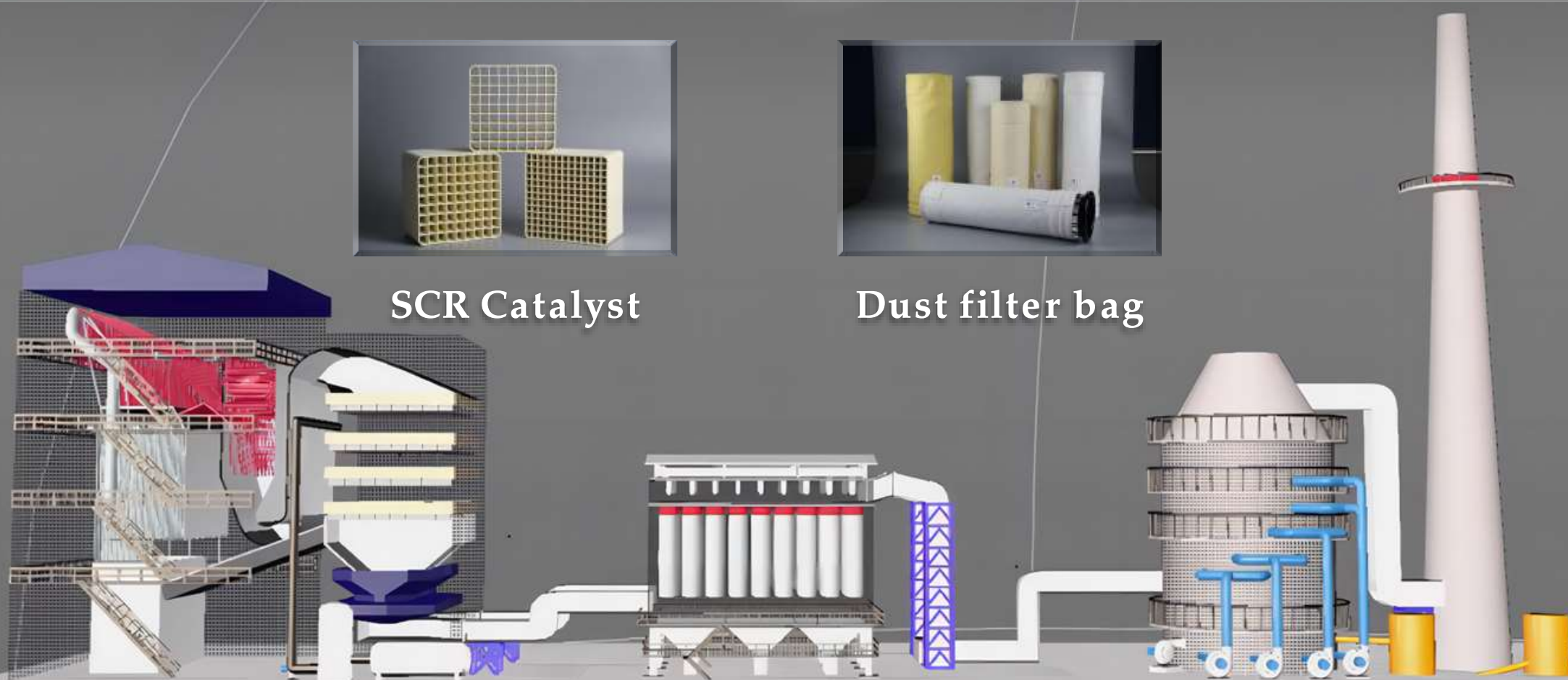
Covering environmental engineering design and manufacturing, producing dust filter fabric and bags, SCR catalyst manufacture ,recycle and regeneration

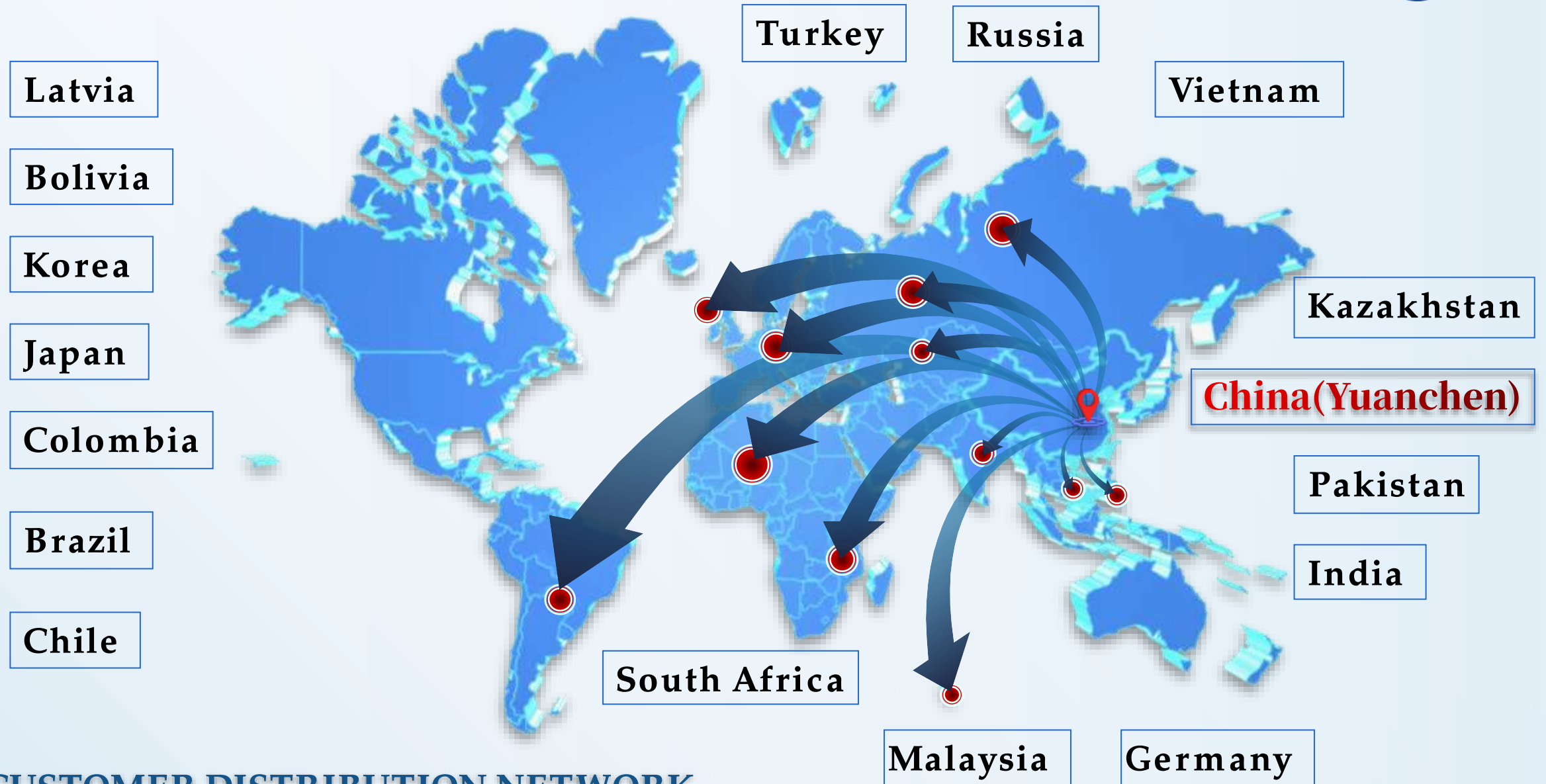


SCR Catalyst



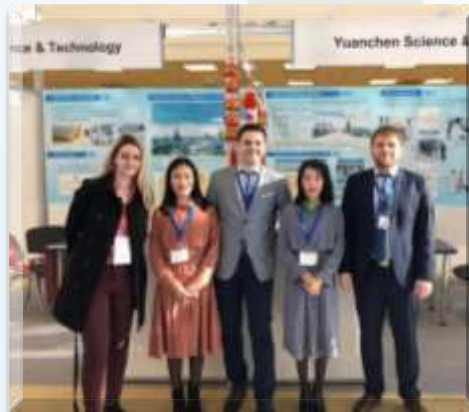
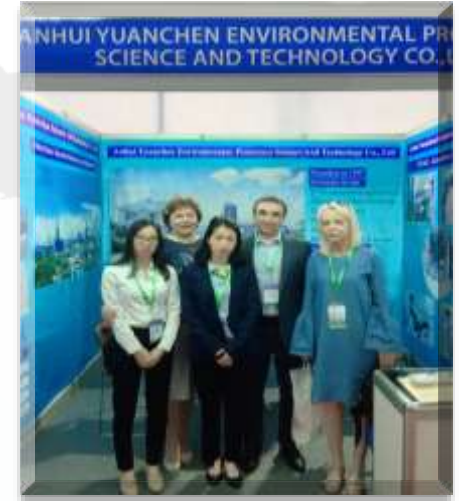
Dust filter bag





INTERNATIONAL MARKET >>>>>>>

- Andritz Group
- Bestway Cement
- Thyssenkrupp
- DK cement
- TATA Group
- Philippines power plant
- Atlas Energy
- Turkey EREN ENERGY
- THERMAX LIMITED INDIA
- AO «NORDFELT»
- RUSAL
- MMK



PARTNER



ThyssenKrupp



(주)이피아이티



RUNH POWER



龙净环保
LONGKING

'TORAY'

Innovation by Chemistry



美国杜邦
DuPont



中航国际
AVIC INTERNATIONAL



中国石化
SINOPEC



国家电力投资集团公司
STATE POWER INVESTMENT CORPORATION



同方环境
TONGFANG ENVIRONMENT



华为

与您携手 改变生活



中国大唐集团科技工程有限公司
China Datang Technologies & Engineering Co., Ltd.



浙江菲达环保科技股份有限公司



武汉凯迪电力环保有限公司
WuHan KaiDi Electric Power Environmental Co., Ltd.



永清环保股份有限公司
YONKER ENVIRONMENTAL PROTECTION CO., LTD.

TENGY

浙江天洁环境科技股份有限公司
Zhejiang Tengy Environmental Technology Co., Ltd.



清新环境



中国机械装备工程股份有限公司
China Machinery Engineering Corporation



中国能建
ENERGY CHINA



哈尔滨电气集团有限公司
HARBIN ELECTRIC CORPORATION



DILER HOLDING

PARTNER



**4 international PCT patents, 142 authorized
national patents**

**27 leading/participating criteria
Obtained 36 software copyrights**



CERTIFICATIONS

- Hazardous waste management license
- Environmental management system certification

ISO14001:2004

ISO9001:2008

OHSAS18001:2007

- CNAS Laboratory
- CE Certificate



Production Process

Hefei,China . 2023

ANHUI YUANCHEN ENVIRONMENTAL PROTECTION SCIENCE&TECHNOLOGY CO.,LTD



FILTER FABRIC AND BAG PRODUCTION LINE



Japan Tokuden electromagnetic heating laminating machine

- ✓ Guarantee of excellent breathability
- ✓ Accurate temperature control and uniform dispersion
- ✓ Excellent film fastness
- ✓ Smooth and uniform fabric effect

Sweden ETON automatic hanging system

- ✓ Avoid fabric wear and tear
- ✓ Avoid fabric stains
- ✓ Increase productivity

German AUTEFA full set of needle punching production line

- ✓ High efficiency, with an annual production capacity of 6 million squaremeters
- ✓ Advanced production technology and elliptical needle trajectory ensure high strength
- ✓ The highest level of automation, automatic recognition, correction, and adjustment
- ✓ The first fully automatic intelligent needle changing device

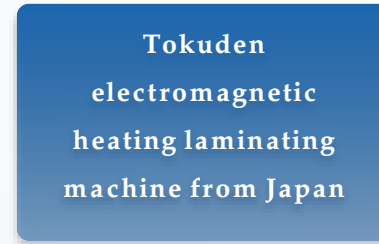
Intelligent equipment - filter material production line



ETON automatic
suspension system
in Sweden



Germany AUTEFA
Complete Needle
Needling Production Line



Tokuden
electromagnetic
heating laminating
machine from Japan



FILTER FABRIC AND
BAG PRODUCTION
LINE



INTELLIGENT EQUIPMENT - SCR CATALYST PRODUCTION LINE

Customized production lines
of the German Ceramic Union:

- EIRICH-ECT
- KEMA
- LINGL
- KERAMISCHER OFENBAU





Q u a l i t y C o n t r o l & R e s e a r c h C e n t e r

Quality Control & Research Center

Hefei,China . 2023

ANHUI YUANCHEN ENVIRONMENTAL PROTECTION SCIENCE&TECHNOLOGY CO.,LTD

A large, tilted rectangular graphic on the right side of the slide. It contains a blue-tinted image of a modern glass skyscraper, which appears to be a reflection on a wet surface. The text 'QUALITY RESEARCH CENTER' is overlaid on the bottom half of this graphic in a white, serif, all-caps font.

Q U A L I T Y
R E S E A R C H C E N T E R





TESTING EQUIPMENT



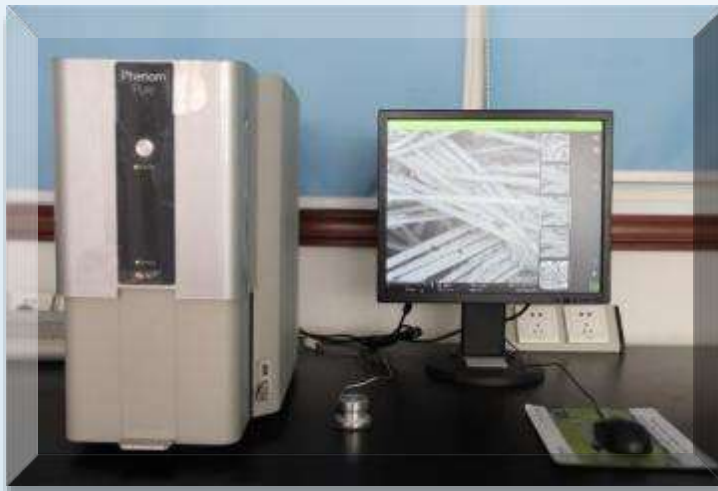
USA-Nicolet Is10 Infrared Spectrometer



Automatic Specific Surface Pore Size Distribution Meter



Fully automatic activity evaluation device



Phenom Scanning Electron Microscope



AFC133 filter material test bench



PSM165 filter material pore size tester

Application Of Dust Filter Bag And Catalysts In Different Industries

Hefei,China . 2023

ANHUI YUANCHEN ENVIRONMENTAL PROTECTION SCIENCE&TECHNOLOGY CO.,LTD



Catalyzer
Dust removal filter bag





Fabric⁺

How to choose?

Flue gas

- Temperature
- Acidity-Alkalinity
- Dust concentration
- Filtration velocity

Nature of dust

- Viscidity
- Humidity
- Size distribution
- Reaction to fire

Dust clean

- Pulse-jet cleaning
- Reverse flow cleaning
- Clean pressure

Equipments

- Running resistance

.....

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NOMEX



204-240°C, wear-resisting, Good performance for acid and alkali-resistant, hydrolysis resistance is not good

Polyimide



Good performance for acid and alkali-resistant, high dust filtration concentration, 260-280°C.

PPS



Good performance for acid and alkali-resistant, wear-resisting, 160-190°C, oxygen content <8%



PTFE

260-280°C, good performance for acid and alkali-resistant, high chemical stability



Acrylic

High chemical stability, resist to oxidation,



Polyester

130-150°C, high chemical stability, resist to oxidation, hydrolysis resistance is not good.



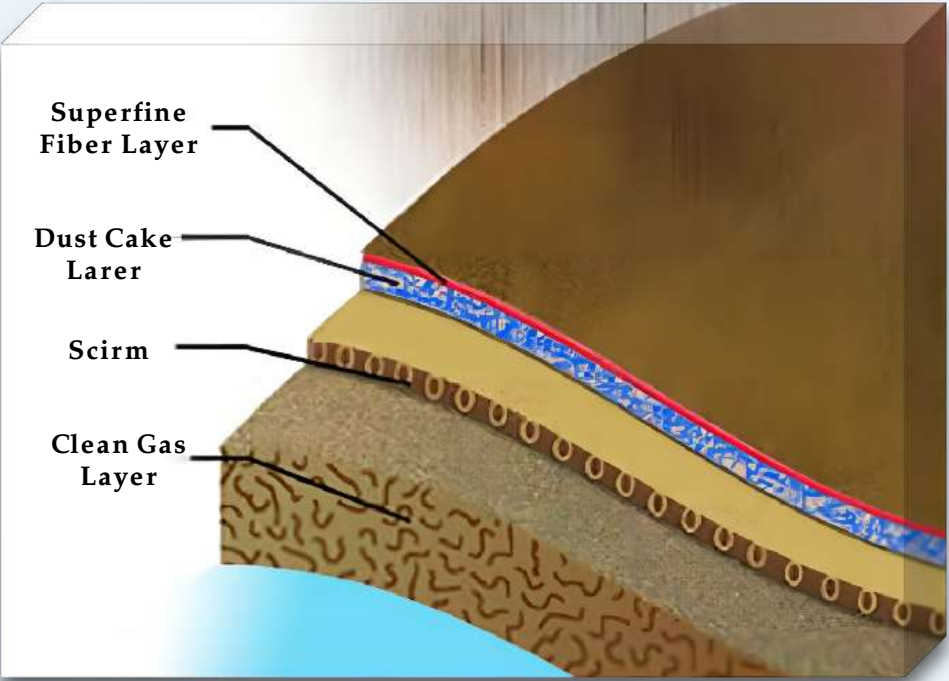
1. PM2.5 GRADIENT FILTER DESIGN AND APPLICATION TECHNOLOGY



National Science and Technology Innovation Fund

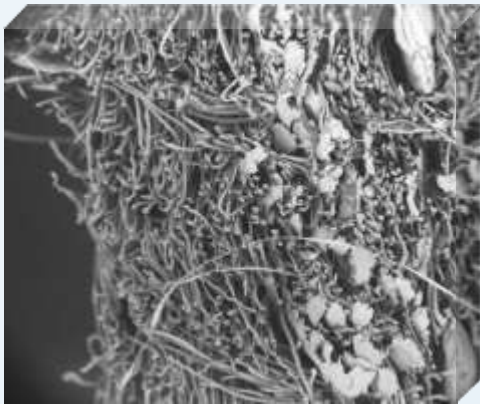
Awarded invention patents and high-tech products

Emission concentration <10mg/Nm³

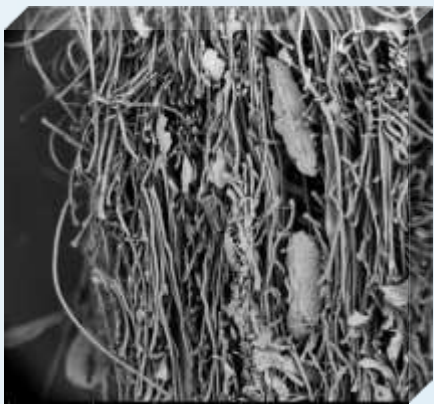


Filter performance	Unit	Gradient filter	Membrane	Normal filter
Emission concentration after 30 times	mg/m ³	0.2093	0.1981	4.1547
Filter efficiency after 30 times	%	99.9958	99.9981	99.9164
Pressure diff after 30 times	Pa	469	442.56	581.78

Gradient filter fabric



Normal filter fabric

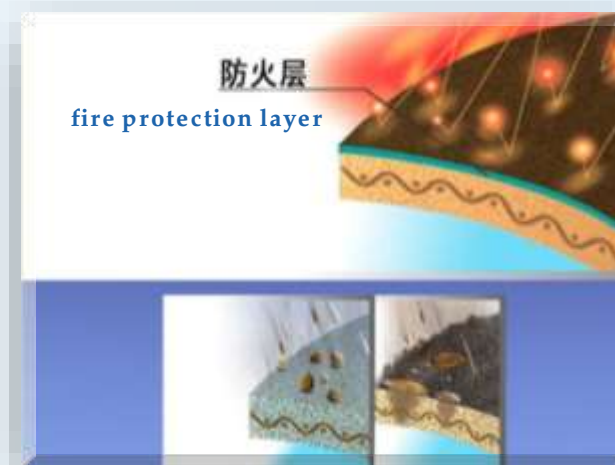
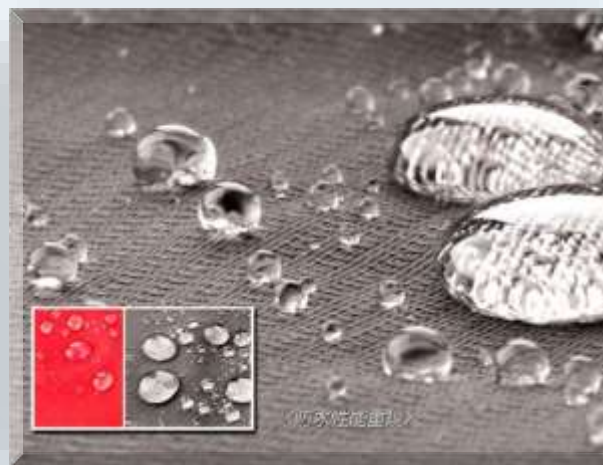
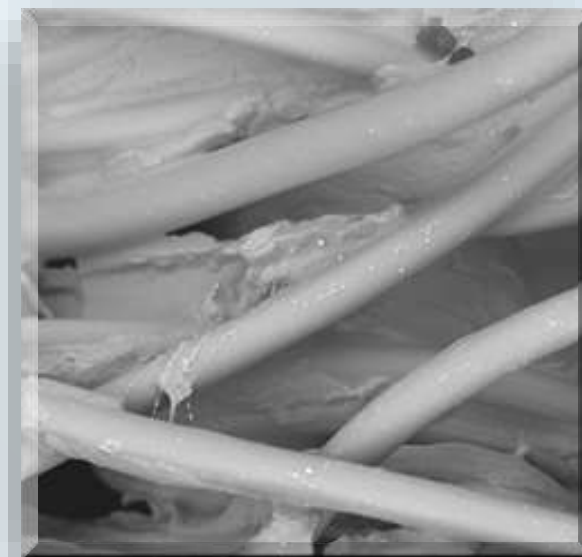


2.FINISHED TREATMENT TECHNOLOGY

a. Anti-ammonium bisulfate technology

Advantage:

- 1) Increase the smooth surface of fibers and solid particles
- 2) The filter fiber has a smooth surface and good anti-condensation performance.

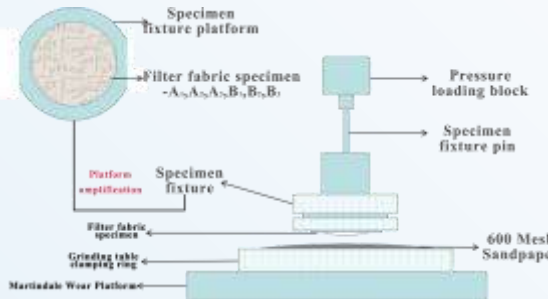


3. HIGH WEARING RESISTANT TECHNOLOGY



Competitor data Comparision

Filter bag lifetime:
Wearing resistance and folding resistance test



Manufacturer	Wearing resistance		Folding resistance		
	Total friction number of times	Wearing resistant index (times/mg)	Folding resistance number of times		Folding resistance index
Yuanchen	2500	24.87	Warp	2438	3.37
			Weft	19506	4.25
Sinoma	400	6.59	Warp	240	2.33
			Weft	153	2.18
Lnork	800	7.77	Warp	1409	3.149
			Weft	3270	3.515
Hualin	400	9.52	Warp	1237	3.092
			Weft	409	2.612

ANALYSIS OF DAMAGE IN FILTER BAG

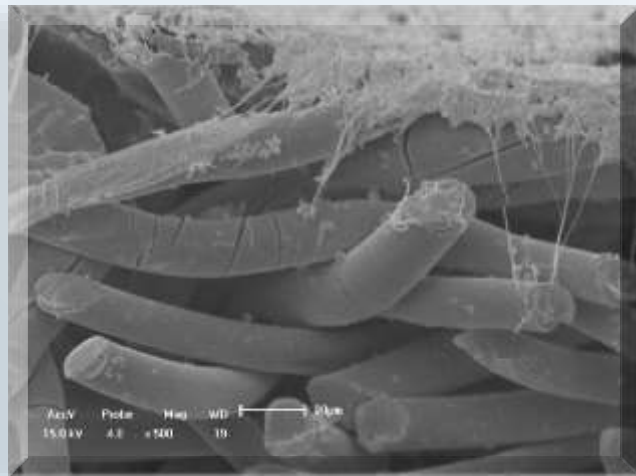
Flue gas temperature



Oxides in smoke



Smoke moisture



The combination of SO_x, NO_x and water in the flue gas causes acid corrosion to the filter media; When the O₂ and O₃ content is high, It will cause oxidation damage to the filter bag.

FILTER BAG PROJECT CASES FOR POWER PLANT

National Power Investment Pingyi Power Plant 1000MW+4*600MW

National Power Investment Danhe Power Generation 2*1000MW

Datang Sanmenxia Power Generation 1000MW

Datang Tokto Power Generation 2*660MW+300MW

Huadian Power Generation 2*660MW

Huadian Hasan Power Plant 2*600MW

Huaneng Yangluo Power Generation 2*600MW

Huaneng Nantong Power Plant 2*330MW

Guodian Yuanbaoshan Power Plant 2*600MW

.....

Jiangsu Shazhou Power 2*1000MW

Zhengzhou Yuzhong Energy 2*1000MW

Gemeng International Jixian Power Plant 2*1000MW

Guangdong Zhuhai Power Plant 2*700MW

Shanxi Xingneng Power Generation 4*660MW

Jingneng Bohai Power Generation 600MW

Shenhuafu Valley Power Generation 600MW

Yuedian Shajiao C Power Plant 600MW

Jiangsu Guoxin Sheyang Port Power Generation 2*660MW

Hebei Jiantou Shahe Power Plant 2*600MW

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Ultra-clean emissions in the domestic dust removal field



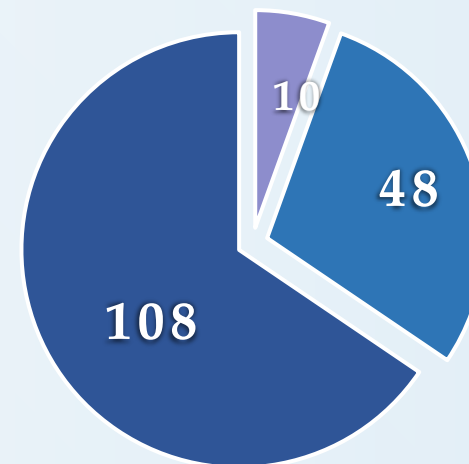
The total installed capacity is **83890MW**, the first in the industry!

Number

■ 1000MW

■ 600MW

■ 300MW



FILTER BAG PROJECT CASES FOR CEMENT PLANT

Ultra-clean emissions in domestic dust removal field



Cement industry

Collective Group Procurement:

- CNBM Southwest Cement
- CNBM Southern Cement
- China Resources Cement
- Conch Cement
- Red Lion Cement
- Yunnan Cement
- Tianrui Cement
- Jiangsu Jinfeng Group 4*5000t/d kiln tail, 3*2500t/d kiln head and kiln tail
- Guangdong Tower Group 5000t/d Kiln Tail
- 5000t/d kiln tail of Pingdingshan Ruiping Group
- Tongli Group 2*5000t/d kiln head
- BBMG 1*4500t/d kiln head
- 5000t/d kiln head of Henan SDIC Group
- Zhonglian Group 5000t/d kiln head and kiln tail

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Dust removal and denitrification integrated process

FILTER BAG PROJECT CASES FOR STEEL PLANT

Ultra-clean emissions in domestic dust removal field

- Baowu Group
 - Angang Group
 - Hegang Group
 - Shougang Group
 - Laiwu Steel Group
 - Shagang Group
 -
- Special filter bag for semi-dry
desulfurization:
- Wuhan Longjing Shandong Zhufu Steel
 - Kangjie Environmental Xuzhou Steel
 - Anhui Changjiang Iron and Steel
 -



steel industry

Special filter bag for semi-dry desulfurization

FILTER BAG PROJECT CASES FOR WASTE INCINERATION



Waste incineration industry

- Everbright Group
- Wuxi China Star Oriental
- Beijing First Environment
- Sanfeng Group
- Shanghai Kangheng Environment
- Henan City Development Environment

Ultra-clean emissions in domestic dust removal field

project name	Filter bag specifications	Number of filter bags	project name	Filter bag specifications	Number of filter bags
Everbright Fuping	160*6000	1750	Kangheng Zhuhai	160*6000	1362
Everbright Qixia	160*6000	1750	Kangheng Guangshui	160*6000	1600
Everbright Yingtan	160*6000	2698	Kangheng Guangshan	160*6000	3300
Everbright Ruzhou	160*6000	1748	Kangheng Wuzhou	160*6000	3250
Everbright	160*6000	2194	Kangheng Nanchang	160*6000	6900
Everbright Shengzhou	160*6000	2194	Kang Heng Changzhi	160*6000	2400
Everbright Weishan	160*6000	1748	Lanzhou Fengquan	160*6000	1572
Everbright East China Sea	160*6000	1858	Chongqing Sanfeng Dongying	130*6000	2181
Everbright	160*6000	1097	Chongqing Sanfeng Chifeng	160*6000	2708
Everbright Maanshan	160*6000	1349	Shenhua Baotou	130*8065	4662
Everbright Yongzhou	160*6000	1748	Elm Evergrande	160*6000	350
Everbright Renshou	160*6000	2194	Longjing Iron Law	130*8065	3405
Everbright Yucheng	160*6000	1748	Beijing Huimin	150*6000	1690
Everbright Tengzhou	160*6000	1097	Deyanghui County	160*6000	2048
Everbright Wuhua	160*6000	1858	o o o		

POWER PLANT CATALYST PROJECT CASES

Ultra-clean emissions in the field of domestic denitrification

- SPIC Pingwei Power Generation **2*1000MW+4*600MW**
- China Resources SITC Power **2*1000MW**
- Wanneng Tongling Power Generation **1000MW**
- SPIC Shentou Yidian **600MW**
- Chongqing Songzao Power **600MW**
- China Resources Liyujiang Power Generation **2*600MW**
- Wanneng Maanshan Power Generation **2*600MW**
- Guizhou Qiangui Power Generation **2*660MW**
- Shanxi Wuxiang Hexin Power Generation **2*600MW**
- 600MW Zhongyi Power Generation in Xinxiang, Henan
- China Power Construction Gansu Chongxin Power Generation **2*600MW**

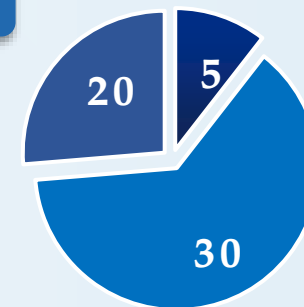
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Power Industry

Quantity

- 1000MW
- 600MW
- 300MW



The wide temperature difference denitrification catalyst is the first to be successfully applied in millions of electric power generating units!

CEMNT PLANT CATALYST & STEEL PLANT CATALYST



监测点位:	4号出口	生产状态:	正常
监测时间:	2021年09月01日16时05分00秒		
监测项目	监测值	执行标准	单位
颗粒物	2.979	10	mg/m ³
二氧化硫	15.577	50	mg/m ³
氮氧化物	20.524	100	mg/m ³

Inlet NO_x ≤ 1000mg/Nm³
Operating temperature 300-360°C
Export NO_x ≤ 50mg/Nm³
Run time 10 months



Conch Cement 1#5000T/D
Project



Tianjin Iron and Steel Group Co., Ltd.
360m²+265m²sintering flue gas
denitrification project



Shanxi Building Materials Industry
and Trade 360m² Sintering Flue Gas
Denitrification Project



Fujian Sanbao Iron and Steel Co., Ltd.
320m² sintering flue gas denitrification
project



Laoting Iron and Steel Group Co.,
Ltd. 360m² sintering flue gas
denitrification project

STEEL PLANT CATALYST PROJECT CASES



Ultra-clean emissions in the field of domestic denitrification



Steel industry

- Hebei Anfeng Steel 4*180+360m²
- Tianjin Iron and Steel Group 360+265m²
- Shan Dongxi Wang Steel 360m²
- Shanxi Tongcai Steel 360m²
- Fujian Sanbao Steel 320m²
- Hebei Jingye Iron & Steel 230m²
- Hebei Wuan Yuhua Iron and Steel 2*200m²
- Hebei Xinjin Steel 2*200m²
- Tianjin Tiangang United Special Steel 230m²
- Hegang Tanggang Laoting Iron and Steel Co., Ltd. newly built 2# sintering 360m²
- Shagang Group Anyang Yongxing Iron and Steel Sintering 132m²
- Shanxi Zhongyang Iron and Steel 3*200m²
- Shandong Laigang Yongfeng Steel 265m²
- Jiangsu Danyang Longjiang Iron and Steel 70+130m²
- Hebei Tianzhu Steel 208m²
- Shanxi Hongda Steel 194m²
- Shanxi Zhongsheng Iron and Steel 180m²
- Hebei Hexin Steel Sintering 130m²
- Baowu Yangtze River Steel Sintering 3*180m²
- Wu'an Baking Steel Sintering 220m²
- Northwest China Steel relocates and builds a new sintering 320m²

Pioneer and leader in the medium and low temperature market of iron and steel sintering, More than 80 sets of denitrification have been put into operation, Helping about 15,600 square meters of sintering to achieve ultra-low emissions

OVERSEA CASES OF CATALYST

Turkey: 600 cubic
meter catalyst

Vietnam: 450 cubic
meter catalyst

Malaysia: 143 cubic
meter catalyst



PACKING AND DELIVERY



S o c i a l R e s p o n s i b i l i t y

Hefei,China . 2023

ANHUI YUANCHEN ENVIRONMENTAL PROTECTION SCIENCE&TECHNOLOGY CO.,LTD



S O C I A L
R E S P O N S I B I L I T Y



EXHIBITION



**Japan
Exhibition**



**Turkey Power
Energy
Exhibition**



**Korea
International
Environmental
Exhibition**



**Kazakhstan
Exhibition**



**Vietnam
Exhibition**



**N-EXPO
2023 Tokyo**



**South
Africa**



**ICCI 2023
Istanbul**



**IE expo
China 2023**



Technology Exchange And Learning



New Product Launch



New product Appraisal meeting



Laboratory Research



Blue Collar Innovation Studio



Analysis And Testing Center



Successfully landed in the science and technology Board



Jianfeng Training



Academician and Expert Exchange Meeting



Jianfeng Training



Ceremony of New Building



群星璀璨

新时代新征程

个新征程

新



担当



Welcome to you!



元琛科技
Y U A N C H E

Stock Code : 688659

THANKS

Hefei,China . 2023

ANHUI YUANCHEN ENVIRONMENTAL PROTECTION SCIENCE&TECHNOLOGY CO.,LTD

C O M P A N Y
P R O F I L E

