

HOT

Process For Environment

北京浩沃特矿业技术有限公司
Beijing HOT Mining Tech Co., Ltd



除雾器 Mist Eliminator · 喷嘴 Nozzle

脱硫核心技术装备

**Desulfurization
Core Equipment**



Our Service

Products Selection & Consultation

HOT can provide the accurate model conference and the free consultation. HOT prefer to service all the customers with sincere

Products Selection & Consultation

Based on customer's requirements, HOT can customize the diversified irregular SiSiC Products.



Assistance for Overall Schemes

HOT has been committed into building a harmonious and win-win business relationship with our customers. For the improvement and technological innovations, HOT will work closely with customers to jointly design and develop.

全程的的专业服务

One Stop Professional Service

从产品开发，到批量生产，以及发货和售后等方面和客户细致沟通，精益求精，确保每一次的合作完美。

HOT prefers to communicate with customers on the products development, mass production, the delivery, after-sales service etc., to achieve the excellent cooperation.



领先技术的应用于创新

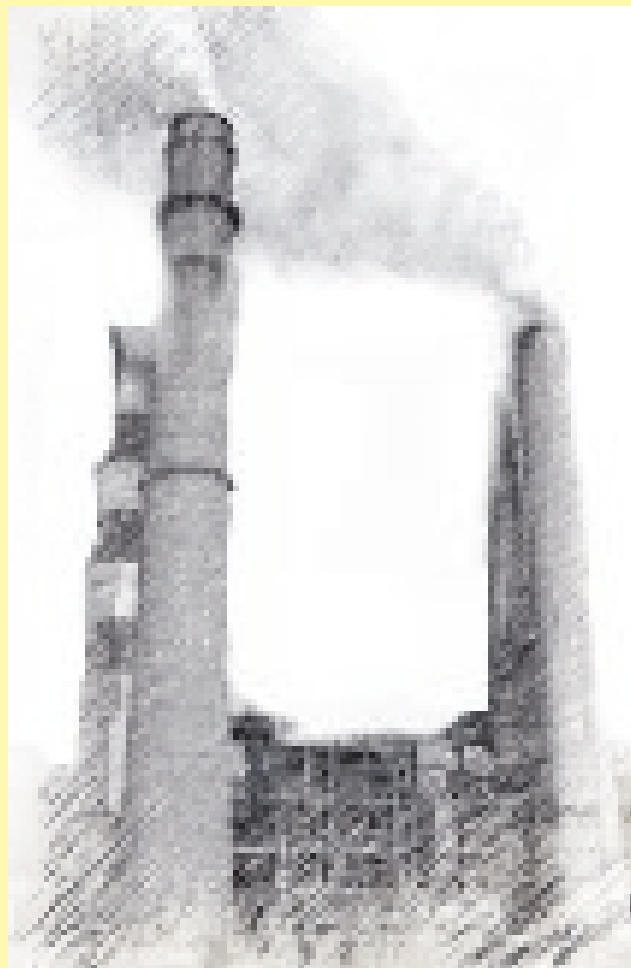
Application and Innovation of leading Technology

HOT引入德国最先进工艺，不断提高自动化精加工能力的同时，矢志不渝地追求自身创新和研发。

HOT introduces the German advanced technology to improve the automatic finishing capability. Meanwhile, our company constantly emphasize on ability of innovation and R&D.

HOT高效脱硫喷嘴

HOT Efficient Desulfurization Nozzle



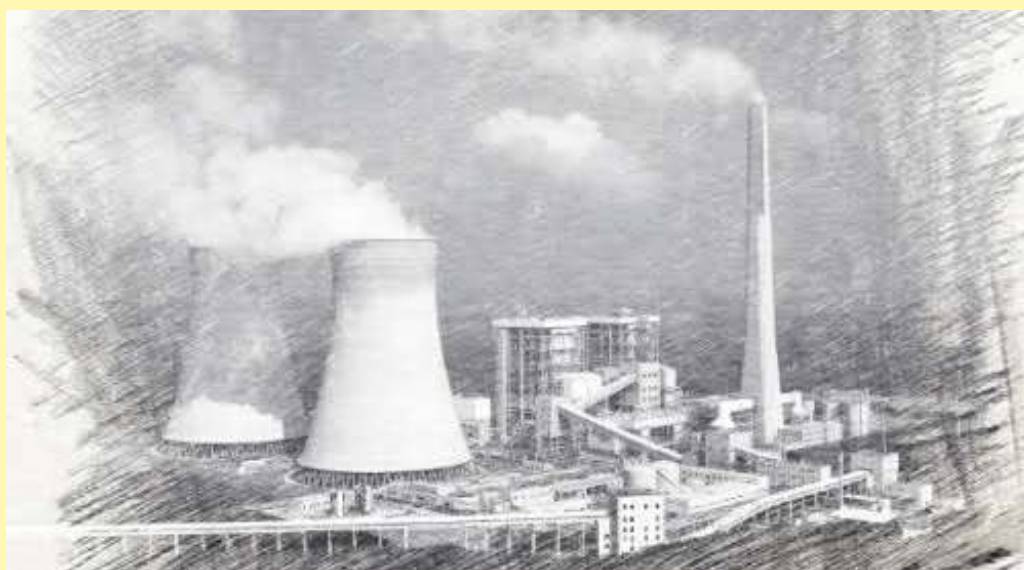
脱硫喷嘴是火力发电厂、大型锅炉烟气湿法脱硫系统中的关键部件。脱硫喷嘴的作用机理是，浆液由循环泵加压输送至脱硫喷嘴，然后通过喷嘴雾化成细小雾滴，并成一定锥角喷射出来，然后细小雾滴与上升烟气混合接触，并与烟气中的 SO_2 发生化学反应，从而使烟气中的 SO_2 被脱除。

FGD nozzle is a key component of thermal power plant and large boiler flue gas wet desulfurization system. The nozzle's mechanism of action is, the slurry is conveyed by pump to nozzle, then turn into tiny fog drop through the nozzle, and was sprayed out in taper angle. The tiny fog drop will be mixed and touched with the rising flue gas, and react with the SO_2 within the glue gas, consequently, the SO_2 is removed from the flue gas.

一般应用

Common Application

- 高温烟气快速冷却
- 废弃洗涤
- 湿法脱硫
- 消防灭火
- 填料塔喷淋
- 焦炭熄火
- 洗涤与漂淋
- 化学塔喷淋
- 凉水塔与分馏塔喷淋
- Quick cooling of high-temperature flue gas
- Flue gas washing
- Wet desulphurization
- Flue gas dust removal
- Leaching tower
- Coke quenching
- Washing and bleaching
- Chemical tower spraying
- Cooling water and fractionating to tower spraying



涡流喷嘴

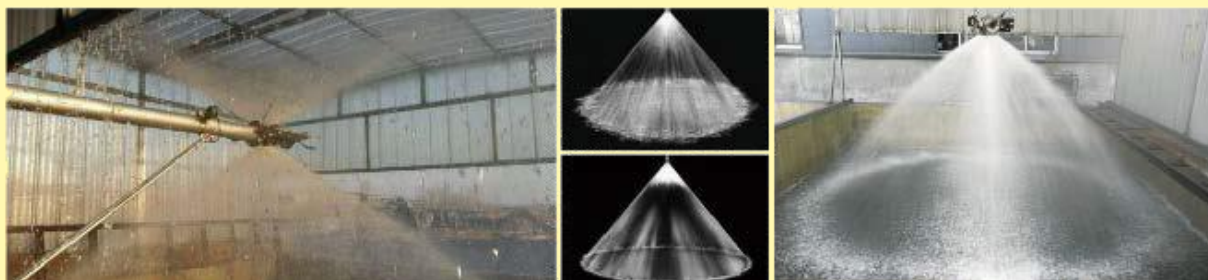
FGD Tangential Whirl Nozzles

涡流喷嘴的主要特点：喷雾角度 $60^{\circ} - 120^{\circ}$ ，抗腐蚀性很强，抗氯能力强，表面精度高，耐磨损，强度好；耐氧化，寿命长；重量轻，易做成各种形状；涡流喷嘴雾化颗粒小而均匀，不易堵塞，畅通性好；双向切线空心锥同时向上向下喷雾，上下角度流量可以不同；常见的有单向空心喷嘴，单向实心喷嘴，双向空心喷嘴，单向双喷高效喷嘴，双向双喷高效喷嘴，耐高温可达 1380°C 。

涡流喷嘴的连接方式一般为：缠绕粘接、法兰连接和螺纹连接等。

The main characteristics of swirl nozzle are: Spray angle $60-120$ degrees; strong corrosion resistance, strong chlorine resistance, high surface accuracy, wear resistance, high strength, oxidation resistance, long life, light weight, easy to make all kinds of shapes; The swirl nozzle atomized particles are small and even, which are not easy to plug and have good unimpeded flow. The two-way tangential hollow cones spray upward and downward at the same time, and the upper and lower angles of flow can be different; the common types include unidirectional hollow cone nozzles, unidirectional full cone nozzles ,two way double jet high temperature resistance. It reaches 1380°C .

The connection modes: winding adhesive, flange connection and threaded connection.



空心锥切线喷嘴

Hollow Cone Tangential



DN 20



DN 25



DN32 out-screwed



DN 32



DN40 flange



DN 40



2 cun out-screwed



2 cun flange



DN40 in-screwed



DN 50



DN50 flange



DN 50



DN 50



DN50 flange



DN 50



DN50 wrapping



DN50 out-screwed



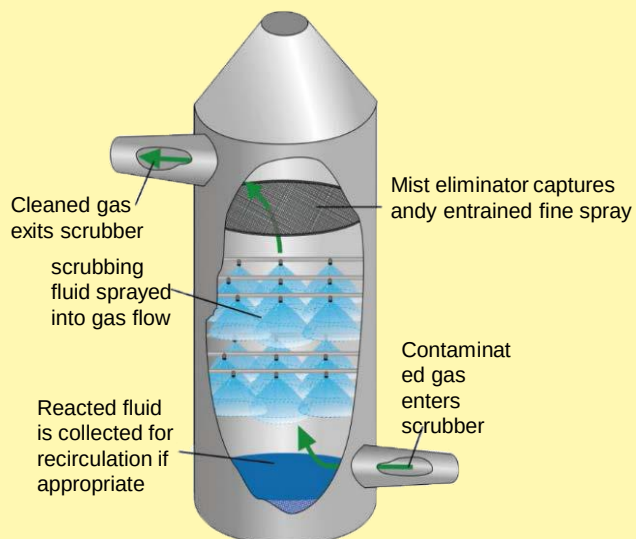
DN 50



DN 50



DN 50



喷雾效果
Spray effect

实心锥切线喷嘴

Full Cone Tangential



DN50



DN50



DN50 wrapping



DN50 flange



DN50



DN50 out-screwed



DN65



DN80



DN80



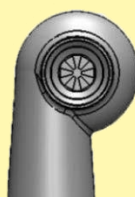
DN100



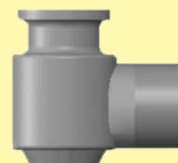
DN100



DN100



实心切线喷嘴
Full Cone Tangential



实心切线喷嘴
Full Cone Tangential

大流量双向切线喷嘴

Large Free Passage Double Hollow Cone Tangential



DN40 DD



DN50 DD



DN50 DD



DN65 DD



DN80 DD



DN80 SD DS



DN80 SD DS



DN80 DD



DN100 SD DS



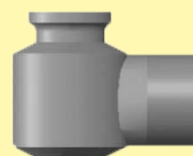
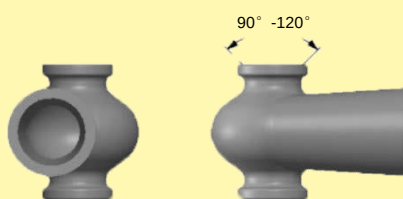
DN100 DD



DN100 SD DS



DN100 DD



大流量双向喷嘴
Large Free Passage Double
Hollow Cone Tangential

大流量双向喷嘴
Large Free Passage Double
Hollow Cone Tangential

涡流喷嘴 参数表

Vortex Nozzles Datasheet

尺寸 Size (inch)	喷雾角度 Spray Angle			连接方式 Connection Type				入口直 径 Inlet diamet er (mm)	出口直 径 Outlet diamete r (mm)	压力 (bar) 流量 (m3/h) Pressure (bar) Flow (M3/h)									
	60°	90°	120°	螺纹 连接 Screw ed	卡箍 连接 Victau lic	法兰 连接 Flange	缠绕 连接 Wrap ping			0.2 bar	0.3 bar	0.5 bar	0.7 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	7 bar
1/2	✓	✓	✓	✓	✓	✓	✓	11.1	7.9	0.44	0.54	0.7	0.82	0.98	1.2	1.38	1.68	1.98	2.58
									9.9	0.58	0.71	0.92	1.09	1.32	1.62	1.86	2.28	2.64	3.48
									11.9	0.73	0.89	1.16	1.38	1.62	1.98	2.34	2.82	3.24	4.32
									13.9	1.03	1.26	1.62	1.92	2.28	2.82	3.24	3.96	4.56	6.06
3/4	✓	✓	✓	✓	✓	✓	14.3	9.1	0.58	0.71	0.92	1.09	1.32	1.62	1.86	2.28	2.64	3.48	
								10.7	0.73	0.89	1.16	1.38	1.62	1.98	2.34	2.82	3.24	4.32	
								12.3	0.88	1.07	1.38	1.62	1.98	2.4	2.76	3.42	3.9	5.16	
								13.9	1.03	1.26	1.62	1.92	2.28	2.82	3.24	3.96	4.56	6.06	
1	✓	✓	✓	✓	✓	✓	17.5	11.5	1.03	1.26	1.62	1.92	2.28	2.82	3.24	3.96	4.56	6.06	
								12.7	1.17	1.44	1.86	2.16	2.64	3.18	3.72	4.5	5.22	6.9	
								14.3	1.32	1.62	2.1	2.46	2.94	3.6	4.14	5.1	5.88	7.8	
								15.5	1.44	1.8	2.34	2.76	3.24	4.02	4.62	5.64	6.54	8.64	
1 1/4	✓	✓	✓	✓	✓	✓	21.4	17.5	1.74	2.16	2.76	3.3	3.9	4.8	5.52	6.78	7.86	10.4	
								20.6	2.22	2.7	3.48	4.08	4.92	6	6.96	8.52	9.78	12.9	
								14.3	1.44	1.8	2.34	2.76	3.24	4.02	4.62	5.64	6.54	8.64	
								16.3	1.74	2.88	2.76	3.3	3.9	4.8	5.52	6.78	7.86	10.4	
1 1/2	✓	✓	✓	✓	✓	✓	27.8	18.3	2.04	2.52	3.24	3.84	4.56	5.58	6.48	7.92	9.18	12	
								20.2	2.34	2.94	3.72	4.38	5.22	6.42	7.38	9.06	10.4	13.8	
								24.2	2.94	3.6	4.62	5.46	6.54	7.98	9.24	11.3	13.2	17.4	
								17.5	2.34	2.94	3.72	4.38	5.22	6.42	7.38	9.06	10.4	13.8	
2	✓	✓	✓	✓	✓	✓	36.5	21.8	2.94	3.6	4.62	5.46	6.54	7.98	9.24	11.3	13.2	17.4	
								25.8	3.66	4.5	5.76	6.84	8.16	10	11.6	14.1	16.2	21.6	
								28.6	4.38	5.4	6.69	8.22	9.72	12	13.8	17.1	19.5	25.8	
								27	5.1	6.24	8.1	9.6	11.5	14.1	16.2	19.8	22.8	30	
2 1/2	✓	✓	✓	✓	✓	✓	47.6	30.2	5.82	7.14	9.24	10.9	13.2	15.9	18.6	22.5	26.1	34.8	
								32.9	6.6	8.04	10.4	12.3	14.7	18	20.7	25.5	20.4	30	
								36.1	7.32	8.94	11.6	13.8	16.2	20.1	23.1	28.2	32.4	43.2	
								39.7	8.76	10.7	13.8	16.5	19.5	24	27.6	34.2	39	51.6	
3	✓	✓	✓	✓	✓	✓	57.2	36.1	8.76	10.7	13.8	16.5	32.1	24	27.6	34.2	39	51.6	
								40.5	10.3	12.6	16.2	19.2	22.8	27.9	32.4	39.6	45.6	60.6	
								44.1	11.7	14.4	18.6	21.9	26.1	32.1	37.2	45	52.2	69	
								47.6	13.2	16.2	20.7	24.6	29.4	36	41.4	51	58.8	78	
4	✓	✓	✓	✓	✓	✓	79 2/5	50.8	14.7	18	23.1	27.3	32.4	40.2	46.2	56.4	65.4	86.4	
								52.4	17.4	21.6	27.6	33	39	48	55.2	67.8	78.6	104	
								58.7	20.4	25.2	32.4	38.5	45.6	55.8	64.8	79.2	91.8	121	
								50.8	21.9	27	34.8	41.4	49.2	60	69.6	85.2	97.8	130	
	✓	✓	✓	✓	✓	✓		59.1	25.5	31.5	40.2	48.3	57	70.2	81	99	115	151	
								68.3	29.1	36	46.2	54.6	65.4	79.8	92.4	113	131	173	
								74.6	33	40.5	52.2	61.5	73.8	90	104	127	147	194	
								82.6	36.6	45	57.6	68.4	81.6	100	116	142	163	216	
	✓	✓	✓	✓	✓	✓		92.1	40.2	49.5	63.6	75.6	90	110	127	156	180	238	

实心锥螺旋喷嘴

Full Cone Spiral Nozzles

随着具有一定压力和速度的液体从上而下流过螺旋喷嘴时，其外层部分液体撞击喷嘴上成一定角度的螺旋面，从而改变喷射方向离开喷嘴。喷雾区域是由一系列连续的同轴空心锥组合而成的实心锥形雾场，该系列喷头可提供 60° ， 90° ， 120° 等不同的喷雾角度，满足不同工程需要，且在很低的操作压力下仍具有很高雾化效果，获得脱硫系统的普遍认可。缺点是容易结垢、堵塞和易碎。

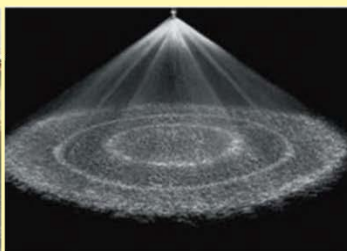
螺旋喷嘴的连接方式一般为：螺纹连接、缠绕粘接、法兰连接、卡盘连接等。

喷雾效果： 60° ， 90° ， 120°

When a liquid with a certain pressure and speed flows through the spiral nozzle from top to bottom, the outer part of the liquid impinging on the nozzle forms a helicoid with a certain angle. This will change the spray direction of the liquid away from the nozzle. The spray area is a solid conical fog field formed by a series of concentric hollow cones. The series of nozzles can provide different spray angles of 60° ， 90° ， 120° ，etc., which can meet the needs of different projects. At a very low operating pressure, the series of nozzles still has a very high absorption efficiency and excellent atomization. This has also been widely recognized by the desulfurization system.

Common connection form: winding adhesive, flanged connections and threaded connections, clamp connections.

Spray effect: 60° ， 90° ， 120°





3fen (3/8cun)



4fen (1/4cun)



6fen (3/4cun)



6fen (3/4cun)



1cun



1 cun



1cun DTJ



6fen (3/4cun)



1-1/4 cun



1-1/2 cun DTJ



1-1/2 cun screwed



1-1/2 cun screwed



1-1/2 flange



1-1/2 cun Victaulic



2 cun DTJ



2 cun screwed



2-1/2 cun



2-1/2 cun



2-1/2 cun



2-1/2 cun



2-1/2 cun flange



2-1/2 cun flange



2-1/2 cun



3cun screwed



4 cun



4 cun wrapping



4 cun wrapping



4 cun flange



4 cun victaulic



3 cun screwed



In -screwed victaulic

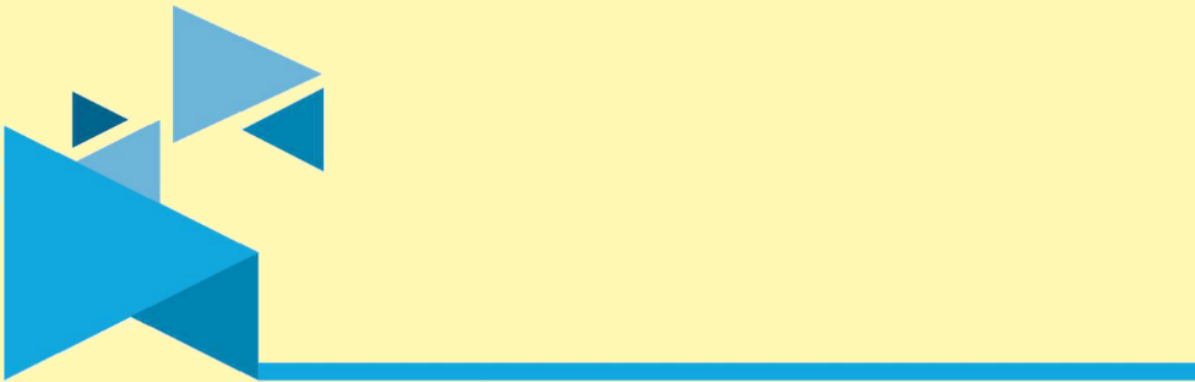


4 cun victaulic

螺旋喷嘴 参数表

Spiral Nozzles Datasheet

尺寸 Size (inch)	喷雾角度 Spray Angle			连接方式 Connection Type				最大流道 直径 Max Free Passage (mm)	压力 (bar) 流量 (m3/h) Pressure (bar) Flow (M3/h)							
	60°	90°	120°	螺纹 连接 Screw ed	卡箍 连接 Victa ulic	法兰 连接 Flang e	缠绕 连接 Wrap ping		0.5 Bar	0.7 bar	1 bar	2 bar	3 bar	5 bar	10 bar	20 bar
3/8	✓	✓	✓	✓			✓	4.8	0.58	0.68	0.82	1.16	1.42	1.84	2.59	3.67
								5.6	0.79	0.92	1.11	1.57	1.92	2.48	3.5	4.96
								6.4	1.03	1.21	1.45	2.05	2.51	3.24	4.58	6.48
								7.9	1.6	1.89	2.26	3.19	3.9	5.05	7.14	10.1
1/2	✓	✓	✓	✓			✓	9.6	2.33	2.76	3.29	4.66	5.76	7.38	10.4	14.8
								11.1	3.19	3.77	4.51	6.36	7.8	10.1	14.3	20.2
3/4	✓	✓	✓	✓			✓	12.7	4.06	4.81	5.74	8.1	9.96	12.8	18.2	25.7
1	✓	✓	✓	✓		✓	✓	15.9	6.48	7.68	9.18	13	15.8	20.5	29	41
								19.1	9.18	10.9	13	18.4	22.5	29	41.1	58.1
1 1/2	✓	✓	✓	✓		✓	✓	22.2	12.5	14.8	17.6	25	30.5	39.4	55.8	79.2
								25.4	16.3	19.3	23.1	32.7	40	51.7	73.2	103
								28.6	18.5	22	26.3	37.1	45.5	58.7	82.8	118
2	✓	✓	✓			✓	✓	34.9	27.1	32	38.3	54.1	66.6	85.8	121	171
								38.1	34.2	40.4	48.4	68.4	84	108	153	216
3	✓	✓	✓			✓	✓	44.5	49.5	58.6	70.2	99	121	157	221	313
								50.8	65.4	77.4	93	131	161	208	293	425
4	✓	✓	✓		✓	✓	✓	63.5	101	120	143	203	248	321	454	642



其他系列 喷嘴

Other Series Nozzles

脉冲喷嘴、扰动喷嘴

Pulse Nozzles & Disturbance Nozzles



DN125 disturbance



p u l s e



p u l s e



DN80 column

SMP 系列

SMP Nozzles



S M P



S M P



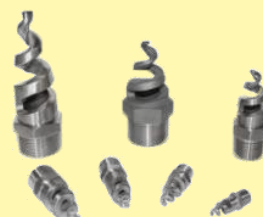
S M P



S M P

SMP 系列不锈钢 聚四氟 聚四氟 PP喷嘴

Stainless steel, PTFE, PP material nozzle

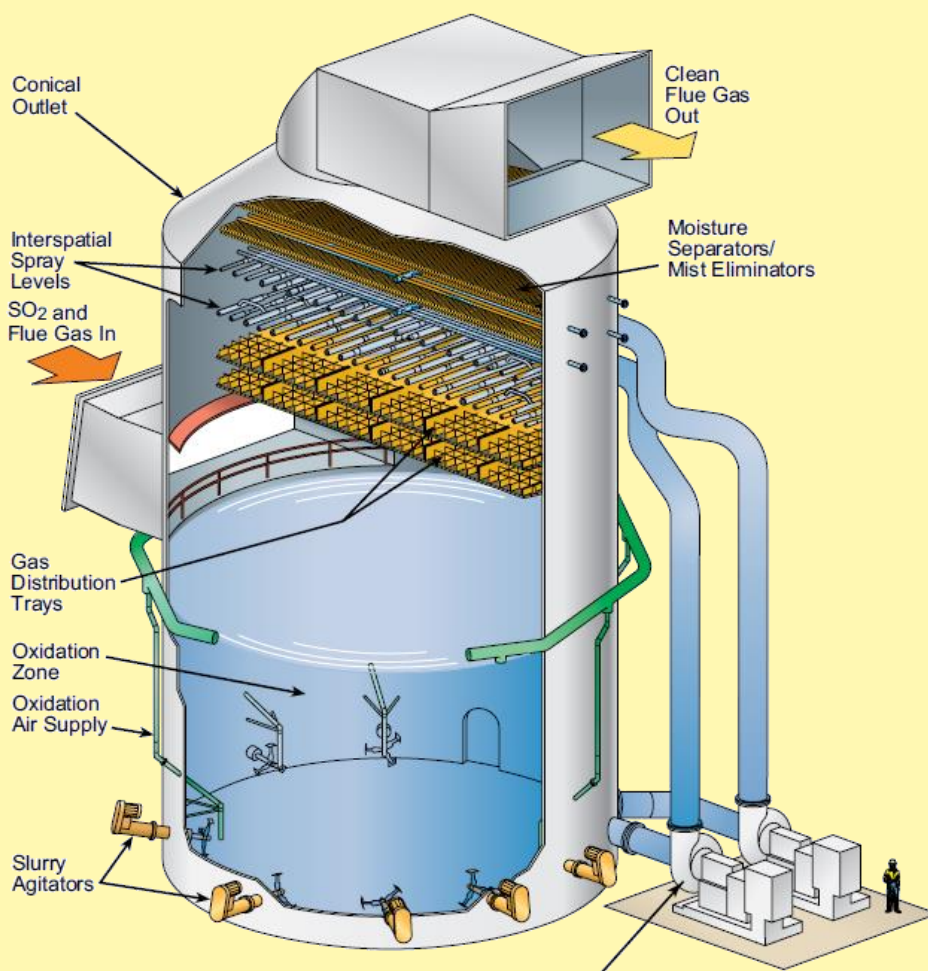


HOT高效脱硫除雾器

HOT Efficient Desulfurization Mist Eliminator

除雾器是湿法脱硫烟气净化系统中的关键设备，其性能直接影响到湿法脱硫烟气净化系统能否连续可靠运行。除雾器故障不仅会造成脱硫系统的停运，设备损坏（换热器·引风机），甚至可能导致整个机组（系统）停机。因此，科学合理地设计、使用除雾器对保证湿法脱硫烟气净化系统系统的正常运行有着非常重要的意义。

Mist Eliminator is the key equipment of wet process flue gas desulfurization system, its performance will influence the continuous and reliable operation of wet process flue gas desulfurization system. The breakdown of mist eliminator will cause the stop of desulfurization system, equipment damage (heat exchanger·induced draft fan), and even the stop of whole generating set. As a result, scientific and reasonable design and use are meaningful to ensure normal operation of wet process flue gas desulfurization system.



除雾器设计和CFD仿真

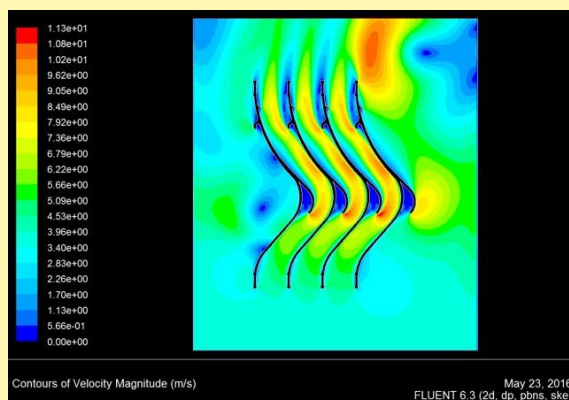
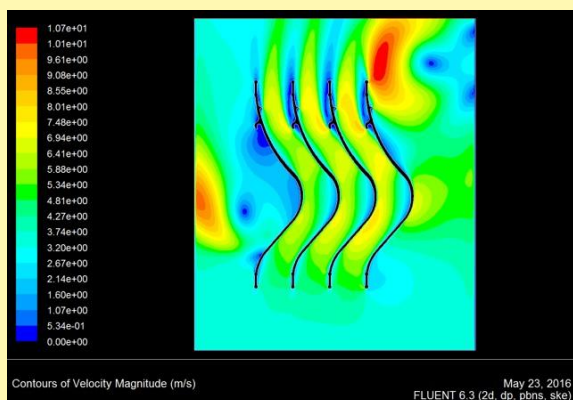
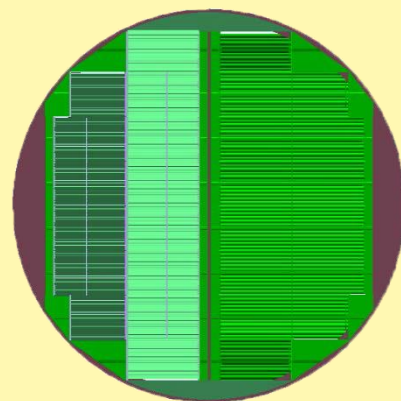
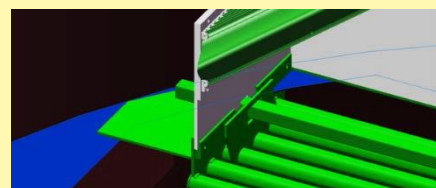
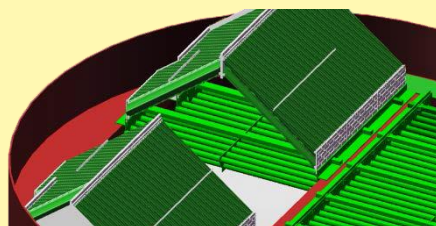
CFD Simulation and Design for Mist Eliminator

建立可视化产品设计平台对除雾器的应用状态进行可视化设计，选择影响除雾器性能的各类关键指标就显得极其重要，其作用：

- 根据吸收塔后净烟气要求决定除雾器形式和除雾器在吸收塔的布置
- 根据冲洗管布置情况模拟喷嘴的位置，保证塔截面足够的冲洗覆盖率
- 优化叶片形状
- 优化叶片的间隔
- 对烟气粉尘协同除尘效果的预评估

Establishing visual production design platform for designing the applying status of mist eliminator, selecting types of key index influencing the mist eliminator performance become very important. The effect are as following:

- Confirm the mist eliminator form and layout in the absorber according to the requirement of clean flue gas passed the eliminator.
- Simulate the location of nozzle according to the sluice line layout condition, to ensure flush cover rate of tower section.
- Optimize the shape of blade.
- Optimize the interval of blade.
- Pre-estimate the synergistic dust removal effect of flue and gas.



HOT 高效除雾器的优势

The Advantage of HOT Efficient Mist Eliminator

可选材料

The Optional Material

聚丙烯 PP、改性聚丙烯 PPH 和合金三种；
PP 最高耐受 $80 + 5^{\circ}\text{C}$ (高温烟气连续冲击 2 小时)，PPH 最高耐受 $90 + 5^{\circ}\text{C}$ ，合金 2205 最高耐受 315°C

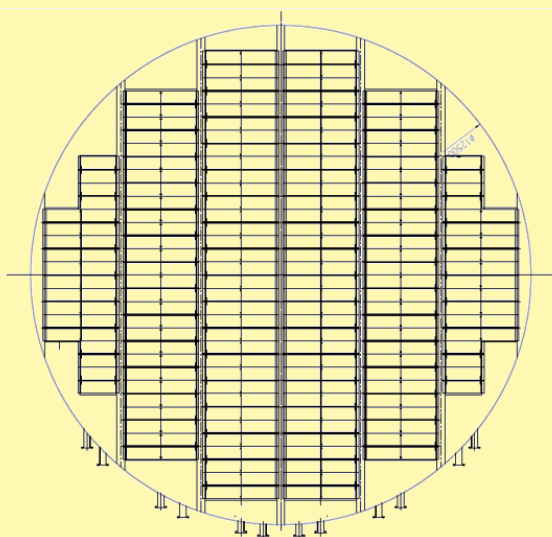
Three kinds of material: polypropylene (PP), polypropylene-homo (PPH) and alloy.
PP could bear $80 + 5^{\circ}\text{C}$ maximally (high-heat flue gas impact continuously for two hours), PPH could bear $90 + 5^{\circ}\text{C}$ maximally, alloy could bear 315°C maximally.

设计优化

Design Optimizing

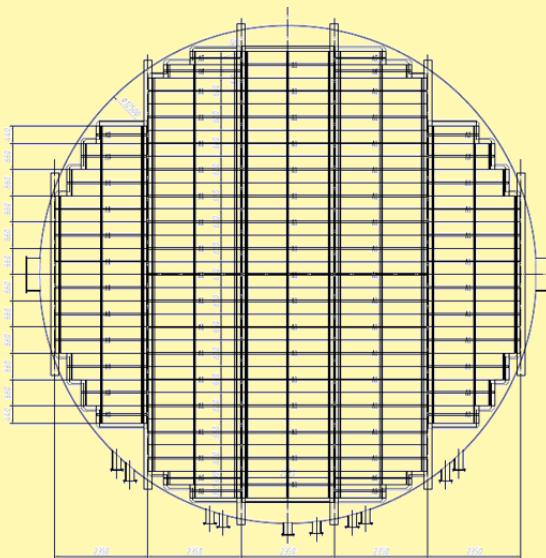
通过增加拟圆弧形非标边块设计 (提升 3 - 5%)，大梁间距优化 (提升 1 - 2%)，最大程度增加除雾器有效通流面积。

By approximate circular non-standard fringe set design (improve 3-5%), the interval between beam optimizing (improve 1-2%), increase the effective circulation area of mist eliminator maximally.



传统设计

Traditional design



优化设计

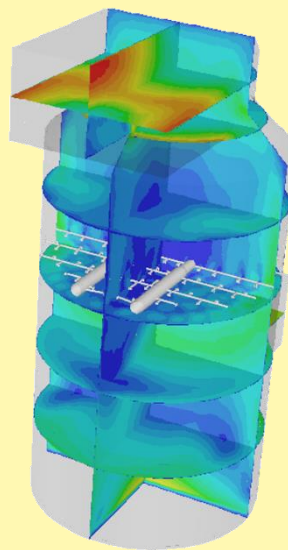
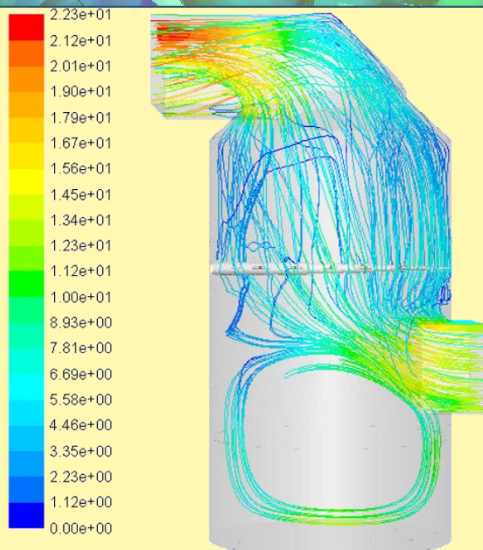
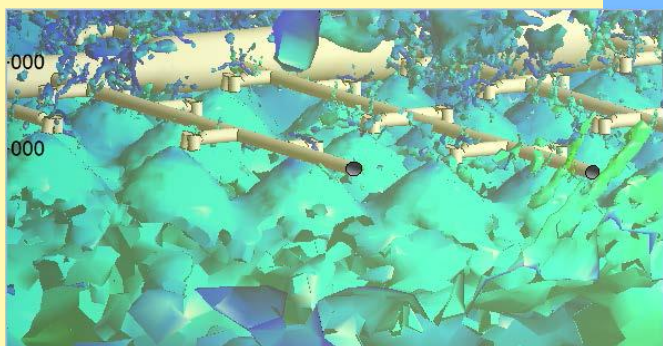
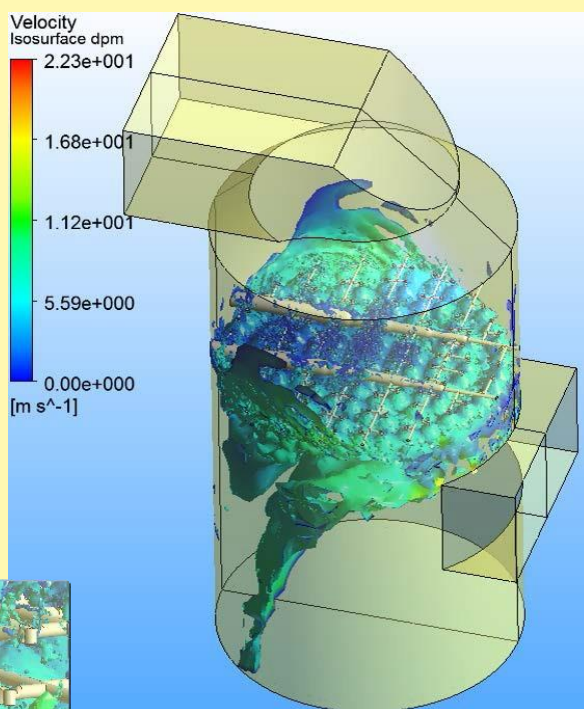
Optimizing design

模型拟合试验

Model Fitting Experiment

通过三维模型，CFD流体模型、性能模拟计算等三重数学模型来保证除雾器在任何工况下的运行效果及整体稳定性最佳

By SD model, CFD flow model and performance simulate calculation, ensure the optimum of mist eliminator's operation effect and overall stability under every condition.



加工设备

Process Equipment

采用德国进口焊接设备，配备专业焊接工程师，对焊接方法严格把控，保证焊接稳定可靠。

采用顶级 CNC 数控加工中心，加工非标板件，加工精度达到 0.02 mm。

Use the welding equipment imported from Germany, employ professional welding engineer, control the welding process, ensure the welding stable and reliable.

Adopt top CNC numerically-controlled machining center to process the non-standard plate, the precision could reach 0.02mm.



样式齐全

The Type is Complete

可分为平板式、屋脊式和水平烟道布置等，为客户提供更多重的解决方案。

The type include flat plate type, weir type, Horizontal flue type and so on. We could provide multiple solution for client.



高效除雾器参数表

Parameter List for Efficient Mist Eliminator

参数类别 Parameter type	项目 Item	内容 Content
性能参数 Performance parameter	除雾效率 Demist efficiency	一般要求的雾滴排放标准，通过两层普通平板除雾器后雾滴含量 $\leq 75\text{mg}/\text{Nm}^3$ ，通过两层屋脊除雾器后 $\leq 30\text{mg}/\text{Nm}^3$ ，通过三层除雾器后雾滴含量 $\leq 20\text{mg}/\text{Nm}^3$ 。 The normal fog drop emission standard, the content of fog drop passed two tiers normal flat plate type mist eliminators $\leq 75\text{mg}/\text{Nm}^3$, passed two tiers weir type mist eliminators $\leq 30\text{mg}/\text{Nm}^3$, passed three tiers weir type mist eliminator $\leq 20\text{mg}/\text{Nm}^3$
	压力降 Pressure drop	除雾器的压力降一般小于250Pa。 Less than 250Pa normally.
特征参数 Characteristic parameter	临界分离粒径 d_{cr} Critical separation size	其中一级除雾器分离粒径 $30\text{--}40\mu\text{m}$ ；二级除雾器分离粒径 $20\text{--}30\mu\text{m}$ ；三级除雾器分离粒径 $15\text{--}25\mu\text{m}$ 。 The separation size of first stage mist eliminator is $30\text{--}40\mu\text{m}$, the separation size of second stage mist eliminator is $20\text{--}30\mu\text{m}$, the separation size of third stage mist eliminator is $15\text{--}25\mu\text{m}$.
	临界烟气流速 Critical flue gas speed	气流高速度不能超过临界车速($6.5\text{m}/\text{s}$)；最低速度（ $4.5\text{m}/\text{s}$ ）；要保证能达到所要求的最低除雾效率。 The maximal speed of gas could not exceed critical speed($6.5\text{m}/\text{s}$), the minimum speed($4.5\text{m}/\text{s}$); ensure the minimum demisting efficiency required.
	烟气流速 Flue gas speed	根据不同除雾器叶片结构及布置形式，烟道式除雾器 $4\text{--}6\text{m}/\text{s}$ ，高效除雾器流速偏高 $3.4\text{--}4.5\text{m}/\text{s}$ ，普通除雾器 $3.2\text{--}3.4\text{m}/\text{s}$ 。 Different according to the structure and layout way of different mist eliminator. For the flue type mist eliminator, the speed is $4\text{--}6\text{m}/\text{s}$; For the efficient mist eliminator, the speed is $3.4\text{--}4.5\text{m}/\text{s}$; for the normal mist eliminator, the speed is $3.2\text{--}3.4\text{m}/\text{s}$.
	叶片间距 Interval between blade	一级屋脊除雾器叶片间距 30mm ；二级屋脊除雾器叶片间距 $27.5/25.4\text{mm}$ ；三级屋脊除雾器叶片间距 $25.4/22\text{mm}$ 。 The interval of first stage weir type mist eliminator blade is 30mm ; the interval of second stage weir type mist eliminator blade is $27.5/25.4\text{mm}$; the interval of third mist eliminator blade is $25.4/22\text{mm}$.
设计参数 Design parameter	级数 NO. of stage	推荐采用二/三级屋脊式除雾器。 Recommend to adopt double/treble stage weir type mist eliminator
	冲洗水压 Flush pressure	$2\text{--}3\text{bar}$
	冲洗水量 Volume of flush water	冲洗喷嘴水量为 $1.68\text{m}^3/\text{h}$ 或 $1.38\text{m}^3/\text{h}$ the volume of nozzle flush water is $1.68\text{m}^3/\text{h}$ or $1.38\text{m}^3/\text{h}$.
	冲洗覆盖率 Flush cover rate	$\geq 150\%$
	冲洗周期 Flush period	除雾器的冲洗周期主要根据烟气特征确定，一般以不超过2小时一次循环，也就是不冲洗为冲洗时间的3-6倍循环，单个阀门的开启时间在 $45\text{--}70\text{s}$ /次之间 The flush period of mist eliminator is mainly conformed according to the flue gas's character, one circular period is no more than 2 hours, which means the time of not flush is 3-6 times of flush time, the turn on time of each valve is $45\text{--}70\text{s}$ for each time.

公司资质 Qualification

Q987

中华人民共和国海关
报关单位注册登记证书

重要提示
报关单位应当每年6月30日前向海关
申报上一年度报关单位注册登记情况

101300004
海关注册编码:
组织机构代码:
企业名称:
北京浩沃特矿业技术有限公司
北京东城区东直门内大街
企业住所:
法定代表人:
2014年5月9日
注册日期:
有效期:
长期

**高新技术企业
证书**

企业名称: 北京浩沃特矿业技术有限公司
发证时间: 2016年12月22日
批准机关:

对外贸易经营者备案登记表

备案登记编号: 01717469
统一社会信用代码: 911101015844058442
进出口企业代码:

经营者中文名称	北京浩沃特矿业技术有限公司
经营者英文名称	Beijing HOT Mining Tech Co., Ltd.
组织机构代码	
住所	
经营场所	
经营场所	
联系人	
邮政	
工商登记	
依法办理工商	
企业法定代	
注册	
依法办理工商	
企业法定代	
个体工商	
企业资产	
备注	
注册	
地址	

填表前请认

编号: 1 0510

营业执照
(副本) (1-1)

统一社会信用代码 911101015844058442

名称 北京浩沃特矿业技术有限公司
类型 有限责任公司(自然人投资或控股)
住所 北京市东城区南竹杆胡同2号1幢7层10811
法定代表人 黄恒
注册资本 1075.2689万元
成立日期 2011年10月17日
营业期限 2011年10月17日至2031年10月16日
经营范围 技术开发、技术转让、技术咨询、技术服务;企业管理咨询;软件开发;计算机技术培训(不得面向全国招生);图文设计、制作;经济贸易咨询;货物进出口、技术进出口、代理进出口;园林景观工程设计;机械设备租赁;机械设备维修;建筑工程项目管理;工程勘察设计;销售机械设备、建材、电子产品、计算机、软件及辅助设备、文化用品、化工产品(不含危险化学品)、金属矿石、非金属矿石。(企业依法自主选择经营项目,开展经营活动;依法须经批准的项目,经相关部门批准后依批准的内容开展经营活动;不得从事本市产业政策禁止和限制类项目的经营活动。)

登记机关 北京市工商行政管理局
2018年12月11日

提示: 每年1月1日至6月30日通过企业信用信息公示系统报送上一年度年度报告并公示。
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中华人民共和国国家工商行政管理总局制

**QUALITY MANAGEMENT SYSTEM
CERTIFICATE**

Certificate No.: 00114Q211791R0S/1100
We hereby certify that
Beijing HOT Mining Tech Co., Ltd.
Organization Code Certificate: 98448074.2
Room A1012, Building 4, Beijing INN, ChaoYangMenNei Street, Beijing, China

by reason of its
Quality Management System
has been awarded this certificate for compliance with the standard
ISO9001:2008 GB/T19001-2008
The Quality Management System Applies in the following area:
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