



IK-AH 空气预热器吹灰器

air preheater sootblower

Diamond Power
Machine (Hubei) Co. Inc.
a Diamond Power International, Inc. company
戴蒙德电力机械(湖北)有限公司

IK-AH 空气预热器吹灰器

air preheater sootblower

戴蒙德IK-AH空气预热器吹灰器是以蒸汽或空气作为介质，专门用于清洁回转式空气预热器受热面上的积灰。
The purpose of the Diamond Power IK-AH air preheater sootblower is to clean the heat transfer surface in regenerative air heaters with the medium of steam or air.

IK-AH吹灰器的吹灰枪管、枪管上喷嘴的数量和口径及其布置间距等，可根据不同的空气预热器和安装要求进行专门设计。

IK-AH's lance tube, the inline nozzle's quantity, size and position are specially designed depending on the different air preheater and installation demands.

IK-AH吹灰器的运行速度的选择考虑了空气预热器的旋转速度和扇形面积，保证喷嘴向整个扇面喷射吹灰介质，从而使扇面的每一个区域都为吹灰介质所覆盖，获得最佳的吹灰效果。

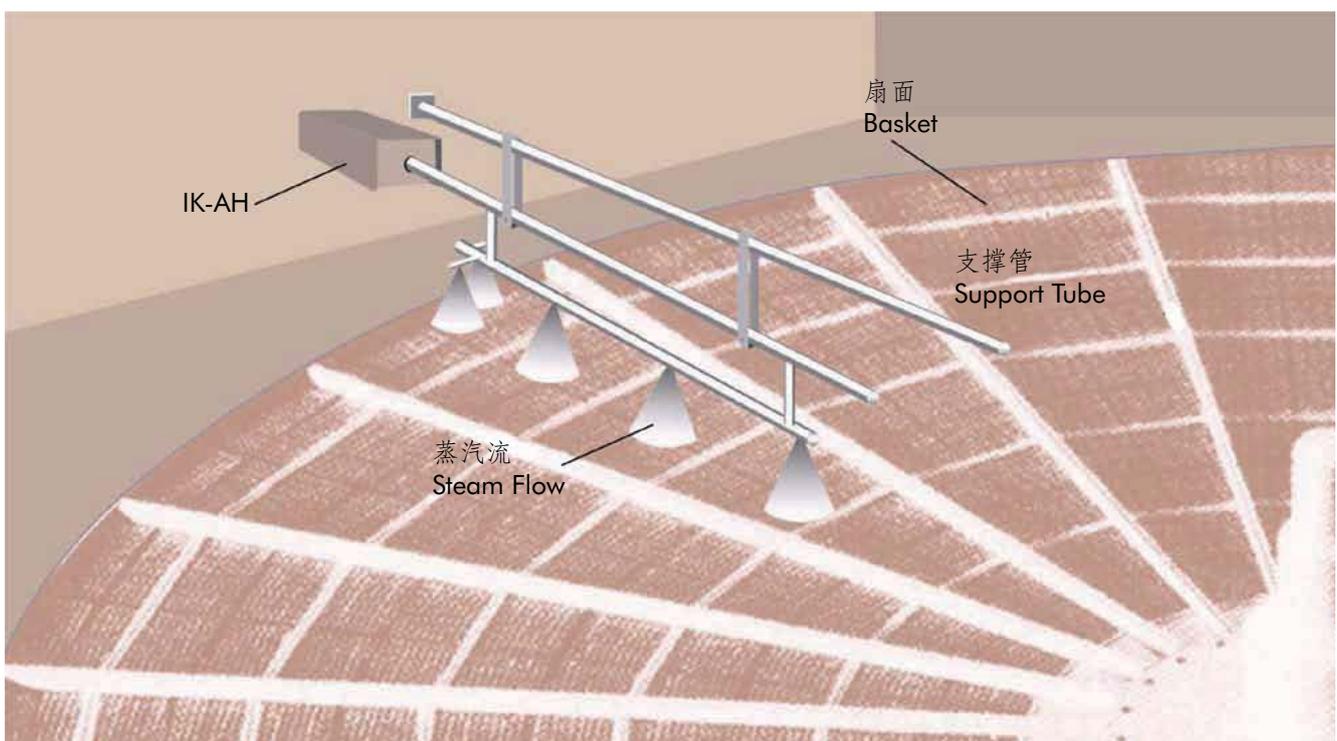
Travel speed of the nozzleed element is selected relative to the air preheater basket rotational speed and in conjunction to the basket area. This ensures complete coverage by steam flow and then provides efficiency of all portions of the basket assembly.

电源接通，IK-AH吹灰器运行一段时间后，吹灰介质被引入，齿条及齿轮传动装置将非旋转式枪管推进到整个扇面之上，该枪管的行进速度可根据扇面旋转速度进行调整，可调范围为每分钟51-203mm。

When power is supplied, the blowing medium is turned on, the rack and pinion drive propels the non-rotating cleaning element over the entire basket surface. Travel speed is adjustable from 51 to 203mm per minute to accommodate the speed of the basket rotation.

IK-AH采用戴蒙德机械式提升阀或者气缸式提升阀。阀门内部由微调装置来调节以获得最佳清洁压力。其吹灰控制系统提供压力保护装置选项，必要时可以中断吹灰动作，待压力恢复后再运行。清洁难度较大时，还可以将通常的单程吹灰改变为双程吹灰。

IK-AH is a Diamond Power IK series mechanically operated, or optional cylinder operated, poppet valve. Cleaning flow is regulated by an internal micrometer-like adjustment to provide optimum blowing pressure. An optional thermal drain system can be supplied. On compressed air blowing medium systems, the blowing control will be provided with pressure sensing devices to interrupt blower operation, if required, to allow system pressure to be restored. The normal one-way blowing cycle can be changed to a two-way blowing cycle in severe cleaning situations.



IK-AH 空气预热器吹灰器 air preheater sootblower

箱式结构钢梁体

Sturdy Box Type Structural Steel

封闭保护传动机构、电机及其他传动件。
Encloses drive mechanism, motor and other moving parts for complete protection.

空气阀
Air Valve

提升阀
Poppet Valve

通过内部微调进行压力控制，柔性阀座与阀瓣能防止热变形引起的泄露。
Flow is regulated by an internal micrometer-like adjustment, eliminating throttling between the seat and disc. The flexible seat and self-aligning disc prevent leakage from thermal distortion.

墙箱组件

Wallbox Assembly

提供前端支撑，确保垂直安装时能更加稳固地承受整个机身的总重量。

Provides support for the forward end of the sootblower assembly, sturdy enough to carry the total weight on vertically mounted blowers.



控制盒

Control Box

可就地控制，也可由吹灰程序控制。
May be operated locally or from a sootblower control system.

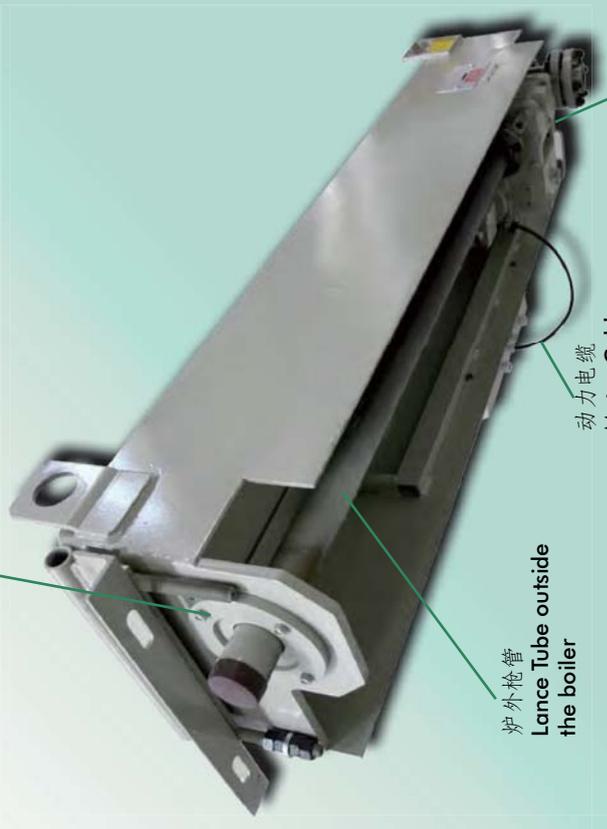
产品特点 Features:

- 合金吹灰枪管：轻型管式结构的多喷嘴枪管，其材料的选择能适应不同的腐蚀性环境。
Alloy Cleaning Element. The multi-nozzled cleaning element is constructed with material selected to meet the corrosive conditions of the particular application.
- 吹灰器水平安装与空气预热器轴的垂直方向一致，其安装位置可位于空气预热器的热侧或冷侧，或冷热两侧。
May be mounted horizontally to match orientation of vertical shaft air preheaters. It can also be mounted on either the hot side, cold side, or both.
- 单程或双程吹灰均可有效清洁受热面，并能节省吹灰介质。
Optional one-way or two-way blowing cycles allows operators to achieve effective cleaning and conserve blowing medium.
- 吹灰中断或暂停：用于压缩空气吹灰系统，它可使吹灰器在一个运行周期的某处停止，直到获得足够的喷嘴压力后再运行。
Air Blowing Lock Out, on compressed air systems, actuates at any point during cycle preventing further operation until sufficient nozzle pressure is available.
- 多种吹灰介质：可根据用户要求，使用蒸汽或压缩空气。
Multiple Blowing Medium Capability permits the use of steam or compressed air to match your requirements.

炉外枪管
Lance Tube outside the boiler

动力电缆
Motor Cable

内管
Feed Tube



全封闭的齿轮传动跑车

Totally Enclosed, All-gear Driven Carriage:

电机与跑车整体安装，省去了链条与传动轴，所有传动件密封防尘、防飞灰。
Drive carriage with integrally mounted motor eliminates external chains and drive shafts. All moving parts are sealed and protected from dirt and fly ash.

内含齿轮减速机构

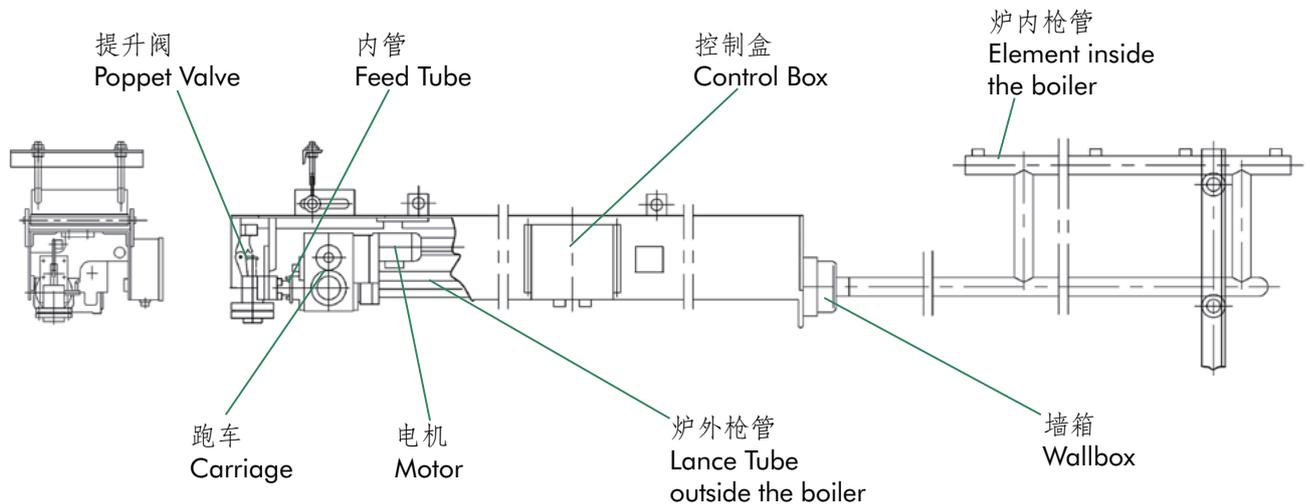
Including Gear Reducer

所有传动件处于封闭的箱体内，运行更加洁净、安全。方便更换的齿轮可改变IK-AH的行进速度，以便更好地匹配空气预热器的旋转速度。它们还使得喷嘴的清洁轨迹在扇形面上有少量重叠，以确保彻底清洁。

A totally enclosed gearbox provides clean and safe operation. Easily accessible speed gears allow for the optimization of the IK-AH's travel speed in relation to the air preheater's rotational speed. The gearing also allows a slight overlap of coverage per air preheater revolution to ensure complete cleaning.

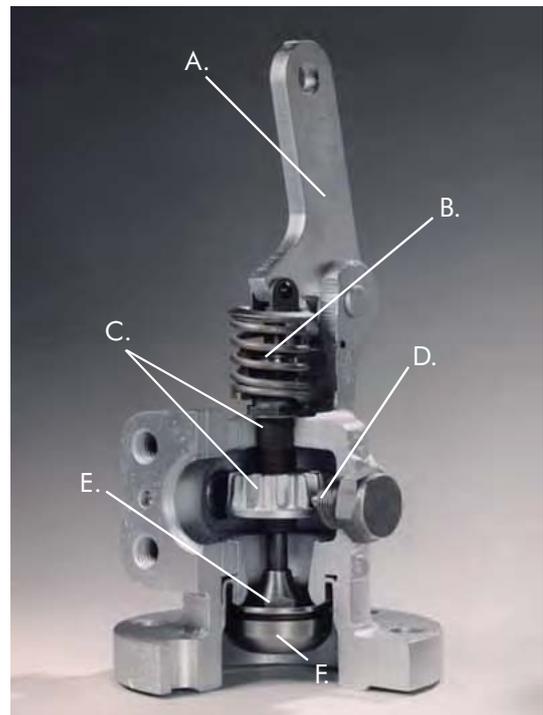
技术规格 Specifications

安装方式 Mounting Arrangement	前端与空气预热器外壳连接，后端支撑并支吊在平台上。 Rigidly mounted to air preheater casing by the wallbox assembly at the front, the rear is supported and hung on the above platform.
行程 Element Travel	最大行程1830mm Travel coverage up to 1830mm
行走速度 Travel Speed	51-204mm/min,根据空气预热器转速决定。 51-204mm/min, depending on air preheater rotor speed.
枪管材料 Material of Lance and Element	标准材料:15CrMo, 特殊要求时可采用1Cr18Ni9Ti。 $1\frac{1}{4}$ Chrome-Moly steel material is standard, 304 stainless steel available for special applications.
内管 Feed Tube	不锈钢1Cr18Ni9Ti Polished 304 stainless steel.
电机参数 Motor Data	0.18KW, 380V, 3Ph, 50Hz, 1400RPM. 其它电压及频率。 Class B insulation, IP-54 enclosure (other voltages and frequencies available).



吹灰器提升阀 Poppet Valve

- A. 机械启闭阀门;
Direct mechanical action valve.
- B. 阀杆坚固, 导向可靠。填料密封面充裕, 维护量小;
Rugged stem, hardened valve stem guide, and generous packing surface for minimum maintenance.
- C. 螺旋式调压盘可精确调节吹灰压力和流量;
An internal adjustable pressure disc allows very close regulation at low flow rates.
- D. 定位销保证设置压力恒定;
Lock pin to hold pressure setting.
- E. 一体的经研磨的钴铬钨合金阀座, 保证阀座和本体间无渗漏;
The valve seat is welded in and surface-hardened with stellite, between the seat and SB body to ensure a 100% leak-free valve.
- F. 柔性阀瓣保证良好的密封性。
Floating valve disc assures tight seating every time.



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Diamond Power Machine (Hubei) Co. Inc. (DPMH) is a wholly-owned Diamond Power International Inc. (DPII) company located in China, founded in 1987.

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