

# IK-545<sup>TM</sup> 长伸缩式吹灰器

long retractable 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-545 长伸缩式吹灰器 long retractable sootblower

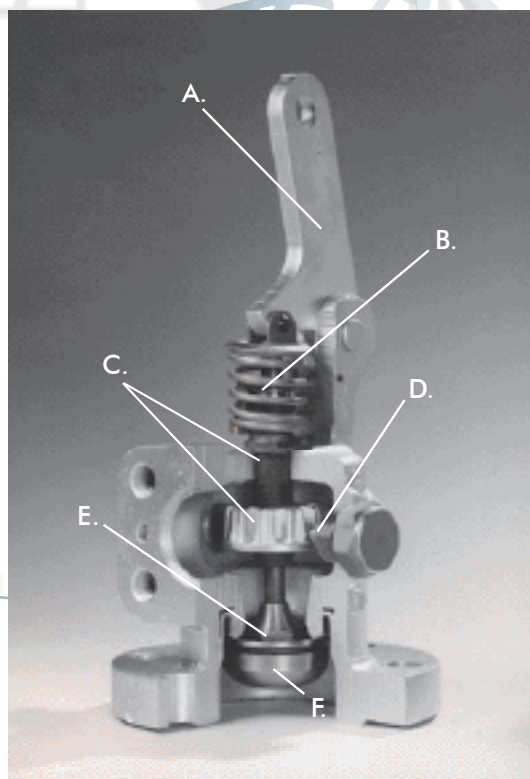
最佳投资回报  
维护成本低  
性能可靠

## 技术规格 Specifications

吹灰行程 Blower Travel	7.6 - 13.7m
行走速度 Travel Speeds	100mm螺旋线导程(helix)时, 0.9m/min, 1.78 m/min, 2.5m/min, 3.5m/min 200mm螺旋线导程(helix)时, 1.78m/min, 2.5m/min, 3.5m/min, 5m/min
电机参数 Motor Data	1.5KW, 380V, 3Ph, 50Hz, 1400RPM. B级绝缘, IP-54防护等级或其它电压及频率。 Class B insulation, IP-54 enclosure or other voltages and frequencies available.
内管材料 Feed Tube Material	1Cr18Ni9Ti
枪管材料 Lance Tube Material	30Cr1MoV 或不锈钢或高强度CrMo钢。 Stainless Steel, Croloy or high strength CrMo steel.
喷嘴数量 Number of Nozzles	2,4
喷嘴口径 Size of Nozzles	Φ19 - Φ31.75mm
吹灰介质阀门(蒸汽或空气) Blowing Medium Valve (Steam or Air)	戴蒙德提升阀, 具有柔性阀座、阀瓣和内部压力微调机构。 Diamond Power poppet valve with removable flexible seat and disc and integral adjustable pressure control.
吹灰压力 Blowing Pressure	由烟气温度和煤质状况决定。 As required for ash deposit and fuel burned.
墙箱 Wallbox	铰接形式的负压墙箱或正压墙箱。 Swivel mounting wallboxes available for pressurized and balanced draft boilers.
接口套管 Wallbox Sleeve	Φ159 × 7
其它 Miscellaneous Information	吹灰器能够由本地按钮控制, 也能够从控制板自动控制。 Blower can be operated from local push button in addition to automatic operation from a control panel.

### 吹灰器提升阀 Poppet Valve

- A.** 无需导向的阀门启闭机构;  
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.** 一体的抛光钴铬钨合金阀座经过水压试验, 保证阀座和本体间无渗漏;  
The valve seat is welded in and surface-hardened with stellite, then lapped in with the valve disc to ensure a 100% leak-free valve.
- F.** 柔性阀瓣保证每次精确定位。  
Floating valve disc assures tight seating every time.



全封闭单电机  
法兰连接的电机确保可靠的动力输送和吹灰枪旋转移动。  
**Totally Enclosed Single Drive Motor:**  
Flange mounted motor assures reliable translation and rotation during each blowing cycle.

不锈钢内管  
耐腐蚀性的抛光表面，可延长填料寿命。  
**Stainless Steel Feed Tube:**  
Corrosion-resistant with polished surface to extend packing life.

高效能文丘里喷嘴  
确保最高喷嘴效能及最大限度地利用清洁能源，精确布置的喷嘴运行平稳无抖动。  
**High Efficiency Venturi Nozzles:**  
Develop maximum nozzle horsepower and assure optimum use of cleaning energy. Balanced nozzles eliminate lance whip.

箱式结构钢梁体  
封闭保护传动机构、电机及其它传动件。  
**Sturdy Box Type Structural Steel Beam:**  
Encloses drive mechanism, motor and other moving parts for complete protection.

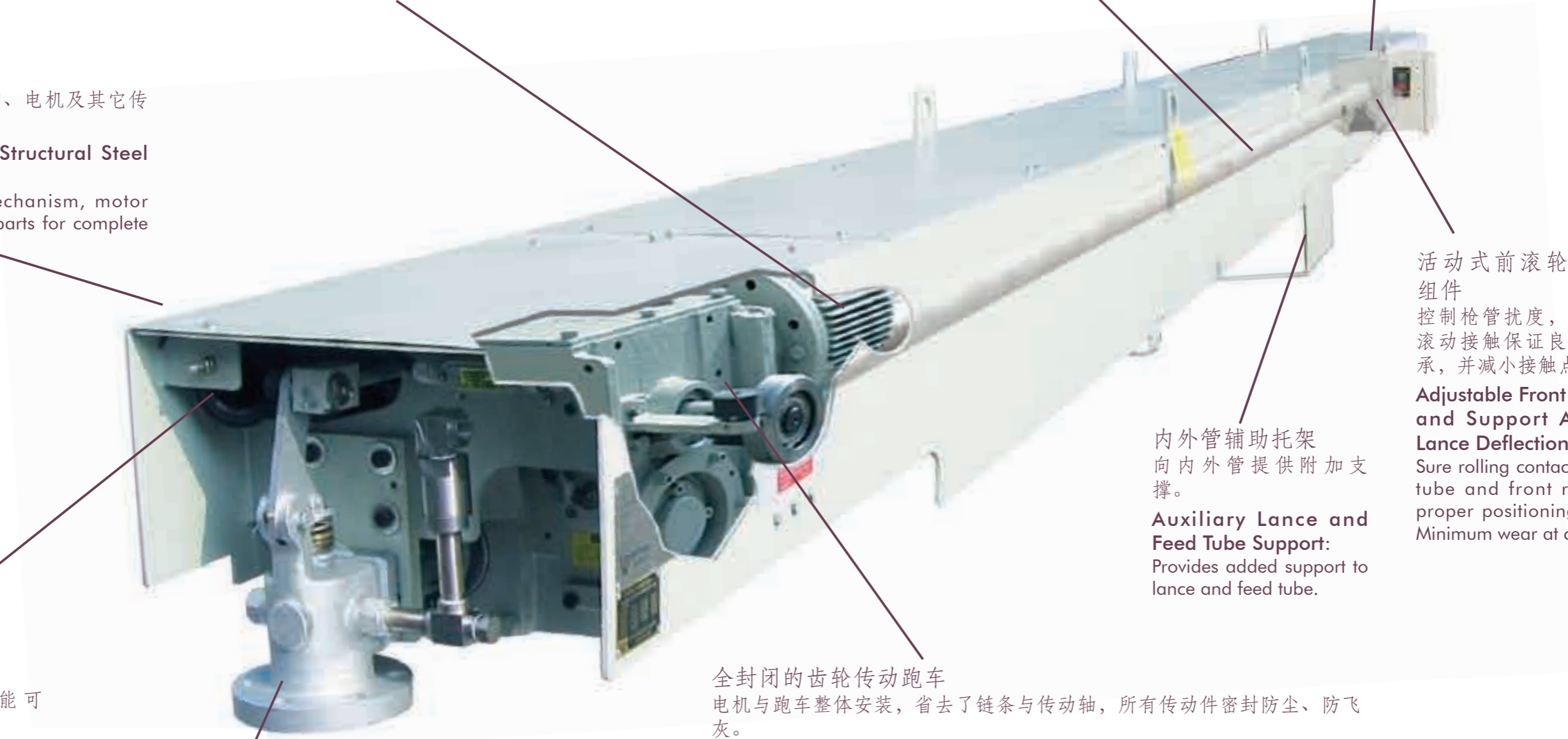
活动式前滚轮托架与支承组件  
控制枪管扰度，枪管与前滚轮滚动接触保证良好的定位与支承，并减小接触点磨损。  
**Adjustable Front Roller Bracket and Support Assembly for Lance Deflection Control:**  
Sure rolling contact between lance tube and front roller provides proper positioning and support. Minimum wear at contact points.

内外管辅助托架  
向内外管提供附加支撑。  
**Auxiliary Lance and Feed Tube Support:**  
Provides added support to lance and feed tube.

弹性电缆  
结构简单，性能可靠。  
**Expanda Cable Power Supply:**  
Simple construction and reliable performance.

全封闭的齿轮传动跑车  
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。  
**Totally Enclosed, All-gear Driven Carriage:**  
Drive carriage with integrally mounted motor eliminates external chains and drive shafts. All moving parts are sealed and protected from dirt and fly ash.

机械操作的提升阀  
无需导向的机械操作的提升阀能全程保证阀门的开启和关闭。吹灰介质(蒸汽或空气)的压力调节由单独的调压盘完成。此设计避免了当压力调整时，介质对阀门的冲击所造成的阀座和阀瓣的损伤。  
**Mechanically Operated Poppet Valve**  
Positive action poppet valve with direct mechanical actuation provides reliable full-stroke opening and closing. The pressure adjustment of the blowing medium (steam or air) is accomplished with a separate, adjustable pressure disc. This eliminates seat and disc damage that occurs when pressure adjustment is made by partially stroking a valve.



# IK-545长伸缩式吹灰器

## long retractable sootblower

IK-545吹灰器的清洁范围从7.6 到 13.7米。

The IK-545 is designed for cleaning coverages from 7.6m to 13.7m.

高效能的文丘里喷嘴确保吹灰介质(蒸汽或压缩空气)的最大冲击力和最小消耗量。

High performance Venturi nozzles provide maximum cleaning with the minimum use of the blowing medium (steam or air).

通过改变吹灰枪管伸入和退回时的清洁路径，可以减少对吹灰器周围受热面的冲蚀。可选的螺旋线相变机构(PHM)则为防止相关部位的受热面冲蚀提供了更为可靠的保障。

An "indexing" carriage minimizes sootblower-related boiler tube erosion by altering the cleaning path from insertion of the lance to retraction of the lance tube. The optional progressive Helix Mechanism™ (PHM) provides even greater protection against sootblower-related boiler tube erosion.

在具有最佳吹灰效能及可靠性的同时，IK-545型吹灰器还具备操作简单、维护方便的特点。

While the IK-545 provides maximum cleaning efficiency and reliability, it is engineered and built for simple operation and maintenance.

密封完好的正齿轮传动机构防尘、防飞灰，它直接与电机相接，省去了许多通常会造成维护费用高的零部件。

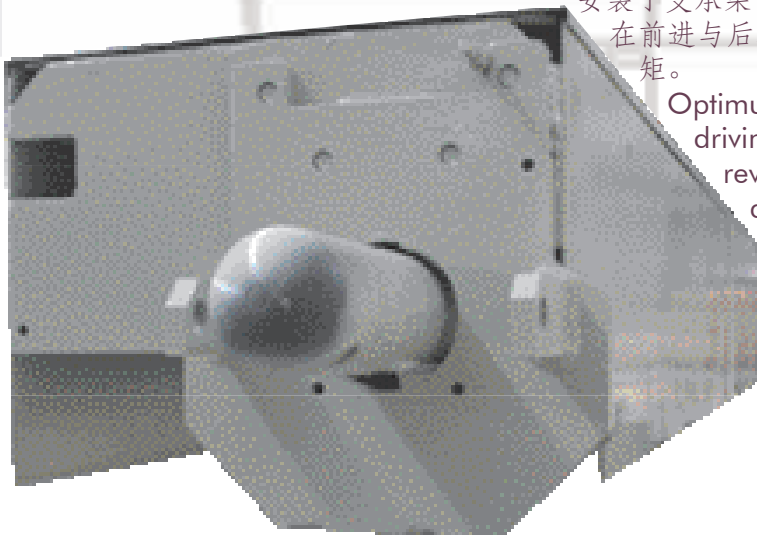
The positive gear drive is sealed against dirt and fly ash. It connects directly to the motor, and it eliminates many components that usually cause expensive maintenance problems.

封闭性箱式梁结构对所有传动件提供最大保护，驱动和旋转枪管只需一个电机，该电机电源由弹性电缆输送。

The enclosed construction of the box-type beam provides maximum protection for all working parts. Only one traveling motor, to both propel and rotate the lance, is required. Power to the motor is supplied by a durable expanda cable.

安装于支承梁两侧的传动齿轮及双齿条确保吹灰器在前进与后退时的良好稳定性及均衡的传动扭矩。

Optimum lance stability and equalized driving torques during forward and reverse travel of the blower are assured by dual rack and pinion drives, one mounted on each side of the support beam.



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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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