



IK-555™ 长伸缩式吹灰器
long travel 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

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long travel retractable sootblower

最佳投资回报
维护成本低
性能可靠

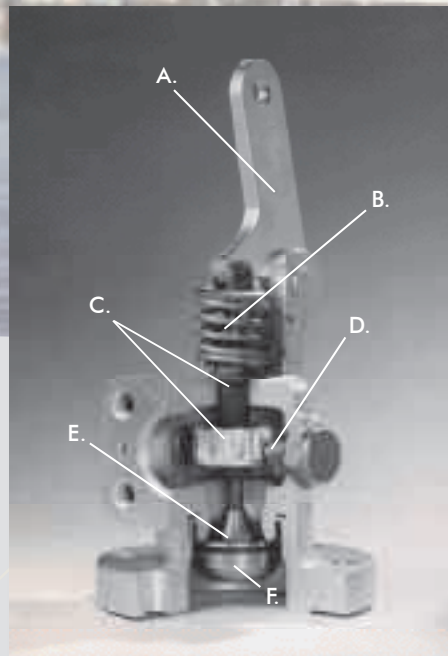
技术规格

Specifications

吹灰行程 Blower Travel	13.73 - 18.2m
行走速度 Travel Speeds	2500mm/min
螺旋线导程 Lance Helix	200mm
电机参数 Motor Data	2KW, 380V, 3Ph, 50Hz, 1400RPM, TENV. 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
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.
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	Φ273 × 10~12
喷嘴数量 Number of Nozzles	2, 4, 6
喷嘴口径 Size of Nozzles	Φ 19 - Φ 31.75mm
其它 Miscellaneous Information	吹灰器能够由本体按钮控制, 也能够从控制柜自动控制。 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 valve action.
- 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.



设计优点 Design Benefits

枪管挠度校正机构

IK-555的变轨齿条确保喷嘴始终在水平中心线附近。这种先进的枪管挠度校正机构和特定的、具有专利的喷嘴螺旋线导程能够有效地清洁整个锅炉管受热面，使枪管以最为合理的路径平稳行进。

Superior Deflection Correction

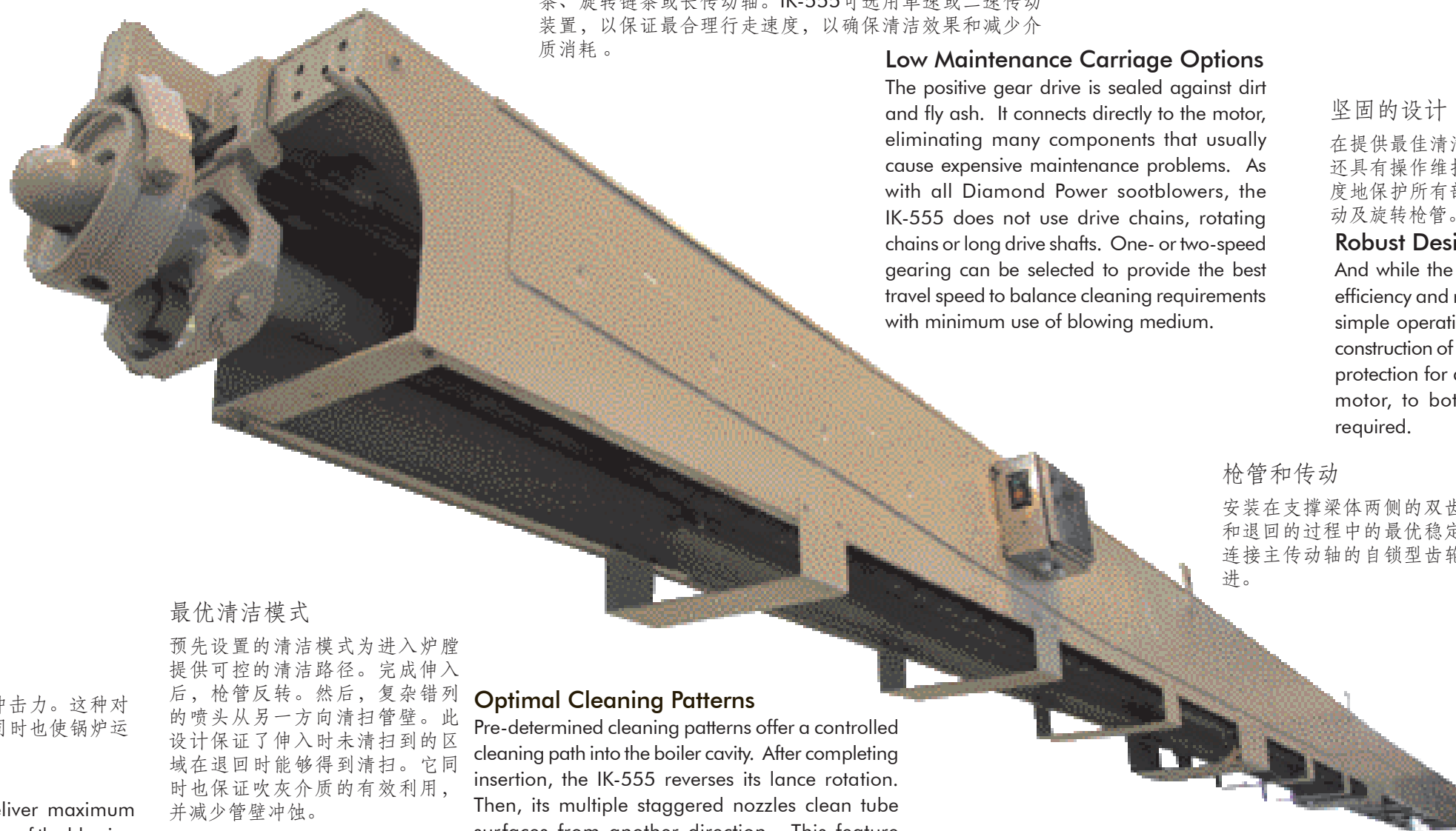
The IK-555's contoured rack ensures that the nozzle does not deflect outside a controlled, small radius. This advanced lance tube deflection control, combined with a specific, patented nozzle helix, provides effective cleaning over the complete boiler tube surface, maintaining a consistent cleaning path without whipping.

高效能喷嘴

高效能文丘里喷嘴保证最大吹灰介质冲击力。这种对吹灰介质的有效利用使清洁更彻底，同时也使锅炉运行更为经济。

High Performance Nozzles

High performance venturi nozzles deliver maximum blowing medium impact. This efficient use of the blowing medium aids in the cleaning process, and contributes to economical operation of the boiler.



低维护成本的跑车

正齿轮传动为密封装置，以防止污物和飞灰进入聚积。它直接连接于电机，省去很多通常导致维护费用偏高的元件。如其它戴蒙德吹灰器一样，IK-555没有使用动力链条、旋转链条或长传动轴。IK-555可选用单速或二速传动装置，以保证最合理行走速度，以确保清洁效果和减少介质消耗。

Low Maintenance Carriage Options

The positive gear drive is sealed against dirt and fly ash. It connects directly to the motor, eliminating many components that usually cause expensive maintenance problems. As with all Diamond Power sootblowers, the IK-555 does not use drive chains, rotating chains or long drive shafts. One- or two-speed gearing can be selected to provide the best travel speed to balance cleaning requirements with minimum use of blowing medium.

坚固的设计

在提供最佳清洁效率和性能可靠性的同时，IK-555还具有操作维护简单的特点。箱式梁体结构最大程度地保护所有部件。只需一个行进电机便能同时带动及旋转枪管。

Robust Design

And while the IK-555 provides maximum cleaning efficiency and reliability, it is engineered and built for simple operation and maintenance. 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.

枪管和传动

安装在支撑梁体两侧的双齿条和齿轮驱动装置保证枪管在伸入和退回的过程中的最优稳定性和均匀传动力矩。断电时，直接连接主传动轴的自锁型齿轮装置自动锁定，以防止枪管自行推进。

最优清洁模式

预先设置的清洁模式为进入炉膛提供可控的清洁路径。完成伸入后，枪管反转。然后，复杂错列的喷头从另一方向清扫管壁。此设计保证了伸入时未清扫到的区域在退回时能够得到清扫。它同时也保证吹灰介质的有效利用，并减少管壁冲蚀。

Optimal Cleaning Patterns

Pre-determined cleaning patterns offer a controlled cleaning path into the boiler cavity. After completing insertion, the IK-555 reverses its lance rotation. Then, its multiple staggered nozzles clean tube surfaces from another direction. This feature assures that surfaces missed on insertion are cleaned on retraction. It also provides for efficient use of the blowing medium, with less chance of tube erosion.

Lance Tube and Drive

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. As a safety feature, the self-locking gear set, connected directly to the main drive shaft, prevents the lance tube from becoming self-propelled when operating power is removed.

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在1969年，戴蒙德公司成为首家制造和安装行程超过17米的吹灰器的企业。1973年，戴蒙德公司的吹灰器又率先应用于1000MW锅炉机组。自1976年以来，戴蒙德公司是唯一拥有制造并安装1350MW锅炉机组经验的吹灰器制造厂家。

在选择应用于世界上最大锅炉的长行程吹灰器时，为何投资方、锅炉制造商以及电厂人员都不约而同地选择了戴蒙德产品呢？

- 我们的枪管设计技术先进，能够为业内行程达到18.2米的吹灰器配备最高效、最佳性价比的枪管。如果您的目标是要将蒸汽输送至汽轮机发电，枪管的工作效能非常重要——戴蒙德公司的IK-555枪管冷却所需要的蒸汽量比任何其他制造商都少10%-12%。
- 我们的变轨齿条-齿轮驱动系统能够让锅炉制造商尽量减少锅炉蒸汽产生区域的吹灰器所要占用的空间。
- 戴蒙德在锅炉清洁行业的丰富经验和其遍及世界的服务网络。

戴蒙德IK-555长伸缩式吹灰器在中国、美国以及全球的应用量已达到近5000台，已经多年实际应用验证，是您下一个项目的最佳选择。让戴蒙德的成熟应用技术和高品质产品为您服务！

In 1969, Diamond Power became the first company to manufacture and install sootblowers over 17 meters in travel. In 1973, Diamond Power became the first company to manufacture and install sootblowers on 1000 MW boilers. Since 1976, Diamond Power is the only company to have manufactured and installed sootblowers on 1350 MW boilers.

Why do investors, boilermakers and plant operators look to Diamond Power when it comes to long travel sootblowers for the largest boilers in the world?

- Maybe, it's because our superior lance tube design technology allows us to provide the most efficient and cost effective lance tube in the industry for sootblowers traveling up to 18.2 meters. The lance tube efficiency matters when your goal is to send steam to the turbine to make electricity – Diamond Power IK-555 lance tubes use 10 to 12% less steam for cooling than any of the competitors' lance tubes.
- Maybe it's the contoured rack-and-pinion drive system that allows the boilermaker to minimize sootblower cavities in the steam generating sections of the boiler.
- Maybe it's Diamond Power's extensive experience in the boiler cleaning industry and its worldwide service network.

With installations of IK-555s approaching 5,000 units in China, the USA and around the world, the Diamond Power IK-555 should be your choice for your next project. We invite you to join the many satisfied customers who are currently enjoying Diamond Power quality.

www.diamondpower.com.cn | 86.27.5922.2295

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戴蒙德电力机械(湖北)有限公司(以下简称“戴蒙德湖北”)成立于1987年，为戴蒙德国际在中国的全资子公司。

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

在锅炉清洁和灰渣处理领域，戴蒙德国际是全球公认的行业先导。一百多年以来，戴蒙德国际始终致力于为电力、造纸等工业锅炉提供锅炉清洁创新技术，解决行业最棘手的技术问题，并带来最佳回报。戴蒙德国际总部位于美国俄亥俄州兰卡斯特，并在世界各地拥有80多个销售、服务支持、分销和生产机构。

Diamond Power International, Inc. is a globally acknowledged market leader in all aspects of boiler cleaning and ash handling. For more than 100 years, DPII has consistently provided innovative technologies for power generation, pulp & paper and industrial boiler designs, proven to solve the most difficult plant challenges while delivering promised benefits. Diamond Power is headquartered in Lancaster, Ohio, U.S. with more than 80 field sales, service support, distribution and manufacturing locations worldwide.

历经百年：“信任源于经验，选择源于性能。”

For more than a century: *Trusted for Experience. Preferred for Performance.*SM



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