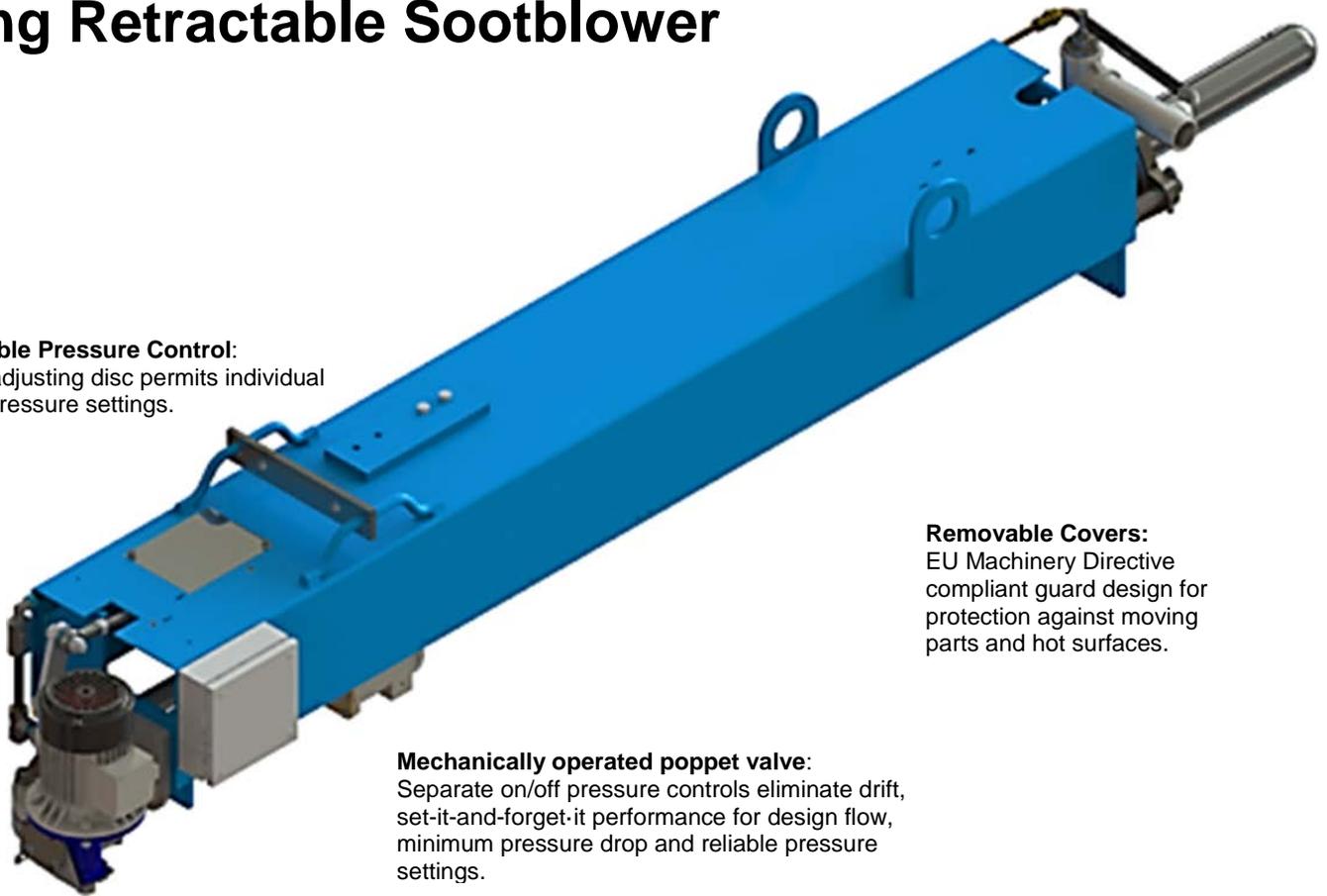


IK-4M™

Long Retractable Sootblower

Adjustable Pressure Control:

Built-in adjusting disc permits individual blower pressure settings.



Removable Covers:

EU Machinery Directive compliant guard design for protection against moving parts and hot surfaces.

Mechanically operated poppet valve:

Separate on/off pressure controls eliminate drift, set-it-and-forget-it performance for design flow, minimum pressure drop and reliable pressure settings.

Superior performance for a moderate investment

The IK-4M is the retractable sootblower that offers dual economies while assuring maximum boiler cleaning efficiency.

The IK-4M is competitively priced for use in power and industrial applications, such as oil-fired heaters, waste heat and package boilers which demand a retractable rather than a fixed-position blower. It's also an ideal substitute for some rotary blowers, since it offers improved cleaning efficiency at an economical cost.

Because of operating innovations built in by Diamond's experienced design engineers, the IK-4M conserves on expensive blowing medium

and reduces cleaning cycle time.

From the standpoint of initial investment, on-going operating expenses, and improved cleaning efficiency, the IK-4M offers substantial cost savings.

Features and Benefits

The simplified design of this sootblower has limited the total number of parts needed, cutting replacement costs and maintenance downtime. Parts are readily available through the international network of Diamond Service Centres.

The IK-4M's venturi nozzles, combined with a controlled double helix nozzle pattern, deliver maximum blowing

medium impact. Also, the cleaning pattern is predetermined, with a consistent cleaning path in both directions. The drive reverses rotation and "indexes", so that the retraction path completes the cleaning of the surfaces not covered on insertion.

Cleaning is accomplished on a different path and in a different direction with closely spaced helices. This proven approach to low-cost cleaning provides for efficient use of the blowing medium while decreasing the chance of tube erosion.

Indexing

The blowing medium cuts a path through the deposits until the lance tube reaches full travel. It then changes the retraction path to clean surfaces not covered by the forward action.

For further indexing, Diamond Power's patented Progressive Helix Mechanism is the only one of its kind that will index the lance tube an exact, predictable amount at the start of each cycle. This improves cleaning and reduces boiler tube erosion

caused by excessive sootblowing.



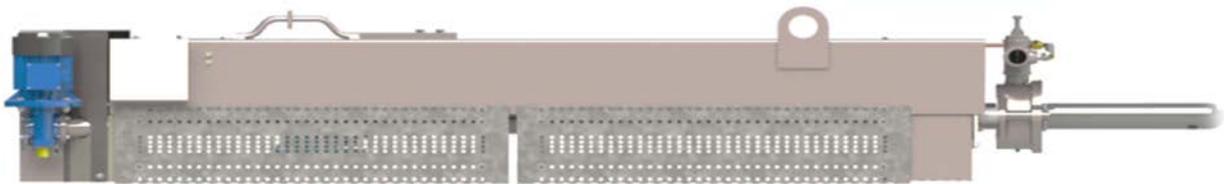
High Performance Nozzle

The cleaning medium is delivered through high performance venturi nozzles. The investment cast stainless steel nozzle converts high pressure air or steam into a

high velocity jet - conveying maximum energy to remove tenacious slag deposits. The double-helix pattern ensures an even cleaning path.

Health & Safety

All Diamond Power® sootblowers are provided with protective guard arrangements to provide personnel safety from moving parts and hot surfaces in full compliance with the EU Machinery Directive.



Specifications:

Blower Coverage	Up to 6,500mm
Motor Data	Single Electric Motor: 0.75 kW, TEFC, IP55
Travel Speed	42mm/s with 100mm Helix
Blowing medium valve	Diamond Power® mechanically operated poppet valve with integral pressure adjustment.
Blowing Medium	Steam or air up to 128barg at 500°C.
Feed tube material	304 Stainless Steel, ground and polished OD
Lance Tube	Carbon steel, low alloy chromium molybdenum steel and high alloy stainless steel.
Drive	Dual Rack and Pinion drive arrangement
Plus Pressure	Seal Air 0.54-1.8 Nm ³ /min 150mm W.G. above furnace pressure.
Protection	Fully guarded in compliance with EC Machinery Directives.

www.diamondpower.co.uk



This information contained herein is solely for informational purposes and is not offered, nor should be construed as a warranty or contractual obligation. Diamond Power International, Inc. reserves the right to make design or material changes without notice.

