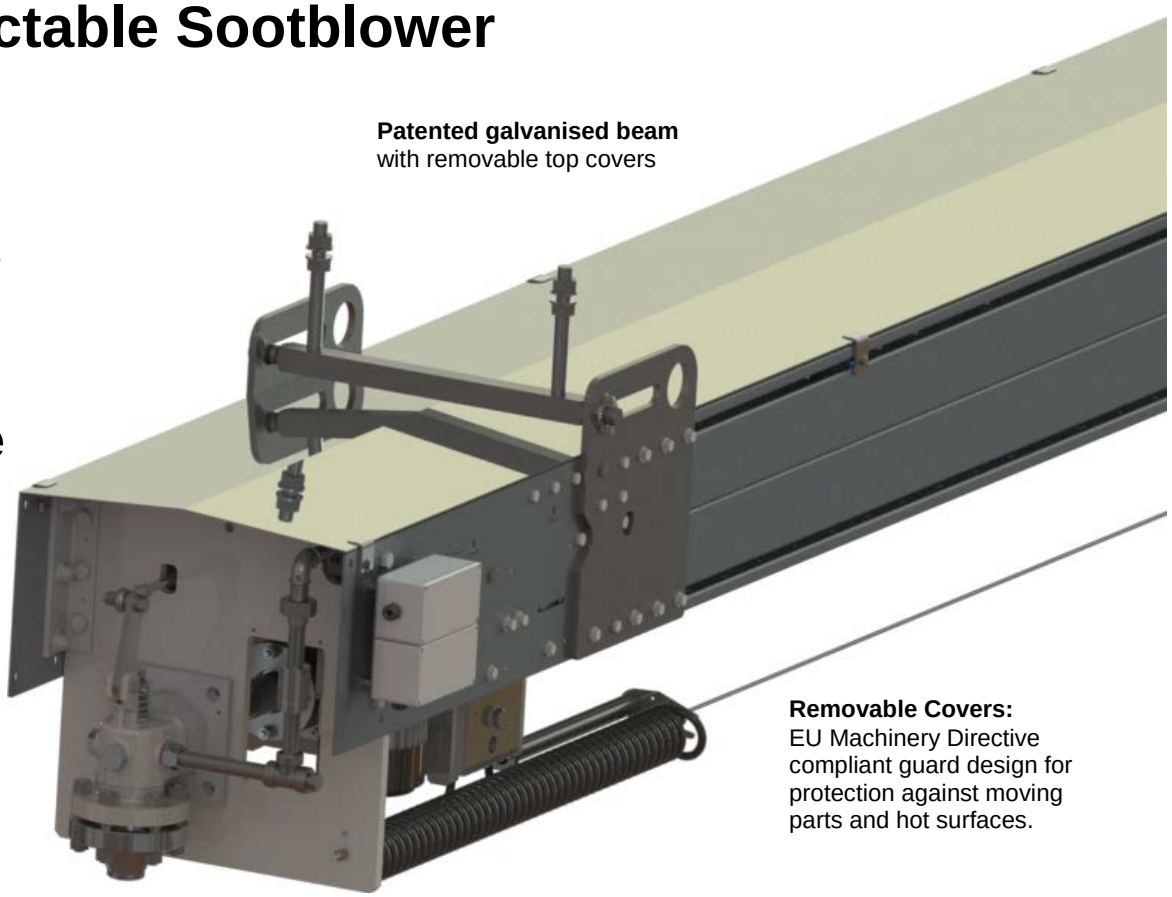
IK-9M™

Long Retractable Sootblower

Superior performance with ease of maintenance



Patented galvanised beam
with removable top covers

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

Mechanically operated poppet valve:
Built-in adjustable pressure control.

The IK-9M™ long retractable sootblower builds upon Diamond Power's expertise in providing high quality innovative solutions, where ease of installation, service and maintenance is applied to the whole soot blower.

Diamond Power's IK-9M™ retractable sootblower is designed specifically for low maintenance, reliability, versatility and maximum cleaning performance.

Incredibly rugged, this sootblower stands up to the most severe environment and can be used in the Pulp & Paper, Utility and Industrial plants. Effective cleaning is the most important aspect of a sootblower. The IK-9M™ uses a nozzle assembly with advanced design venturi nozzles to convert high-pressure air or steam into a high velocity jet delivering the maximum impact energy to remove tenacious slag deposits.

Features and Benefits

The patented soot blower frame consists of high-strength, pre-galvanized, side plates connected to each other with front and rear bulkheads and intermediate plates. The beam "roof" is covered with removable, Galvanized panels providing full service access along the complete length of the soot blower from above.

The carriage is a permanently lubricated, maintenance-free unit that is guaranteed to operate reliably without leakage for many years. Using advanced high-temperature bearings, this state-of-the-art carriage will accumulate tens of thousands of cycles without any maintenance other than packing changes. It offers the ultimate in long term reliability and cleanliness.

The IK-9M™ sootblower is built using pre-galvanized materials which are included in Swedish Pulp and Paper Industry's technical co-operative organization (SSG 1012).

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The IK-9M™ sootblower is available with the following options to reduce maintenance costs and provide enhanced sootblower cleaning performance:

Diamonized® Feed Tube:

The Diamonized® feed tube surface is 20 percent harder than chrome, with virtually no potential for cracking. There is no applied coating so there is no possibility for delamination or "orange peel." This means longer feed tube and packing life, fewer replacements and substantial maintenance cost savings.

Progressive Helix Mechanism

Diamond Power's patented Progressive Helix Mechanism (PHM) improves nozzle cleaning coverage by incrementally changing the nozzle path.

The PHM is a precision-geared indexing mechanism which precisely shifts the nozzle starting position every cleaning cycle for more complete cleaning and reduced tube erosion damage.

Gemini™ Sootblower Nozzle:

This sootblower nozzle delivers maximum cleaning energy from both jets, dramatically improving cleaning performance and/or permitting significant reductions in steam consumption.

Operating costs are typically 20 percent lower than for the previous best available nozzle from Diamond Power.

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 12,000mm
Motor Data	Single Electric Motor: 1.1 kW, TEFC, IP55
Travel Speed	45mm/s with 100mm indexing 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.

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