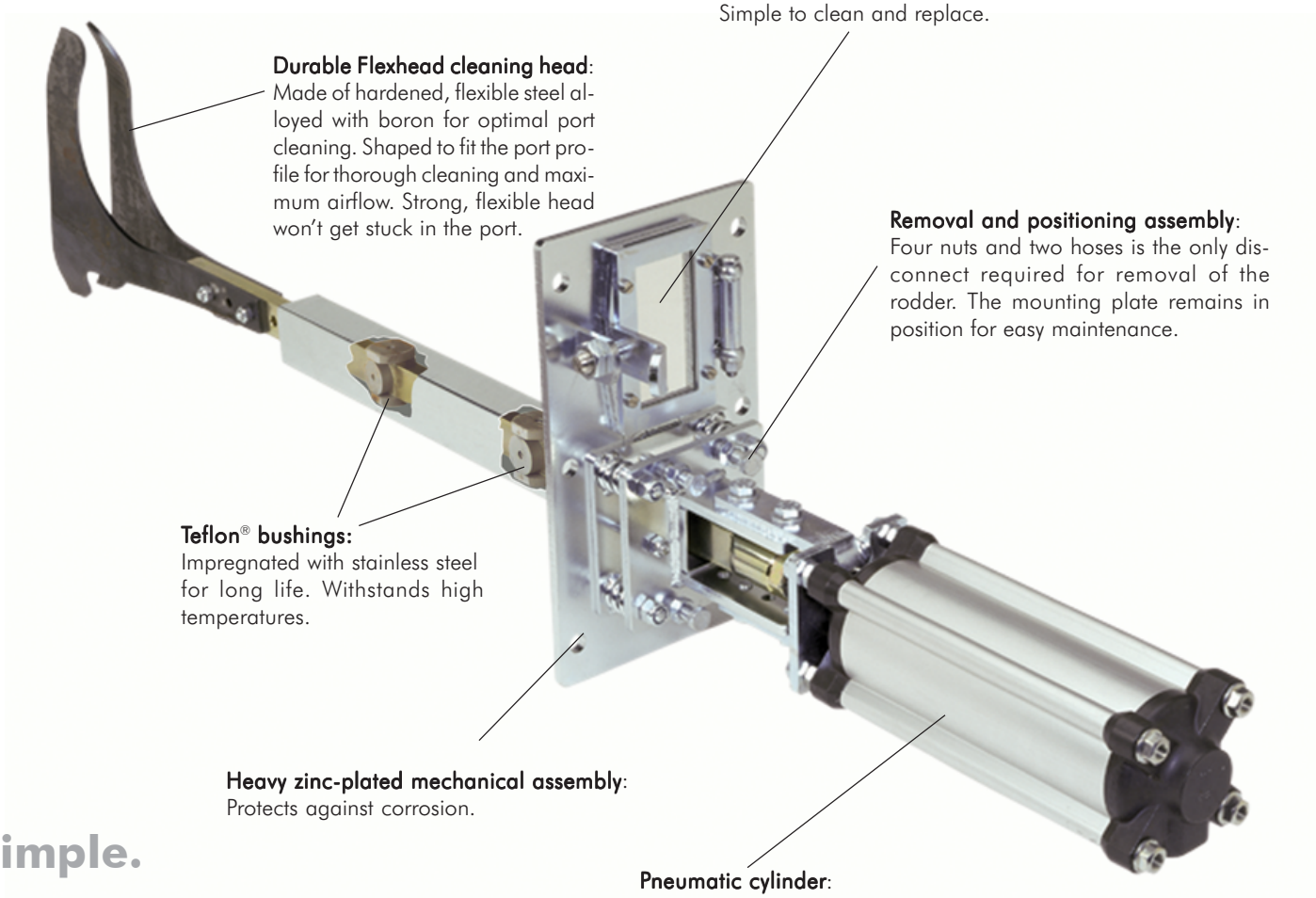
FlexRod™

port rodder

for automated port cleaning



Durable Flexhead cleaning head: Made of hardened, flexible steel alloyed with boron for optimal port cleaning. Shaped to fit the port profile for thorough cleaning and maximum airflow. Strong, flexible head won't get stuck in the port.

Easily replaceable view glass: Large opening provides full visibility. Simple to clean and replace.

Removal and positioning assembly: Four nuts and two hoses is the only disconnect required for removal of the rodder. The mounting plate remains in position for easy maintenance.

Teflon® bushings: Impregnated with stainless steel for long life. Withstands high temperatures.

Heavy zinc-plated mechanical assembly: Protects against corrosion.

Pneumatic cylinder: Provides single-stroke, automated port cleaning. All seals made of Viton® fluoroelastomer (resistant to 400°F/200°C). Sequence regulated by a PLC or existing DCS. One cylinder per port.

Simple.

Reliable.

Robust.

Teflon® and Viton® are registered trademarks of the DuPont Company and DuPont Dow Elastomers.

The FlexRod™ port rodder (for all recovery boiler makes and models) cleans the entire port in a single stroke. With no exposed moving parts to endanger mill personnel, this port rodder is safe and easy to use. Plus, it's low-maintenance.

Simple to install, the FlexRod™ port rodder is even simpler to maintain. Just four nuts and a matter of minutes is all it takes for installation and removal.

One-stroke cleaning eliminates high-wear ratcheting and camming for consistent, thoroughly clean ports, less process variability and more stable boiler operation.

The FlexRod™ port rodder is more dependable thanks to its innovative, Swedish design ... a design so reliable that it doesn't even need limit switches.

It's a robust performer, too. The unique Flexhead cleaning head is made of steel alloyed with boron for high-temperature, wear-resistant performance. And, at less than 30 pounds (13.5 kg), the FlexRod™ port rodder is the most compact, lightweight design available.

Diamond Power International, Inc.™

Air supply header
1" (25 mm) stainless steel.

Air requirements
90 psi (6 bar). Uses dry mill air.

Cleaning head (Flexhead)
Made of high-temperature, wear-resistant material alloyed with boron.

Control box
Stainless steel, waterproof (NEMA 4X). ISO 3 solenoid valve. Push-button for manual activation in groups of 2-4 units. Mounts on hot-dipped galvanized steel cable ladder with stainless steel brackets. Cable ladder length is customized to suit the length of the boiler wall.

Cylinder diameter and stroke
3-1/8" (80 mm) diameter. 7-7/8" (200 mm) standard. Other cylinder strokes available.

Electrical requirements
110 volts, 60 Hz solenoid valve coil.

Mounting arrangements
Wallbox or plate mounting.

Port profile
Adaptable to any port size or shape.

Weight
Less than 30 lbs. (13.5 kg).

- **In-stock parts (in both North America and in Europe).**
- **Renowned Diamond Power service.**
- **Complete turnkey installation.**

A complete installation of FlexRod™ port rodders replaces difficult, hot and dangerous manual port cleaning and is ideal for both primary and secondary air levels.

Diamond Power International, Inc. is a leader in advanced boiler cleaning technology. For over a century: *Trusted for experience. Preferred for performance.*

Diamond Power International, Inc.has more than 80 field sales, service support, distribution, and manufacturing locations worldwide. For more information, call your Diamond Power International, Inc. representative.

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