



High Temperature Resistant Decorative Fabric Ribbon Overload Protection for Safe and Durable

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Huarui
- Model Number: DF2501



Product Specification

- Material: High Temperature Resistant
- Safety Features: Overload Protection
- Vibration Force: Strong
- Noise Level: Low
- Durability: High
- Weight: Lightweight
- Operating Pressure: Adjustable
- Size: Customizable
- Highlight: **high temperature resistant fabric ribbon, decorative ribbon overload protection, pneumatic refractory lining vibrator fabric**

Product Description

Product Description:

The performance and longevity of any high-temperature vessel—be it an induction furnace, ladle, or tundish—are not solely determined by the quality of the refractory castable, but by the integrity of its installation. Voids, honeycombing, and inconsistent density are the silent killers of refractory linings, leading to premature failure, breakouts, and unplanned downtime that cost thousands in repairs and lost production.

The Huarui Pneumatic Refractory Lining Vibrator is the definitive engineering solution to this challenge. It transcends traditional manual rodding or external vibration by delivering powerful, high-frequency, internal vibration directly throughout the refractory mass. This process efficiently expels entrapped air and forces particles to consolidate into a near-theoretical maximum density.

The result is a monolithic lining with superior strength, enhanced erosion resistance, and a dramatically extended operational life. It is the indispensable tool for transforming premium refractory materials into a flawless, high-performance protective barrier.

Features:

Vibrating Technology by Huarui

Unlike external vibrators that act on the formwork, Huarui's pneumatic vibrators work from within. The core of the tool is a precision-engineered pneumatic motor that utilizes compressed air to drive an off-balance weight at extremely high rotational speeds.

Vibration Generation

The rapid rotation of the eccentric weight generates powerful centrifugal forces, which are translated into high-frequency, low-amplitude vibrations along the length of the vibrator head.

Energy Transfer

When this vibrating head is inserted into the refractory castable, the kinetic energy is transmitted radially into the material.

Particle Rearrangement

This energy input drastically reduces the internal friction between refractory particles (aggregates and fines) and liberates entrapped air. The material momentarily behaves like a viscous fluid, allowing particles to settle into a tightly packed, homogenous structure under the force of gravity.

Efficient Compaction

The process continues as the vibrator is progressively withdrawn, creating a continuous zone of high density without laminations or weak planes.

Technical Parameters:

Unrivaled Lining Density and Consistency:

Achieving over 95% of the castable's theoretical density, our pneumatic vibrators create a uniform, non-porous structure. This effectively resists metal and slag penetration, reducing lining wear and the risk of breakouts.

Dramatically Extended Lining Life:

By eliminating voids and ensuring full development of the castable's cured strength, our vibrators can increase the service life of a lining by 20-30% or more. This delivers a substantial return on investment.

High-Efficiency Operation:

Pneumatic power provides an exceptional power-to-weight ratio, enabling rapid compaction and significantly reducing installation time compared to manual methods. This leads to faster vessel turnaround and increased production availability.

Robust and Maintenance-Friendly Design:

With a simple internal mechanism and the cooling effect of exhausting air, our vibrators are built for durability in harsh environments. They are less prone to overheating than electric counterparts and are designed for easy disassembly and service.

Enhanced Operational Safety:

Intrinsically Safe: As a purely pneumatic tool, it produces no sparks, making it inherently safe for use in potentially dusty or hazardous environments.

Thermal Protection: Operators can handle the tool for extended periods without the burn risk associated with high-temperature external vibrators attached to formwork.

Optimized Vibration Characteristics:

We offer a range of models with specific frequencies and amplitudes. This allows you to select the perfect tool for your refractory's particle size distribution and rheology, from dense, low-cement castables to insulating mixes.

Applications:

The HR-PRV Series is designed to cater to a broad range of refractory installation tasks:

Induction and Electric Arc Furnaces: This involves the lining of sidewalls, roofs, and bottoms to provide maximum resistance against chemical and mechanical erosion.

Steel Ladles and Transfer Ladles: The focus here is on creating a dense, monolithic working lining that can withstand the thermal shock and abrasive slag experienced during each tap.

Tundishes: The installation process emphasizes precise compaction of impact pads, dams, and weirs, which play a critical role in controlling steel flow and maintaining quality.

Incinerators, Boilers, and Kilns: Our expertise extends to installing high-temperature castable linings in various thermal processing units.

Patching and Repair Work: We excel in the effective consolidation of gunning mixes or patching castables in localized repair areas.

Customization:

Product Customization Services for the Pneumatic Refractory Lining Vibrator:

Brand Name: Huarui
Model Number: DF2501
Place of Origin: China
Vibration Force: Strong
Size: Customizable
Safety Features: Overload Protection
Durability: High
Application: Refractory Lining

Support and Services:

Our Product Technical Support and Services for the Pneumatic Refractory Lining Vibrator include:

- Installation guidance and support to ensure proper setup of the vibrator
- Troubleshooting assistance to address any operational issues that may arise
- Maintenance recommendations to prolong the lifespan of the product
- Product training sessions for users to optimize the performance of the vibrator
- Warranty coverage and repair services for eligible issues

Packing and Shipping:

Product Packaging:

The Pneumatic Refractory Lining Vibrator is carefully packaged to ensure safe delivery. It is securely placed in a sturdy cardboard box with ample padding materials to prevent any damage during transit.

Shipping:

Once your order is confirmed, the Pneumatic Refractory Lining Vibrator will be shipped using a reliable courier service. You will receive a tracking number to monitor the delivery status of your package. We strive to deliver your product in a timely manner to your specified address.

FAQ:

Q: What is the brand name of this pneumatic refractory lining vibrator?

A: The brand name is Huarui.

Q: What is the model number of this pneumatic refractory lining vibrator?

A: The model number is DF2501.

Q: Where is this pneumatic refractory lining vibrator manufactured?

A: It is manufactured in China.

Q: What is the power source for the pneumatic refractory lining vibrator?

A: The power source is pneumatic.

Q: What is the purpose of a refractory lining vibrator?

A: The refractory lining vibrator is used to effectively compact and settle refractory materials in industrial applications.



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