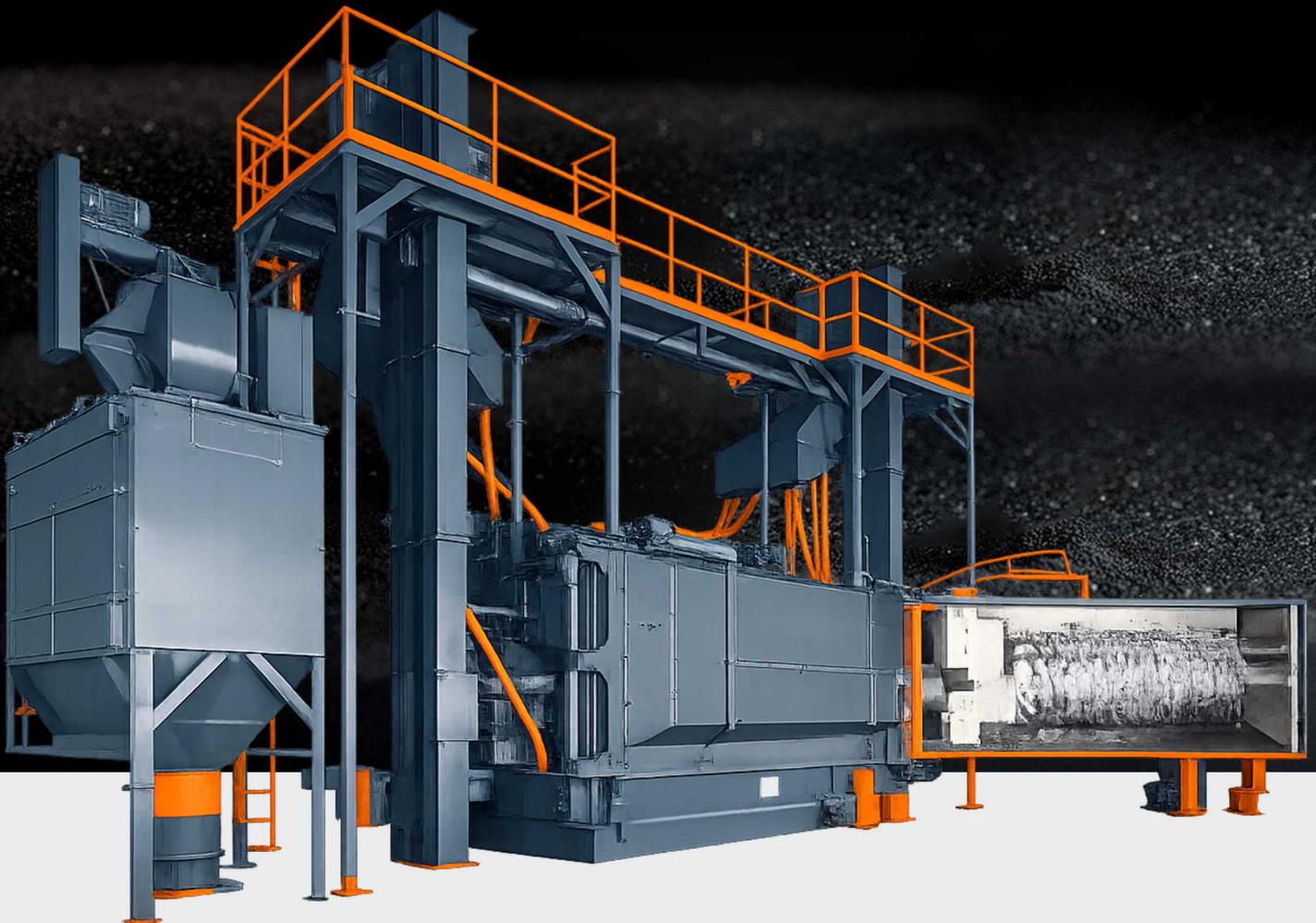




WIRE ROD COIL SHOT BLASTING MACHINE

Efficient Surface Cleaning for Wire Rod Coils



◆ Machine Description

Wire Rod Coil Shot Blasting Machines are specially designed for cleaning and descaling wire rods and coils before further processing. Using high-speed abrasive blasting, these machines effectively remove rust, mill scale, and surface impurities, ensuring a smooth and clean finish. This process improves surface adhesion for coating, drawing, or other downstream treatments.

Built with robust construction and advanced blasting technology, these machines deliver consistent cleaning results with high efficiency. They reduce manual handling, improve productivity, and extend the service life of wire products. Widely used in steel plants, metal processing, and manufacturing industries, they guarantee reliable performance and superior surface quality.



Features Construction



Blast Cabinet



Mandrel



Blast Wheel

◆ Abrasive Recovery System

- Heavy-Duty Bucket Elevator Efficient vertical recovery and recirculation of abrasive for continuous operation.
- Cast Steel Buckets High-strength buckets offering excellent wear resistance and long service life.
- High-Efficiency Airflow Abrasive Cleaning System Removes dust and fines to maintain consistent abrasive quality.
- Upper Screw Conveyor with Wear-Resistant Spiral Ensures smooth abrasive transfer with low maintenance.
- Abrasive Storage Hopper Stores clean abrasive for uninterrupted blasting.
- Precision Flow Control Valve Delivers uniform abrasive feed for consistent blasting results.
- Maintenance Platform Provides safe and easy access for inspection and servicing.

◆ Dust Collector

- Heavy-duty MS fabricated construction with 3.2 mm thick steel body for durability.
- Cartridge type filter with reverse pulse jet cleaning for continuous dust extraction.
- High filtration efficiency up to 0.5 micron with 99.9% dust separation.
- Emission level maintained below 1 mg/m³ to meet environmental standards.
- 200-liter dust accumulation drum with lid for safe dust collection.
- Intermediate gravitational separator to reduce dust load and prevent abrasive carryover.
- Easy access design for quick maintenance and long filter life.

◆ Electrical Component

- Control panel divided into four (4) separate cabinets for organized and safe operation.
- Main control cabinet equipped with contactors, electro-valves, and associated control components.
- Operation control cabinet – 24 V for safe and reliable operator control.
- Two operation mandrel cabinets – 24 V, mounted on each door for easy accessibility.
- Electrical components and motors selected as per customer requirements and applicable standards (IEC, NEMA, UL, etc.)
- Siemens S7-1200 PLC based control system for precise and reliable machine operation.

Total connected power:

- COIL-4: 347 HP / 260.25 kW
- COIL-5: 464 HP / 348 kW



Abrasive Recovery System



Dust Collector



Electrical Component

◆ Wire Rod Coil Shot Blasting Machine



Machine Layout

- A – Dust Collector System
- B – Blast Wheel Units
- C – Shot Blasting Chamber
- D – Abrasive Recovery System
- E – Loading & Unloading System
- F – Bucket Elevator

Technical Specification

S. No.	Description	WRC-2000-4W	WRC-3000-6W
1.	Coil / Rod Diameter (mm)	2000	3000
2.	Maximum Coil Weight (kg)	1000	1500
3.	No. of Blast Wheel	4	6
4.	Power of Blast Wheel	15 HP	15 HP
5.	conveyor / Rotation Speed	0.5–2 m/min (variable)	0.5–2 m/min
6.	Type of Dust Collector (As per demand)	Pulse JET	Pulse JET
7.	Height of the Machine (mm)	7000	7500
8.	Roller / Coil Pitch (mm)	900	900
9.	Requirement of Pit	No	No

Note: We also customize the design & manufacture the machine as per customer requirements

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SHOT BLASTING
An ISO 9001:2015 Certified Compy