



PEB STRUCTURE ROLLER CONVEYOR

Shot Blasting Machine





→ **Blast Cabinet
 (Manganese Plate Lining)**

Our blast cabinets are fabricated with 10 mm MS plates for robust construction, ensuring long-lasting durability and strength. The internal surfaces are lined with 8/10 mm thick manganese steel (11-14%), providing superior wear resistance and protection against the continuous impact of abrasive media. For added durability, the direct blasting zone is reinforced with an additional 8 mm layer of manganese steel. This design significantly reduces maintenance costs and extends the lifespan of the machine, ensuring consistent performance even in heavy-duty applications. The cabinet is designed for easy access and maintenance, with strategically placed openings for efficient cleaning and part replacement. Prioritizing operator safety, our blast cabinets minimize exposure to dust and abrasive particles, making them ideal for various industrial applications.

**Blast Cabinet
 (Manganese Plate Lining)**

→ **ROTARY SCREEN**

The rotary screen separator efficiently removes oversized contaminants and debris from the abrasive media, ensuring consistent particle size distribution. This system enhances the effectiveness of the blasting process by preventing clogged nozzles and uneven media flow. The rotary motion facilitates continuous screening, reducing downtime and maintenance efforts. Constructed from high-durability materials, it withstands constant exposure to abrasive particles. The separator's easy-access design allows for quick cleaning and maintenance, ensuring sustained performance. By improving media quality, it extends the life of both the abrasive supply and the machine components.



ROTARY SCREEN



BLAST WHEEL - DIRECT DRIVE



BLAST WHEEL - BELT DRIVE

The blast wheel assembly is the heart of the airless tumblast machine, designed to deliver high-speed abrasive media for efficient cleaning, descaling, and surface preparation. Our blast wheels feature durable, wear-resistant blades that ensure uniform media distribution, enhancing the consistency of the blasting process. The assembly is designed for easy maintenance, with quick-access features that allow operators to replace worn-out parts with minimal downtime. Advanced control mechanisms regulate wheel speed and media flow, optimizing energy consumption while maintaining high-performance standards. With a focus on durability and precision, our blast wheel assembly is engineered for maximum productivity.



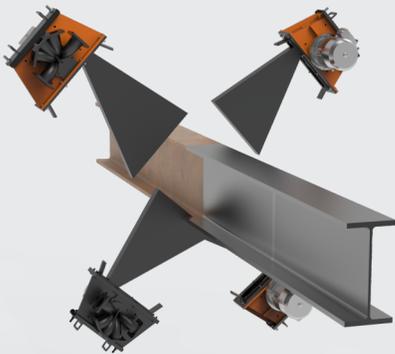
→ **GEC PEB Structure Roller Conveyor**

The GEC PEB Structure Roller Conveyor is a heavy-duty material handling system designed for the smooth and efficient movement of large pre-engineered building (PEB) structures, beams, columns, and fabricated assemblies. Built with robust steel rollers and a precision-aligned frame, it ensures stable conveying of heavy and oversized components during blasting, painting, or assembly operations. Equipped with variable drive speeds, load-bearing rollers, and optional synchronization with blasting/painting lines, the conveyor enhances workflow efficiency and minimizes manual handling. Its modular design allows easy integration into automated production lines, while the durable construction ensures long service life even under continuous industrial use.

GEC PEB Structure Roller Conveyor with Shot Blasting System

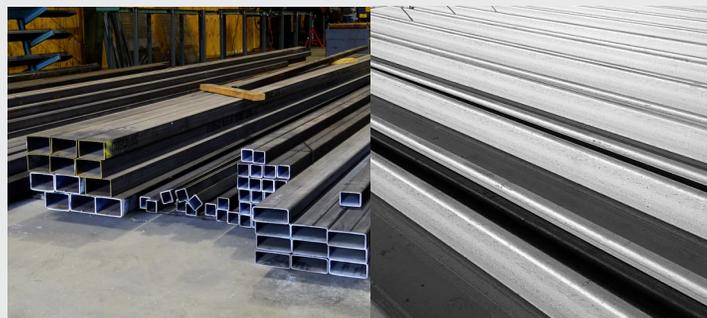
The GEC PEB Structure Roller Conveyor is engineered for the efficient handling and surface preparation of heavy steel beams, columns, and fabricated assemblies used in pre-engineered buildings. The conveyor smoothly transports large I-beams through the blasting chamber, where high-efficiency turbines positioned at strategic angles clean all sides of the structure. This system ensures complete removal of rust, scale, and contaminants while creating a uniform surface profile for improved coating adhesion. Designed for continuous and automated operation, it enhances production speed, reduces manual handling, and ensures consistent quality in large-scale fabrication projects.

→ **Positioned Around A PEB Structure Beam (i-beam).**



Before

After



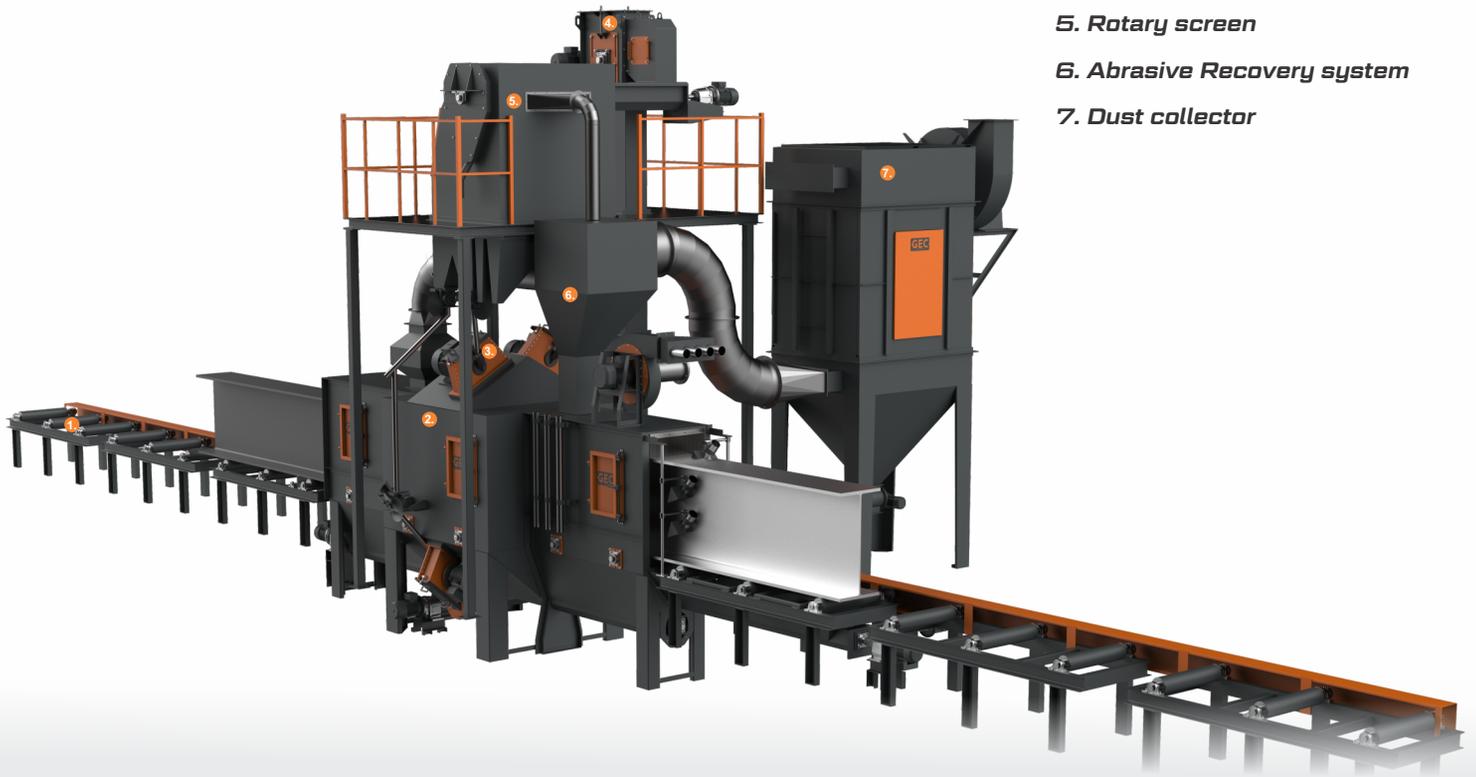
Before

After



Machine components

1. Roller conveyor system
2. Blast chamber
3. Blast Turbines
4. Bucket elevator
5. Rotary screen
6. Abrasive Recovery system
7. Dust collector



TECHNICAL SPECIFICATION

S.No.	Particulars	PEB-150-50-4W	PEB-200-50-6W	PEB-200-100-8W	PEB-300-150-10W
1.	Passage Opening Width (mm) Height (mm)	1500	2000	2000 / 2500	3000
		500	500	1000 / 500	1500
2.	No. of Blast Wheel	4	6	8	10
3.	Power of Blast Wheel	15 HP	15 HP	15 HP	15 HP
4.	Conveyor Speed (Variable)	0.5 - 3.0 Mtr./Min			
5.	Roller Pitch	900	900	900	900
6.	Height of the machine	6500mm	6900mm	7700mm	8000
7.	Type of Dust Collector	Pulse JET	Pulse JET	Pulse JET	Pulse JET
8.	Blown-off Device	Provided	Provided	Provided	Provided
9.	Requirement of Pit	Yes	Yes	Yes	Yes

Note :- We also design & manufacture machine as per your requirement.

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