YUFEI Q37 SERIES HOOK TYPE SHOT BLASTING MACHINE

Professional Surface Preparation Solutions for Heavy Industrial Components

SECTION 1: COVER, CORE MACHINE & TECHNICAL SPECIFICATIONS MATRIX

Heavy-Duty Hook Loading System

High-Efficiency Shot Blasting Technology

Customized Solutions for Various Workpieces

Introduction: Engineered for high-volume batch surface treatment of iron/steel castings, ring forgings heavy structural steel weldments, and complex automotive components. Delivers uniform Sa 2.5–3.0 cleanliness with high coating adhesion.

1.1 Flagship Machine 3D Render



Figure 1: YUFEI Q37 Series Flagship Dual-Hook Shot Blasting System with Maintenance Platform (3D Overview)

1.2 Q37 Series Full Technical Specifications Matrix (Q376 – Q3750)

Model	Max Workpiece (D×H mm)	Blast Turbine (Qty × kW)	Airflow	Chamber Size (L×W×H mm)
Q376	Φ1000 × H1000	2 × 7.5 kW	4,000 m³/h	1500 × 1500 × 1800
Q378	Φ1300 × H1200	2 × 11 kW	5,000 m³/h	1800 × 1800 × 2000
Q3710	Φ1500 × H1700	3 × 11 kW	7,000 m³/h	2000 × 2000 × 2500
Q3720	Φ1700 × H2000	3 × 11 kW	8,500 m³/h	2200 × 2200 × 3000
Q3730	Φ1900 × H2200	3 × 11 kW	10,500 m³/h	2500 × 2500 × 3500
Q3740	Φ2200 × H2600	4 × 11 kW	12,000 m³/h	2800 × 2800 × 4000
Q3750	Φ2500 × H3000	5 × 11 kW	15,000 m³/h	3200 × 3200 × 4500

Custom Engineering Note: Parameters above are standard models. Yufei provides 100% custom engineering (dimensions, blast turbine power, hook load, track layout) with zero custom design fees. Standard chamber modularity fits directly into 40HQ/40OT/40FR shipping containers.

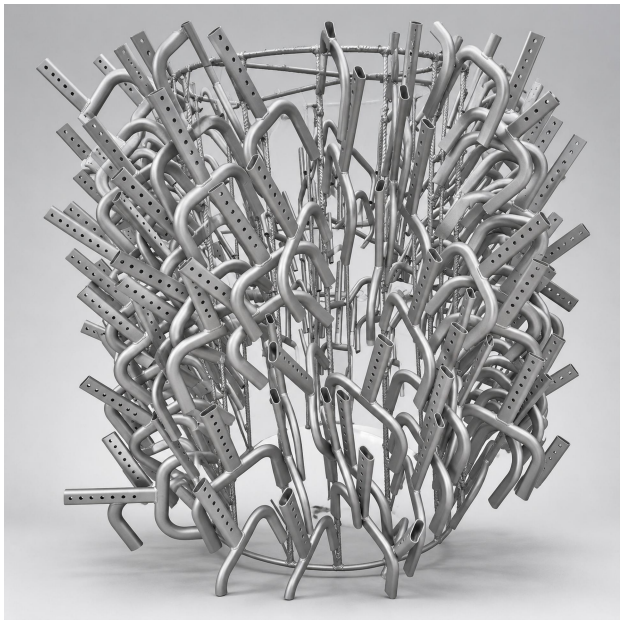
1.3 Finished Workpiece Samples (3 Images)



1. Axle & Gearbox Castings



2. Ring Forgings & Flanges



3. Welded Steel Structures

1.4 Target Application Industries (4 Images)



1. Foundry & Casting



2. Powder Coating



3. Steel Structure



4. Forging & Flanges

Application Notes: • Foundry / Forging: Thoroughly removes burnt-on core sand and thermal scale, preventing machining tool wear.

• Steel Fabrication / Coating: Removes weld spatter & rust, relieves welding stress, delivers 2x coating adhesion.

SECTION 2: 3D FOUNDATION PIT LAYOUT & 3 CORE FLAGSHIP MODELS

2.1 3D Foundation Pit, Elevation Clearance & Equipment Installation Layout

Civil Installation Advantages:

A• Shallow-Pit & Pit-Free Engineering: Optimized spiral conveyor and lower hopper design significantly reduce civil excavation depth by 40%, lowering customer civil work costs.

B• Modular Bolt-Together Architecture: Blast chamber sections, bucket elevator, separator, and monorail tracks feature precision bolt-together flanges for rapid on-site assembly within 3–5 days.

C• Comprehensive Safety Interlocks: Pneumatic chamber door interlock prevents blast turbine startup unless doors are 100% sealed. Acoustic insulation dampens plant noise < 80 dB(A).

D• Modular Design for Efficient Containerized Transportation



Figure 2: 3D Foundation Pit, Elevation Clearance & Equipment Installation Layout

2.2 Core Flagship Model Trio Spotlight (3 Models)

Q376 COMPACT (BATCH ESSENTIAL)



- Workpiece: Φ1000 × H1000 mm
- Load/Hook: 600/1,000 / 2,000 kg
- Blast Turbine: 2 × 7.5 kW
- Airflow: 4,000 m^3/h
- Dimensions: 1500 × 1500 × 1800 mm
- Application: Hardware, gearboxes, valves, precision parts.

Q3710 STANDARD+ (TOP SELLER)



- Workpiece: Φ1500 × H1700 mm
- Load/Hook: 1,000–3,000 kg
- Blast Turbine: 3 × 11 kW
- Airflow: 7,000 m^3/h
- Dimensions: 2000 × 2000 × 2500 mm
- Application: Medium castings, motor housings, forged flanges.

Q3740 HEAVY-DUTY (HIGH POWER)



- Workpiece: Φ2200 × H2600 mm
- Load/Hook: 1,000–5,000 kg
- Blast Turbine: 4 × 11 kW
- Airflow: 12,000 m^3/h
- Dimensions: 2800 × 2800 × 4000 mm
- Application: Heavy crane structural parts, mining equipment.

The maximum load capacity of the hook system can be customized. We will provide you with the option that suits your needs for free.

SECTION 3: 5 CORE HEAVY-DUTY SUB-SYSTEMS & PRECISION ENGINEERING

3.1 Overhead Conveyor Monorail System (4 Topologies)

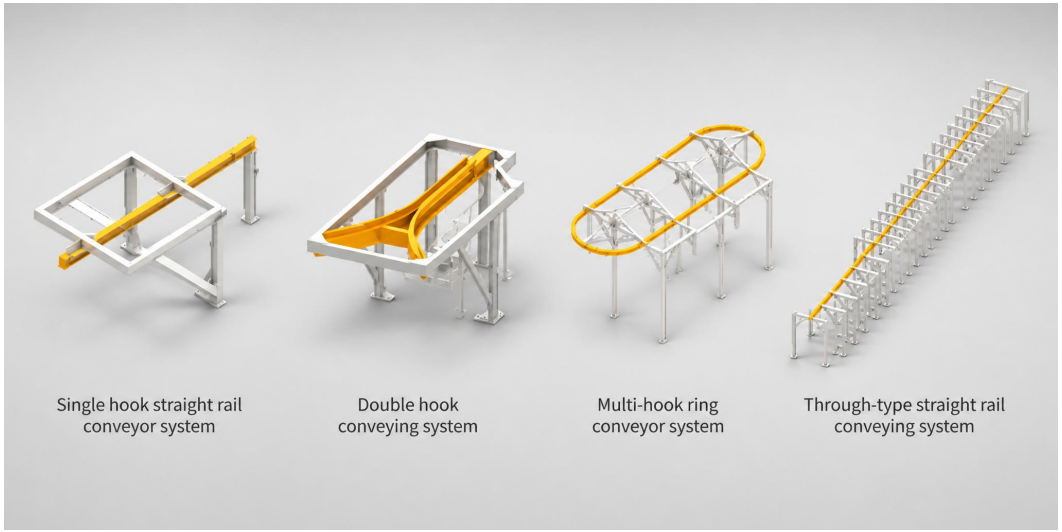


Figure 3: YUFEI 4 Monorail Topologies (Single Rail / Dual Hook Y-Track / Closed Loop / Through-Type)

Monorail Configuration	Loading Mode	Throughput Gain	Best Suited For
Single In-Out Rail	1 Hook (Batch)	Baseline (1x)	Small batch & compact shop
Dual Hook Y-Track	2 Hooks (Alternate)	+100% Efficiency	Continuous blast & loading
Closed Loop Monorail	Multi-Hook (Index)	+200% Automation	Automated coating lines
Power & Free Track	Accumulation Buffer	High-Volume EPC	Automated robotic factories

Engineering Highlight: Heavy-duty I-beam tracks with electric hoists, self-locking hook rotation mechanism, and precision pneumatic switch dampers.

3.2 Direct-Drive Blast Turbine System (Swiss GF+ Technology & Cr20+ Alloy)



Core Component	Material / Spec	Hardness / Life	Key Advantage
Blades (8 pcs/set)	High-Cr Alloy Cr20+	HRC 60–65 / 1500+ hrs	Tool-free fast replacement
Impeller & Cage	Investment Cast Alloy	HRC 62–66 / 2000+ hrs	Precise blast window control
Housing Wear Liners	Mn13 & Cr20+ Plates	HRC 58–62 / 3000+ hrs	Full chamber armor defense
Direct-Drive Motor	Siemens / Custom Duty	Grade G2.5 Balance	75–85 m/s extreme velocity

3.3 Separator, Dust Collector & Siemens PLC Control System (3 Subsystems)

3. Abrasive Separator



Full-Curtain Winnowing
- 99.5% Abrasive Purity
- Blade life extended by 30%
- Eliminates fine dust wear

4. Pulse-Jet Dust Collector



CE / OSHA Certified
- Emission < 5 mg/m^3
- Nano-coated sub-micron filters
- Auto reverse-pulse cleaning

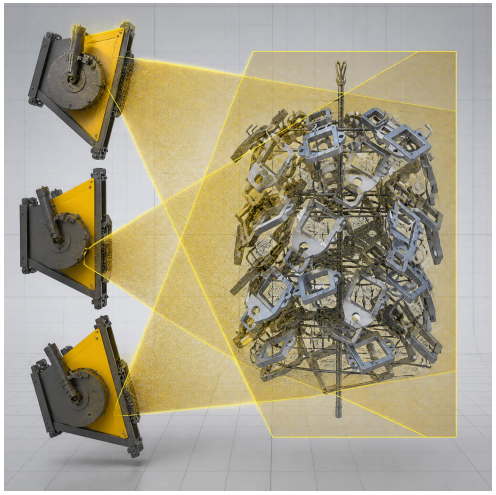
5. Siemens Smart PLC



Touchscreen HMI
- Siemens S7-1200 PLC（Upgradable）
- One-touch automation sequence
- Real-time fault diagnostics

SECTION 4: GLOBAL PROJECTS, FACTORY PANORAMA & CONTACT MATRIX

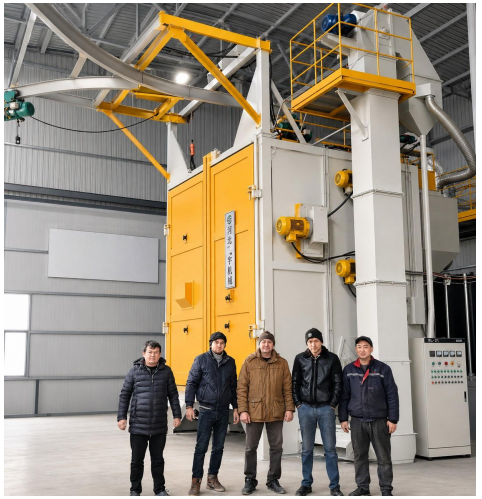
4.1 3D Blasting Dynamics Simulation & Global Turnkey Projects (6 Images)



3D Dynamics Simulation (100% Coverage)



Switzerland: Precision Foundry Project



Uzbekistan: Heavy Structural Steel Project



Germany: Industrial Equipment Line



Bangladesh: High-Capacity Foundry Line



Yufei Global Technical Engineering Team

Turnkey Guarantee: Multi-angle blast turbine positioning eliminates 100% of internal workpiece dead zones. Yufei dispatches mechanical & electrical commissioning engineers worldwide within 48 hours for rapid installation and operator training.

4.2 Hebei Yufei Manufacturing Powerhouse (20,000 m² Base)

Corporate Scale Metrics:

A• Base Area: 20,000 m² Heavy Industrial Base
B• Global Export: 50+ Nations Worldwide
C• Quality Control: 100% Power Run & Dynamic Balance Pre-Test
D• Service SLA: 24/7 Global Response & 24-Month Structural Warranty



4.3 Global Business & Engineering Contact Matrix (4 QR Codes)

Official Enterprise Details (Ready to Copy)

HEBEI YUFEI MACHINERY MANUFACTURING CO., LTD.

- **Manufacturing Base:** Heavy Industrial Equipment Zone, Hebei Province, China
- **Overseas Sales** / WhatsApp: +86 19932745099 (Jude Jiang)
- **Official Email:** Jiangjiangyaning@gmail.com
- **Official Website:** www.yufeimachinery.com
- **Shipping Ports**: Tianjin Port (TSN) / Qingdao Port (TAO) / Shanghai (SHA)
- **Fast Quotation SLA:** Formal 3D layout & customized proposal within 24 hours.

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