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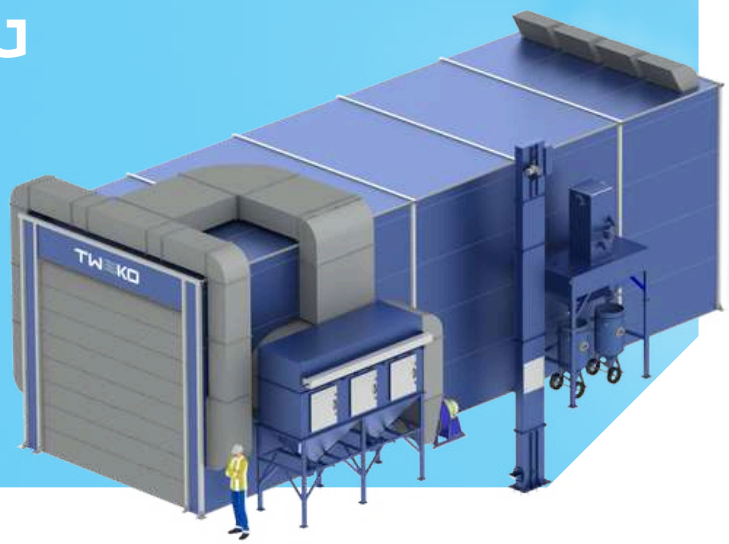
ABRASIVE BLAST CLEANING

EC DECLARATION OF CONFORMITY
ISO 9001 CERTIFIED

# ABRASIVE BLASTING BOOTH

OF VARIOUS WORKPIECES

## FOR MANUFACTURING COMPANIES




The KASO abrasive blasting booth is a modern solution for high-quality surface cleaning of a wide range of workpieces. The system operates in a closed cycle, including abrasive delivery, automatic collection, regeneration and reuse. KASO is equipped with a sealed enclosure, scraper and bucket conveyors, a separator, a storage hopper, a filtration and ventilation unit (FVU), and an intuitive control panel. Thanks to LED lighting (≥700 lux), wear-resistant rubber lining and efficient air filtration (dust emissions ≤8 mg/m$^3$), the booth provides safe and comfortable working conditions for the operator.

KASO uses a mechanical abrasive recovery system with scraper and bucket conveyors and a separate separator, ensuring highly efficient abrasive regeneration for high-volume applications. The booth is suitable for a wide range of blasting media, including steel and cast-iron shot (0.5–1.0 mm), oxides, carbides and glass beads, as well as coarser abrasive particles. A control panel with a programmable logic controller (PLC) provides a high level of automation. The equipment is custom-engineered, complies with occupational safety standards and is manufactured using components from leading global brands.

## PURPOSE OF THE BOOTH

KASO is designed for fast and effective removal of rust, mill scale, paint and other contaminants from surfaces. It is suitable for processing metal, glass and other workpieces in industrial environments.
The booth can operate with various types of blasting media and provides a surface cleaning capacity of up to 65 m$^2$/h at Sa 2 preparation grade.
KASO automates key blasting processes, improves production efficiency and minimises environmental impact, making it an effective solution for large industrial enterprises focused on high-quality surface preparation and environmentally responsible operation.

### MAIN FUNCTIONS:

- Containment of abrasive media and dust to protect the environment.
- Automatic collection, cleaning and reuse of abrasive media.
- Increased speed and quality of surface cleaning.
- Air filtration to ensure operator safety, with dust emissions of ≤8 mg/m$^3$.
- Protection against abrasive rebound and improved working comfort thanks to bright LED lighting.


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# KEY FEATURES:

- Mechanical abrasive recovery system with scraper and bucket conveyors, plus a separate separator for efficient regeneration of large volumes of abrasive media.
- Wide range of compatible abrasives (0.5–1.0 mm), including coarser particles, for versatile applications.
- High level of automation thanks to a PLC-based control system and scraper-floor speed control.
- Optional side lighting for larger booths to improve visibility.

# TECHNICAL SPECIFICATIONS. STANDARD CONFIGURATION

| ABRASIVE BLASTING BOOTH | Description | Units | KASO-5 | KASO-7 | KASO-10 | KASO-12 | KASO-15 | KASO-20 | KASO-24 |
|---|---|---|---|---|---|---|---|---|---|
| **OVERALL DIMENSIONS** | | | | | | | | | |
| Internal working area dimensions (L × W × H) | | m | 5 × 4 × 3 | 7 × 5 × 3.5 | 10 × 5 × 4 | 12 × 6 × 5 | 15 × 6 × 5 | 20 × 6 × 6 | 24 × 6 × 6 |
| Entrance gate (W × H) | | m | 3 × 2 | 3 × 3 | 3 × 3.5 | 4 × 4 | 4 × 4 | 4 × 5 | 4 × 5 |
| Personnel door (W × H) | | mm | 800 × 2000 | 800 × 2000 | 800 × 2000 | 800 × 2000 | 800 × 2000 | 800 × 2000 | 800 × 2000 |
| LED corner luminaire T8 1200 × 4 | | pcs | 6 | 8 | 12 | 16 | 20 | 24 | 32 |
| Shot hopper volume | | $m^3$ | 0.7 (1.1) | 0.7 (1.1) | 0.7 (1.1) | 0.7 (1.1) | 0.7 (1.1) | 0.7 (1.1) | 0.7 (1.1) |
| Compressed air consumption of KASO (excluding blasting pot), at 8 atm | | l/min | 650 | 650 | 700.0 | 730.0 | 750.0 | 800.0 | 800.0 |
| Total power consumption | | kW/h | 18.6 | 23.7 | 27.6 | 31 | 39 | 39 | 39 |
| Power supply | | | 3 phases, 380 V, 50 Hz | 3 phases, 380 V, 50 Hz | 3 phases, 380 V, 50 Hz | 3 phases, 380 V, 50 Hz | 3 phases, 380 V, 50 Hz | 3 phases, 380 V, 50 Hz | 3 phases, 380 V, 50 Hz |
| **FILTER AND VENTILATION UNIT FVU** | | | | | | | | | |
| Overall dimensions (L × W × H) | | m | 1.7 × 3.1 × 1.6 | 2.1 × 3.1 × 1.6 | 2.5 × 3.1 × 1.6 | 2.5 × 3.1 × 1.6 | 3.6 × 3.6 × 1.6 | 3.6 × 3.6 × 1.6 | 3.6 × 3.6 × 1.6 |
| Effective filter area | | $m^2$ | 168 | 216 | 324 | 486 | 540 | 540 | 540 |
| Air capacity | | $m^3/h$ | 12000 | 15000 | 18000 | 24000 | 27000 | 30000 | 30000 |
| Power consumption | | kW/h | 11 | 15 | 22.0 | 22.0 | 30.0 | 2 × 15 | 2 × 15 |
| Maximum pressure of ventilation unit | | Pa | 2200 | 2500 | 2400.0 | 2200.0 | 2500.0 | 2500.0 | 2500.0 |
| Filter element type, cleaning class | | | Cylindrical cartridge F9 | Cylindrical cartridge F9 | Cylindrical cartridge F9 | Cylindrical cartridge F9 | Cylindrical cartridge F9 | Cylindrical cartridge F9 | Cylindrical cartridge F9 |
| **ELECTROMECHANICAL SCRAPER CONVEYOR** | | | | | | | | | |
| Working module width | | mm | 600–1000 | 600–1000 | 600–1000 | 600–1000 | 600–1000 | 600–1000 | 600–1000 |
| Quantity | | pcs | 3–5 | 3–6 | 3–6 | 3–6 | 3–7 | 3–7 | 12–14 |
| Thickness of abrasion-resistant rubber | | mm | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Scraper pitch | | mm | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| Load on floor grating | | $kg/m^2$ | ≤200 | ≤200 | ≤200 | ≤200 | ≤200 | ≤200 | ≤200 |
| Floor grating size, L × W × H | | mm | 600–1000 × 30 | 600–1000 × 30 | 600–1000 × 30 | 600–1000 × 30 | 600–1000 × 30 | 600–1000 × 30 | 600–1000 × 30 |
| Overall floor module height, without gratings | | mm | 110 | 110 | 110 | 110 | 110 | 110 | 110 |
| Power consumption | | kW/h | 5.5–6.6 | 6.6–7.7 | 6.6–7.7 | 6.6–7.7 | 6.6–7.7 | 6.6–7.7 | 13.2–15.4 |
| **BUCKET ELEVATOR NORYia** | | | | | | | | | |
| Capacity | | t/h | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Belt speed | | m/s | ≤ 0.3 | ≤ 0.3 | ≤ 0.3 | ≤ 0.3 | ≤ 0.3 | ≤ 0.3 | ≤ 0.3 |
| Bucket pitch | | mm | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| Bucket volume | | l | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| Bucket belt width | | mm | 125 | 125 | 125 | 125 | 125 | 125 | 125 |
| Power consumption | | kW/h | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| **DRUM-TYPE SEPARATOR SBT** | | | | | | | | | |
| Capacity | | | 6 t/h | 6 t/h | 6 t/h | 6 t/h | 6 t/h | 6 t/h | 6 t/h |
| Motor power | | kW | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| Noise level | | | ≤85 dB (A) | ≤85 dB (A) | ≤85 dB (A) | ≤85 dB (A) | ≤85 dB (A) | ≤85 dB (A) | ≤85 dB (A) |


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