FABO
CRUSHING SCREENING & CONCRETE BATCHING PLANTS

MVSI-900

SEMI-MOBILE VERTICAL SHAFT IMPACT CRUSHER

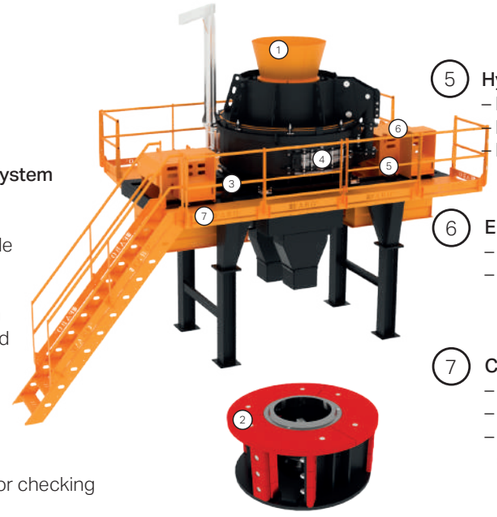


1 **Crusher Feed Hopper**
- Maximum feed: 45 mm
- Protective linings: Included
- Lining type: Screwed

2 **Crusher Rotor and Pendulum System**
- Rotor type: Open rotor
- Rotor size: 900 mm
- Pendulum system: Replaceable

3 ***Automatic Lubrication System**
- Control panel: Timer-controlled
- Capacity: 6 liters
- Country of origin: Italy

4 **Rotor Monitoring Cover**
- There is an inspection hatch for checking the interior of the crusher. .



5 **Hydraulic Control Unit**
- Drive type: Hydraulic oil
- Pressure gauge: Included
- Motor power: 3 kW

6 **Engine**
- Motor power: 2x 200 kW / 50 Hz
- Speed: 1500 rpm

7 **Chassis**
- Platform: Included
- Dimensions: 5200 × 2300 × 2740 mm
- Manufactured with a reinforced chassis structure.

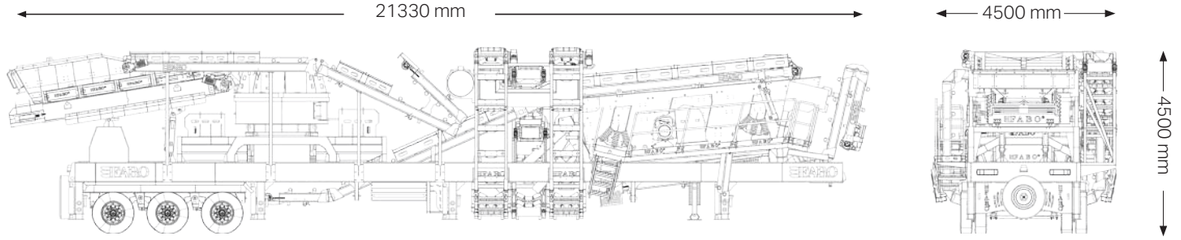
TECHNICAL SPECIFICATIONS

FEATURES	DATA
Crusher	VSI-900 Vertical Shaft Crusher
Maximum Feed Size	45 mm
Rotor Diameter	Ø 900 mm
Adjustment Type	Hydraulic

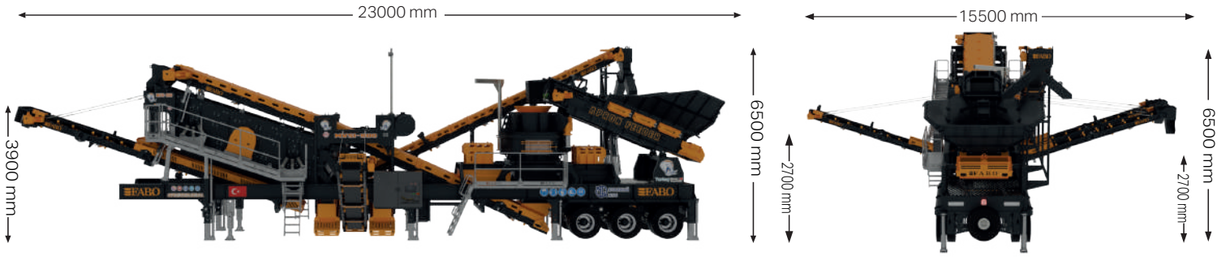
FEATURES	DATA
Speed	50-70 m/s
Drive	Electric Drive via V-Belts

Note: All weights and dimensions are applicable to standard units only.

TRANSPORT DIMENSIONS



OPERATING DIMENSIONS



Weight : 60000 kg

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MVSI-900 SEMI-MOBILE VERTICAL SHAFT IMPACT CRUSHER

SUPERIOR CRUSHING PERFORMANCE. MAXIMUM PRODUCTION POWER.

The MVSI-900 Semi-Mobile Vertical Shaft Impact Crusher is a semi-mobile VSI crushing solution engineered for the production of high-quality cubical aggregates. Thanks to its advanced rotor technology, it delivers superior crushing performance, consistent product quality, and high production efficiency.
With a production capacity of 200–300 TPH, the MVSI-900 offers fast installation, easy site adaptation, and outstanding operational flexibility through its semi-mobile design. Its robust construction, low maintenance requirements, and reliable performance make it an ideal solution for continuous production under demanding operating conditions.

KEY FEATURES:

- Powerful crushing performance with high capacity and low operating costs
- High efficiency and superior cubical product quality thanks to the specially designed rotor and optimized feed geometry
- Extended service life with wear-resistant rotor and internal wear parts
- Reduced maintenance time and downtime with the optional automatic central lubrication system
- Reliable operation in ambient temperatures up to 40–50°C
- Transport and operating dimensions compliant with European road regulations
- Low energy consumption and optimized operating costs
- Easy operation, fast commissioning, and safe operation with a PLC-based automation system
- Production of high-quality cubical aggregates for concrete, asphalt, and aggregate applications
- Robust chassis design for long service life under demanding operating conditions

PRODUCTION CAPACITY:
200–300 TPH

SPECIFICATIONS	DATA
Equipment:	VSI-1000 Vertical Shaft Impact Crusher Vibrating Screen
Rotor Diameter:	Ø 900 mm
Maximum Feed Size:	45 mm
Vibrating Screen Size:	2200 x 5500 x 4 mm
Transport Dimensions:	21330 mm (Uzunluk) 4500 mm (Genişlik) 4500 mm (Yükseklik)
Weight	60000 kg

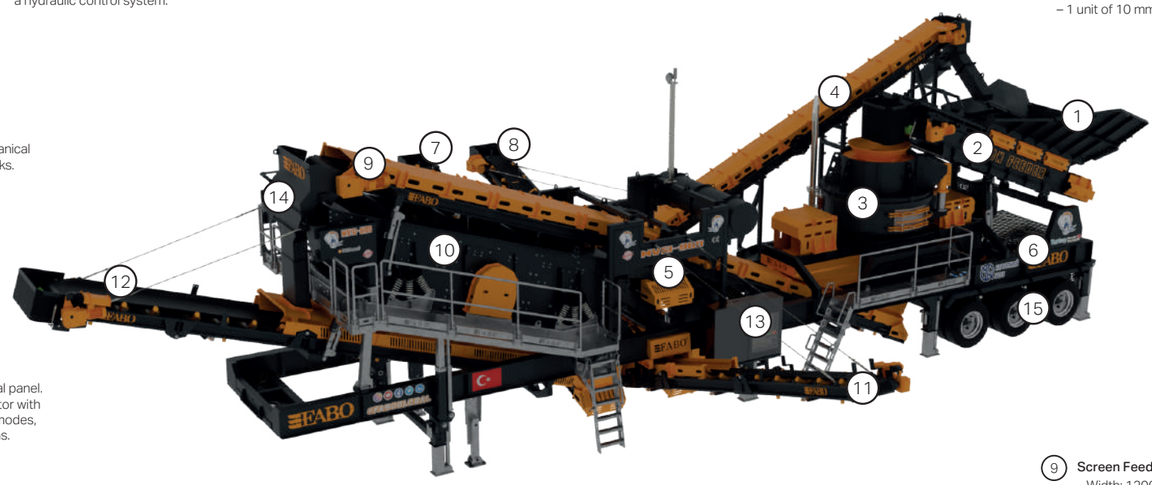
1 **Hopper**
– 8 m³ Capacity
– Wear-resistant lining plates

2 **Belt Feeder**
– Length: 5000 mm
– Width: 1000 mm
– 7.5 kW × 2 – 40 rpm
– Wear-resistant lining plates installed as standard
– Its grizzly structure allows smaller-sized material to bypass the system by functioning as a pre-screen and discharge it via the bypass conveyor.
– The up-and-down and forward-and-backward movement of the conveyor is controlled by a hydraulic control system.

3 **VSI-900 Vertical Shaft Impact Crusher**
– 2 × 200 kW motors – 1450 rpm
– Rotor: Ø900 mm
– Speed: 50–70 mm/s
– High-performance vertical shaft crusher with a maximum feed size of 45 mm
– Easy maintenance and convenient replacement of spare parts

4 **Long Return Conveyor**
– Width: 500 mm
– 7.5 kW – 126 rpm
– 1 × 10 mm endless chevron conveyor belt
– Hydraulic piston control (optional)

5 **Small Return Conveyor**
– Width: 500 mm
– 4kW-126 d/D
– 1 unit of 10 mm endless conveyor belt



6 **Chassis**
– Heavy-duty welded frame mounted on the chassis

7 **Left Stockpile Conveyor-1**
– Width: 500 mm
– 5.5 kW – 126 rpm
– 1 × 10 mm endless chevron conveyor belt
– Discharge height: 2700 mm
– Hydraulic piston control (optional)

8 **Left Stockpile Conveyor-2**
– Width: 500 mm
– 5.5 kW – 126 rpm
– 1 × 10 mm endless chevron conveyor belt
– Discharge height: 2700 mm
– Hydraulic piston control (optional)

9 **Screen Feed Conveyor**
– Width: 1200 mm
– 15 kW – 126 rpm
– 1 × 12 mm endless conveyor belt
– Ensures smooth and continuous feeding of the screen, allowing efficient material classification (separation according to size).
– Typically positioned before the vibrating screen.
– Hydraulic piston control (optional)

10 **Vibrating Screen**
– Dimensions: 2200 × 5500 × 4 mm
– Motor power: 30 kW, 1 unit
– The 4-deck screen separates materials into different sizes.
– The screen frame of the vibrating screen is designed with a hydraulic piston to suit on-site operation and transportation conditions and is controlled by a hydraulic system.

11 **Right Stockpile Conveyor**
– Width: 500 mm
– 5.5 kW – 126 rpm
– 1 × 10 mm endless chevron conveyor belt
– Discharge height: 2700 mm
– Hydraulic piston control (optional)

12 **Under-Screen Stockpile Conveyor**
– Belt width: 1200 mm
– 11 kW – 126 rpm
– 1 × 10 mm endless conveyor belt
– Discharge height: 3800 mm
– The underscreen stockpile conveyor allows the finest material passing through the vibrating screen to be stockpiled.
– Hydraulic piston control (optional)

13 **Control System**
– Controls all main equipment through a PLC-controlled central panel. This system provides the operator with precise control over operating modes, equipment speeds, and positions.

14 * **Flap (Optional)**
– Dimensions: 1500 × 270 mm
– Protective liners included
– Hydraulic gates included
– The flap gate is operated by a hydraulic piston for controlled material flow.

15 **Axle System**
– 3 × 14-ton axle system with mechanical suspension and 12-leaf spring packs.

* OPTIONAL



A durable and transportable solution designed for maximum performance in field applications.



High-speed rotor technology ensures superior cubical product quality.

STANDARD FEATURES



The 4-deck, 2200 × 5500 mm vibrating screen enables the efficient separation of up to four different product fractions simultaneously.



User-friendly PLC control system with a full-color touchscreen display.



A 3 × 14-ton axle system with mechanical suspension and 12-leaf spring packs, designed to provide high load capacity, durability, and safe operation under demanding working conditions.



The flap system allows the crusher discharge material to bypass the screen and be directly stockpiled, increasing production flexibility.



The flap chute system allows oversized return material to be directed either to the bunker or directly to the stockpile according to operational requirements.



With an 8 m³ capacity, it ensures the safe and continuous feeding of large quantities of material, delivering uninterrupted production performance.

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