

maskin mekano

VW 200-4

MOBILE VSI CRUSHING AND SCREENING PLANT



High-end crushed products

The demand for high-end crushed products with consistent quality are constantly rising. Therefore Maskin Mekano now presents the new VW200-4, a complete plant with a VSI crusher, triple deck screen and four stockpiling conveyors. Thanks to the electrical drive, production will be cost effective wether you need manufactured sand or better cubisity. By industry leading technical support we will help optimising the equipment to suit specific requirements and requests, in order to reduce unwanted fines, minimize wear costs per tonne and maximise productivity.

DECKS



3

CRUSHER



VSI

WEIGHT



39.000

TRANSPORT



Towing

CONSUMPTION



250 kWh

SET UP TIME



15 Min





The VSI crushing & screening concept

The VW200-4 is a modern application designed for the specific requirements of VSI crushing. The plant consists of the reliable and proven VSI crusher by South African Techroq and the Maskin Mekanos STE-screen, well-known for its high capacity when producing end fractions of high quality. Safety of operation, superior spare parts logistics and electrical drive provide outstanding productivity and low operating costs.

The VSI cubisator

Techroq VSI crushers are utilised for crushing the complete range of minerals, ores and rocks. Crushing can be controlled by adjusting rotor size and speed, screen mesh size, cascade ratio and cavity ring or feed gradation. The unique crushing action breaks corners off particles, providing cube shaped particles.

The Techroq VSI are distinctive among all other vertical shaft impactors for their pure rock-on-rock principle. Techroq's rock-on-rock crusher pumps dry stone at high velocity, launching an uninterrupted rock stream into a stone lined crushing chamber. The rock lined rotor accelerates the feeding rate into the machine, with materials discharged into the crushing chamber at high velocity - up to 85 meters (275 feet) per second. While replenishing the rock lining, the crushing and grinding cycle of rock-on-rock is maintained by this process.

Serving as ideal third and fourth stage crushing machines, Techroq VSI crushers combine high velocity impact crushing with high pressure attrition, to produce high levels of cubical products.

The screen box

The STE 3-94 is a four bearing screen with a strong 12 mm circular stroke and 11° elevation, operating at 800 rpm. It measures 1.4 x 4.8 metres (4.6 x 15.7') on three decks. The STE-screen has an unsurpassed screening ability and responds very well to current clean screening requirements as well as high capacity demands.

The on-board wrap around sturdy cat walks provide operator security and ease of inspection and maximum accessibility to the screen box. The upper deck screening media is side tensioned, and the feeding conveyor can be risen for a

total overview of the upper deck. The lower deck is end tensioned and an extra foldable catwalk is provided in the rear end of the screen box to facilitate screening media swaps on the lower decks. There are covered inspection panels in the sides of the screen box. The lower deck can be installed with ball deck. For access to the front of the screen box the chutes are foldable.

The Vibrobloc concept

The Maskin Mekano Vibrobloc concept means the screen box is mounted on a vibration damped frame which prevents the vibrations from the screen from transmitting to the chassis. This saves the entire plant from damages caused by vibration, whilst the screening motion remains efficient. The Vibrobloc design allows the STE screen to operate with the capacity of a four bearing screen as smooth as a two bearing screen, and keeps the power in the screen-box where it belongs.

Stockpiling

The VW200-4 is fitted with three hydraulically foldable on board stockpiling conveyors. Folding is performed without any twisting of belts and without any manual handling, which reduces set-up time. All drum motors are cambered and gummied.

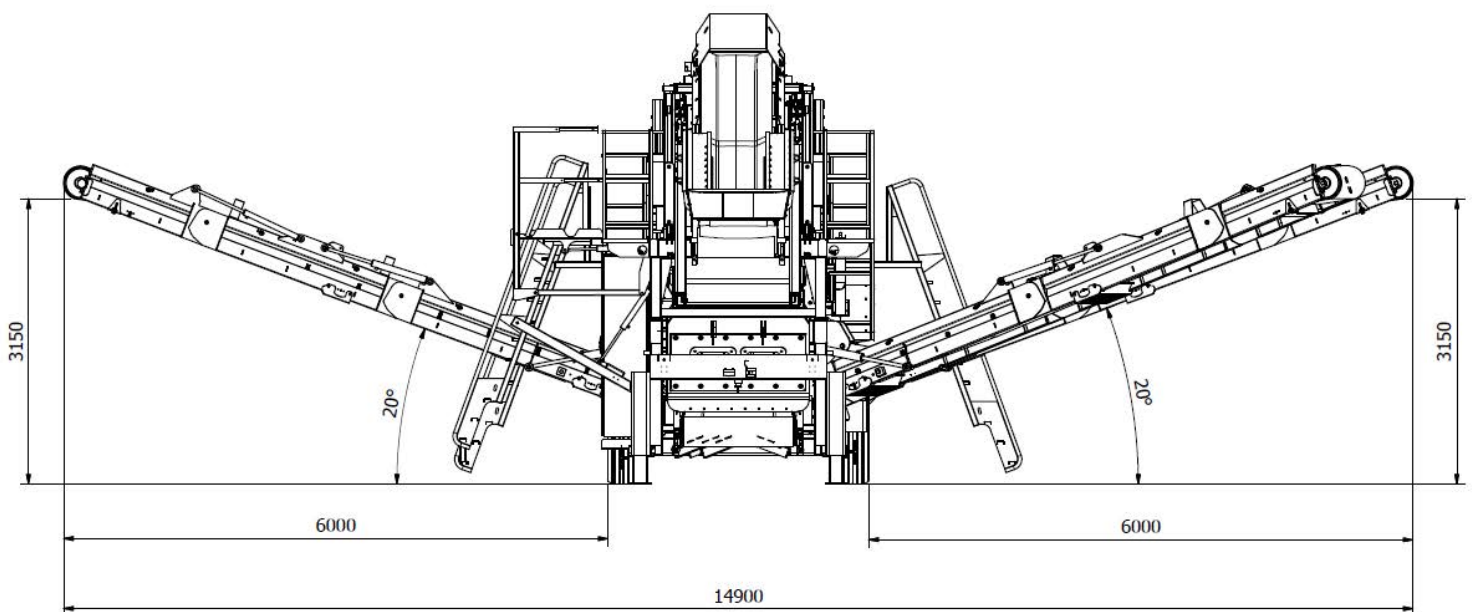
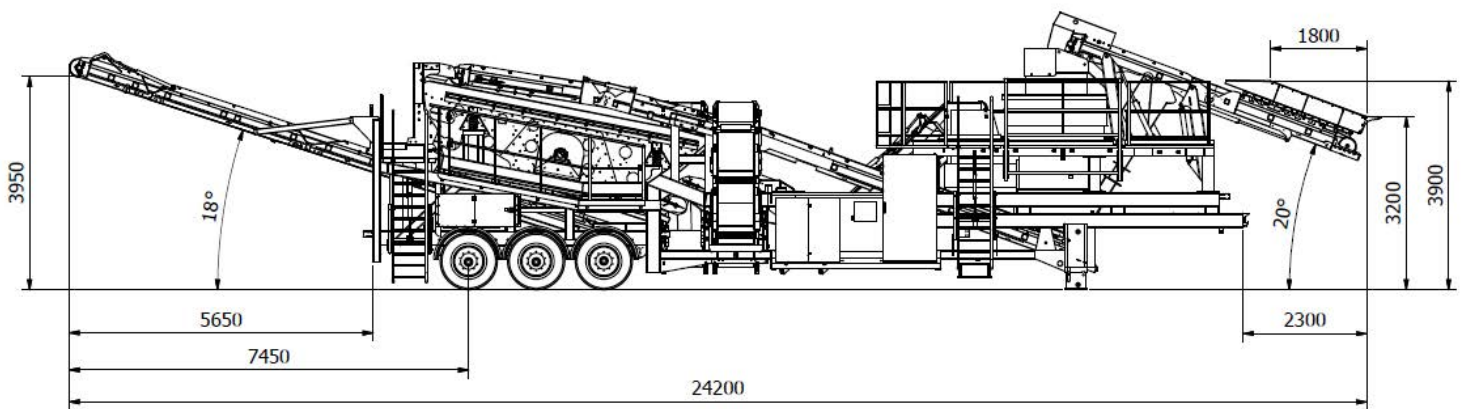
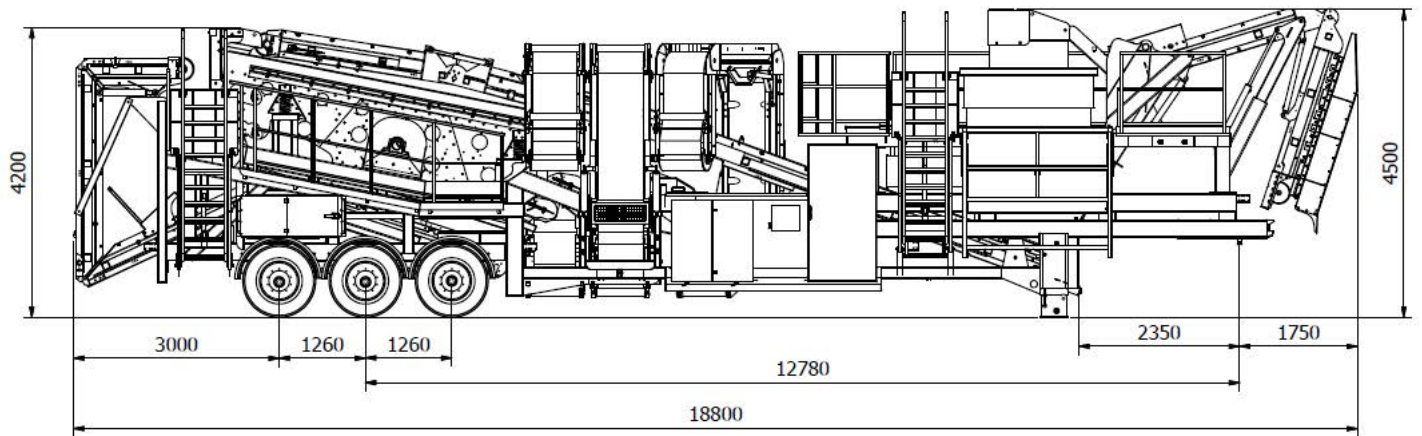
Chassis

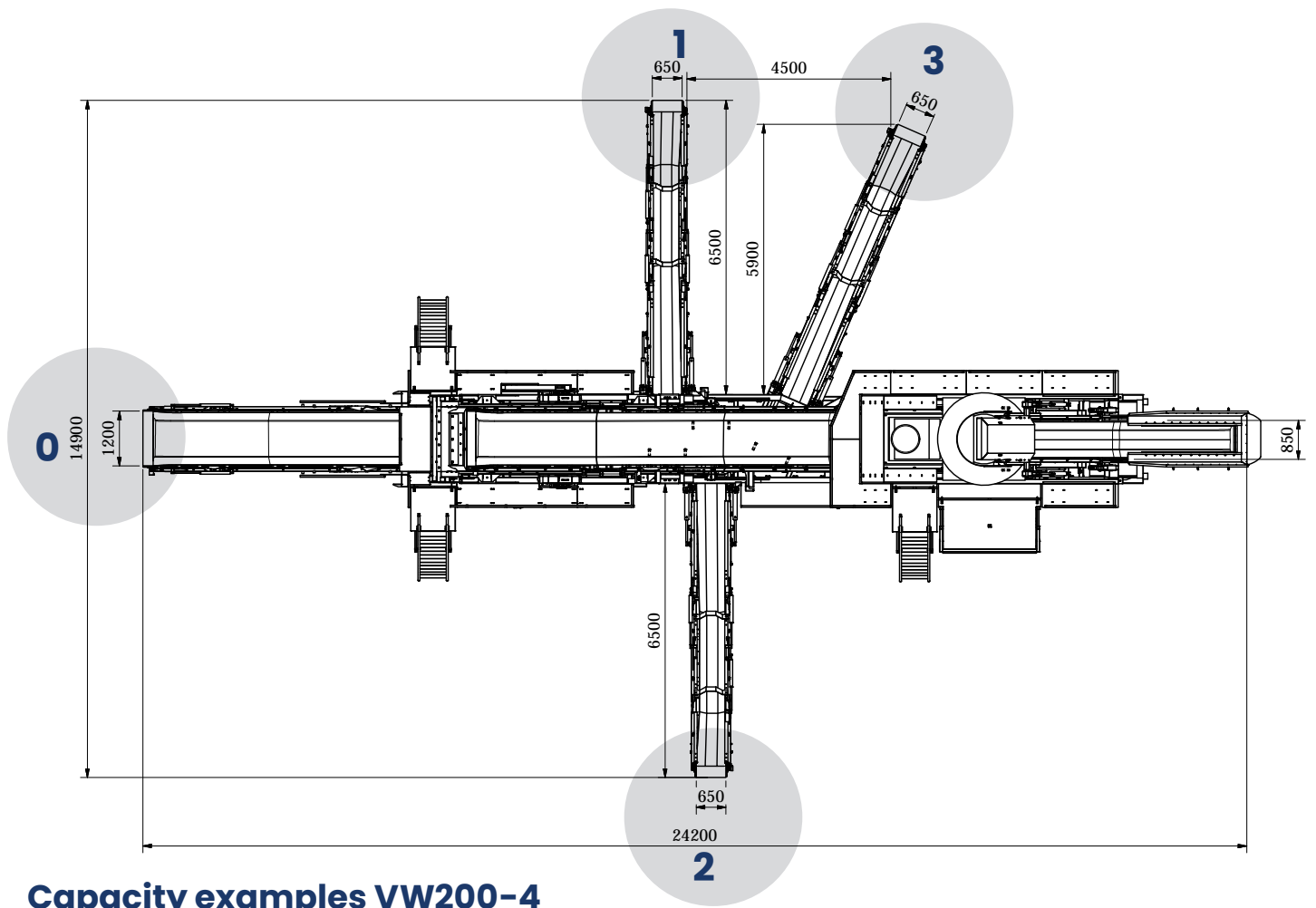
The VW200-4 is mounted on a heavy duty road trailer with twin suspended and braking axles. The strong construction of welded girders is designed to minimize vibrations during operation as well as for high towing stability and low weight. The machine is raised and lowered by means of hydraulic lifting legs and two separate jacking legs. King-pin for towing.

Electrical drive

The VW200-4 is electrically driven, like all Maskin Mekano plants. Electrical drive provides low operating costs and reduces environmental and noise impact.







Capacity examples VW200-4

Sorting of 0/11 with approved curves (max 10% oversize/15% undersize)

			STE 3-67
Size	Share		tonnes/h
0	0/2	43%	59
1	2/4	16%	22
2	4/8	24%	34
3	8/11	16%	22
			138

Sorting of 0/16 with approved curves (max 10% oversize/15% undersize)

			STE 3-67
Size	Share		tonnes/h
0	0/4	51%	82
1	4/8	21%	34
2	8/11	14%	22
3	11/16	14%	22
			160

Sorting of 0/32 with approved curves (max 10% oversize/15% undersize)

			STE 3-67
Size	Share		tonnes/h
0	0/4	31%	78
1	4/8	14%	36
2	8/16	21%	53
3	16/32	33%	83
			250

Technical Specification Maskin Mekano VW200-4

<i>Transport Length</i>	18.8 m (61.6')
<i>Transport Width</i>	3.0 m (9.8')
<i>Transport Height</i>	4.5 m (14.7')
<i>Machine Weight</i>	approx 39 tonnes, depending on equipment
<i>Bogie Pressure</i>	approx 23 tonnes, depending on equipment
<i>Cubisator</i>	Techroq VSI T7R. Capacity about 200 tonnes/hour when feeding a material of <50 mm Mounted on a vibrationfree frame 840 Multi 5 Port STD QR Drop In Rotor, vibration-switch, frequency controller, manual rotor feed control, safety interlock, service tool kit, rotor lifting kit, automatic grease system, 250 kW electric motor mounted on cubisator
<i>Screen box</i>	STE 3-67 Screening surface 1.4 x 4.8 m (4.6 x 15.7') on three decks Single axle mechanically controlled with 12 mm stroke 11° incline Electric motor 11.0 kW, 400 V Vibroblock frame prevents vibrations
<i>Feeding conveyor Crusher</i>	Belt width 800 mm (2.6') Length 4.5 m (14.7') Electric drum motor 5.5 kW
<i>Feeding conveyor Screen</i>	Belt width 1200 mm (3.9') Length 11.5 m (37.7') Electric drum motor 5.5 kW
<i>Plus and mid size con- veyors</i>	Belt width 650 mm (2.1') Length 8.5 m (27.9') Electric drum motor 4.0 kW
<i>Fines conveyor</i>	Belt width 1200 mm (3.9') Length 11.5 m (37.7') Electric drum motor 5.5 kW
<i>Electric equipment</i>	Distribution box mounted on chassis. Push button for sequence start 10" touch screen for starting of motors separately Emergency stops on chassis, conveyors and distribution box Speed monitors on all conveyors Monitored circuits for safety relay. Safety interlock
<i>Hydraulic equipment</i>	Hydraulic aggregate for folding of the conveyors and stairs and lifting of hydraulic legs Motor 4.0 kW
<i>Wheel- and towing device</i>	Triple bogie with brakes and plate spring. Wheel dimension 22.5/65/385, 10 bolt. Towing device, 2" kingpin as standard



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Our policy is one of continuous improvement and we reserve the right to change the detailed specification of our products at any time without prior notice.