



Agronic Rock Tornado 550 Rock Picker



The AGRONIC Rock Tornado 550 is a true, full-width, rock picker that handles the complete working width of the machine, including the center section.

Three rotors, that work to a depth of 0-10cm (0-4").

Stones from 3 to 50cm (1 to 19") can be collected.

Full mechanical drive, with minimal power losses, and power requirement of 75kw (100 hp)

Optional accessories such as slip guard and a working depth display.





40 Years of Picking Rocks

The initial version of the Rock Tornado was developed nearly 40 years ago, on the farm in Haukivuori (southern Savonia region of eastern Finland), where stone collecting had already been done for many years. The machine from that time began to wear out, and much thought was given to develop a better solution. In the end, a new machine was developed in the farm workshop, for their own use. The machine worked so well, that the neighbours were asking to come collect their stones, then a contracting business was started.

The machine proved durable and worked as expected in the stony conditions of eastern Finland. Since the demand continued to grow, the decision was made to start producing machines for sale. Buyers were easily found, and the production was increased.

In 2010 a comprehensive update was undertaken. The working width was increased, the power transmission strengthened to handle bigger tractors, but the proven operating principles remained the same.

The results were a renewed machine capable of handling even larger stones. Unlike its competitors, the machine features three rakes, eliminating the need for overlapping while driving, allowing for the true overall working width to be processed in a single pass.

In 2017 the name was changed to Rock Tornado. At the beginning of September 2023, the product rights were sold to Agronic Oy with production continuing under the Agronic name, at the factory in Haapavesi, Finland!

Mechanical Transmission

The mechanical transmission features good efficiency and a clear durable structure. Power is transmitted by articulated shafts and robust roller chains. Overload protection is handled by four, disc clutches, one for each of the rakes and one for the conveyor. Thanks for the mechanical drive, the rakes can even lift stones from beneath the surface.

Working Depth Control

The hydraulic height adjustment of the of the drawbar controls the working depth and brings the machine into the transport position. The height of the rakes on each side are controlled independently, and their working height is adjusted separately by the support wheels.

Resilient

The parts which are in contact with the stones are manufactured from wear resistant steel, guaranteeing a long economic operational life

Stone Conveyor and Long Screen A sieve screen runs the entire length of the stone conveyor, with the large and long surface ensuring better separation of stones from the soil. The stone hopper is filled from the top, so the entire hopper capacity is used. Stones are not thrown into the hopper. Therefore, ensuring there is less strain on the machine, the tractor, and the operator.

Reduced Driving Time

The machine is equipped with three large diameter rakes, which handle the entire working width. This means less passes required to do the work, and reduced soil compaction

Picked Clean in One Pass!





Mechanical Drive Provides for Top Efficiency

Power is transferred from the bevel gear and main T-gearbox to the front rotor, by the chain transmission and disc clutch. The other side transmits power via double chain to the conveyor and the side rakes. Each function has its own disc clutch to protect the transmission against overload. High-quality Bondioli components are used. The sieve screen runs the entire length of conveyor, so the stones are well cleaned.



Stones are Also Lifted in the Middle

The middle rotor processes the soil at a normal working depth at the center of the machine. It does not push the stones into the ground, but the lifts them out. The field surface is also flat at the center of the machine.



The large sieve screen area ensures better stone-soil separation, when compared with pickers that employ a rotor and grate system. The sieve is sprung, reducing the risk of blockages, and flagstones can not become caught in between the conveyor path.



The conveyor moves the stones along the top, dropping them into the hopper. Lifting height of the hopper is 250-cm (8').

Designed for Demanding Conditions



Parts that encounter stones and soil are manufactured from wear-resistant steel. The mechanical drive system is protected by overload clutches, guarantees non-stop power transmission and the best efficiency to the rotors, as well as to the conveyor. Work rates in the field, as well as working speed, are optimum.



Load-bearing belted tires and a strong undercarriage make for good handling in the field and on the road.

There are three tire options available, and hydraulic brakes are standard.



In a single pass, a level and clean result, even in the middle, is easily achieved. Stones in the middle are not pushed into the ground, instead they are “kicked” into the right-side rotor for collection. The rock collection hopper is mounted directly over the load bearing axles, so that the weight and working depth remain constant.

Blockages & Working Depth are Kept in Control

With rotor monitoring system, as protection against jamming and clutch slippages, available as an optional accessory, you can work in added safety and security. In even in dusty conditions, where visibility is reduced.

From the in-cabin monitor, the operator can keep an eye on the working depth.

Should jamming of a rotor or slippage of the conveyor clutch occur, an audible warning will sound and the light for the rotor or clutch will be shown in red.



Technical Specifications Agronic Rock Tornado 550

Weight kg (lbs)	4900 (10,802 lbs)
Working Width cm (ft. in.)	550 cm (18 ft. 4 in.)
Transport Width cm (ft. in.)	295 cm (9 ft. 6 in.)
Length cm (ft. in.)	750 cm (24 ft. 6 in.)
Working Depth cm (in.)	0-10 cm (0-4 in.)
Stone Size cm (in.)	3-50 cm (1 ¼ to 19 ¾ in.)
Hopper Volume m ³ (ft ³)	2 m ³ (70 ft ³)
Emptying Height m (ft.)	2.50 m (8 ft.)
Tire Size	500/60R22,5 Hyd. Brakes on front wheels.
Tractor Power Req.	kW/hp 75/100
PTO Rpm	540
Hydraulic Req.:	3x single-acting and 1x double-acting, 180 bar (2610 PSI)

Optional Accessories

Slippage & Working Depth Monitoring
Tires 600/50R22,5 and 710/45R22,5
K80 ball coupling.
PTO Shaft Wide angle

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