



Farm, Horticulture and Garden Equipment



**STONE and CLODS BURIERS "ROTOSTONE - FRANGITER"
with BED FORMER**

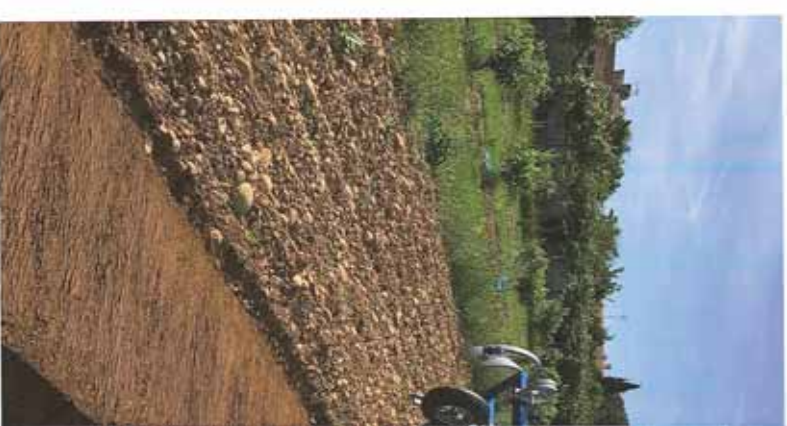


www.massanosnc.com

FOR OVER 30 YEARS
WE DESIGN AND PRODUCE MACHINES
FOR LAND WORKING



A wide range of stone buriers with bed former for all type of soils that allows you to save time, energy and money





Rotostone Massano: one machine... one person... one pass

Contents

Introduction to Rotostone System.....	4
The advantage of the Rotostone System.....	5
ROTOSTONE TYPE RSG WITH BED FORMER SHAPER.....	6
ROTOSTONE TYPE RSL WITH BED FORMER SHAPER.....	7
ROTOSTONE TYPE RSC WITH BED FORMER SHAPER.....	8
ROTOSTONE TYPE RSE WITH BED FORMER SHAPER.....	9
ROTOSTONE TYPE RSF WITH BED FORMER SHAPER.....	10
ROTOSTONE TYPE RSE PLUS WITH BED FORMER SHAPER.....	11
ROTOSTONE TYPE RSE PLUS. 2 WITH BED FORMER SHAPER.....	12
ROTOSTONE TYPE MEGA WITH BED FORMER SHAPER.....	13
ROTOSTONE TYPE TITAN WITH BED FORMER SHAPER.....	14
ROTOSTONE TYPE EXTREME WITH BED FORMER SHAPER.....	16

Trust us: producing agricultural machines is our life

This three point (A) mounted machine, when hitched to a tractor of appropriate horsepower, has proven to be ideal for the elimination, in one pass, of stones and vegetable residues on the surface.

The heart of the machine is the blade rotor (B), composed of specifically designed blades. Whose counter-rotation, throw stones, dirt, weeds and debris against the selection grill (C). The coarse material that is stopped by the grill, falls in the trench made by the working depth of the rotor, and is covered by the fine earth that passed through the selection grill and it is lightly pressed by the edge of the trailing board (D), forming a perfect seedbed with pressure controlled by the crank handle (E).

To allow the stone burier to work in such different soil's conditions, Massano company has researched and developed two types of rotors:



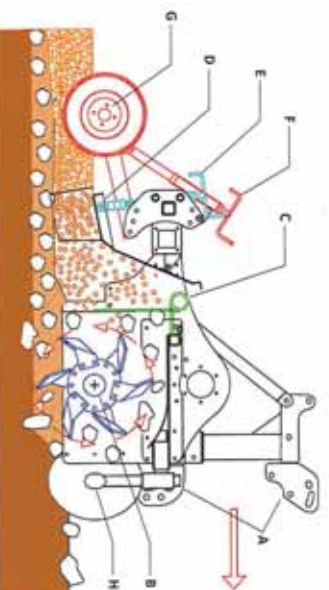
Rotostone

Used to bury stones, vegetables residues such as roots, harvest remains and small sticks by means of specially designed tiller blades that, in the soil, pull out the stones and throw them against the selection grill. In the photograph is shown the rotor with the special tiller blades mounted on double flanges.



Frangiter

Used to fracture and bury the hard clods present in especially dry soils with high clay content by means of special tools called blades which, in clay soils, break up the clods and throw them against the selection grill. In the photograph is shown the rotor with the special blades mounted on the inclined flanges.



The selection grill, in addition to having the function of sifting the soil, allows the operator to work in especially heavy conditions. The vibrating system guarantees the constant cleaning of the spring tines even in conditions of moist or wet soil, obtaining the continuous flow of dirt. Furthermore, the ability to change the working angle of the selection grill allows the operator to work more deeply with less power.

The working depth is adjustable from 5 to 35 cm (5-22 cm RSG, 5-22 cm RSL, 5-24 cm RSC, 5-30 cm RSE, 5-35 cm RSE Plus), using a special system of pins (F) that determine the position of the rear roller (G).

The side discs (H) are positioned in front of the machine to greatly facilitate the penetration and depth by opening a narrow trench that keeps the shield for the side chain drive from dragging before the rotor.

The large choice of accessories available for the stone burier allow the operator to work in different sectors:

- Creation and maintenance of green areas, horticulture, flower nurseries, golf course development and maintenance, remediation and inter-row weeding; vineyards-orchards-nurseries.

The advantages of Rotostone system

The Rotostone system, when used in agriculture, allows the improved management of the soil and direct seed or transplanted cultivations, substantially reducing the germination time (a reduction of three days in the harvest of lettuce) and an increase in production yields.

These results were proven in test trials done in conjunction with the central research department of Agricultural University of Lyon France, where



comparisons were done on the same test plots of land with other machines such as tiller/bedshapers and power harrows.

The blade rotor turns in a direction counter to that of a typical tiller.

This type of work develops a breakup of the soil from the bottom to the top without compacting the bottom layer, replicating the action of a spade, but with the difference of sifting out and burying, in one pass, clods, stones and vegetable residues, achieving a fine, loose top layer of soil that allows easier and more accurate seed planting and transplanting, and at the same time improving the ability of the soil to drain.



This principle does not apply to the normal tiller that works the soil in a downward direction, and at a working speed that results in a varying quality of finish. Therefore, in clay soils or those lacking in organic matter, there occurs a major compaction of the soil and a reduction in the soil's ability to drain.

All of these reasons have allowed our equipment to achieve a high level of quality in both the dependability during the working phase and the results obtained after planting or transplanting. For these valid reasons many farmers from many countries have chosen to come to the Rotostone system, abandoning the earlier methods of ploughing and tilling..

ROTOSTONE TYPE RSG WITH BED FORMER SHAPER

For tractors from 40 to 80 HP

Built with a working width from 125 to 185 cm, required power from 40 to 80 HP and working depth from 15 to 22 cm, RSG stone burier with bed former shaper is used mainly by horticultural companies that need to work in all types of soils using low power tractors.

Thanks to the modular structure of our machines it is possible to link to RSG stone burier with bed former shaper different accessories realized on request of our customers.



TYPE																																
	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	
125 RSG	125	150	430	28/42	240	40-50	640	840	15/22	85	105	30	25	135	165	25	45	20														
145 RSG	145	170	420	32/48	240	50-60	690	890	15/22	105	125	10	25	155	185	25	45	20														
165 RSG	165	190	420	36/54	260	60-70	750	950	15/22	125	145	10	25	175	205	25	45	20														
185 RSG	185	240	420	40/60	260	70-80	810	1010	15/22	145	165	10	25	195	225	25	45	20														



Weight with wheels



Weight with hydraulic motorized roller

ROTOSTONE TYPE RSC WITH BED FORMER SHAPER

For tractors from 70 to 120 HP

Built with a working width from 145 to 250 cm, required power from 70 to 120 HP and working depth from 15 to 25 cm. RSC stone burier is a professional machine used mainly by horticultural companies that need to work on hard soils.

Thanks to the modular structure of our machines it is possible to link to RSC stone burier with bed former shaper different accessories realized on request of our customers.



TYPE																
	CM	HP	CM	HP	CM	HP	CM	HP	CM	HP						
145 RSC	145	1370	460	28	70/80	840	3040	15/25	105	125	20	155	185	20	20	
165 RSC	165	1590	460	32	260	70/80	900	15/25	125	145	10	25	175	205	25	45
185 RSC	185	210	460	36	260	70/80	960	15/25	145	165	10	25	195	225	25	45
210 RSC	210	235	460	40	260	80/100	1080	15/25	170	190	10	25	220	250	25	45
230 RSC	230	255	460	44	260	80/100	1170	15/25	190	210	10	25	240	270	25	45
250 RSC	250	275	460	48	260	90/120	1280	15/25	210	230	10	25	260	290	25	45



Weight with wheels



Weight with hydraulic motorized roller

ROTOSTONE TYPE RSF WITH BED FORMER SHAPER

For tractors from 90 to 160 HP

Built with a working width from 185 to 300 cm, required power from 90 to 160 HP and working depth from 15 to 30 cm, RSF stone burier is a professional machine built to work on clayey and hard soils. The exclusive Franglier rotor and its high rotation speed allow to break up the clods evenly.

Franglier technique and the solid side transmission by gears allow to achieve more reliability and duration of the machine during the years even in extreme conditions.



TYPE	cm		mm	HP	rpm	kg	kg	cm	Single bed former shaper				Multiple bed former shaper			
	MIN	MAX							A = cm	B = cm	C = cm	D = cm	E = cm	F = cm		
185 RSF	185	225	560	66	340	80-120	1350	1430	15,700	MIN	MAX	MIN	MAX	MIN	MAX	
210 RSF	210	240	560	84	340	90-120	1380	1510	15,700	170	180	10	25	20	250	
230 RSF	230	270	560	90	340	100-120	1410	1610	15,700	190	210	10	25	240	270	
250 RSF	250	290	560	96	340	100-130	1460	1740	15,700	210	230	10	25	260	290	
270 RSF	270	310	560	102	340	100-150	1700	1900	15,700	230	250	10	25	280	310	
300 RSF	300	340	560	114	340	130-160	1780	1980	15,700	260	280	10	25	310	340	



Weight with wheels



Weight with hydraulic motorized rotor

ROTOSTONE TYPE RSE PLUS WITH BED FORMER SHAPER

For tractors from 150 to 240 HP

Built with a working width from 250 to 400 cm, required power from 150 to 240 HP and working depth from 15 to 30 cm, RSE-PLUS stone burier with bed former shaper is a professional machine used mainly by third parties and large horticultural companies that need to work in extreme conditions.

Thanks to the modular structure of our machines it is possible to link to RSE stone burier with bed former shaper different accessories realized on request of our customers.



TYPE	L		H		W		P		T		G		E		S		A		B		C		D		E		F		
	cm	mm	cm	mm	cm	mm	HP	cm	mm	cm	mm	kg	kg	cm	mm	mm	MAX	mm	MAX	mm	MAX	mm	MAX	mm	MAX	mm	MAX	mm	MAX
250 RSE-PLUS	250	275	540	48/72	240/290	140/150	1650	1850	15/30	210	230	10	25	360	290	25	45	45	20	20	20	20	20	20	20	20	20	20	20
270 RSE-PLUS	270	295	540	52/78	240/290	150/180	1740	1960	15/30	230	250	10	25	280	310	25	45	45	20	20	20	20	20	20	20	20	20	20	20
300 RSE-PLUS	300	325	540	60/90	240/290	160/180	1890	2090	15/30	260	280	10	25	310	340	25	45	45	20	20	20	20	20	20	20	20	20	20	20
320 RSE-PLUS	320	345	540	64/96	240/290	160/200	2010	2210	15/30	280	300	10	25	330	360	25	45	45	20	20	20	20	20	20	20	20	20	20	20
360 RSE-PLUS	360	385	540	72/108	240/290	180/220	2190	2390	15/30	320	340	10	25	370	400	25	45	45	20	20	20	20	20	20	20	20	20	20	20
400 RSE-PLUS	400	425	540	80/120	240/290	200/240	2350	2550	15/30																				



Weight with wheels



Weight with hydraulic motorized roller

ROTOSTONE TYPE RSE PLUS.2 WITH BED FORMER SHAPER

For tractors from 150 to 360 HP

seeding bed with one pass.

Thanks to the modular structure of our machines it is possible to link to RSE stone burier with bed former shaper different accessories realized on request of our customers.



Built with a working width from 340 to 600 cm, required power from 150 to 360 HP and working depth from 15 to 30 cm.
RSE-PLUS.2 stone burier with bed former shaper is a professional machine used mainly by large horticultural companies in order to improve the preparation of the

TYPE																	
	cm	mm	mm	HP	HP	kg	kg	cm	MMH	MAX	MMH	MAX	HP 4.0m	cm	MMH	MAX	
340 RSE-PLUS.2	3x120	340	540	64/96	250/300	140/150	2310	2510	15/30	45	95	25	75	3x120	360	10	25
370 RSE-PLUS.2	3x130	390	540	72/108	250/300	150/160	2520	2720	15/30	55	105	25	75	3x130	390	10	25
400 RSE-PLUS.2	3x140	420	540	80/120	250/300	160/170	2880	3080	15/30	65	115	25	75	3x140	420	10	25
430 RSE-PLUS.2	3x150	450	540	88/132	250/300	170/180	3120	3320	15/30	75	125	25	75	3x150	450	10	25
460 RSE-PLUS.2	3x160	480	540	96/144	250/300	180/200	3220	3780	15/30	85	135	25	75	3x160	480	10	25
490 RSE-PLUS.2	3x170	510	540	100/150	250/300	220/240	3340	3890	15/30	95	145	25	75	3x170	510	10	25
520 RSE-PLUS.2	3x180	540	540	104/156	300	240/260	3450	4020	15/30	105	155	25	75	3x180	540	10	25
550 RSE-PLUS.2	3x190	570	540	104/158	300	260/280	3560	4120	15/30	115	165	25	75	3x190	570	10	25
580 RSE-PLUS.2	3x200	600	540	112/148	300	280/290	3680	4220	15/30	125	175	25	75	3x200	600	10	25



Weight with wheels



Weight with hydraulic motorised rod

ROTOSTONE TYPE MEGA WITH BED FORMER SHAPER

For tractors from 140 to 240 HP

Built with a working width from 400 to 600 cm folding, required power from 140 to 240 HP and working depth from 15 to 30 cm.

ROTOSTONE MEGA is a series of folding stone buriers with bed former addressed to medium- large horticultural companies. The use of particular materials

with high flexibility and the special design of the central frame allow to contain the machine's weight and to keep a high quality standard.

All these features allow to use tractors with medium- high powers with working widths bigger than the standard ones and make easier the access in greenhouses and in little areas.



TYPE	cm		mm		HP	rpm	HP	kg	kg	cm	A = cm			B = cm			C =		D =		E = cm				
	cm	cm	mm	mm							HP	rpm	HP	kg	kg	cm	MIN	MAX	MIN	MAX	MIN	MAX	HP	MAX	MIN
340 - 3 (green)	34120	250	540	64/96	250	140-160	2510	3010	15/30	45	95	25	75	34120	360	10	25	34120	390	10	25	34120	360	10	25
370 - 3 (green)	34130	250	540	77/108	250	140-160	2680	3180	15/30	55	105	25	75	34130	390	10	25	34130	390	10	25	34130	390	10	25
400 - 3 (green)	34140	250	540	80/120	250	150-170	2810	3320	15/30	65	115	25	75	34140	420	10	25	34140	420	10	25	34140	420	10	25
430 - 3 (green)	34150	250	540	88/132	250	150-180	2970	3460	15/30	75	125	25	75	34150	450	10	25	34150	450	10	25	34150	450	10	25
460 - 3 (green)	34160	250	540	96/144	250	160-180	3080	3650	15/30	85	135	25	75	34160	480	10	25	34160	480	10	25	34160	480	10	25
490 - 3 (green)	34170	250	540	100/150	250	180-200	3180	3720	15/30	95	145	25	75	34170	510	10	25	34170	510	10	25	34170	510	10	25
520 - 3 (green)	34180	250	540	104/156	250	180-240	3250	3850	15/30	105	155	25	75	34180	540	10	25	34180	540	10	25	34180	540	10	25



Weight with wheels



Weight with hydraulic motorized roller

ROTOSTONE TYPE TITAN WITH BED FORMER SHAPER

For tractors from 180 to 360 HP

Built with a working width from 420 to 720 cm folding, required power from 180 to 360 HP and working depth from 15 to 30 cm.

ROTOSTONE TITAN RSE is a series of folding stone burliers with bed former shaper addressed to third parties and large companies. The particular frame design allows to limit its size during transport: 2,8 meters for

420/460/500/540 models and 3 meters for 600 & 720 models.

Thanks to the modular structure of our machines it is possible to link to TITAN stone burlier with bed former shaper different accessories realized on request of our customers.



TYPE	H		H1/3		R	R1/3	T	T1/3	P	P1/3	Rg	Rg	Cm	A = cm					B = cm					C		D		E = cm									
	cm	cm	cm	mm										mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
340 RSE	3x120	280	540	64/96	300	160/200	3580	4130	15/20	15/20	45	95	25	25	75	3x120	360	10	10	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25			
370 RSE	3x120	280	540	77/208	300	170/200	3720	4270	15/20	15/20	55	105	25	25	75	3x120	390	10	10	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25		
400 RSE	3x150	280	540	80/210	300	180/240	3890	4440	15/20	15/20	65	115	25	25	75	3x150	420	10	10	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
430 RSE	3x150	280	540	88/212	300	200/240	3980	4530	15/20	15/20	75	125	25	25	75	3x150	450	10	10	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
460 RSE	3x160	280	540	96/244	300	220/280	4110	4660	15/20	15/20	85	135	25	25	75	3x160	480	10	10	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
490 RSE	3x170	280	540	100/250	300	220/290	4240	4790	15/20	15/20	95	145	25	25	75	3x170	510	10	10	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
520 RSE	3x180	280	540	104/258	300	240/290	4330	4880	15/20	15/20	105	155	25	25	75	3x180	540	10	10	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
550 RSE	3x190	280	540	104/258	300	240/290	4420	4970	15/20	15/20	115	165	25	25	75	3x190	570	10	10	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
580 RSE	3x200	280	540	112/268	300	260/340	4580	5130	15/20	15/20	125	175	25	25	75	3x200	600	10	10	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25



Weight with wheels



Weight with hydraulic motorized roller

ACCESSORIES



Hydraulic motorized roller



Hydraulic oil cooler



Wheels marker



Front wheels



Hydraulic circuit

ROTOSTONE TYPE **EXTREME** WITH BED FORMER SHAPER

For tractors from 100 to 360 HP



Built with a working width from 145 to 600 cm, required power from 100 to 360 HP and working depth from 15 to 38 cm. **EXTREME** stone burner can achieve a high quality result in extreme conditions without deforming the machine's frame.

Machine realized only on customers' request.



The side transmission is higher than the standard ones.

For machines with working width from 145 to 210 cm the transmission is through reinforced chain while for machines with working width from 250 to 500 cm the transmission is by gears.



The distance between the two drive shafts is bigger than usual, this allows a greater space between the rotor and the frame.

This system allows to the Extreme type to work in every condition with stones with diameter bigger than 30 centimetres.

Realized only on **CUSTOMER'S** request









MERCURIO PORO®



Massano A. di Massano Valerio & C. s.n.c.
Via Castellale, 4 - Fr. Cavalletto - 12038 Savigliano (CN) Italy
Tel: +39 0172 377467 - Fax: +39 0172 377014
info@massanoenc.com - www.massanoenc.com



SOLEX CORP
220 S. JEFFERSON ST
DIXON, CALIF 95620
PHONE 707-678-5533
www.solexcorp.com