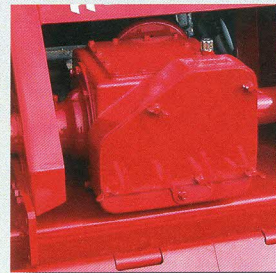


 **HOWARD**
ROTAVATOR
500 / 600 / 700



Rotavator: Highly effective for optimal tillage

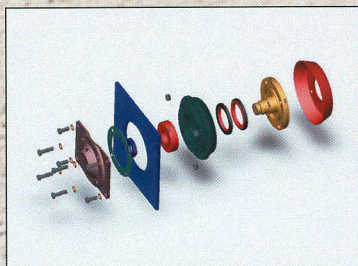
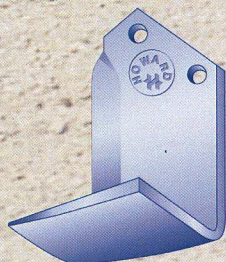
Rotavator is the most efficient system when we ask for a definitive tillage solution. No matter the soil type, the conditions or amount of residues: The result is always the best.

Anyhow, it can be adjusted to get many different working depths, and soil finish with very easy changes.

The Rotavator is also the most versatile implement for two purposes:

1. Crumbling: It can be set from a very coarse tillage to a very fine finish
2. Residues mixing: It can cope with high amounts of weeds or trash without blocking and giving the most perfect mixture of the residues. The benefits are a complete clean surface and easy incorporation of organic material to the soil structure.

The Rotavator program offers a wide range of final versions making easy to adapt the machine to any tractor or application.



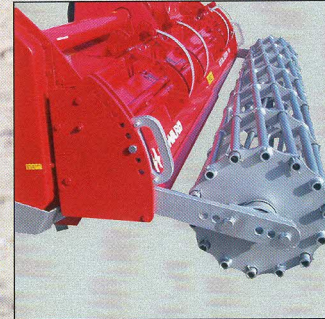
Rotavator 500B-230M.



Adjustable CE protections. Easy adaptation for front wheels, track looseners, etc.



Rotavator is the most effective system for crumbling and residues incorporation.



Compact depth control system for rear wheels and rollers.

Crumbling effect

The Rotavator is acting cutting soil slices with the rotor and projecting them to the rear trailing board. A combination of working depth, rotor speed, tractor speed and trailing board settings allows a wide range of tillage finish. It is highly appreciated in vegetable growing where the soil conditions for the planters need to be extremely fine. This is even more important when the crop production is consisting on roots, bulbs, tubercles or other subsoil products, as potato, carrot, onion, asparagus, and others, where the presence of big clods can affect the quality and the shape of the product. Even though the Rotavator can also be used as a quick seed bed preparator for normal farming crops, using it as a final pass before drilling or in combination with a seed drill.



Residues incorporation

The rotating blades mix perfectly the residues with the soil better than any other implement.

- Manure incorporation
- Fertilizing crop incorporation
- Maize and grain stubble incorporation
- Weed control
- Vegetable residues

HOWARD Rotavator. The original is better

Since 1922, the HOWARD Rotavator has helped thousands of farmers around the world. Today the HOWARD range has the ultimate technologies to match the more professional users needs.

The original blade "Made in France" offers what is expected from a cost saving farming management:

- Durability
- Less power requirement
- High crumbling effect
- Less soil compaction
- Wide range of Rotor possibilities
- Longer periods between blade changes

Reliable transmission elements make the difference:

- Original clutch with syntherised brass discs.
- Highly efficient gearboxes in single speed, four speed Selectatilh*, and lever change gearbox.
- Gear side transmission (except R500B)
- Face seals on the rotor bearing units.

ROTALABOUR. Finest seed bed preparator

The Rotalabour is a perfect machine for seedbed preparation. The special shape of the Rotalabour blades even when is highly effective breaking the clods, take very small power from the tractor. This allows bigger working widths than a normal Rotavator, using the same tractor. Another positive aspect of the Rotalabour rotors is the fact that the soil under the working depth receives discontinued pressure from the blades increasing the filtration capacity of the soil.

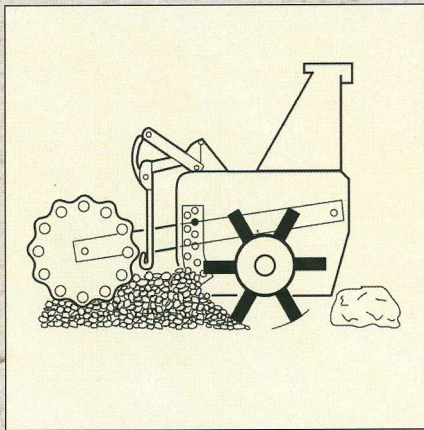
The blade is coming into the soil in a "negative" angle, meaning that the vegetal residues cannot be stacked in the middle of the rotor as happens with most of similar rotors from other manufacturers.



Rotalabour 600S-305S with toothed packer roller

Best productivity in his class

Rotalabour blades design has been optimised, providing a perfect tillage, either in ploughed land or direct in stubble fields. This means that the Rotalabour rotor is very efficient levelling and crumbling clods. The results are also really good in heavy and dry conditions.



The work on stubble fields is very even and without blockages, due to straw or other vegetal residues. The reason is the working angle of Rotalabour blades, which is not accumulating the straw in the rotor centre.

Compact configuration

The double hinged trailing board allows a very close position of the rear roller. The multi-stop depth control helps the machine to overtake hidden stones without overloading the system and leaving no marks in the field.

This is specially appreciated when the Rotalabour is combined with a seed drill.



Rotor Rotalabour 2 boulons.



Rotor Rotalabour F1-R500.



Rotor Rotalabour F1-R600/700.

ROTAVATOR 500 SERIES

The Rotavator 500 is presented in a wide range of working widths and different settings to be fitted to most applications with medium tractors. The combination of different trailing boards, depth control and rotors available, gives the user the possibility to apply it in many different purposes such as: Vegetable production, orchards, vineyards or normal farming. The very strong frame concept with double plate allows the use in very heavy conditions without problems. With the new depth control concept the machine has a very compact overall size, which allows to work very close to the edge of the field and to other possible obstacles (as irrigation systems or plantations.)



Rotalabour 500S-305S with cage roller.

Rotavator 500B (Basic)

The basic version is equipped with chain side drive and offers a wide range of applications, from the vineyard cultivation to vegetable production. It is available as option in double tube for extra reinforcement. When operated with depth control skids is able to work in open fields as well as in greenhouses or in orchards. With this system the machine can also be used with Delta trailing board, providing a perfect finish, without marks in the field. The rear steel wheels provide a very good stability and the depth is controlled very precisely. When operated with rear roller the machine is doing a second operation: reconsolidation of soil. The roller is normally equipped in combination with double hinged trailing board giving a very compact configuration.



Rotavator 500B-180M.

Rotavator 500S (Super)

This version is equipped with gear side drive, providing an excellent reliability, maintenance free, even in heavy duty conditions, for users working many hours per year.

This version is equipped with double tube as standard, giving the machine an extra reinforcement. It is also available with Rotor Super (S blade and double flange) to work in difficult conditions.

It has the same possibilities in terms of trailing boards and depth controls as explained for R500B.



Rotavator 500S-255S with toothed packer roller



Single speed gearbox.



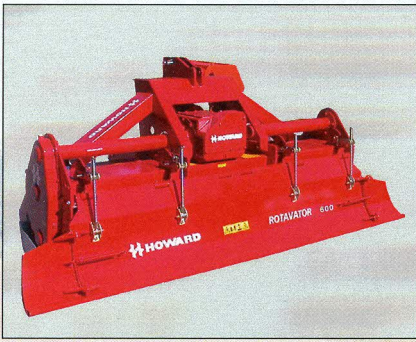
Standard Selectatilt gearbox. The speed is adjusted to the desired finish.



Reinforced Selectatilt gearbox for 280 and 305 working width. It can be mounted to tractors up to 125 HP.



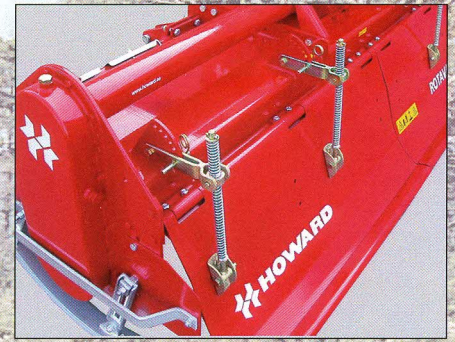
Double hinged trailing board. Allows very compact mounting of rollers.



Depth control skid.



Rear steel wheels.



Trailing board with coil springs as standard.

The Rotalabour versions allow quick and precise seed bed preparation. It is available in two different rotor types: RL= 2 bolt blade. F1= quick fit 1 bolt blade.

ROTAVATOR / ROTALABOUR 500B - Chain side drive w/single speed gearbox

Model	Working width in (m)	Transport width in (m)	Speed rpm	Weight lbs (kg)	Number of blades	Tractor engine power, hp (kW)
R500B-110M	43 (1.10)	55 (1.39)	210	880 (400)	27	40-100 (29-74)
R500B-130M	51 (1.30)	63 (1.59)		946 (430)	30	45-100 (33-74)
R500B-155M	61 (1.55)	72 (1.84)		1056 (480)	36	50-100 (37-74)
R500B-165M	65 (1.65)	76 (1.92)		1111 (505)	39	50-100 (37-74)
R500B-180M	71 (1.80)	82 (2.09)		1166 (530)	42	60-100 (44-74)
R500B-205M	81 (2.05)	88 (2.24)		1276 (580)	48	70-100 (52-74)
R500B-230M	90 (2.30)	102 (2.59)		1386 (630)	54	75-100 (55-74)
R500B-255M	100 (2.55)	112 (2.84)		1486 (680)	60	85-100 (63-74)

ROTAVATOR / ROTALABOUR 500B - Chain side drive w/Selectitilt 4 speed gearbox

Model	Working width in (m)	Transport width in (m)	Speed rpm	Weight lbs (kg)	Number of blades	Tractor engine power, hp (kW)
R500B-130S	51 (1.30)	63 (1.59)	175/195 220/245	946(430)	30	45-100 (33-74)
R500B-155S	61 (1.55)	72 (1.84)		1056 (480)	36	50-100 (37-74)
R500B-165S	65 (1.65)	76 (1.92)		1111 (505)	39	55-100 (40-74)
R500B-180S	71 (1.80)	82 (2.09)		1166 (530)	42	60-100 (44-74)
R500B-205S	81 (2.05)	88 (2.24)		1276 (580)	48	70-100 (52-74)
R500B-230S	90 (2.30)	102 (2.59)		1386 (630)	54	75-100 (55-74)
R500B-255S	100 (2.55)	112 (2.84)		1486 (680)	60	85-100 (63-74)

ROTAVATOR / ROTALABOUR 500S - Chain side drive w/Selectitilt 4 speed gearbox

Model	Working width in (m)	Transport width in (m)	Speed rpm	Weight lbs (kg)	Number of blades	Tractor engine power, hp (kW)
R500S-180S	71 (1.80)	82 (2.09)	175/195 220/245	1210 (550)	42	60-100 (44-74)
R500S-205S	81 (2.05)	88 (2.24)		1320 (600)	48	70-100 (52-74)
R500S-215S	84 (2.15)	92 (2.34)		1375 (625)	51	75-100 (55-74)
R500S-230S	90 (2.30)	102 (2.59)		1430 (650)	54	75-100 (55-74)
R500S-255S	100 (2.55)	112 (2.84)		1540 (700)	60	85-100 (63-74)
R500S-280S	110 (2.80)	118 (3.00)		1980 (900)	66	95-125 (70-92)
R500S-305S	120 (3.05)	132 (3.34)		2090 (950)	72	100-125 (74-92)

Rotavator 600

The Rotavator 600 series is mostly used with medium to big tractors, in intensive farms and for contractors. There are machines from 71 to 140 in (180 to 355 cm) working width and for tractors from 80 to 180 hp (59 to 132 kW). The range is available in 4 different rotor types both in single or double flange.

The range includes the new 110 in (280 cm) working width (on transport width 18 in (300 cm)) to comply with traffic regulation in most European countries without special permission. This has been possible due to the new depth control system which is extremely compact and reliable. The depth control is available with skids (only until 100 in (255 cm) working width), with rear wheels and a wide range of packer rollers, depending on the application and soil conditions.



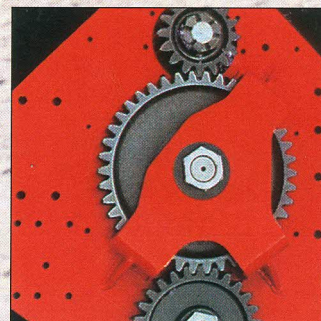
Rotalabour 600S-305S with toothed packer roller.

Rotavator 600 is extremely reliable, due to the long time proven gear side transmission and to the face seal protection of the rotor bearing units that gives a longer working life to the machine without maintenance. This feature is very appreciated in large farms and by the contractors using this Rotavator. The benefit is a reduction in costs for longer periods between maintenance and minimum lost time during season.

Model	Working width, in (m)	Transport width, in (m)	Rotor Speed rpm	Weight lbs (kg)	Number of blades	Tractor engine power hp (kW)
R600S-180S	71 (1.80)	82 (2.09)	219 / 237 278 / 302	1210 (550)	42	80-180 (59-132)
R600S-205S	81 (2.05)	88 (2.24)		1320 (600)	48	90-180 (66-132)
R600S-230S	90 (2.30)	102 (2.59)		1430 (650)	54	100-180 (74-132)
R600S-255S	100 (2.55)	112 (2.84)		1540 (700)	60	110-180 (81-132)
R600S-280S	110 (2.80)	118 (3.00)		1980 (900)	66	120-180 (88-132)
R600S-305S	120 (3.05)	132 (3.34)		2090 (950)	72	120-180 (88-132)
R600S-355S	140 (3.55)	152 (3.85)		2650 (1250)	84	130-180 (96-132)



R600S-S. Four speeds for heavy duty use. This model can be fitted to tractors up to 180 hp (132 kW)



Gear side drive.

Rotavator 700X

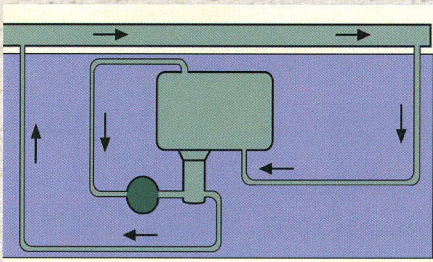
Rotavator 700 series are the most sophisticated machines in their category. With double side transmission in only one blade rotor, the machine offers high reliability due to its synchronized gear side transmission. The oil cooling system allows long and intensive working days protecting the transmission elements and giving a long operative life to the complete machine.

The rotor bearing units are protected (as well as the other series) with face seals, giving a longer life to the units that can be 2 or 3 times longer than the normal system with plain oil seals.

The frame is extremely strong, including 3 structural tubes and double plate hull.



R700X-405D. Double side drive, heavy duty machine.

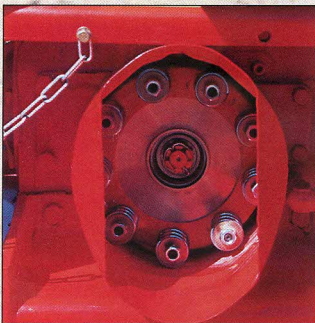


Oil cooling system to give a longer working life to the gearbox.

Rotavator 700 is dedicated to the contractors and big farms. It is designed for tractors with cat. 3 hitch. The robust frame ensures a perfect rigidity to protect the transmission elements.

The depth control system with multi-stop pin is safe, exact and easy to adjust. The machine is available with pneumatic rear wheels and with roller. The double hinged trailing board allows a very compact mounting of the roller.

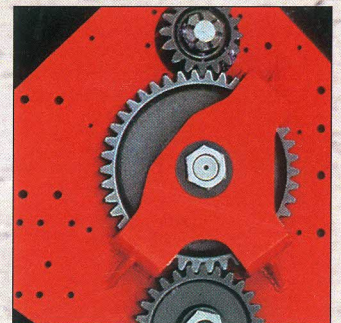
Model	Working width in (m)	Transport width in (m)	Speed rpm	Weight lbs (kg)	Number of blades	Tractor engine power hp (kW)
R700X-255D	100 (2.55)	112 (2.85)	188, 212, 238	2860 (1300)	60	up to 220 (162)
R700X-305D	120 (3.05)	132 (3.35)		3168 (1440)	72	
R700X-355D	140 (3.55)	152 (3.85)		3498 (1590)	84	
R700X-405D	160 (4.05)	170 (4.35)		3828 (1740)	96	



Heavy duty friction clutch.

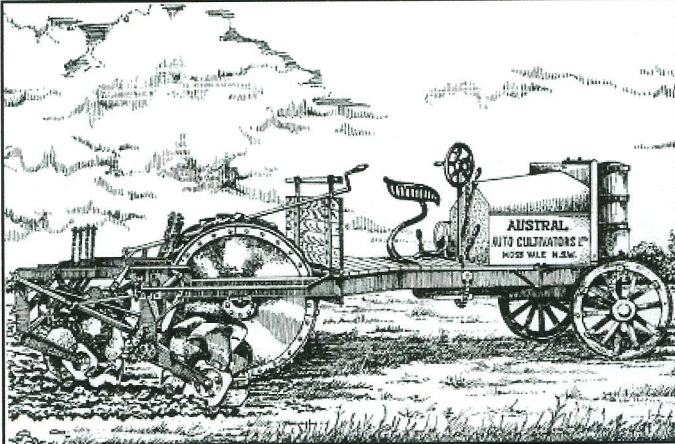


Linkage cat. 3 and 2 with quick coupling.

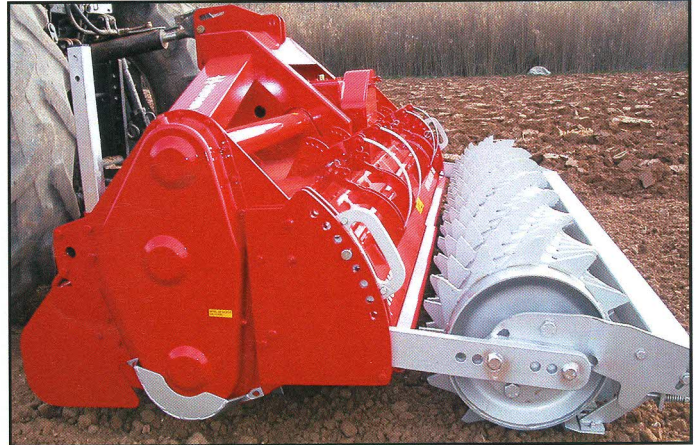


Gear side drive.

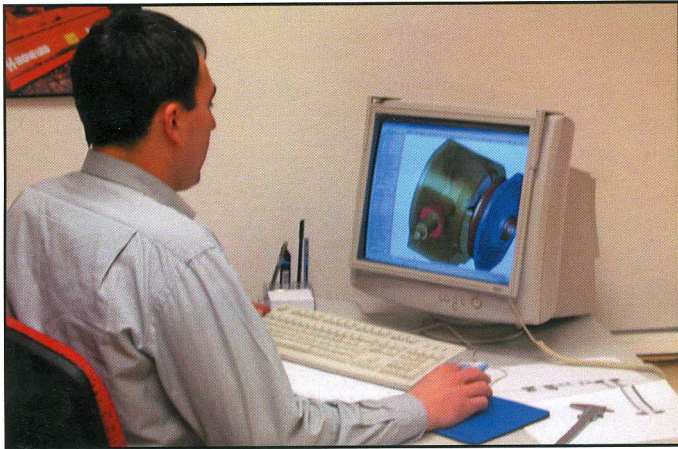
Rotavator and Rotalabour. The benefit from the experience and the ultimate technology



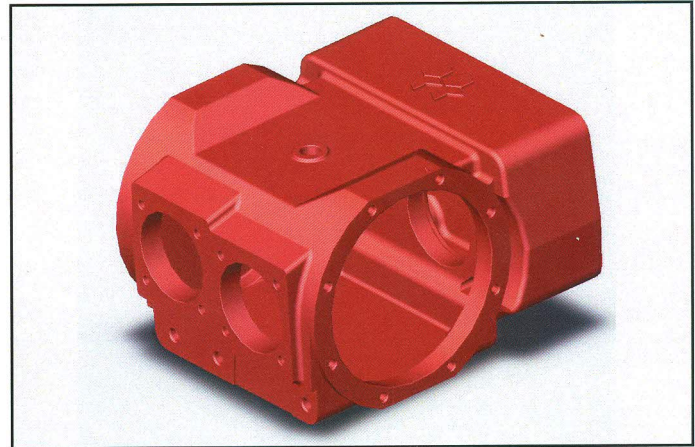
The Rotavator was invented by Mr. A.C. Howard in 1922.



Rotavator 500S-255S with toothed packer roller.



The ultimate technologies have been applied to the Rotavator range.



Take the advantages of the original machine. Howard has invest during years in the Rotavator program and as a result there are thousands of satisfied farmers around the world. As the needs and applications are constantly changing, Howard offers the most complete range and many different options and configurations in order to match any demand from the market.

Only high quality materials and procedures are used in the production of the Rotavators and Rotalabours, giving extremely reliable machines, capable to work in most difficult conditions.

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