

*2.5, 3.0 and 4.0 metre
Power Harrows for
tractors up to 140hp*



HOWARD[®]

Harrovator series "B"

- * Two year transmission warranty**
- * Stone guard protection for stony conditions**
- * Optional blade lengths**
- * Produces high quality seedbeds**
- * Tapered roller bearings on rotor shaft**
- * 3 speed lever change gearbox**



The power harrow built seedbeds under the

The Howard Harrovator Series "B" machines are rugged, primary or secondary, power harrows designed to meet the farmer's needs in terms of consistent high quality seedbeds prepared in a single pass, even in the toughest conditions.

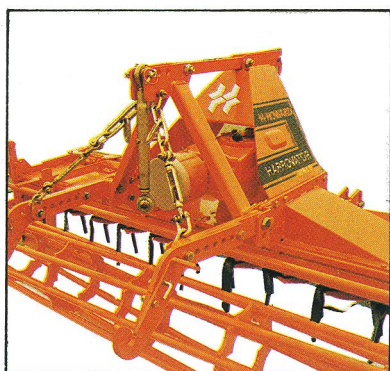
Harrovators may be used for virtually any seedbed preparation, including cereals, root crops, vegetables and grass.

This heavy duty power harrow is available in 2.5, 3.0 and 4.0 metre working widths. It has been developed to cultivate even in the toughest conditions including boulder clay or stony ground.

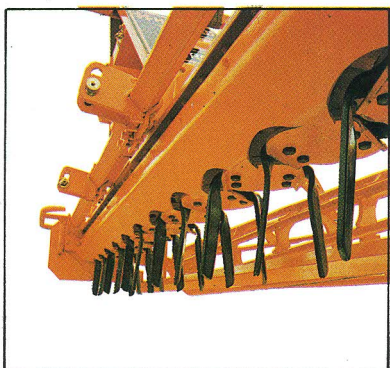
A front mounted stone guard allows protecting the rotating blade carriers.

The Harrovator features high carbon steel blades. These blades have a "swept back" design to cut through the soil and easily ride over stones.

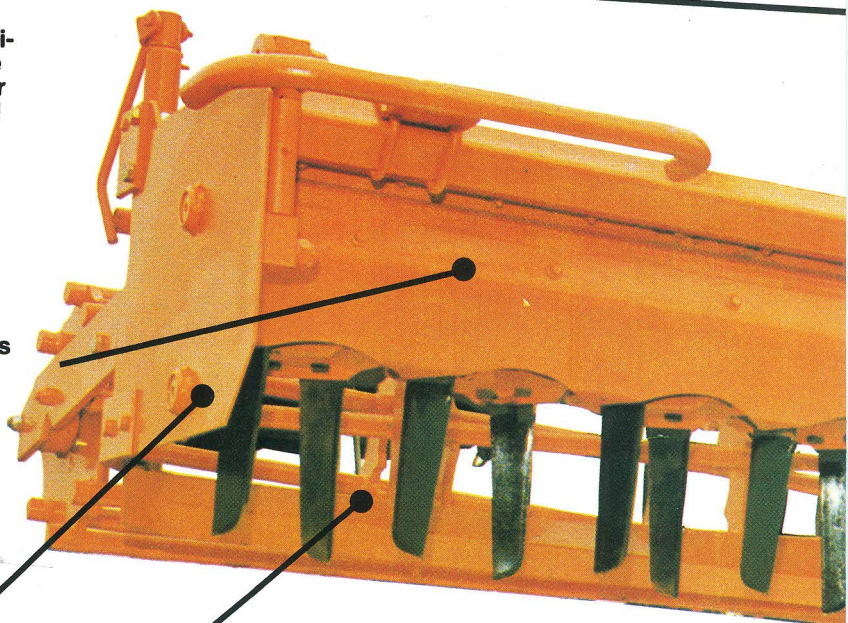
The vertically rotating "Swept Back" blades create deep seedbeds, retaining the topsoil below, creating an ideal seedbed for crop germination.



The optional Combi-Hitch facilitates the attachment of other implements behind the Harrovator to achieve combined operations in a single pass.



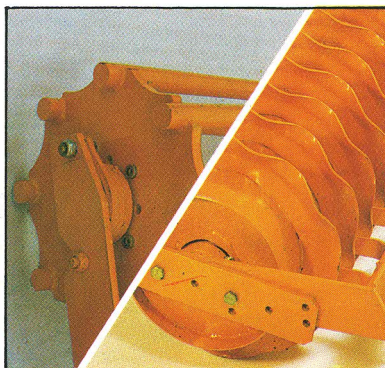
Front mounted stone guard prevents the ingress of stones to the blade carriers thereby protecting them from damage or excess wear.



A choice of rear rollers are available:-

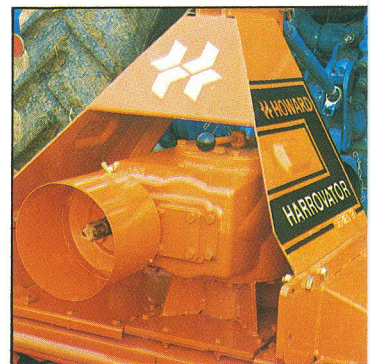


Floating, spring-loaded side guards maintain a level, ridge-free seedbed.



Open centre Crumble Roller for crumbling, firming and levelling or Packer Roller fitted with cleaning skimmers for adverse conditions and moisture conservation.

A lever change gearbox protected by a ratchet clutch provides 3 rotor speeds in order to produce the optimum seedbed. Helical cut crownwheel and pinion ensures smooth power transmission and a through shaft enables other power equipment to be used in combination.

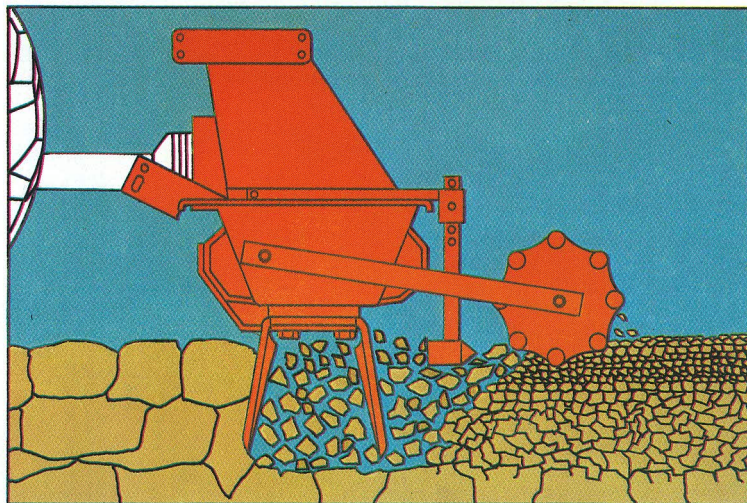
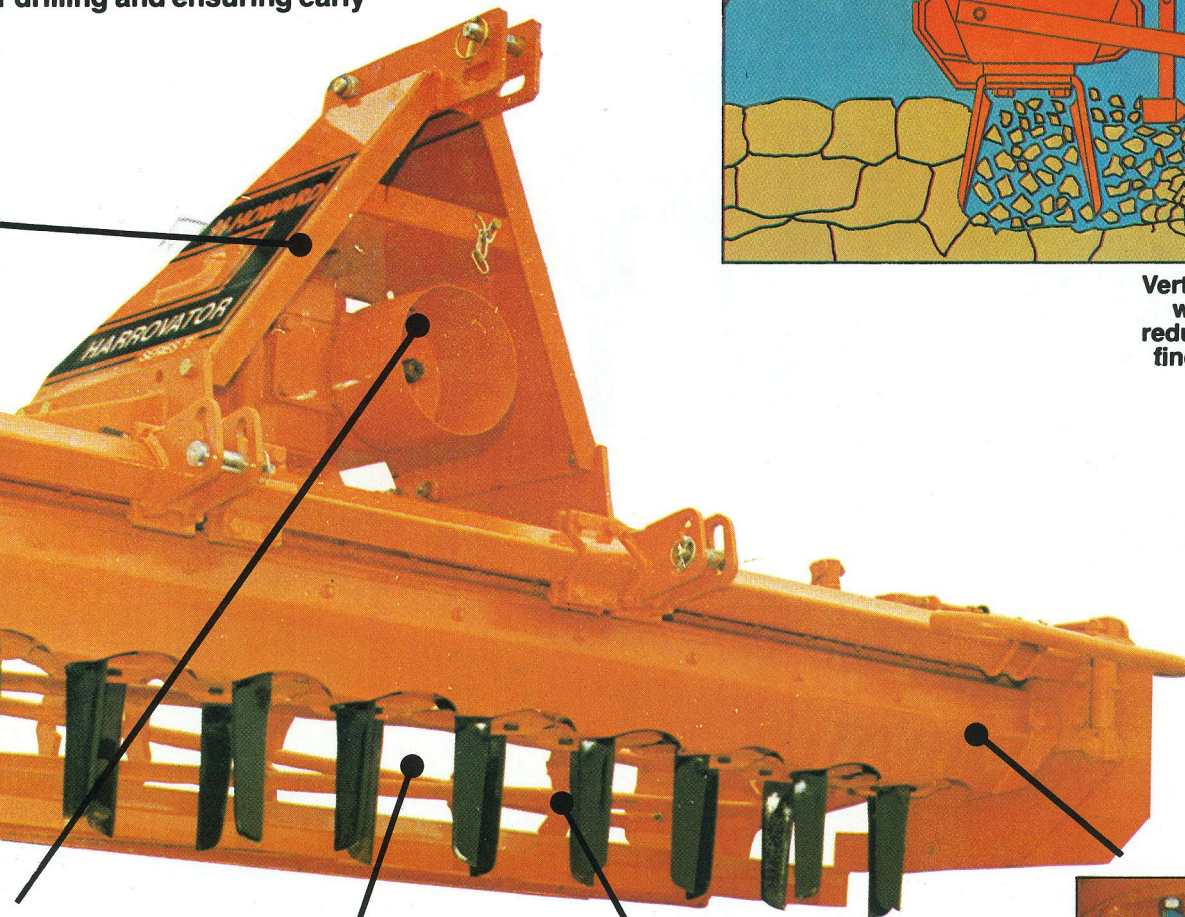


uilt to provide quality toughest conditions.

s maximum depth cultivation while
s from damage.

a alloy steel blades in preference to
"back" design which enables them to
over stones.

" blades produce both shallow and
oil on the surface and the moist soil
r drilling and ensuring early

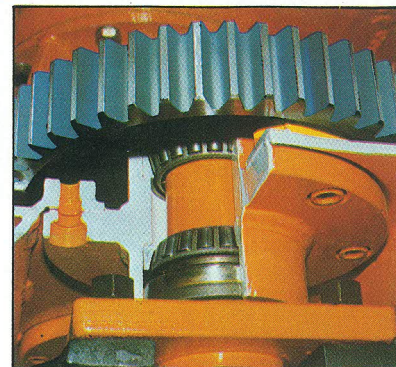
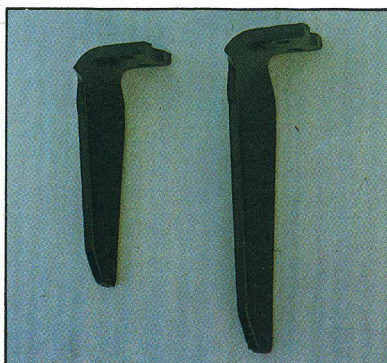


Vertical rotating rotors fitted with "swept back" blades reduce the largest clods to a fine tilth whilst maintaining the ideal soil structure.

A rear levelling bar holds the soil clods within the working area ensuring maximum shatter and levelling.



Two blade options are available:-
25 cm (10") length for cereal
seedbed cultivation and heavy
duty 32 cm (12") for deep root
crop seedbed cultivation.



Twin tapered roller bearings are fitted to all rotor shafts, ensuring maximum reliability and strength.

Engineered to the highest specifications

The Harrovator Series "B" may be used in combination with the Howard Prebuster, a front mounted toolbar with a choice of "C" Share or Ducksfoot tips. This implement combination is highly effective as a primary cultivator for loosening and single pass seedbed preparation, for deep potato and root crop seedbeds in the spring and for stubble busting and cereal seedbeds in the autumn.

The Prebuster is available in two models. The single beam VGL Series for normal soil conditions and shallow loosening to a maximum depth of 20 cm (8") and the heavy duty VGS twin beam version for the more arduous conditions at a maximum depth of 35 cm (14").

VGL Series Prebuster with Harrovator Series "B".



Specification	250	300	400
Tillage Width	2.5m	3.0m	400cm
Overall Width	262cm	312cm	425cm
Number of Rotors	10	12	16
Number of Blades	20	24	32
Weight	790kg	925kg	1100kg
Max. hp 540 rpm	----- 100 hp -----		N/A
Max. hp 1000 rpm	-	120 hp	140 hp
Rotor speeds, 540 rpm	----- 250, 300, 360 -----		N/A
Rotor speeds, 1000 rpm	----- 270, 330, 400 -----		
Gearbox	----- 3 speed lever change -----		
Depth of tillage, standard blade	----- 25 cm -----		
Depth of tillage, optional blade	----- 32 cm -----		
Rear PTO shaft	----- standard -----		
Rotor Shaft bearings	----- taper roller type -----		
Depth Control	----- crumble roller/packer roller -----		
Mounting	----- Category II -----		
Safety Clutch	----- Ratchet Type -----		

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