

3 ranges of Power Harrows suitable for tractors from 50 to 180 H.P. and working widths of 2 to 4 metres.



Howard Power Harrows



HK20/300 illustrated

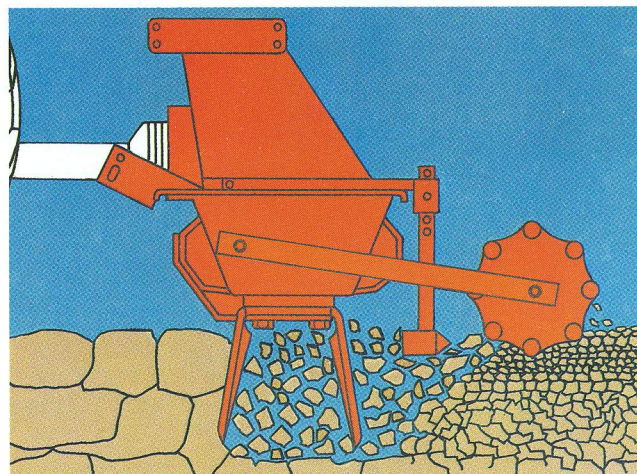
- * **Suitable for Spring or Autumn, deep or shallow cultivation.**
- * **2 Year Transmission Warranty.**
- * **Ideal for combination tillage.**
- * **Choice of Packer, Crumble or Coil Roller.**
- * **All models fitted with safety clutch.**
- * **Choice of blade.**
- * **3 Ranges of quality machines to choose from.**

THRIGE AGRO

HOWARD POWER "MACHINES FOR

The Howard Power Harrows are a rugged and extremely versatile range of powered cultivators designed to meet farmers' and contractors requirements of preparing consistently high quality deep or shallow seedbeds, in a wide variety of soil types in high moisture or dry conditions and as an independent cultivator or in combination with a seed drill.

As illustrated, the vertical rotating rotors are fitted with low power requirement blades which reduce the largest clods to a fine tilth, whilst maintaining the ideal soil structure. The rear levelling bar retains clods within the cultivation chamber and uniformly levels the surface prior to the rear roller which further levels and firms the seedbed.



▲ HK20/300 fitted with Packer Roller.

▼ HK30/300 shown with Crumble Roller.



HK20 50-95 HP

The HK20 range of Power Harrows are suitable for use on tractors with a PTO of 540 or 1000rpm up to 95 hp and are available in either 1, 1.25, 1.5, 2, 2.5 or 3 metre working widths. They feature a selectatilt* gearbox protected by a safety clutch, with pick off gears providing a choice of rotor speed and therefore seedbed tilth. These models are fitted as standard with 25cm x 15mm high carbon steel blades and are available with a choice of rollers. The rear levelling bar is optional as is the stoneguard which is recommended when the HK20 Power Harrow is used in soil conditions with a high stone content.

The HK20 is suitable for use in combination with seed drills.
* Single speed on 1, 1.25 and 1.5 metre machines.

HK30 70-140 HP

HK30 Power Harrows are available in 2.5, 3, 3.5 and 4 metre working widths and are designed to cultivate in heavy conditions where higher horsepower tractors may be required.

The 1000 rpm gearbox which is protected by a safety clutch provides 3 speeds and these are selected through a simple lever change.

All HK30 Power Harrows feature as standard the front stoneguard. This prevents the ingress of stones to the blade carriers, thereby protecting them from damage or excess wear.

The blades are manufactured from high carbon alloy steel and are designed to enable them to cut through the soil as well as ride over stones and other obstacles. The HK30 is fitted as standard with a 25cm x 15mm blade for all normal cultivations. However, a larger 30cm blade is available for deep root crop seedbed preparation.

The floating rear levelling bar is a standard fitment and a choice of rollers are available.

All HK30 Power Harrows are suitable for use in combination with seed drills.

POWER HARROWS FOR ALL SEASONS



HK40 100-180 HP

For demanding conditions and extremely heavy land where high horsepower tractors are necessary to achieve high productivity, the HK40 Power Harrow is the ideal choice.

The 4 speed lever change gearbox is suitable for 1000rpm tractors up to 180hp and is protected by a safety clutch.

Bracing struts are fitted to the hull which provide increased strength enabling the machine to be used by farmers and contractors in the most arduous conditions.

A choice of blades are available, either 25cm × 15mm for cereal seedbed preparations or 30cm × 15mm for deep rootcrop seedbed.

The HK40 is suitable for combination tillage with seed drills, and is available in 3 or 4 metre working widths.

▲ HK40/400 shown with Packer Roller.



All Power Harrows are available with a choice of rear roller. The Open Centre Crumble Roller is suitable for most normal soil conditions and assists in till preparation whilst consolidating the seedbed surface.

The Packer Roller has adjustable cleaning scrapers between the fluted discs which enables the machine to be used in soils with a high moisture content. It is equally useful in very dry conditions where the flutes further crush the clods and surface consolidation provides moisture conservation.

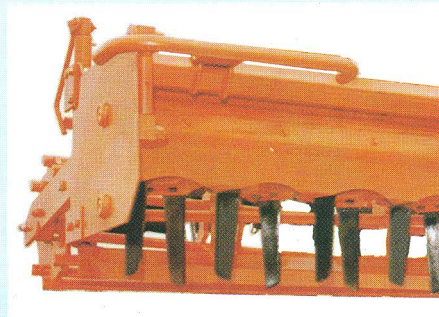
Floating side guards allow boulders and other objects to pass safely away from the cultivation chamber.



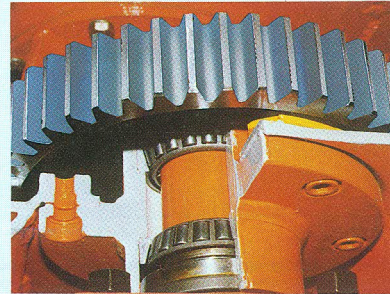
The HK Power Harrow blades are manufactured from high carbon alloy steel and are designed to efficiently cut through wet or dry soils with a minimum horsepower requirement. The design also protects the blade bolt from wear enabling easy replacement. All HK blades are protected by the Howard blade warranty.



The HK30/40 gearboxes all feature a through PTO shaft (optional on HK20) for use in powering, for example, pneumatic drills. All gearboxes offer a choice of rotor speeds to produce the optimum seedbed.



A stoneguard kit is standard on HK30 and 40 (optional, on HK20) and prevents the ingress of stones to the blade carriers, thereby protecting the transmission from shock loadings and wear. This also provides wear protection of the blade bolts and nuts allowing easy replacement.



The gear trough on all HK Power Harrows features a totally immersed gear bearing lubrication design which ensures all moving parts are continually lubricated.

The rotors are driven by heavy duty gears and tapered roller bearings are utilised on the HK30 and HK40 machines. The single housing design ensures accurate bearing alignment and increased reliability.



The hydraulic linkage system raises the drill well over the Power Harrow therefore reducing the overhang weight. This provides safer use when manoeuvring in difficult situations and allows a medium hp tractor to adequately handle the combination.



The Nordsten CLM or CLP drills are specifically designed to mount on Power Harrows and are compatible with the Howard HK series.

COMBINATION TILLAGE

The HK Power Harrows are ideal for use in combination tillage with seed drills, either pneumatic or conventional, using a choice of rear linkages.

The Combi Hitch is a full floating system designed to carry a seed only lightweight drill which is lifted simultaneously with the Power Harrow. The Hydraulic Combi Hitch allows the drill to float independently and the twin hydraulic cylinders lift the drill up and over the power harrow which is then raised in the normal manner. This system enables a medium horsepower tractor to adequately handle the combination unit.

Pneumatic drills may be fitted using the Combi Hitch or the rigid Quick Hitch 'A' frame system.



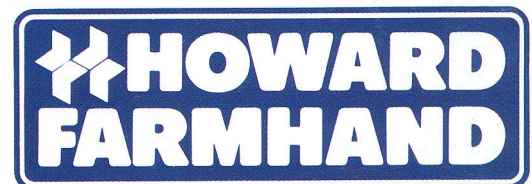
Specifications

	HK20						HK30				HK40	
	100	125	150	200	250	300	250	300	350	400	300	400
Tillage Width	1m	1.25m	1.5m	2m	2.5m	3m	2.5m	3m	3.5m	4m	3m	4m
Number of Rotors/Blades	4/8	5/10	6/12	8/16	10/20	12/24	10/20	12/24	14/28	16/32	12/24	16/32
Weight with Crumble Roller kg	410	450	520	630	790	850	895	1000	1130	1240	1190	1800
Packer Roller kg	480	520	600	750	840	950	1025	1150	1275	1410	1340	1950
Weight of hydraulic Combi Hitch kg	-	-	-	150	150	150	150		150		150	
Horsepower range	25-95						70-120		90-140		100-180	
Rotor Speeds 540rpm	280	280	280	215 + 360			N/A				N/A	
1000rpm	-	-	-	360 opt 400			270, 330, 400				260, 300, 350, 390	
Depth of Tillage standard blade	25cm						25cm				25cm	
optional blade	N/A						30cm				30cm	
Rear PTO shaft	Optional						Standard				Standard	
Depth Control	Rear Roller						Rear Roller				Rear Roller	
Mounting Category	Cat II						Cat II (Cat III optional)				Cat II or III	
Safety Clutch	Standard						Standard				Standard	
Rear levelling bar	Optional						Standard				Standard	
Stoneguard Kit	Optional						Standard				Standard	
Transport System	N/A						Optional				Optional	
Combi Hitch	Optional						Optional				Optional	
Hydraulic Combi Hitch	Optional						Optional				Optional	
Accord/Vicon Hitch	Optional						Optional				Optional	

Dealer

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Please note all machines are supplied with guards complying to current regulations.



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