

# COMB HARROW



**TIME YOUR WEEDING,**  
tine your weeds



# COMB HARROW

**A Comb harrow is indiscriminate - raking across its full working width. Two thickness's of tine 6mm or 7mm are most commonly used depending on the job the harrow is required to do.**

The Hazenbichler comb harrow has been in production and part of the mechanical weeding industry since the early 1950's. Whether you are a small intensive vegetable grower or a large hectareage cereals farmer, we can boast one of the largest ranges on the market meeting the growing demand of today's farmers and growers.

Pre-drilling and in the early growth stages of the sown crop the comb harrow can be used for mechanical weed control, reducing the dependence and costs of herbicides usage.



## ✓ USING A COMB HARROW

**The set up of the harrow is critical for good weed removal and needs to be optimised to weed growth stage and soil conditions. A number of factors should be considered:**

### ① TIMING

Comb harrowing can be split into two categories, pre and post emergence of the crop. Pre emergence can be classified as "blind combing" to rid the soil of weeds before planting or drilling. Post emergence will be determined by the type of crop and their varying early leaf stages.

Timing is crucial to take advantage of the differing growth stages of the crop and the weeds that are to be removed before the weed gets too established, multiple passes may be required at different growth stages.

### ② DIRECTION OF WORK

Weeding in line with the drill will provide the minimum level of crop damage. If multiple passes are used, a second pass at 15 – 20 degrees to the drilling may assist in removing weeds in the rows.



### ③ FORWARD SPEED

The most effective weeding action comes from the tines vibrating vigorously from side to side as the harrow moves forward and therefore the fastest practicable speed should be used. Too slow and the tines may not vibrate sufficiently.

### ④ TINE ANGLE & PRESSURE

After initial field settings of the main frame, the tine frames are set to give even pressure on all tines by adjusting wheel heights and support chain lengths.

The simple tine angle adjustments can then be tailored to suit the particular crop or ground conditions. This may vary between blind combing, weed and crop growth stage and soil moisture.

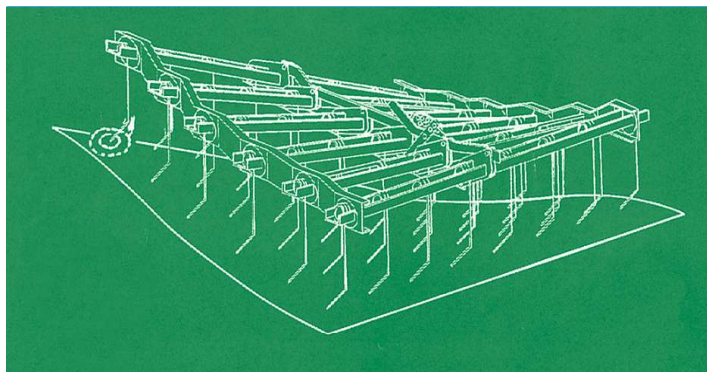


## ✓ ENGINEERED FOR RESULTS

### CONTOUR FOLLOWING

The working harrow sections are supported individually by chains to a specially formed pivoting tubular frame ensuring excellent ground contour following.

Each flexible working section of spring tines can move and twist to give unrivaled accurate ground contour following ensuring each individual tine remains in contact with the ground with optimal soil contact.



### ANGLE ADJUSTMENT

With 32 tines per meter each flexible working section is equipped with six rows of adjustable spring tines which can be adjusted and set at the required inclination. With 10 clear tine angle settings, pressure can easily be adjusted, hydraulic model gives infinite options.

### OIL HARDENED TRIPLE COIL TINES



The oil hardened sprung wire has three times the service life of normal sprung steel wire and comes with 2 year warranty.

### PROTECTED COIL

Channel mounting of the spring tine coil prevents damage to the growing tip of the crop by preventing pinching of the leaves within the coil.

Each tine is available as 6mm, 7mm or 8mm. The 6mm tine is selected for vegetables and salad crops; 7mm is usually chosen for broadacre arable crops and 8mm, which offers the most aggressive raking, tends to be used on grassland.



### RAKING ACTION

With 30mm tine spacing, the raking action and triple coil spring steel of the tines create oscillations which are necessary to cover the entire surface.

## ✓ CROP BENEFITS

Comb harrowing is very effective through cereals, OSR, beans, sugar beet as well as a host of vegetable crops. Not only providing weed control but also aerating the soil.

Aerating the soil and breaking the crust assists in water run off and the operation of an inter-row hoe. The combing action stimulates tillering in the main crop as well as releasing surface nitrogen. So, rather than damaging the crop the raking action can improve yields.

## ✓ REDUCTION IN CHEMICAL COSTS

The Comb Harrow can make a major contribution to reducing the cost running up to harvest.

It can be used in conjunction with the sprayer to significantly decrease the number of applications made using the adjustable angled tines on the harrow, allows different types of weed to be pulled or smothered.

## ✓ FOLDING

When the working width exceeds 3m all machines fold hydraulically to between 2.5m and 3m transport width depending on the model of Comb Harrow.



## ✓ OPTIONS

### MECHANICAL OR HYDRAULIC

Comb harrows can be supplied with either mechanical or hydraulic tine adjustment and to obtain best results are typically adjusted several times per day as the soil dries out or to suit different soil types.



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## COMB HARROW SPECIFICATIONS

Working Width	Weight*	Transport Height	Transport Width	HP Req	Harrow Sections	Number of Tines	Depth Wheels
<b>NON-FOLDING</b>							
1.5m	145kg	1.45m	1.5m	20	1x1.5m	48	2x (16x6.5-8)
2.0m	165kg	1.45m	2.0m	23	1x2.0m	60	2x (16x6.5-8)
3.0m	260kg	1.45m	3.0m	25	2x1.5m	96	2x (16x6.5-8)
<b>HYDRAULIC FOLDING</b>							
4.5m	390kg	2.25m	2.5m	35	3x1.5m	144	2x (16x6.5-8)
5.0m	440kg	2.25m	2.5m	40	2x1.5m + 1x2.0m	156	2x (16x6.5-8)
6.0m	520kg	2.85m	2.5m	60	3x2.0m	180	2x (16x6.5-8)
6.0m	530kg	2.85m	3.0m	60	4x1.5m	192	2x (16x6.5-8)
6.4m	550kg	2.6m	3.0m	60	2x1.5m + 2x1.7m	204	2x (16x6.5-8)
7.5m	710kg	3.15m	2.8m	65	5x1.5m	240	2x (16x6.5-8)
8.0m	740kg	3.25m	2.8m	70	4x1.5m + 1x2.0m	252	2x (16x6.5-8)
<b>SCISSOR FOLDING</b>							
9.0m	1010kg	2.75m	2.8m	85	6x1.5m	288	2x (16x6.5-8)
10.5m	1050kg	3.5m	3.0m	90	7x1.5m	336	2x (18x8.5-8) + 2x (16x6.5-8)
12.0m	1170kg	3.4m	3.0m	110	8x1.5m	384	2x (18x8.5-8) + 2x (16x6.5-8)
12.4m	1270kg	3.4m	3.0m	110	6x1.5m + 2x1.7m	396	2x (18x8.5-8) + 2x (16x6.5-8)
<b>SEMI-MOUNTED FOLDING</b>							
15m	2800kg	2.7m	2.9m	130	10x1.5m	480	2x (300/65-12) + 2x (16x6.5-8)
18m	2990kg	2.7m	2.9m	150	12x1.5m	576	2x (300/65-12) + 2x (18x6.5-8)
24m	4250kg	2.7m	2.9m	180	16x1.5m	768	2x (300/65-12) + 2x (16x6.5-8)

\*Weights with 7mm tine.

OPTIONS: 6mm, 7mm or 8mm tine, hydraulic tine angle, seeder kits, front levelling board, front mount kit, fence protectors.



OPICO have been bringing grassland Harrows, Interrow cultivators and Seeders, manufactured by Hatzenbichler in Austria, to farmers and contractors in the UK for over 25 years.



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