



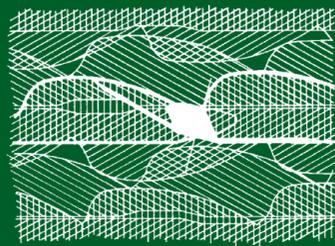
KRONOS

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The excellent mixing ability of Kronos throughout the whole stratum is based on its blade movement. Kronos covers over straw, stubble and other plants evenly so that decomposition can start immediately.

Kronos breaks even hard clods and tears the trash into pieces. It breaks and cuts the roots of weed plants efficiently, thus preventing nutrients from gathering around the weed roots. Kronos destroys weeds on the spot.



The blade movement seen from above

Each blade move the soil from side to side.



The blade movement seen from the side

Each blade make a sharp cutting action. Kronos forces its way even into a hard soil and breaks the clods, buries and chops straw and trash.



The blade movement seen from behind

Each blade penetrates, lifts and chops the material. Due to the shovelling power that draws down Kronos pushes into the ground with optimal weight.

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Linkage mounted harrows

3150, 4200, 4800

Trailed harrows

4150, 4900, 6400

www.harrows.kronos.fi



Support wheels Kronos 4900 200/60-14,5



Support wheels Kronos 6400 11,5/80-15



## The Various Applications of Rotary Harrows

At present, rotary harrows are used on many farms as all-purpose machines for a number of different soil treatment purposes. In particular, farmers concentrating on cereal crops use rotary harrows for mixing straw and other plant residues into the soil after harvesting. When applying minimum soil treatment, a rotary harrow is well suited for the preparation of seedbeds. The same applies to livestock farms, where rapid mixing of the farm manure and farm manure compost into the soil is important prior to the sowing of cereal crops or beet. This method enables more efficient utilization of the nitrogen contained in farm manure.

Rotary Harrow Applications Include:

- Minimum soil treatment
- Stubble cultivation
- Seedbed preparation
- Mixing manure and compost into the soil
- Aeration of long-duration pasture and grassland

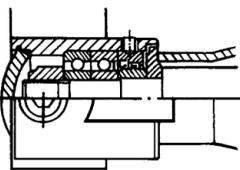
### Smooth cultivating results

The adjacent shafts always cultivate in the same

direction. Thus the harmful production of soil banks and furrows is avoided. The shafts of the Kronos are short and spring-mounted which makes them very durable.

### Excellent bearing design

The axle bearings are of excellent quality and have a very long service life. Dirt cannot get into the bearings. The possibility of clogging diminishes because the bearings are situated at the ends of the shafts and no bearing supports are needed between the blade crosses.



### Outstanding performance of mixing straw and plant remains

The long, sharp blades penetrate into the soil very well and mix the soil more thoroughly than a disc harrow. The field can be ready for seeding after one pass with a 4-shaft rotary harrow,

which means less compacting of the soil. The long-lasting blades are made of special steel. When needed, the harrow can be equipped with extra weights.

### Great performance

At the speed of 13 km/h, the approximate area covered is as follows:  
 model 3150 4.0 hectares/h  
 model 4200 5.4 hectares/h  
 model 4800 6.2 hectares/h  
 model 4150 5.4 hectares/h  
 model 4900 6.3 hectares/h  
 model 6400 8.3 hectares/h



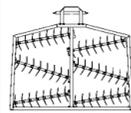
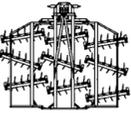
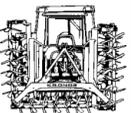
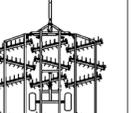
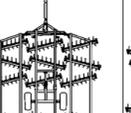
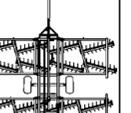
### High-speed harrowing

Under normal conditions, a rotary harrow is used at high working speed, i.e. 12-15 km/h.

### Transport- and support wheels

Trailed harrows are fitted with separate wheels for transportation into the frame construction. This enables attaching of various finger harrows, boards, rollers, etc. to the rear of the frame. The side sections of the models 4150 – 6400 can be equipped with extra support wheels. They prevent the blades from penetrating too deep into light soil when mixing the surface.



	KRONOS					
						
Technical data	3150	4200	4800	4150	4900	6400
Working width, cm	315	420	480	415	490	640
Transport width, cm	340	230	240	240	240	265
Transport height, cm		190	210	155	210	390
Transport length, cm	290	330	330	530	530	650
Number of shafts	6	9	9	12	12	16
Number of ball bearings	24	36	36	48	48	64
Number of blades	96	126	144	160	192	256
Wheels				11,5/80-15	11,5/80-15	15/55-17 *
Weight, kg	600	1200	1400	1900	2065	2900
<b>Extra equipment:</b>						
Extra weights, kg	200	225	225			
Rollers, Ø 47 cm	x			x	x	x
Support wheels				x	x	x
Power requirements kW/hp	60/80	85/115	95/130	97/135	106/145	130/180

\* or similar

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