



SOIL CULTURE



Harrowing technology
 Rotary hoe
 Interrow cultivator
 Camera steering assistant
 Subsoiler „Delta“
 Hatzenbichler Cultivator
 „Disco“
 Grassland harrow
 Hornet-Serie
 RedSeed Seeding machine
 Pneumatic seeding machines
 Multisower „Terminator“
 Air Cart Trailer



Air-Flow Original-Harrow

- ➔ The engineers at Hatzenbichler developed a system with which it is possible to continuously adjust the tine pressure at a constant tine angle.
- ➔ The spring action of the tines is provided by a pneumatic cylinder with a spring travel of only 30 mm, which enables a 45° spring path of the tines.
- ➔ The central air supply is provided by the compressed air brake system of the tractor.
- ➔ A proportional pressure regulator enables the cylinder to be pre-tensioned in the 1/10 bar range up to a maximum of 6.0 bar. In this way, the tine pressure can be infinitely adjusted from 500.00 – 5000.00 g.
- ➔ The tine angle and thus also the tine aggressiveness can be adjusted within the range of 57° – 102°.
- ➔ Since the new harrow arrays including pneumatic equipment can be mounted in the Hatzenbichler harrow frames, which have been tried and tested for decades, any working widths can be done from the ground up.



Harrowing technology...

...WITH EXPERIENCE – THE HATZENBICHLER ORIGINAL HARROW

- ➔ Activation of the natural nitrogen balance
- ➔ Interruption of the capillarity
- ➔ Fine crumbling
- ➔ Improved solar radiation into the soil
– warms up more quickly
- ➔ Improved soil aeration
- ➔ Improved soil condition

WORKING WIDTH FROM 3,00M UP TO 27,00M



SPECIALLY SHAPED TINES FOR MANY CROPS SUITABLE

Weed harrow tine 6,00, 7,00 and 8,00 mm diameter

- ➔ Optimum vibration effect through triple coiling
- ➔ Oil-tempered hardened spring wire – long working life, no breakage



HYDRAULIC TINE ADJUSTMENT



Cylinder for hydraulic tine adjustment



AREA OF APPLICATION

- Immediately before sowing, to counteract germinating weeds and break up the surface.
- With cereal crops for sowing, counteracting weeds, and aeration of the soil. Because of the system's 12 m working width, it is possible to use tramline sowing, especially for cereal and rapeseed crops.
- For maize and beet crops, the system is also used before the seeds sprout, in order to counteract weeds which have already germinated (blind harrowing).
- In addition, this procedure maintains the water balance through interrupting the capillarity up to the surface.

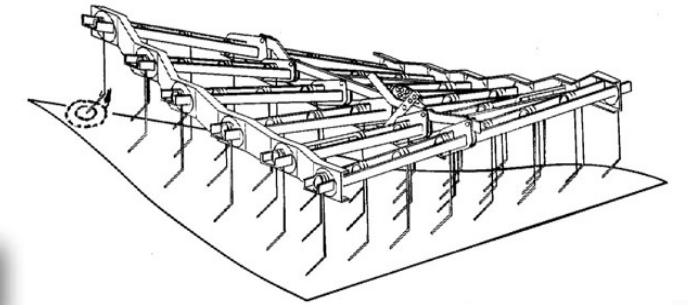
can be used:

with cereals until the crop sprouts, to scratch out weed, in maize and other crops, across the whole area until the crops have grown over. When this implement is used in a directed manner, there is a great saving in weed killers, and the soil condition is maintained. Environmentally friendly!



Protected spring coiling

- ➔ plant shoots are not clipped off and damage
- ➔ 6,00, 7,00, 8,00 mm tine diameter
- ➔ excellent adaptation to ground mainframe capable of adapting to ground with additional pressure from the pressure reservoir
- ➔ 10-hole-adjustment mechanical or hydraulically



MOVABLE HARROW SECTION

(2-disc bearing) guarantees (no reinforcement by stabilizer box) perfect contour. The individual harrow sections are suspended on chains in order to perfectly adapt to the ground conditions can.



Mechanical tine adjustment





24,00m pull type harrow



9,00m working width harrow



6,00m working width

Pull Type harrow

15 - 18 - 24 - 27 m working width



27,00m working width

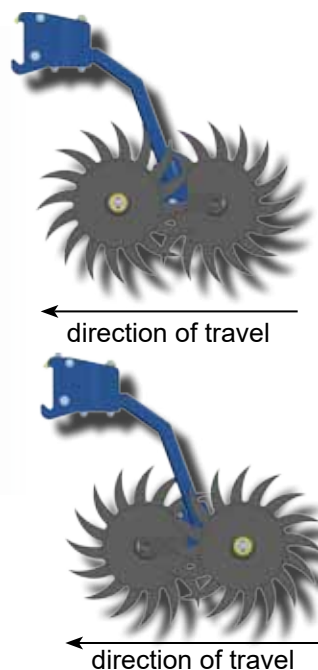
- Standard - hydraulic level adjustment with hydraulic cylinder on each harrow section for perfect ground adaption
- Large working width but low transport width of 3,00m

Rotary-Hoe

Working width 3,20m up to 12,20m

MECHANICAL WEED CONTROL AND BREAKING CRUST

- ⇒ The Rotary hoe is suitable for all soil types especially for heavily encrusted and silting soil conditions.
- ⇒ The Rotary hoe offers a whole-area working in crops such as all cereals, sunflower, corn, soy, etc.
- ⇒ By crustal refraction is the capillarity of the soil improved.



- ⇒ The stars are mounted at a distance of 12,00cm and a width of 2,00cm in each case - also adjustable.
- ⇒ The angle of attack can be used in two different Positions:
positiv for heavily encrusted soils with little stones
negativ for stony soils to example stones to push into the ground.





12,20m working width, pull type Rotary hoe



Interrow cultivator

FOR FIELD AND VEGETABLE FOR WEED CONTROL BETWEEN THE ROWS OF PLANTS



Pull type Rotary hoe, 3,00m transport width

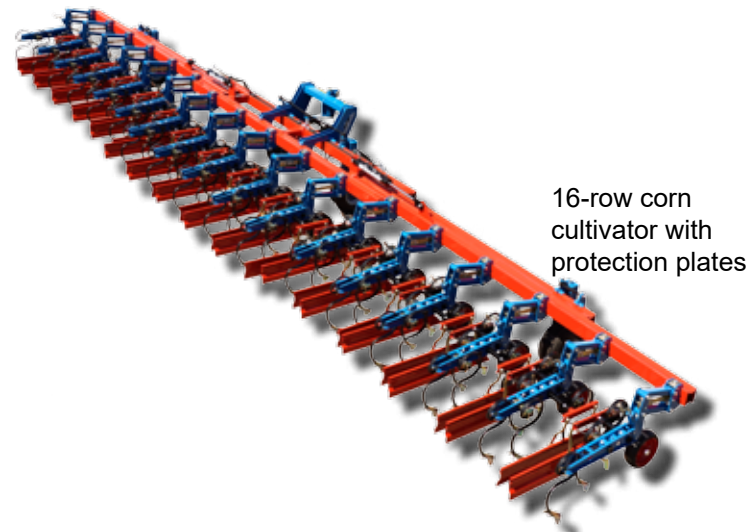
Cost-saving and effectively through targeted use of fertilizers.
The universal device for each row culture (pumpkin, corn, soy, sunflower, potato, cabbage, etc.) in row widths from 25,00cm up to 200,00 cm



4-row rollstar interrow cultivator(Potatoes)

Additional equipment: finger weeder at each interrow cultivator mountable or can be retrofitted





16-row corn
cultivator with
protection plates



12-row sugar beet interrow cultivator with protection discs



New designed 9-row interrow cultivator only
possible front mounting



12-row rollstar interrow cultivator



New designed 9-row interrow cultivator only
possible front mounting



21-row interrow cultivator, possibility front
or rear mounting



32-row interrow cultivator with
camera steering assistant



12- row sugar beet interrow cultivator



6-row interrow cultivator



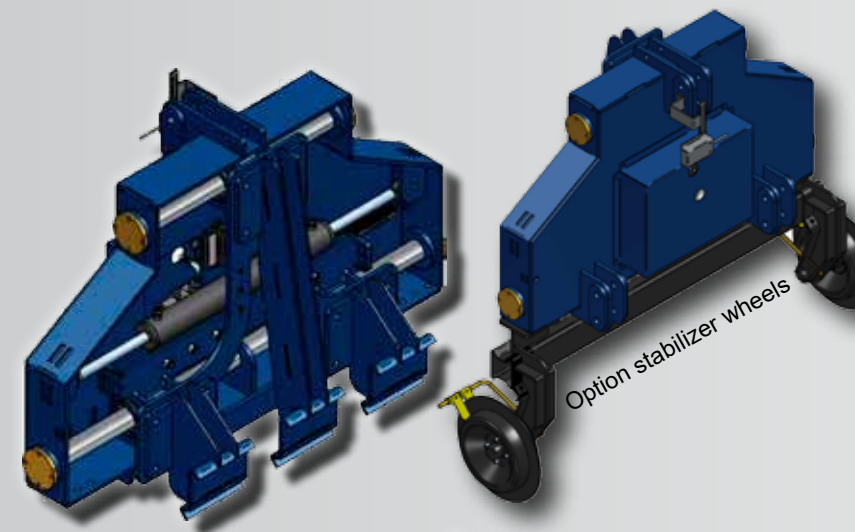
Camera steering assistant



Camera

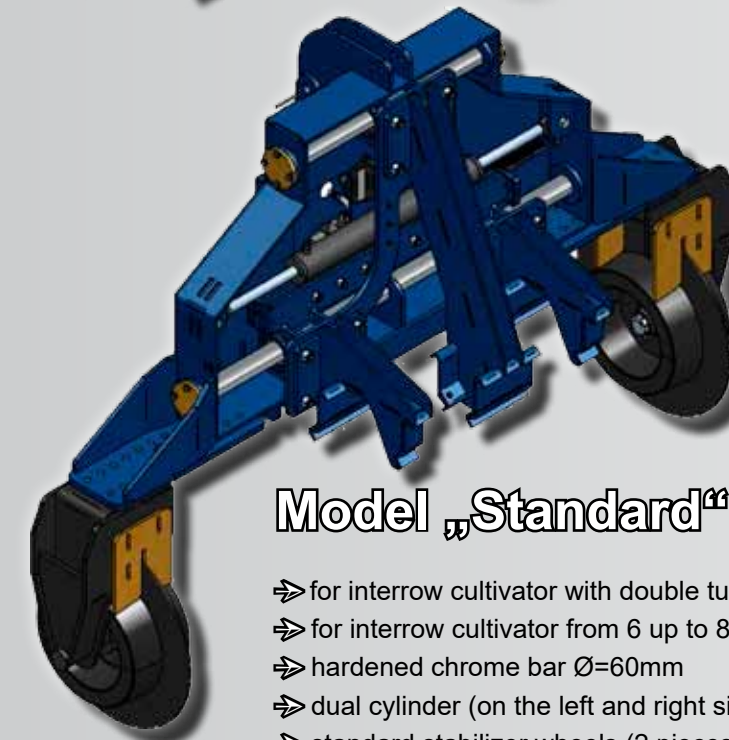


Onboard computer



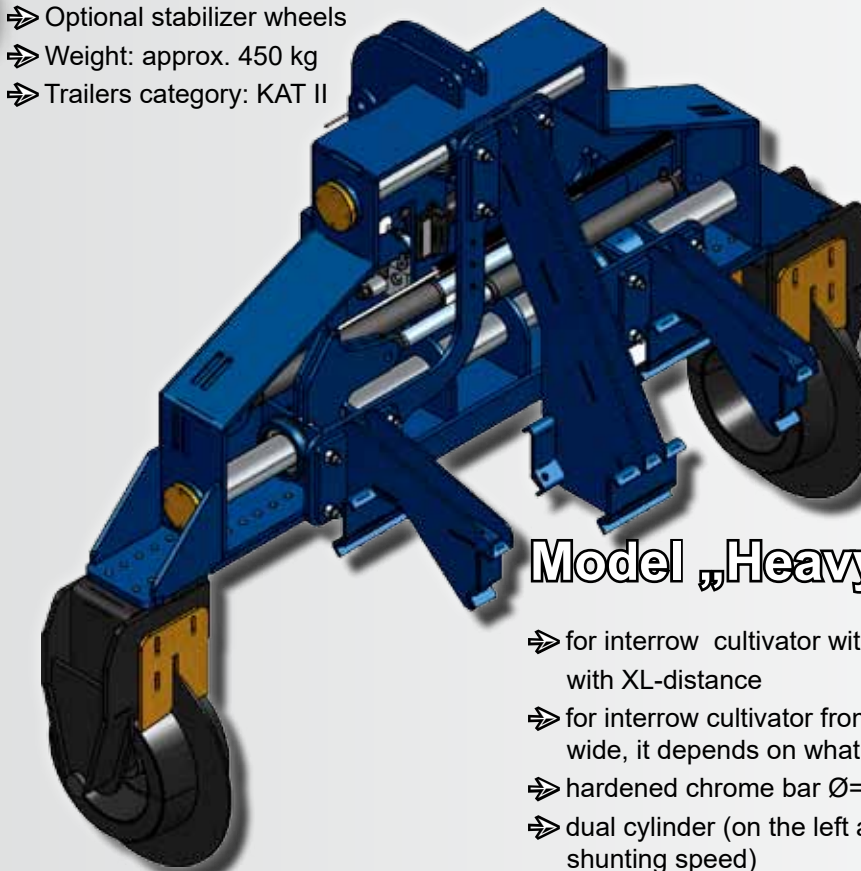
Model „Light“:

- ⇒ for interrow cultivator with simple tube frame
- ⇒ for interrow cultivator up to 6-rows
- ⇒ hardened chrome bar Ø=60mm
- ⇒ dual cylinder (on the left and right side the same shunting speed)
- ⇒ Optional stabilizer wheels
- ⇒ Weight: approx. 450 kg
- ⇒ Trailers category: KAT II



Model „Standard“:

- ⇒ for interrow cultivator with double tube frame
- ⇒ for interrow cultivator from 6 up to 8 rows
- ⇒ hardened chrome bar Ø=60mm
- ⇒ dual cylinder (on the left and right side the same shunting speed)
- ⇒ standard stabilizer wheels (2 pieces)
- ⇒ Weight: approx. 1.150 kg
- ⇒ Gauge: 1.400mm up to 2.100mm
- ⇒ Trailers category: KAT III



Model „Heavy XL“:

- ⇒ for interrow cultivator with double tube frame with XL-distance
- ⇒ for interrow cultivator from 8-rows up to 39' frame wide, it depends on what tools are used
- ⇒ hardened chrome bar Ø=80mm
- ⇒ dual cylinder (on the left and right side the same shunting speed)
- ⇒ standard stabilizer wheels (2 pieces)
- ⇒ Weight: approx. 1.300 kg
- ⇒ Gauge: 1.400mm up to 2.100mm
- ⇒ Trailers category: KAT III



Aim of the Camera steering assistant is the most cost-intensive mechanical work with root crops more **accurate, efficient and convenient**.
The Hatzenbichler Camera steering assistant is only available and retrofittable with Hatzenbichler inter row cultivators.



Interrow cultivator with single hydraulic parallelograms

Advantages:

- ⇒ The interrow cultivator becomes steering automatically
- ⇒ Higher working speed in this way higher area performance
- ⇒ Supports the driver
- ⇒ The interrow cultivator can be moved closer to the plant rows, in this way you will have a clean and exact work result



Subsoiler "Delta"



3-5-7-9 Tines

- ⇒ Easy to tow
- ⇒ Effortless
- ⇒ Deep loosening (30-60cm) and stubble (10-25) in one operation

Due to the special form of tines swords (shear pin safety $\varnothing = 25 \text{ mm}$) and the special arrangement of the delta frame (passage 80 cm) results in an excellent catchment, even at very hard and solidified soils.



„Delta“ 5-tines with intermediate tines and wedge ring roller





5,50m cultivator with rotor spring roller

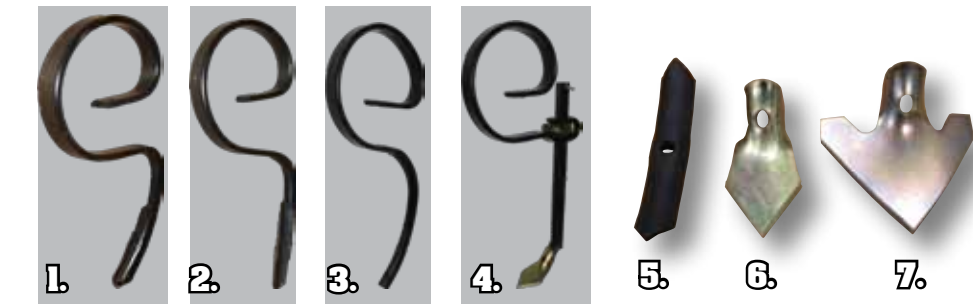


Cultivator 4,50m working width with double cage roller

- ⇒ Up to 8,00m working width with 3-point hitch
- ⇒ Depth adjustment with bolt over the rollers (roller adjustment parallelogram)
- ⇒ Standard with double cage roller
- ⇒ Optional with rotor spring roller
- ⇒ Mechanical or hydraulic rear lift-out devising
- ⇒ Spindle adjustment spring leveling plate



3,00m transport width (package folding) on each machine



1. cultivator tine H90 32x12
2. cultivator tine straight 32x12
3. heavy tine 45x12
4. height-adjustable track eradicator tine 45x12
5. small share 35mm
6. pointed share 65mm
7. duck foot share 150mm



“Disko”



Working width 3,00m up to 6,00m

- ⇒ Stable form tube base frame
- ⇒ Diagonally set, ball bearing hollow discs (Ø = 540mm)
- ⇒ Lateral boundary slices (no throwing over)
- ⇒ Simultaneous application of an intercrop into the stubble (pneumatic seeder „Air 8“)
- ⇒ Intensive mixing of crop residues with the ground
- ⇒ Short compact design with favorable center of gravity



Grassland harrow



6,00m grassland harrow with pneumatic seeding machine „Air 16“

Vertikator



New Vertikator Alpin with 3 row tines, 12,00mm tine diameter, cambridge roller and pneumatic seeding machine „Air 8“



3,00m Vertikator with 5 rows tines, 8,00mm tine diameter, farmflex roller and pneumatic seeding machine „Air 8“

For weed control, clean the grassland and new or reseed grassland in one pass.



VERTIKATOR heavy duty with heavy leveling blade, 6 rows of tines, 10,00mm tine diameter and pneumatic seeding machine „Air 8“



Hornet - Serie

ACHIEVE A HIGH WORK OUTPUT WITH LOW HORSEPOWER REQUIREMENTS AND LARGE WORKING WIDTHS

- ⇒ Low weight of the whole machine is also requires a lower horsepower requirement
- ⇒ Very strong design
- ⇒ Precise sowing by perfect depth control of the parallelograms
- ⇒ Easy setup and handling
- ⇒ Transport width 3,00m
- ⇒ Working widths 6,00m up to 12,00m

Hornet - Serie Seeding machine:

- ⇒ Use after seedbed preparation for row seeding for example soybean, weed, rapsseed etc.
- ⇒ Row distance 12,5cm
- ⇒ Double disc coulters parallelogram with tension spring pressure setting
- ⇒ Working depth approx. up to 6,00cm
- ⇒ Hydraulic niveau leveling - very good ground adaptation

Hornet s Serie Seeding machine

- ⇒ Use the Row seeding immediately after stubble
- ⇒ Row distance 15,00cm
- ⇒ Heavy seed discs parallelograms
- ⇒ Turbo cutting discs
- ⇒ Working depth approx. up to 8,00cm



Hornet 6000 with Air Cart Trailer



Hornet 6000s with Air Cart Trailer

Hornet 9000 with Air Cart Trailer 3.000 Liter



RedSeed Seeding machine

Tillage, reconsolidation and sowing in one pass

⇒ 3,00m Working width

Short cultivator

- ⇒ 3-rows with straight tines (32x12) for tillage
- ⇒ Track indicator
- ⇒ Rotor spring roller for perfect seedbed

Seed parallelograms

- ⇒ Double disc coulters parallelogram with tension spring pressure setting.
- ⇒ Row distance 12,5cm
- ⇒ Working depth approx. up to 6cm
- ⇒ Farmflex roller
- ⇒ Coulter pressure up to max. 120kg

Seeding machine

- ⇒ Pneumatic seeding machine.
- ⇒ Seed box „Big Foot“ with 800 liter volume
- ⇒ Hydraulic fan
- ⇒ Onboard computer
- ⇒ Big seed roller
- ⇒ Stair climb with a platform for comfortable filling



Pneumatic seeding machines

AR8-AR16-AR24

E-FAN - HYDRAULIC FAN - PTO FAN



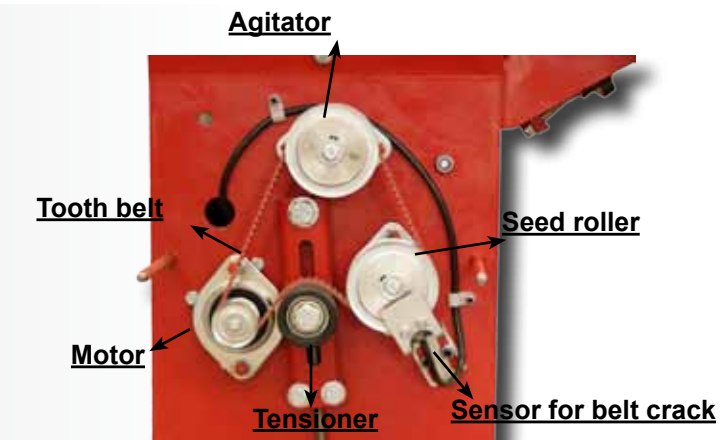
Monitoring computer standard
on „Air 8“, level, fan, drive
monitoring control



Onboard computer

Functions Hatzenbichler Onboard computer

- ⇒ seed rate (kg/ha), can be changed in % on the move
- ⇒ speed (km/h)
- ⇒ area counter (ha)
- ⇒ work time (start/stop watch)
- ⇒ hopper content display (current information on tank content)
- ⇒ battery voltage display (battery voltage of control system is measured)
- ⇒ actual seed rate (current information on kg per ha during trip)
- ⇒ rotational speed monitoring (sowing shaft – agitator shaft)
- ⇒ automatic calibration (calibration sample)
- ⇒ storage of 10 different programs (according to seed characteristics and previous calibration)
- ⇒ storage of various working widths
- ⇒ very easy operation through pictorial symbols



Seed and agitator drive



Pneumatic seeding machine „Air 8“



Seed roller with single outlets



Pneumatic seeding machine „Air 24“
Volume 800 Liter



Multisower „Terminator“



12,00m Terminator with grain seeding machine

Depending on the choice of tools, spring tines, cutting discs or tines, can be sown directly into the stubble or plowed fields either.

The multisower „Terminator“ is designed so that it has two separate applicators. For a fertilizer application before tillage tools and on the other the seed yield in the rear area of the working tools.



Equipped with cutting discs



Equipped with cultivator tines



18,00m Terminator in transport position



Equipped with cultivator tines (H90) and duck foot shares or small shares



Equipped with „Hercules“ tines and small shares

Air Cart Trailer



AIR CART TRAILER TH 1400

- ⇒ 3-compartment hopper (contents 14.000 liter volume)
- ⇒ three separate seed units systems made from stainless steel
- ⇒ possible to switch between double and triple sowing



Different seed rollers for different fertilizer and different types of seed.



AIR CART TRAILER TH 1100

- ⇒ 2-compartment hopper (contents 9.400 liter volume)
- ⇒ two separate dosing systems made from stainless steel
- ⇒ possible to switch between single and double sowing



AIR CART TRAILER TH 300

- ⇒ electric drive of the metering
- ⇒ pneumatic or hydraulic fan
- ⇒ 3.000 liter hopper volume



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