

TECHNICAL LEAFLET

BINNOVE

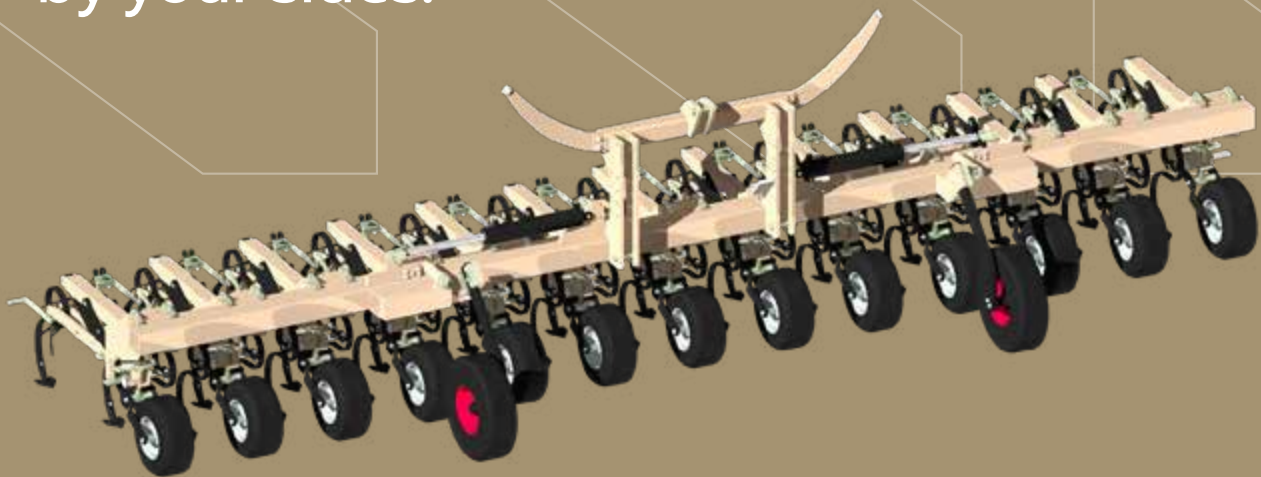
Simply efficient

French manufacturer
of innovative inter-row cultivators



www.binnove.fr

At Binnove
we believe in cooperation
and listening for a lasting commitment
by your sides.



Hoeing for all types of crops for seeding
with a 15 to 80 cm row spacing with
the same inter-row cultivator.



About Binnove

Invented and patented by a French farmer and machinist several years ago; experience in the field, simplicity and pragmatism are the key of the success of the **BINNOVE** concept.



We are working for the development and the production of our innovative line whose added value for the user can be proven. All the machines we have delivered are in operation with a minimal maintenance. Whether you use the inter-row cultivator 5 or 60 days per year, whether you have a few hectares of arable lands or several hundred, this machine needs to meet your expectation when you need it. It will become your most loyal ally. Based on this trust, on this philosophy, we believe in natural growth.

We perform ourselves the design and the assembly, all the other tasks being entrusted to loyal French suppliers before finally delivering and training you on your inter-row cultivator designed according to your specification. This gives us the possibility to keep developing. We are not resting on our laurels.

How to reduce your herbicides:

Hoeing is an ancestral agronomic practice that has been abandoned in favour of plant protection products with the evolution of agriculture. Technically and economically, we have noticed the development of resistances to some active substances, the disappearance of some herbicides and their increasingly high cost, reducing the margins.

The agronomic hoeing is back in force and remains an efficient and profitable solution to consider to efficiently manage the weeds in combination with chemical or only in a mechanical way!

The deeper agronomic hoeing has several positive impacts; it breaks the crust and warms up the soils, speeds up the mineralisation of the nitrogen, preserves the water reserve and thanks to this water that has not evaporated, the crops growth and resistance to the high temperature are improved! This is the reason why it is common to hear "One hoeing is worth two watering!".





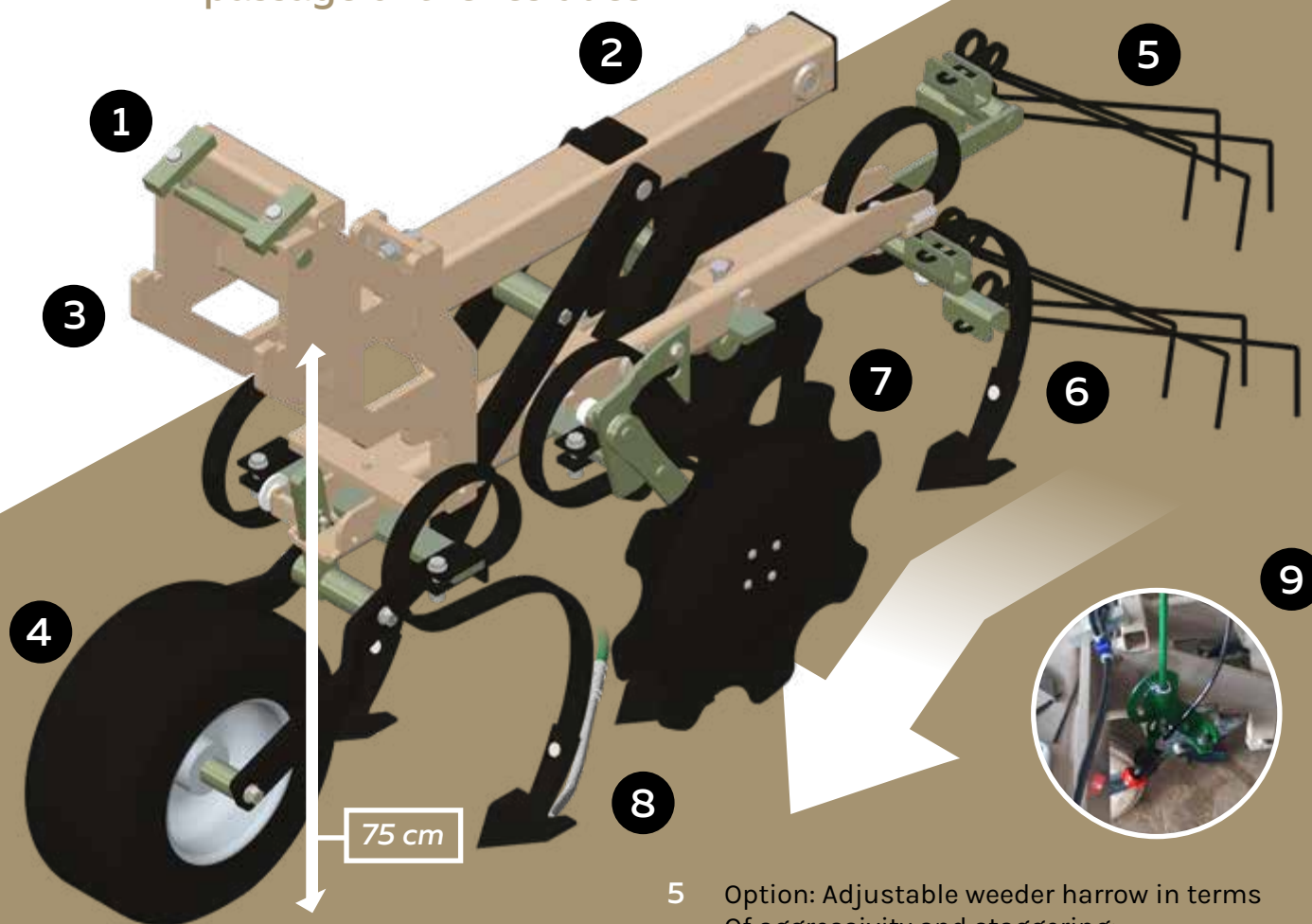
Principle of the BINNOVE patent

- ✎ The rods of each parallelogram are inverted for a natural forced depth control
- ✎ The hoeing element is in some way "forced" to penetrate the soil thanks to the unique kinematic of the BINNOVE parallelogram.



Zoom on the BINNOVE inverted *active* parallelogram

102 cm cultivation tine support frame:
Long clearance for an easy
passage of the residues



1 Continuous adjustment on the beam.
Any row spacing possible.
From 15 to 80 cm spacing.

2 NO lubrication: Polymer rings

3 75 cm of clearance under the support frame.

4 Big wheel for depth control 380 x 165 mm.

5 Option: Adjustable weeder harrow in terms
Of aggressivity and staggering:
NO jams: Possible carbide.

6 **Rapidov** topper lifter 80-120-160-180 mm
Very quick modification of the nuts and
bolts. Possible carbide.

7 Option: Plant-protecting discs mounted with
a double-row ball bearing.
Assembly/disassembly without a key.

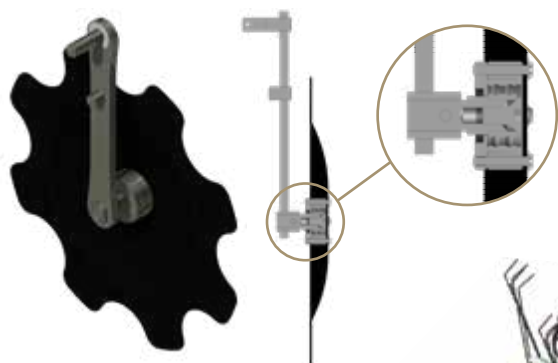
8 Option: Liquid incorporation.

9 Option: Weeding.

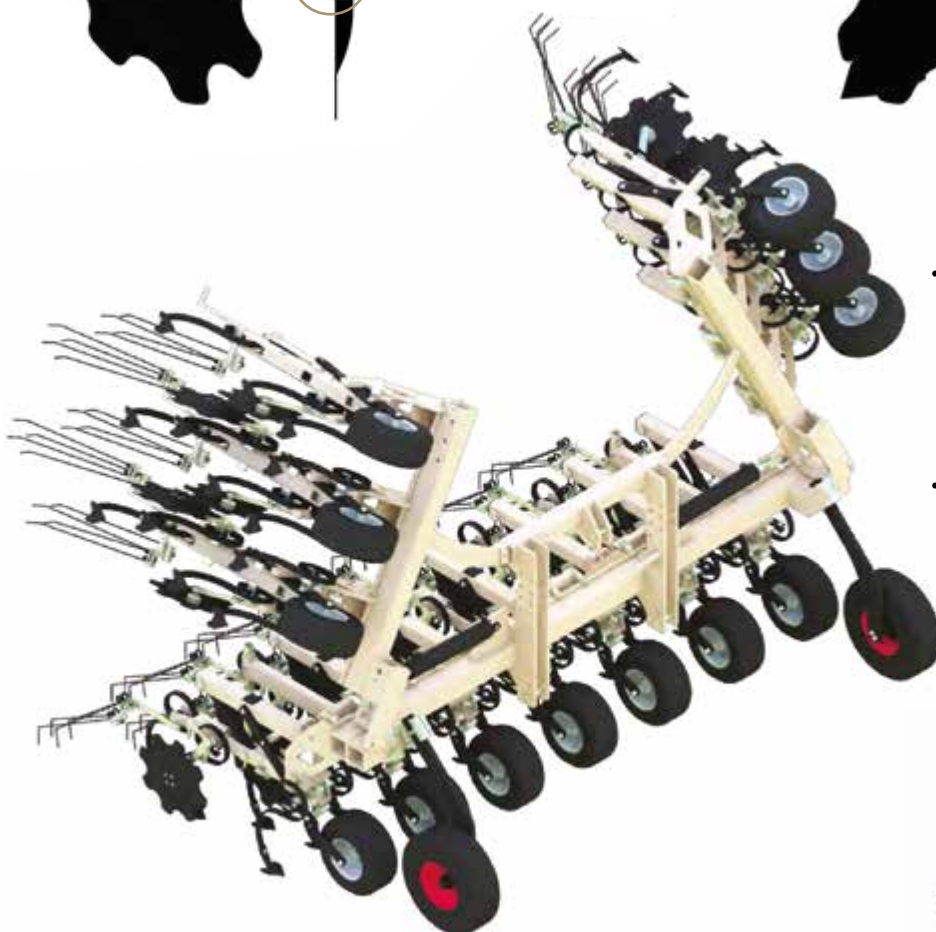
Details about the BINNOVE French manufacturing quality



Ball bearing
double-row of balls



Disk assembly/disassembly
Plant protectors WITHOUT KEY



- Sturdy and proven tube support frame of 120 x 120 x 8 mm - doubled around the rotation axes
- No lubrication required: nor the cylinder axes, neither the support frame axes



Rapidov topper lifter with quick assembly/disassembly
Possible width in mm: 80-120-160-180

Benefit of the Binnove innovative and unique principle of inverted ROD

- ✍ Unparalleled penetration capability on the market - WITHOUT hydraulic
- ✍ Formidable stability and depth control of the hoeing
- ✍ Possibility to hoe from 2 to 15 cm of depth



Tailor-made manufacturing



Tailor-made manufacturing of your scalable BINNOVE
inter-row cultivator Inter-rows from 15 to 80 cm

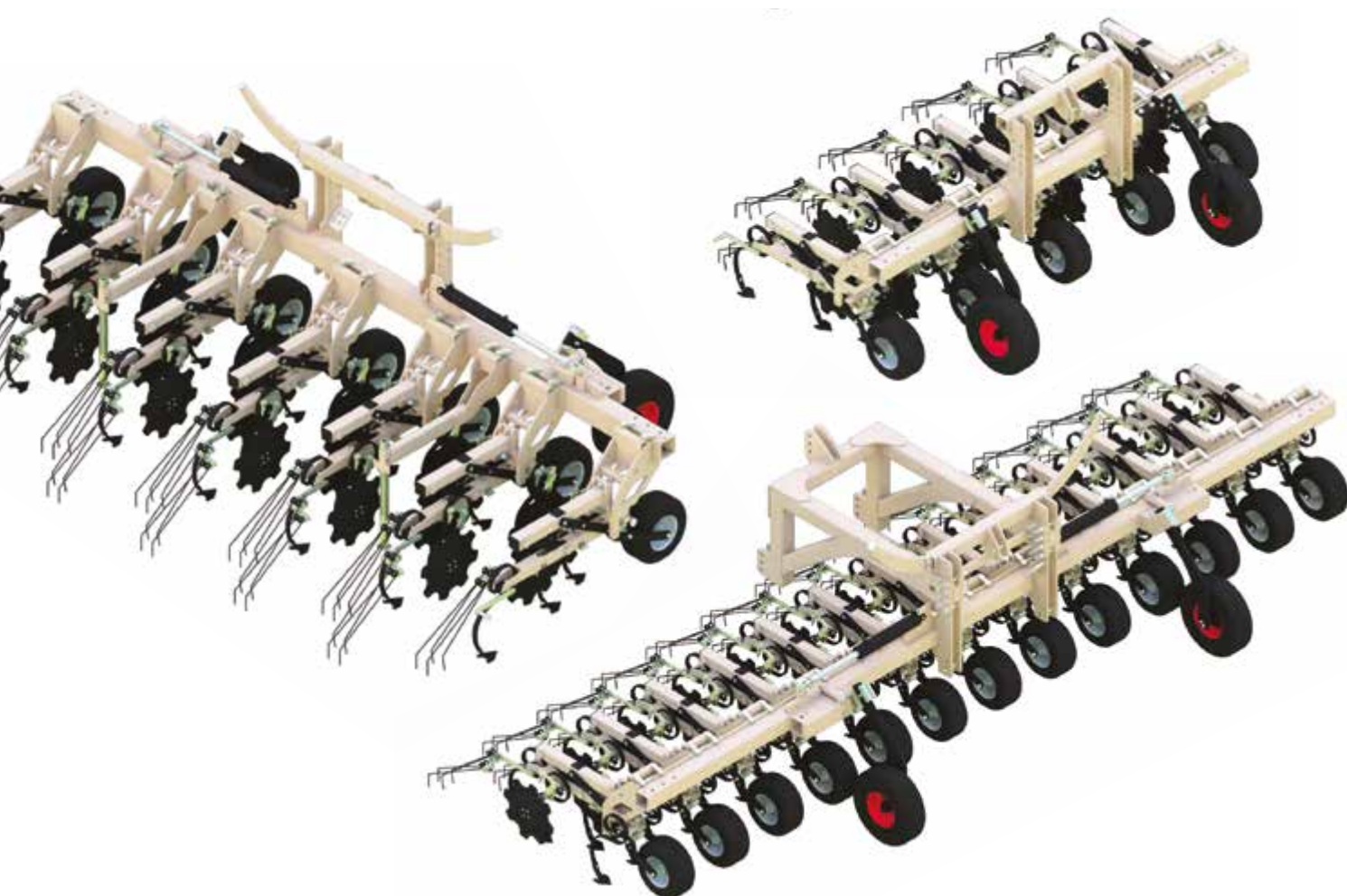
EXAMPLES:

6, 8, 12, 18 rows are 50, 75, 80 cm

7, 9, 11, 13 rows x 60 cm

24 x 25 cm etc.

Inter-row cultivator with double or triple different row spacing/back and front dual coupler



Compacted trace of a pivot in the soya bean Limestone clay soil July 2022 *Gers*

BEFORE



AFTER



BINNOVE



Autoguidance by colorimetric camera(s) or by RTK GPS



Sturdy and compact interface
of BINNOVE autoguidance

Possible recovery
of the recent lines
of tractor guidance

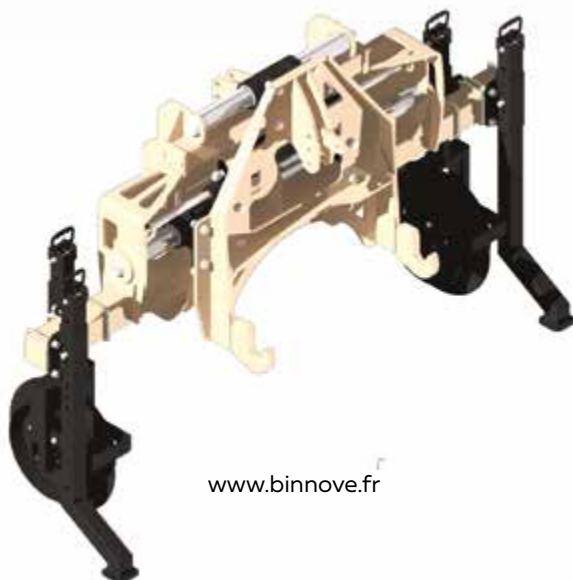
- Automatic tilting corrector in series
- Guidance accuracy: two hydraulic translation cylinders
- Pneumatic or metallic adjustable gauge wheels
540 mm with integrated seams
- 50 cm of lateral amplitude
- Cat.2 back coupler in series
- Parking stands



Description of the camera autoguidance



- One or two new generation cameras with auto focus colorimetric(s)
- Centimetre guidance accuracy
- 10-inch touch screen / assistance with remote handling
- Analysis on several lines for any types of crops from 12.5 cm of row spacing
- Simplicity of handling and intuitive settings menus
- Automatic tilting corrector in series



Description of the RTK GPS autoguidance



- Guidance of the inter-row cultivator either through the BINNOVE interface or through the BINNOVE back disk(s)
- Recovery and use of the recent lines of tractor GPS guidance by the second antenna set on the inter-row cultivator
- Repeatability, simplicity and accuracy in all circumstances, even the most difficult ones



Our core values

- A team passionate about mechanical solutions and innovative agriculture to meet the agro-ecological challenges.
- We are proud of our tailor-made manufacturing, reactivity and quality.
- Attention and respect for the final product made in France.
- A minimum of maintenance as a brand promise,

simplicity is the key.

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