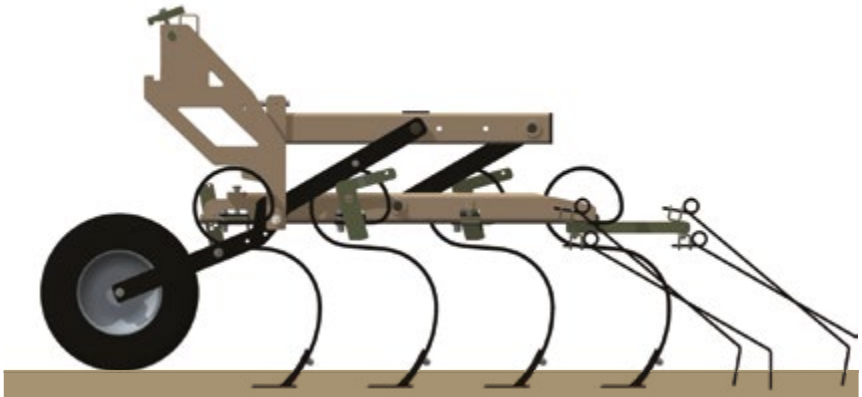
TECHNICAL BROCHURE

BINNOVE

Simply High-Performance



French manufacturer
of innovative weeding machines

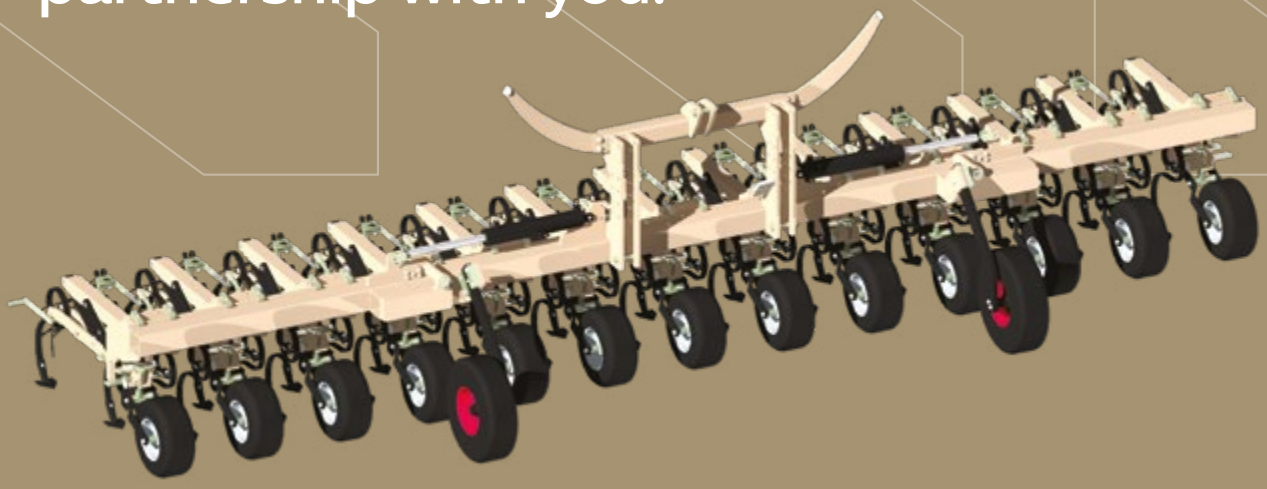
www.binnove.fr

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www.binnove.fr

At Binnove,
we believe in cooperation and active listening to ensure a lasting partnership with you.



Weeding is possible for all crops
with seed spacing ranging from 15 to 80 cm
using the same weeder.








About Binnove

Invented and patented by a French farmer and machinist many years ago; real-world experience, simplicity, and pragmatism are the keys to the success of the **BINNOVE** concept.



We are working on the development and production of our innovative product line, which offers demonstrable added value for the user. All the machines we have delivered are in operation with minimal maintenance. Whether you use the weeder 5 or 60 days a year, whether you have a few hectares of farmland or several hundred, this machine is designed to meet your expectations whenever you need it. It will become your most faithful ally. Based on this trust and this philosophy, we believe in organic growth.

We handle the design, welding, and assembly ourselves, while all other tasks are delegated to trusted local French suppliers, so that we can then deliver your hoeing machine—designed according to your specifications—and train you on its use. This allows us to continue growing. We do not rest on our laurels.

How to reduce your use of weed killers

Weeding is an age-old agricultural practice that, as agriculture has evolved, has been abandoned in favor of plant protection products. From both a technical and economic standpoint, we are seeing the development of resistance to certain active ingredients, the disappearance of certain herbicides, and their increasingly high cost, which is reducing profit margins.

Agronomic weeding is making a strong comeback and remains an effective and cost-effective solution worth considering for effectively managing weeds, whether used in combination with chemical methods or on its own!

Deeper agronomic hoeing has multiple positive effects: it breaks up the soil crust and warms the soil, accelerates nitrogen mineralization, preserves water reserves, and—thanks to this water that isn't lost to evaporation—improves crop growth and their resistance to extreme heat! That's why we so often hear the saying, "One weeding is worth two waterings!"









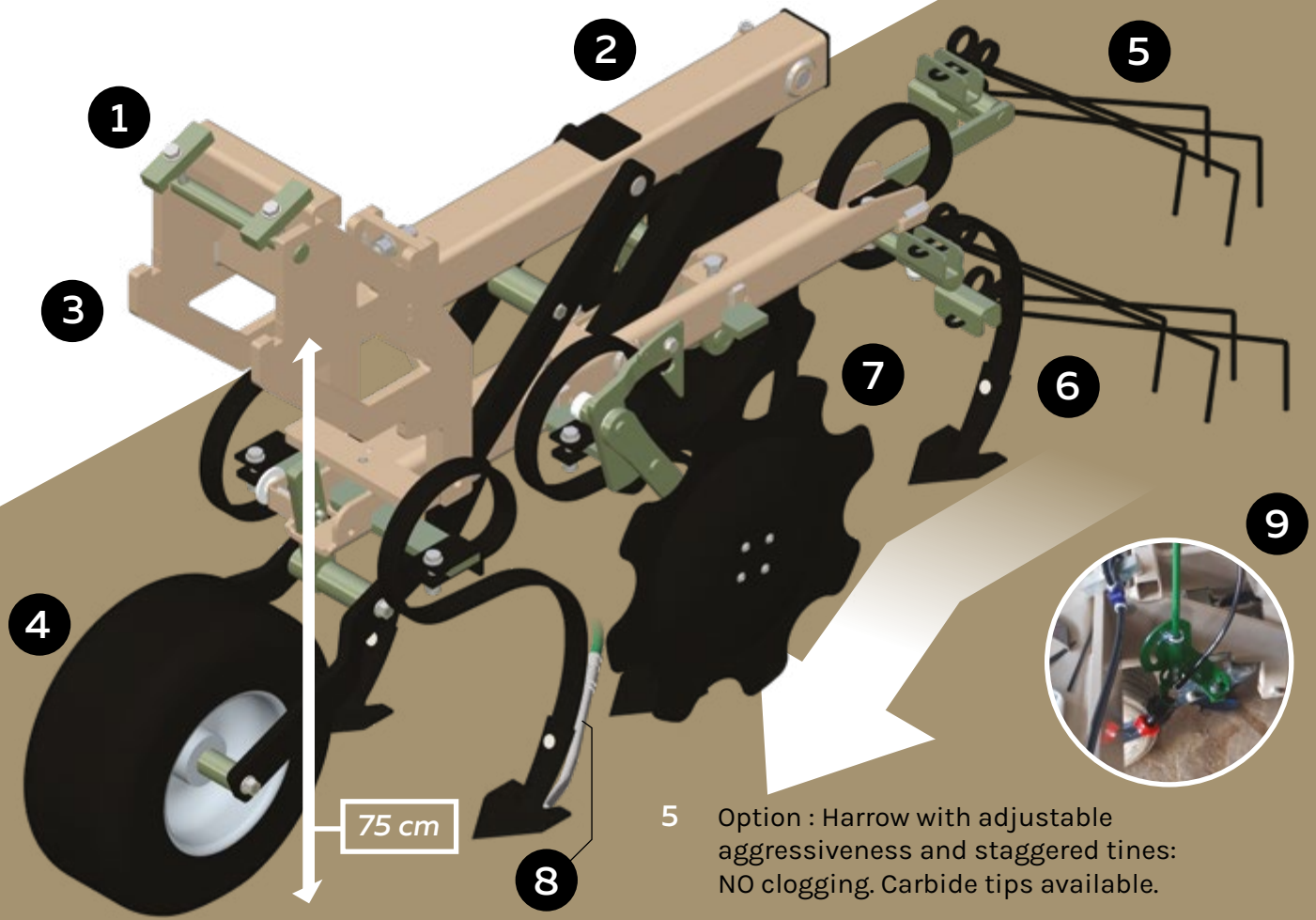
Benefits of the BINNOVE ‘Autoforce’ patent

- Unmatched penetration capability on the market :
  ➔ the harder the ground, the deeper the elements will go
- Exceptional stability with no bouncing and precise control of the hoeing depth: each depth wheel is under constant pressure.
- Capable of hoeing at depths ranging from 2 cm to 15 cm



A closer look at the 'Autoforce' parallelogram

102 cm long tooth bar : Long clearance for easy removal of debris



1 Continuously adjustable on the beam.
All spacing options available.
Spacing from 15 cm to 80 cm.

2 NO lubrication : Polymer bushings.

3 75 cm of ground clearance under the chassis.

4 Large drive wheel : 380 x 165 mm
or 300 x 100 mm or dual wheel.

5 Option : Harrow with adjustable aggressiveness and staggered tines:
NO clogging. Carbide tips available.

6 ***Rapidov*** Scalping Blades 80-120-160-180 mm
Very quick replacement using bolts.
Carbide blades available.

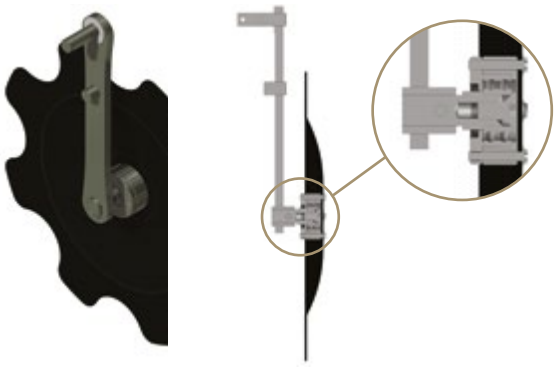
7 Option : Toe guard disc mounted with a double-row ball bearing.
Tool-free installation/removal.

8 Option : Liquid addition.

9 Option : Weed control.

Details on french manufacturing quality

Ball bearing
double-row ball bearing



Installing/removing the seedling protectors WITHOUT tools







Rapidov scalp plow blades with quick-mount/quick-dismount system

Available widths in mm :
80-120-160-180

Made in France in
the Vienne department

- Sturdy, proven frame made of 120 x 120 x 8 mm tubing-reinforced at the pivot points
- No lubrication required: neither for the cylinder pins nor the frame pins
- ***'Autoforce' inverted connecting rods*** made of solid steel
- Thermoplastic powder-coated finish
- Option : ***'FacilAjust'*** keyless lateral tine adjustment

Custom manufacturing

Custom manufacturing of your BINNOVE weeder Adjustable : row spacing from 15 cm to 80 cm

- Seeding and Fertilization Accessories
- Weeding Between Rows
- Rear Comb Harrow
- Adjustable Hilling/Furrowing Discs





XL component

The XL unit is characterized by its sturdiness and clearance for all your row crops

- Rugged, maintenance-free design
- Solid steel parallelogram links mounted on maintenance-free bushings
- No lateral play in the element over time
- Thermoplastic powder coating
- Row spacing from 45 cm to 80 cm
- Wide range of accessories and options



L component

Compact and sturdy :
versatility for beet and grain crops

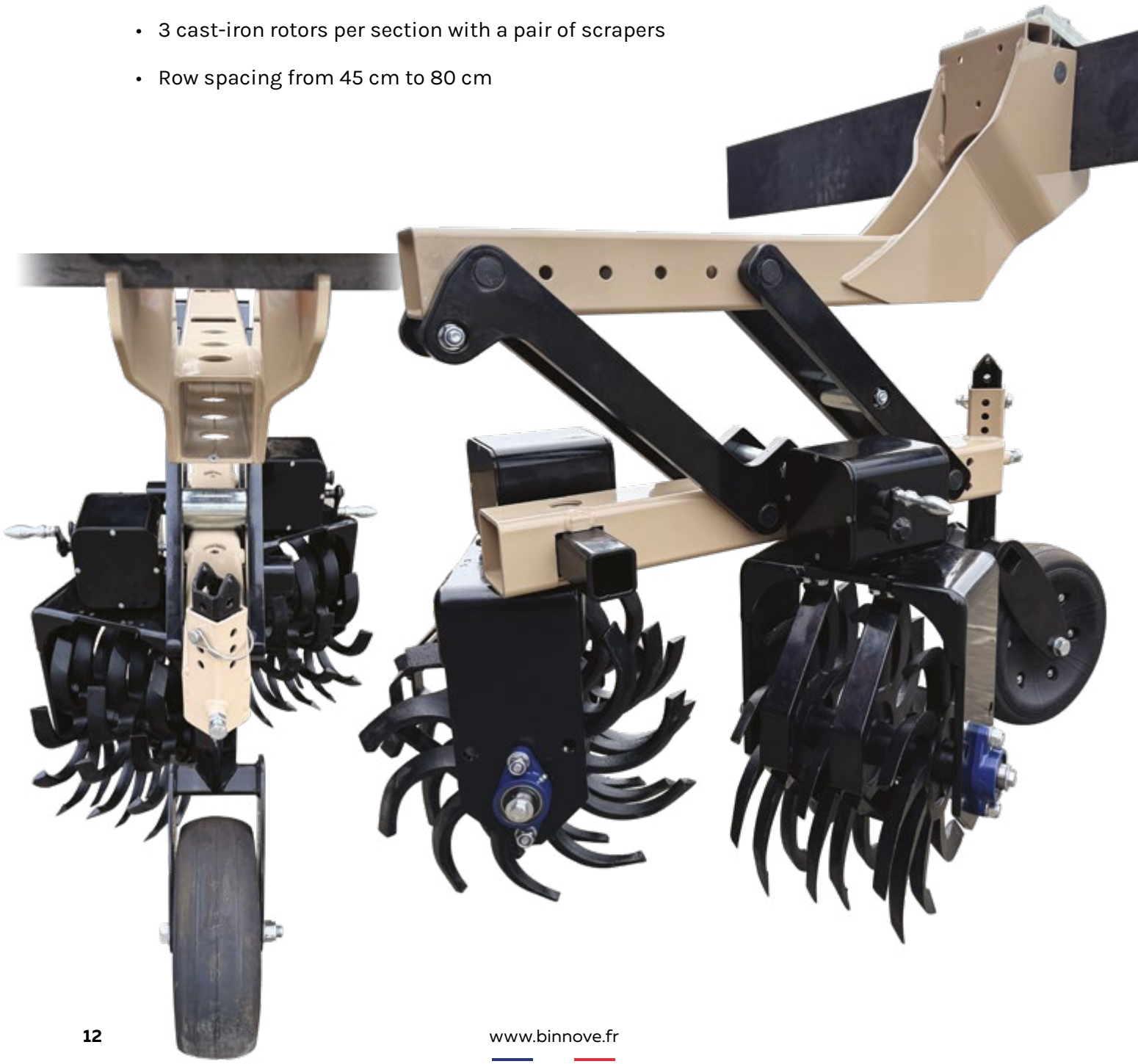
- Compact and sturdy design, based on the XL model
- Row spacing from 15 cm to 60 cm
- Wide range of accessories and options
- Section shut-off available as an option and as a retrofit



Roto component

A complementary rotating action for more effective mechanical weed control

- Two Roto assemblies adjustable for width and angle of attack to control aggressiveness
- Choice of aggressiveness adjustments: crank / bolted plates with holes
- 3 cast-iron rotors per section with a pair of scrapers
- Row spacing from 45 cm to 80 cm



SC section shut-off

Precision and reduced input use with each pass, row by row

- Hydraulic lifting and lowering of components
- Automatic ISOBUS control for up to 24 rows, or manual control
- Can be retrofitted to existing cultivators



FC cracking coulter

Soil cracking that goes deeper, even when crops are growing

- Proven yield gains combined with reduced irrigation
- Promotes water uptake and root development, according to a test report from an independent company available upon request
- Reduces soil erosion





Compacted track left by a pivot in a soybean field-clay-limestone soil

Gers

Before
Binnove weeding

After
Binnove weeding



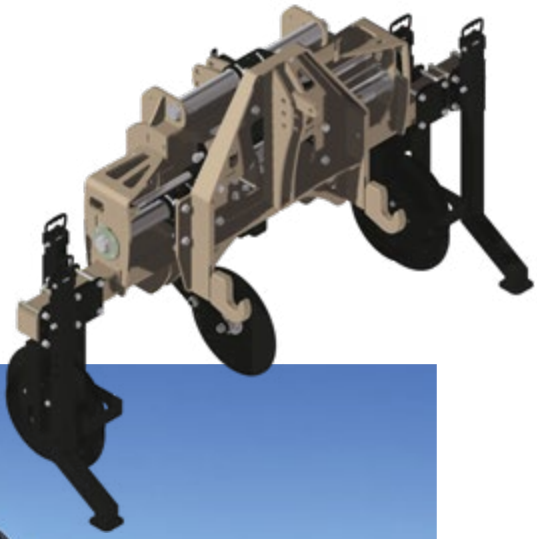



BINNOVE

Autosteering via color camera(s)

Robust and compact BINNOVE autoguiding interface

- Standard automatic slope compensation
- Guidance accuracy: two hydraulic travel cylinders
- Pneumatic or metal adjustable gauge wheels 540 mm with integrated coulters
- 50 cm lateral swing
- Standard rear hitch
- Parking stands







Camera-based autosteering

- One or two next-generation colorimetric autofocus cameras with automatic analysis priority
- Centimeter-level guidance accuracy
- 10-inch touchscreen / remote setup assistance
- Multi-row analysis of any crop with row spacing as narrow as 12.5 cm
- Easy to use with intuitive settings menus
- Automatic roll correction as standard



GPS RTK autosteering

- The hoe can be guided either via the BINNOVE interface or via the rear BINNOVE disc(s)
- The hoe receives and uses the tractor's GPS guidance lines via the second antenna mounted on the hoe
- Repeatability, simplicity, and precision under all conditions, even the most challenging ones





Our core values

- A team passionate about mechanical solutions and innovative agriculture to address agroecological challenges.
- Custom manufacturing, responsiveness, and quality are our pride and joy.
- Care and respect for the final product, made in France.
- Minimal maintenance is our brand promise.

Simplicity is the key.

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