

UNIDRILL *Tandem*



New UNIDRILL W4000.T and W6000.T

(description pg 8-9) ; these 4.00 m and 6.00 m wide drills, fold to an overall 3.00 m for transport, and enable high work rates to be achieved (60 ha a day with a 6.00 m !)



Versatility of the new UNIDRILL Tandem : **your costs/hectare reduced, your soil potential increased !**



Specialist in drilling techniques, SULKY has developed the UNIDRILL without rest since 1976. Convinced of the economic, agronomic and environmental interests of Conservation Tillage, we present today a UNIDRILL more versatile and more competitive than ever before. Here are the objectives that you will obtain with this drill :

- Drill a maximum of hectares during ideal sowing times, which are often short, an advantage linked to the UNIDRILL's capacity to maintain quality seed placement with speeds up to 15 km/h.

- Better management of production costs, and in particular drilling costs ;

- First of all by drilling up to 40% more land per season compared with a classic system (plough + drill combination) ;
- Secondly by reducing by about 40% your fuel bill.

- Improve your soil potential ; considered as the most promising way, the technique of drilling into catch crops should be adopted one step at a time, as with permanent direct drilling ; showing the importance of the UNIDRILL's versatility, even more evident on the new TANDEM drilling system.

Add to this the experienced advice from the SULKY team and you will understand that the UNIDRILL's performance/price ratio is once more increasing... as will soon your soil potential.

UNIDRILL *Tandem*

The most versatile drilling system for establishing crops

1. Perfect seed depth control

- better following of ground contours thanks to the FARMFLEX® wheels in front (Ø 500 mm, 210 mm wide),
- seed depth remains constant even on uneven ground,
- light soil consolidation improving the opening disc's work,
- rolling of trash and vegetation in the working direction (and not across the drilling),
- adapted to high speed drilling at 12-15 km/h.

There is a set of spacers on hand to adjust precisely the front wheel position (one setting for 2 rows). Thus, the depth adjustment is very accessible and very quickly done.



2. A clear-cut incision through the soil

- new Ø 450 mm notched opening discs ; they are more aggressive on dry and straw covered soils ; the original working angle ensures that only the minimum amount of soil is moved so as to delay the emergence of weeds,
- possibility of separating the disc working depth from the drilling depth, a well-known advantage on uneven land,

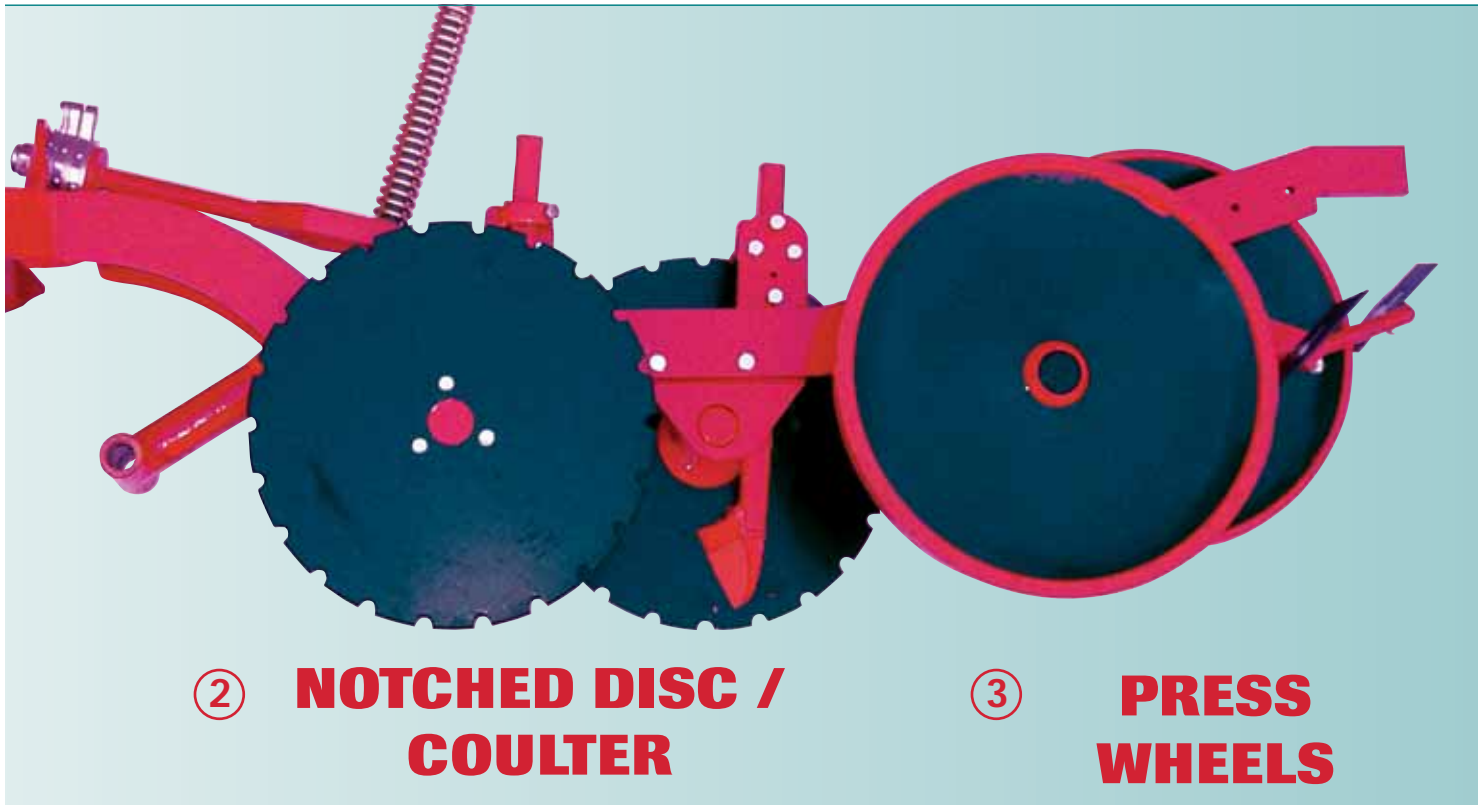


① FRONT GAUGE

- new coulters shape (with seed guide), more receding and even more carbide protection (+73%) ; associated with the drilling units mounted in pairs, it contributes to the overall stability of the drill and improved use of traction power,
- with its powerful penetration pressure that can get up to 250 kg per row, the UNIDRILL Tandem is capable of creating its own seedbed and placing the seed into viable conditions on a large range of soils : dry and hard, stony, congested with tough trash like maize grain stalks or even "directly" into the green mattress of a meadow.



Versatility of the Unidrill Tandem to drill your crops into a wide range of conditions.



3. Optimum soil/seed contact

- new chamfrained form offset press wheels ; they provide a lateral action on the side of the furrow to close it and consolidate the soil around the seed.
- new scrapers adapted to difficult drilling conditions,
- new more compact following harrow (optional),
- plastic covers on the press wheels to tackle even the most voluminous plant trash without blocking.

Exclusive : the quick reaction hydraulic weight transfer

Controlled from the cab, this central hydraulic ram enables weight to be transferred at will either to the wheels up front of the drill or the press wheels out back.

In actual fact, you have pressure modulation so as to adapt to the different conditions.



Transfer onto the front wheels in silt areas in order to "loosen" the pressure around the seed for better emergence



Transfer onto the rear, to the chamfrained press wheels, so as to improve the soil/seed contact for small seeds in dry conditions (rape) or when closing the furrow presents a problem, across headlands for example.

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UNIDRILL C3000.T : improved work rates and reduced power requirements



Drilling into catch crops (photo above), drilling into superficially prepared soils, drilling into ploughed land... :
all the different techniques are open to you with the UNIDRILL C3000.T
and an average horsepower tractor.



*Drilling, totally renewing or simply improving grassland :
livestock farmers can expect a lot of their UNIDRILL C3000.T.*

A real transport axle

To enable safe road trips and reassuring field manoeuvres, the UNIDRILL C3000.T offers :

- hydraulic brakes standard, air brakes optional,
- two large wheels (400/60-15.5 optional),
- a hydraulic system (double effect) avoiding any wheel marks on the drilled land.

In damp conditions, the transport axle leaves behind a cleaner road when going out of the field.

Precision and versatility of the SULKY peg wheel metering

- Versatile metering with a fine tooth wheel for small seeds (rape) and a large one for other seeds (cereals, peas, ...)
- New bottom flaps adjustable to seed size, with automatic wear compensation
- Precision drive through one rear-centre located sun land-wheel (DPA)
- Easy split drive shaft for half width drilling

Each metering row has a peg wheel fitted on a shaft with roller bearings, an individual open/closed shutter, a strong galvanized metal box and a seed size adjustable bottom flap.



Quick and safe rate calibration

This is carried out very easily thanks to two tipping trays fitted with emptying flaps.

From a single weighing operation :

- the SULKY setting scale enables the operator to read off the correct rate setting mark ; it eases in-field rate setting, in working conditions ;
- the ULTRON MS option ensures remote setting and rate modulation (description pg 10)

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UNIDRILL W4000.T and W6000.T : save time, even between fields



Large farms, machinery rings or farming contractors need high work rate machines. Although, these end-users still attach a lot of importance towards headland manoeuvrability and easy road transport.

A real rear axle

Available as a 4.00 or 6.00 m version, the UNIDRILL W offer :

- hydraulic brakes,
- two "large volume" wheels 550.45 x 22.5,
- their hydraulic system (double effect) avoids any wheel marks on the drilled land and protects headlands from superficial compactions, especially in erosion vulnerable areas.

The transport axle ensures, in damp conditions, a cleaner road when leaving the field.

A metering unit adapted to high rates

- With 36 rows (6.00 m) or 24 rows (4.00 m), the UNIDRILL W offer you the possibility of disconnecting a half width and of course disconnecting certain rows for tramlining (without overdosing neighbouring rows)
- **Precision** drive through one rear-centre located sun land-wheel (DPA)
- **Smooth** operation to manage all types of seed, even delicate ones at more than 15 km/h and at high rates/hectare
- **Comfort** of a hydraulically driven fan responsible for transporting the seed down to the coulters (with adjustable air rate for light seeds, like rape).
- **Quick** setting from the first weighing operation (MS function as standard, see description following page).





A "high capacity" hopper with secure access

- Increased seed autonomy : 12 hectares at 140 kg/ha
- Easier loading access
- Totally unobstructed hopper interior
- Operator security : rear steps, anti-slip platform with handrail



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Fill up with efficiency !



Comfort and high performance : SULKY's tramlining kits

MEDION kit for automatic post-emergence tramlining by stopping the relevant metering rollers ; it also enables the operator to stop the counter if he has to lift a side marker (STOP button when going round an obstacle). The control box also provides the following information : forward speed, partial area covered and total area covered.

NOTE : a simple electric control that has to be activated at the start of each tramlining pass is also available as an option on the UNIDRILL C3000.T.

ULTRON MS kit (standard on the W4000.T and W6000.T)

With a remarkable price/performance ratio, it ensures all the same functions as the MEDION unit as well as the following :

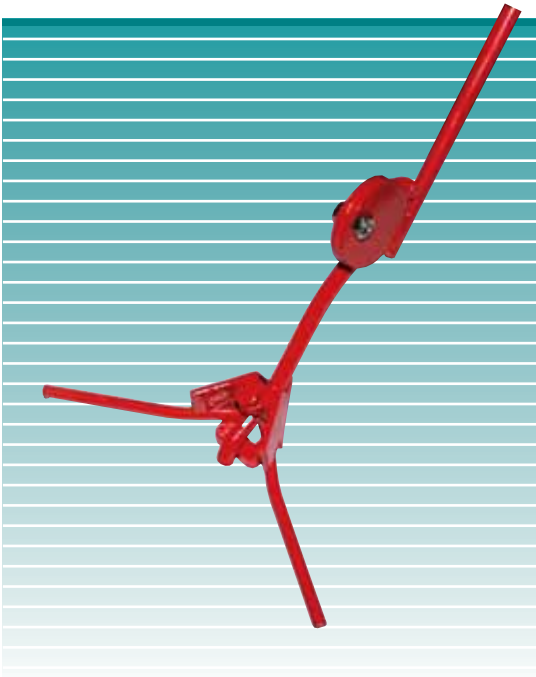
- **Rate calibration assistance** by automatically positioning the setting marker on the variator once the result (in kg) of the calibration test has been entered.
- **Warnings** (end of hopper, start of tramlining, problem with metering rotation)
- **Instant seed rate modulation** by 10 % stages (+/-)*, to increase seed rate when approaching a more difficult area or to sow a double density plot (monitoring nitrogen deficiencies on cereals)
- **On/off rate control** if necessary (to prepare the soil without drilling)
- Versatility between SULKY seed drill and fertiliser spreader (contact your dealer for more information).

* These 10% visual stages may, depending on requirements, be adjusted (5% stages, for example)



MS System :

This electric actuator is fitted to the rate variator ; it is controlled through an MS or ULTRON MS kit inside the cab ; if needed, a return to manual controls is possible by simply removing the actuator.



New levelling following harrows

Each harrow covers a 2 row drilling unit thus ensuring precise following of the ground contours. This option is also different by its smaller dimensions, which enables easy access to the rear of the drill.

New "special quick drilling" side markers

They enable "centreline" marking for precise and agreeable driving, even at high forward speeds. The disc leaves a clear mark on all types of soil preparations. Horizontally folding, within the drills width, is an added security during road transport.

Save time and link operations thanks to electro-hydraulic controls

3 "double effect" hydraulic functions are regrouped on this one lever : front/rear weight transfer modulation, raising the transport axle, changing side markers/folding the drill toolbars (W 4000.T and W 6000.T).



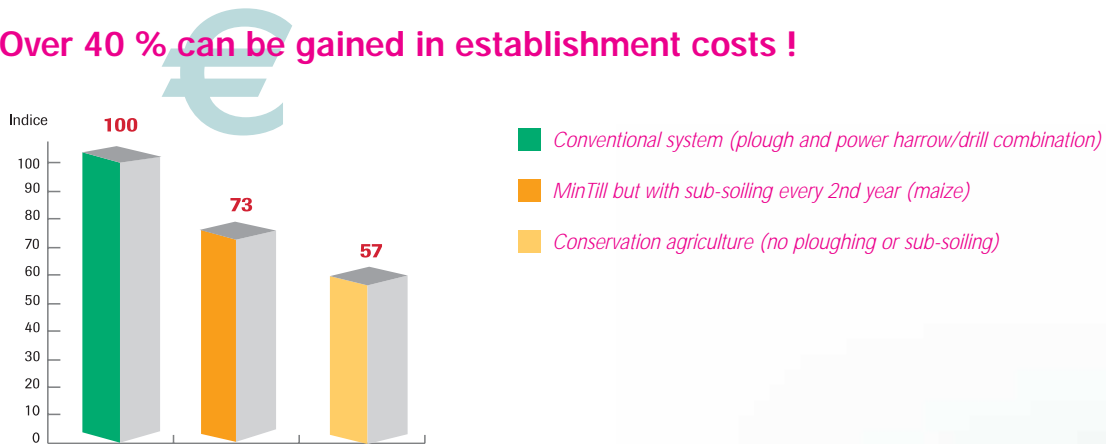
Levelling and consolidating within the tractor wheelbase

This consolidating rear roller with "high resistance" discs ensures that in the middle of the drill, there is the same seedbed quality as across the rest of the drilling width.

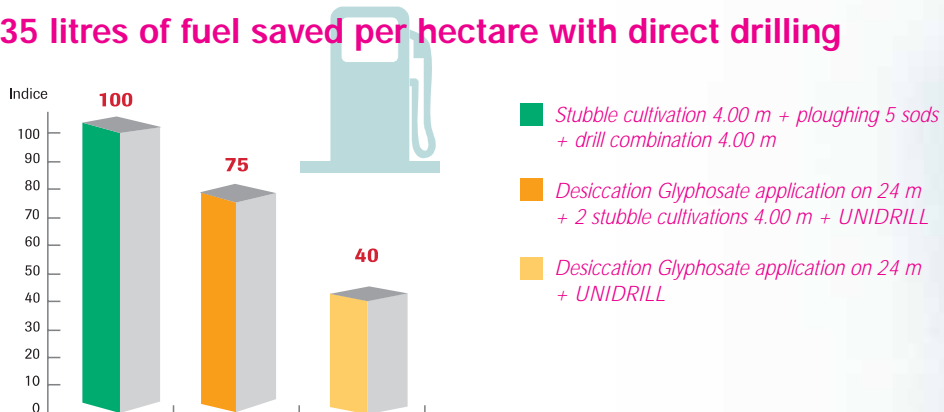
UNIDRILL *Tandem*

Undeniably an economic and agronomic asset

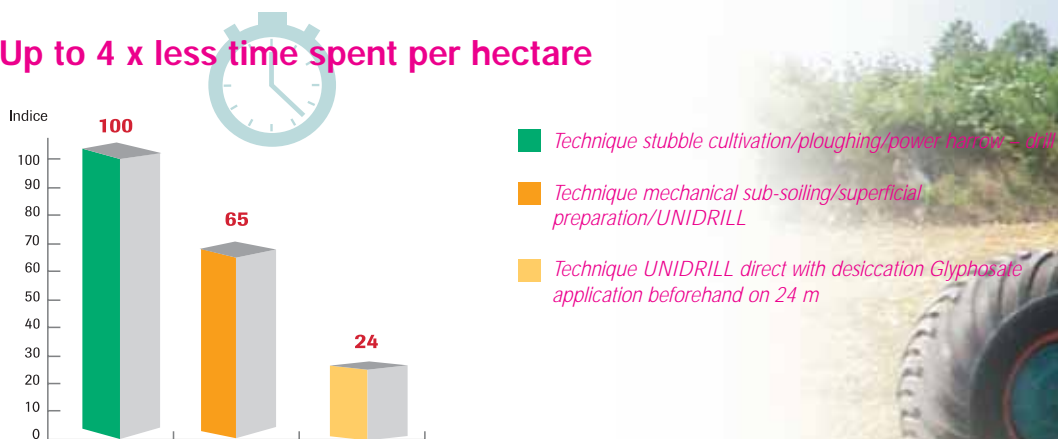
Over 40 % can be gained in establishment costs !



35 litres of fuel saved per hectare with direct drilling



Up to 4 x less time spent per hectare



Source : Supplement "Techniques without ploughing" ENTRAID' 02/2005



UNIDRILL *Tandem*

**SULKY at your side...
for 30 years now**



With almost 30 years' experience, the UNIDRILL Tandem is an asset now more than ever.



Progress as a group

A personalised set-up

In order to succeed your first steps with the UNIDRILL, our technicians are there to help your farm machinery dealer. You can therefore benefit from detailed advice : settings, tractor requirements and adaptability, electronic control box use ...



Experiment, it's also the role of the Epine testing farm, near the SULKY factory.

In field advice

From the beginning, SULKY wanted to go further than just providing a disc drill adapted to simplified and direct drilling on our European soils and under our climates. Our role is to regroup the comments and suggestions of our end-users and make their experiences available to all. This is why agronomic meetings are often organised for the benefit of UNIDRILL customers in different regions.



Know all the potential of your drill

The TCS guide : a real operators manual for "conservation" agriculture

A complete french book (88 pages) which details the different establishment techniques without ploughing and in particular direct drilling into catch crops. Order it for 10 euros by request to :
SULKY - BP 92111
35221 CHATEAUBOURG CEDEX.



Equipment (● Standard - ○ Optional - □ Specify when ordering)

UNIDRILL type	C 3000.T	W 4000.T	W 6000.T
Hydraulic brakes	●	●	●
Axle on DA rams (100/75-15.3 wheels)	●	-	-
Axle on DA rams (400/60-15.5 wheels)	○	-	-
Axle on DA rams (550.45 x 22.5 wheels)	-	●	●
Hydraulic weight transfer setting with set of spacers for depth setting	●	●	●
"Tandem" drilling unit with FARMFLEX® front wheels	●	●	●
Plastic covers on the rear press wheels	●	●	●
Seed guiding system at the coulter tip	●	●	●
Carbide drilling coulters, with quick setting	●	●	●
Notched opening discs (Ø 450)	●	●	●
"Row by row" metering	●	●	●
Rate variator, continuous setting from 1,5 to 400 kg/ha	●	●	●
Metering drive by a rear central sun landwheel (DPA)	●	●	●
Rate calibration trays and quick setting scale	●	●	●
Simple electric control	□	-	-
MEDION electronic kit	□	-	-
ULTRON MS electronic kit	□	●	●
Following harrow with levelling tines	○	○	○
"Centreline" side markers, lateral folding	○	●	●
Anti-slip platform with access steps	●	●	●
Rolling hopper cover	●	●	●
Hopper extension	○	○	-
Signalling and lighting ⁽¹⁾	○	●	●
Multifunction lever (electro-hydraulic)	○	○	○

(1) to be completed depending on local legislation

Model	Unidrill C 3000.T	W 4000.T	W 6000.T
Working width	3,00 m	4,00 m	6,00 m
Transport width	3,00 m	3,00 m	3,00 m
Hopper capacity	1 050/1 600 litres (extension)	1 600/2 200 litres (extension)	2 200 litres
Number of rows (spacing)	18 (16,6 cm)	24 (16,6 cm)	36 (16,6 cm)
Weight (indicative)	2 940 kg	4 250 kg	6 100 kg
Power requirement (from...)	90 h.p	130 h.p	160 h.p

All our departments are working towards your success.



Today, Sulky is France's leading manufacturer of seed drills and fertiliser spreaders.

As a manufacturer and provider of services, our main aim is that our machinery continues providing farmers with more productivity and quality.

Your order is tailor made to meet your requirements in terms of yields. It remains for us to ensure delivery as soon as possible, to explain to you how it works and to secure the supply of spare parts for maintaining your machines : we are ready.

Our dealers are there to help you understand the benefits of your SULKY. Our engineers will back them up with additional advice and draw up the necessary user manuals.

Customer service is our priority.

At Sulky, everything is done to accompany your success.



The seed drill and fertiliser spreader specialists



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