

Manure spreader Optium

Narrow tank

CE 90
CE 110
CE 130
CE 150
CE 170
CE 165
CE 185
CE 205

Large tank

CL 200
CL 250
CL 300



ERARD



CE 130 K - Ø 750 mm



CL 200 SL - Ø 1050 mm



CE 150 L - Ø 860 mm

PERARD's Optium manure-spreaders are designed to meet each user's needs according to the product and amount to be spread.

Machinery syndicates: choose reliable equipment.
Farmers: make a sound investment.
Contractors: offer an exemplary service.

Optium narrow-body spreader with rotors of Ø 770 and Ø 860

The OPTIUM CE range corresponds to narrow bodies and consists of **9 models** with a capacity of between **9 and 21 cu.m.** Each model has an upper tubular panel reinforcing the rigidity of the body and making it possible to integrate the hydraulic hoses and electrical cables. Its robust chassis / monoblock body is equipped with welded mudguards as standard (L range).

The Optium CE range is divided into three categories: "K", "L" and "SL".

The "K" range has a capacity of 9 to 13 cu.m with dia. **770 mm double-helix rotors.**

The "L" range has a capacity of 13 to 15 cu.m with dia. **860 mm double-helix rotors.**

The "SL" range has a capacity of 16 to 18 cu.m with dia. **1 050 mm double-helix rotors.**

The "K" and "L" range's smaller rotors make it possible to keep an exemplary standard of work while adapting the working width to the body's capacity.

Optium wide-body manure spreader

The OPTIUM CL range corresponds to wide bodies and consists of 3 models with a capacity of between 20 and 30 cu.m.

With cattle manure what's the performance like?

Ø 750 mm distribution rotors: **7 to 8 metres' working width**

Ø 860 mm distribution rotors: **14 to 15 metres' working width**

Ø 1050 mm distribution rotors: **18 to 20 metres' working width**



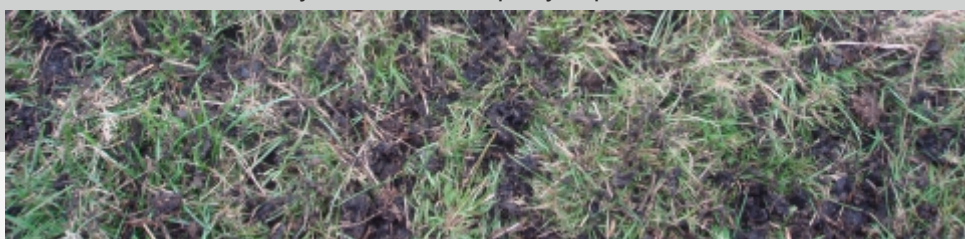
Reliability
After-Sales Service
Quality of work

The oversize tyres contribute to preserving the soil's structure while limiting the traction forces.

The low height of the new OPTIUM CE's header panel significantly facilitates loading and ensures great stability on slopes.



At **PERARD**, we treat all your needs as equally important.





Compost spreading with 1.5 t/ha

Ø 1050 mm



Every detail counts.

- One of the lowest loading heights on the market.
- Easy loading thanks to the total clearance over the length of the body.
- Automatic tensioning of the chains by spring washers and machined monobloc bearings.
- All the hydraulic lines pass inside the header panel and are protected against any risk of tearing or crushing.
- Offset greasing of the two beaters' upper bearings.
- Retractable cam safety device + free wheel and one-piece triple box as standard.
- As standard: variation of the moving floor conveyor's speed by electrical command from the cab.
- The unique gate kinematic system makes it possible to:

- ↙ regulate perfectly the arrival of the matter at the beaters (without causing any vertical jamming)
- ↙ reduce the machine's height when passing under obstacles
- ↙ control perfectly the amount spread per hectare with a narrow opening.



“Manure is an organic substance used as fertilizer. Manure contributes to enriching the soil by adding organic matter and nutrients, such as nitrogen.” This notion of using manure as an enrichment today provides an amazing economic opportunity. In the past, stockbreeders had to get rid of their manure, today they must make the most of it by using a controlled amount per hectare and, above all, ensure optimum spreading quality.



The best distributio



on rotor in the world



Because a picture speaks more than a thousand words

Unrivalled for all types of manure, the Optium spreaders' beaters offer an exceptional quality of work whatever the application sector: on stubble, meadows and even directly on cereals in the tillering phase.

...and our table is ta

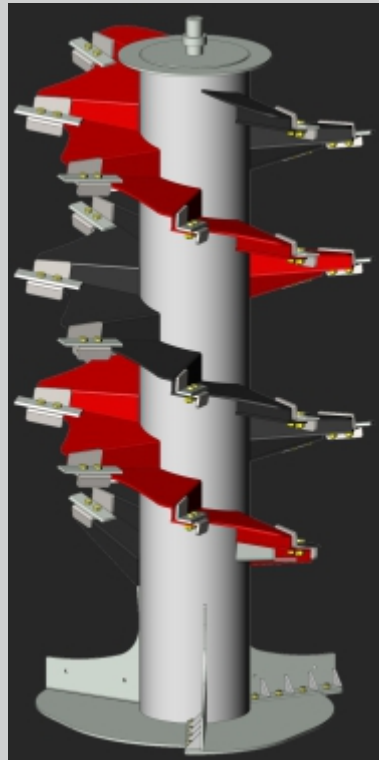


making the same path



Focus on Optium technology.

- The double-helix technology used throughout the range gives OPTIUM:
- unrivalled spreading quality
 - regular transversal projection, thanks to the staged knife-carrier
 - regular crumbling with a spacing of just 25 mm between each knife
 - natural balancing with the knife-carriers mounted in opposition
 - longer service life thanks to the ejection blades
 - possibility of applying very small amounts, of the order of 3 t/ha
 - HLE steel design
 - high rotation speed thanks to its self-balancing system.



Ø 1050 mm



Series electric control unit: **Bucher box**

SAFETY

Automatic clearing: Two sensors placed on the primary and secondary shafts of the beater transmission are used to check for any slippage caused by an obstacle. In the event of slippage, the SC400 control unit stops the conveyor for 5 seconds to decompress the beaters and avoid damaging the spreading system.

REGULATION

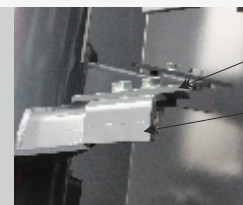
A sensor determines the conveyor advance speed, and coupled with a wheel speed sensor, it makes it possible to **regulate the output according to the forward speed** (wheel DPA option - Output Proportional to Advance).

INFORMATION

With its colour screen, the optional **SC400** control unit enables real-time display of all the information concerning the spreader, such as gate height and conveyor speed, together with the quantity remaining in the tank, automatic correction (continuous dynamic weighing), and automatic finishing of the spreading sequence with gate closing and conveyor acceleration.

	Optium CE 90-K	Optium CE 110-K	Optium CE 130-K	Optium CE 130-L	Optium CE 150-L	Optium CE 170-L	Optium CE 165-SLC	Optium CE 185-SLC
Capacity	9,00 m ³	11,00 m ³	13,00 m ³	13,00 m ³	15,00 m ³	17,00 m ³	17,00 m ³	19,00 m ³
Length inside	4,75 m	4,75 m	4,75 m	4,80 m	5,40 m	5,40 m	5,20 m	5,90 m
Height of sides	0,85 m	1,22 m	1,38 m	1,20 m	1,20 m	1,20 + 0,20 m	1,40 m	1,40 m
Laden weight (25 km/h)	11,60 t	12,40 t	15,00 t	15,00 t	16,00t	16,00t	16,00 t	16,00 t
Ø chains	2 x 14 mm	2 x 14 mm	2 x 14 mm	2 x 14 mm	2 x 14 mm	2 x 16 mm	2 x 16 mm	2 x 16 mm
Ø shaft of conveyor	50 mm	50 mm	50 mm	50 mm	50 mm	50 mm	60 mm	60 mm
Rotors double coils	Ø 750	Ø 750	Ø 750	Ø 860	Ø 860	Ø 860	Ø 1 050	Ø 1 050
Electric variation of the carpet	○	○	○	●	●	●	●	●
Hydraulic tension of the carpet	-	-	-	○	○	○	○	○
Loading height*	1,85 m	2,22 m	2,38 m	2,45 m	2,45 m	2,65 m	2,80 m	2,80 m
Axles	square of 90	square of 90	square of 100	square of 100	square of 110	square of 150	square of 150	square of 150
Standard tyre	18,4 x30	18,4 x34	18,4 x34	23,1 R26	650/75 R32	650/75 R32	650/75 R32	650/75 R32
Flat chain	○	○	○	○	○	○	○	○
Sc400	-	-	-	○	○	○	○	○

● Serie - ○ Option - CE: narrow tank - CL: large tank - * with the original tyre



Knife

Ejection blade

Impressive,
to say the least.

Precision, quality:
truly an example.



- As an option, the spreaders can be fitted with a weighing system making it possible to define the density of product you want to spread. The amount spread is perfectly controlled.
- For optimum spreading precision, the SPREAD CONTROL box allows you to programme **11 different products** (11 densities), integrated in an onboard DPAE (Output Proportional to Advance Electronic Control).
- Hydraulic tensioner, with automatic tensioning sequence when the conveyor is started up (option).
- On all the Ø 1 050mm distribution rotor frames, the possibility of fitting a spreading table makes it possible to spread difficult products, with a very low dose/ha.



Rotors covering for dry compost

Optium CE 205-SLC	Optium CL 200	Optium CL 250	Optium CL 300
21,00 m ³	20,00 m ³	25,00 m ³	30,00 m ³
6,50 m	5,95 m	7,45 m	9,00 m
1,40 m	1,43 m	1,43 m	1,43 m
21,00 t	24,00 t	29,00 t	32,00t
2 x 16 mm	4 x 14 mm	4 x 14 mm	4 x 14 mm
60 mm	60 mm	60 mm	60 mm
Ø 1 050	Ø 1 050	Ø 1 050	Ø 1 050
●	●	●	●
○	○	○	○
3,00 m	3,05 m	3,05 m	3,05 m
Tandem 100	Tandem fix 110	Tandem follow 140	Tridem follow 140
600/55 x26.5	600/55 x26.5	600/55 x26.5	550/60 x22.5
○	○	○	○
○	○	○	○



Spread with quality, manure represents
a real saving and provides a natural
fertilizer that will ensure your success.



Option flat chain : very little
wear, no need to tighten the
belt.





The special feature of the **PERARD** spreading table is its beater distribution rotors. The first function is to de-compact and break up the material. This gives a continuous, regular downstream output, received by the discharge trays which then discharge the material over the working width. The distribution rotor is made up of flanges whose angle with respect to the rotation axis creates a sweeping action making it possible to de-compact the material without any propulsion. This avoids the lump-formation phenomenon (very bad for spreading regularity) and creates a constant flow which is directed to the discharge disks.

Rotors are operate with gear box. Conception and gear box power increase lifetime with a limited maintenance.

Disc of the universal spreader is removable to use the machine to compost.

The rear hood is mounted on hydraulic cylinders facilitating maintenance work on the rotors. Easy acces for wearing parts for an easy maintenance.

Coupled with the spreading table, the conveyor with closely distributed crossbars, and the regulation tailgate, ensure a wave-free arrival of the material on the disks, even with very low amounts per hectare.

A user's opinion : GAEC MOULINOT

"This spreader performs well, both on the road and in the field, and is easy to get the hang of once it has been put into service by Perard. We were surprised by the quality and regularity of spreading, whether for compost or for sugar beet lime. There were few large lumps of unbroken material, not to say none. And anticipating the arrival of new laws or regulations in the future, we needed a really precise machine. The work output is appreciable, as is the result when using our tractor's GPS."

Spreading Table



The ingenious design of the **FERARD** spreading table allows the conveyor to place the product to be spread at the centre of the disks, **like a fertilizer spreader**. This gives a very great working width.

The **FERARD** table can be fitted on the narrow-body models starting from the 165 SLC and on all the wide-body models.

The wear parts on the disks and on the table enable more intensive utilisation while keeping an exemplary working standard.

The optional rear deflector flap makes it possible to spread around the edges of fields very easily.

Technical characteristics:

The rotors:

- + 5 blades per flange
- + 10 flanges per distribution rotor
- + distribution rotor length 1960 mm (working)

The disks:

- + tray diameter: 1 200 mm
- + tray centre distance: 1100 mm
- + 4 paddles per tray
- + rotation speed: 480 rpm



Dust- and spatter-proof control unit



The new **SC400[®]** electronic control unit (2014 "sommet d'or" award) is designed for use by professional spreading specialists seeking to provide top-class services.

Strengths:

- 100% Pérard design
- Dust- and spatter-proof control unit
- Real-time information: conveyor speed, gate height, meters, etc.
- **Dynamic weighing**
- Spreading system preload function
- Stress sensors on the conveyor tensioners to stop conveyor movement under excessive stress levels
- Detection of end of spreading sequence with gradual closing of the gate
- Automatic beater clearing (2009 "sommet d'or" award)
- Transfer to USB sticks or connection to a printer.

The spreading quality provided by the double helix beaters is now well established: extreme fineness, and considerable working width. Their transverse spread is exceptional. The new Pérard control unit now adds full command of longitudinal spread for our equipment. Linked to the Pérard control unit, the double helix beaters (or spreading table) provide high-precision spreading of manure or compost. The control interface has been designed to ensure intuitive use.

When the start button is pressed, the beaters are preloaded and the system is set to standby mode to enable spreading as soon as the equipment starts moving.

The patented automatic end-of-spreading system saves lots of time by closing the gate automatically at the end of each spreading sequence. The conveyor is also accelerated by the unit to maintain the planned quantities per hectare.



03/13 - DC 12k UK - Non-contractual photographs and data
 Caution: the various options may reduce the volume and load capacity. This brochure has been printed for worldwide distribution.
 The availability of the various options or speeds indicated in the photographs may vary from one country to another.

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