



**GILBERT**

**MUCK SPREADERS**



## THE SPECIALIST MANUFACTURER IN TRANSPORT AND SPREADING SOLUTIONS

Founded in 1950, GiLiBERT is one of the major manufacturer of agricultural machinery in France. Thanks to its high commitment to quality and its pioneering spirit, GiLiBERT is known as a manufacturer of high quality agricultural and construction trailers, hooklift trailers as well as forage trailers.

Numerous years of experience and constant development and improvement led to a sophisticated range of narrow body spreaders from 4 to 21 m<sup>3</sup>.

### EXPERTISE FOR QUALITY SPREADERS

GiLiBERT does not rely only on its own experience but is constantly taking into account its customers' opinion in order to offer efficient solutions. The range is composed of frames with vertical or horizontal beaters including a wide range of options such as control boxes, electronic flowmeter control, weigh cells, Isobus connection...

GiLiBERT is able to fit any requirement even for specialized applications such as arboriculture with its successful product lines HELIX and HERAX.

The trend towards a responsible and precision agriculture leads each user of muck spreaders to spread more accurately the organic fertilizers coming from their farm. The spreading of solid organic products is not only attractive for economic reasons but is also environment friendly as it reduces the application of mineral fertilizers.

### KNOW-HOW

The GiLiBERT sales team is permanently in touch with both the users and the R&D department. That is why GiLiBERT is able to offer a solution for the most demanding farmers and contractors.

# SUMMARY



## 01. HELIX RANGE

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**Narrow body spreader**  
From 4 to 12 m<sup>3</sup>

**04**

**Technical data**

**10**

## 02. HERAX RANGE

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**Narrow body spreader**  
From 10 to 21 m<sup>3</sup>

**06**

**Technical data**

**11**

# HELIX SPREADERS



The HELIX range has been designed for small and medium sized farms and is especially useful for customers spreading on hilly fields or in mountainous regions. With 8 models from 4 to 12m<sup>3</sup> capacity, this range is ideal for a multipurpose use. The GiLiBERT spreaders have been specifically conceived in order to obtain the most precise and even spreading patterns, whatever the solid material to be spread.

## BODY

The Monobloc body structure with integrated chassis guarantees a very low center of gravity. The height as well as the empty weight of the body has been optimized to give a very compact body. The conical design of the spreader facilitates a clean and quick discharge, even with sticky materials like farm yard manure.

An inspection hood at the front of the spreader makes maintenance easier for the user as he can reach the main components of the spreader such as the main drive shaft, the front rolls scraper and the chain tensioners. It also protects perfectly the hydraulic components such as the hydraulic drive unit and the hydraulic distribution.

In order to optimize the volume of product to be loaded, side extensions made of steel or wood can be added to the body.

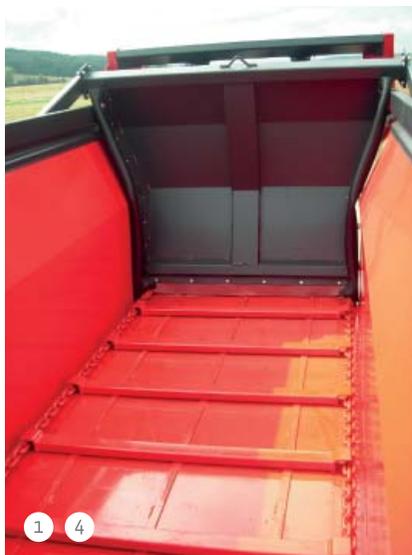
## FLOOR AND CHAINS

The HELIX range is equipped with marine chain conveyors (Ø 12 and 14 mm). The tubes are placed on a flat iron support which preserves the floor and simplifies the starting of the conveyor. The towing effort and the chain wear are minimized. The tubes are impenetrable in order to allow an easy cleaning.

## STANDARD FEATURES:

- ① Conical body with integrated chassis
- ② Adjustable drawbar
- ③ Hydraulic brakes and parking brake
- ④ Floor with marine chain (Ø 12 and 14 mm)
- ⑤ ROTOMAX Beaters (Ø 760 mm diameter)
- ⑥ Reversible blades on beaters
- ⑦ Protected top bearings of beaters
- ⑧ Centralized greasing of the bearings
- ⑨ Front protection
- ⑩ Semi-automatic tension of the floor
- ⑪ Ladder on the front left hand side
- ⑫ LED Lights
- ⑬ Polyurethane painting
- ⑭ Transmission shaft underneath the axle
- ⑮ Front rolls scraper





## ROTOMAX BEATERS

The 3 vertical “half-moon” blades situated at the bottom of the Rotomax beaters are positioned as close as possible to the floor: this construction guarantees an even spreading and limits the risk of product compaction. The number of blades and the crossing of the beaters contribute to an optimized pressure during spreading and guarantee a constant output.

The blades at the bottom of the beaters are articulated and retractable in order to protect the transmission shaft in case a foreign body would get in-between the beaters.

The muck isn't allowed to go back to the inside of the machine thanks to the specific design and angle of the beaters. The top bearings are protected by a casing and their greasing is centralized on the side of the machine.

## TRANSMISSION

The wide angle PTO shaft simplifies the driving and allows a bigger steering angle of the spreader.

The transmission shaft is equipped with self-aligning bearings that keeps the axis stable. The transmission at the back is equipped with an overrunning clutch in order to guarantee a smooth disengagement of the PTO.

## THE MAIN OPTIONS:

- ⑩⑥ Articulated hydraulic rear door
- ⑩⑦ Side deflectors
- ⑩⑧ Hydraulic rear door
- ⑩⑨ Hydraulic drive unit
- ⑩⑩ Load counter
- ⑩⑪ In-cab electro-hydraulic distribution
- ⑩⑫ Electronic Flowmeter Control
- ⑩⑬ Board computer with information transfer system (USB)
- ⑩⑭ Weigh Cells
- ⑩⑮ Air brakes or mixed brakes
- ⑩⑯ Side extensions (wood or steel)



# HERAX SPREADERS

The HERAX range is especially suitable for big mixed and dairy farms and agricultural contractors. With 14 models, this range offers a great variety of volumes to the users. Two models are also available with tandem axle for a greater comfort on the road. Combining a great volume capacity, reliability and robustness, the HERAX spreaders have been developed for an intense use.

## SPRUNG DRAWBAR

The longitudinal sprung drawbar optimizes the suspension efficiency and reduces both the traction and braking effort.

## BODY

The HERAX range differs from the HELIX range with its higher body sides (1.00m to 1.30 m) and thus a greater volume of its monobloc body made of HLE Steel (high resistance). The integrated chassis and the very low position of the axle guarantee a low center of gravity and thus a great stability, even on hilly fields.

A regular spreading is guaranteed by the conical shape of the spreader. In order to maximize the volume, the user can add steel or wood side extensions. The top front protection panel ensures the safety of the driver as well as giving him a better vision while using the machine.

The hydraulic slurry door is placed where the spreader body is the widest and thus simplifies the discharge of the manure. The front inspection hood allows an easy access for service and technical control.

## STANDARD FEATURES:

- ① Conical body with integrated chassis
- ② Adjustable drawbar
- ③ Single or twin axle
- ④ Hydraulic brakes and parking break
- ⑤ Floor with marine chain (Ø 14 et 16 mm)
- ⑥ Manual tension of the floor
- ⑦ ROTOMAX Beaters (Ø 880 to 910 mm)
- ⑧ Reversible blades on beaters
- ⑨ Protected top bearings of beaters
- ⑩ Centralized greasing of the bearings
- ⑪ Front protection
- ⑫ Semi-automatic tension of the floor
- ⑬ Ladder on the front left hand side
- ⑭ Polyurethane painting





## THE MAIN OPTIONS:

- ⑮ Hydraulic slurry door
- ⑯ Door level indicator
- ⑰ Hydraulic tension of the floor
- ⑱ Side deflectors
- ⑲ Vaucanson chains
- ⑳ Rear door
- ㉑ Spinning deck with horizontal beaters
- ㉒ Hydraulic drive unit
- ㉓ In-cab electro-hydraulic distribution
- ㉔ Electronic Flowmeter Control
- ㉕ Board computer with information transfer system (USB)
- ㉖ Weigh Cells
- ㉗ Air brakes or mixed brakes
- ㉘ Side extensions (wood or steel)

## ROTOMAX BEATERS

The beaters have been designed in order to obtain a regular and even spreading of the manure. The blades are made of treated steel and are removable and reversible. The number of blades and the crossing of the beaters contribute to an optimized pressure during spreading and guarantee a constant output.

With diameter of 880 or 910 mm (depending on the model), the beaters of the HERAX models offer the best compromise between a wide spreading pattern, power requirements and rotation speed.

The frame of the beaters is wider than the body of the spreader which creates two zones of decompression at the entrance of the beaters. This design grants an even and wide spreading pattern with high outputs and low power requirements.

## FLOOR

The HERAX range is equipped with a hydraulic driven chains floor (Ø 14 or 16 mm depending on the models). It is possible for the user to choose Vaucanson chains (Ø 16 or 20 mm).

The slats are placed on a flat iron support which preserves the bottom floor and are made of full tubes to ensure an easy cleaning. The towing effort and the chain wear are minimized.

The speed of the floor is adjustable as standard with the regulator placed on the cable frame. As an option, the user can choose to adjust the floor speed with an in-cab electric control box.



## BEATERS



The GiLiBERT spreaders are equipped with ROTOMAX beaters which optimize the regularity and the consistency of the spreading.



The spreaders can be equipped with two side deflectors in order to adjust the zone of spreading (fields near roads ...).

## SPINNING DECK MAXXIS

The spinning deck MAXXIS has been designed for the spreading of various types of material at low dose (green waste, compost, chicken muck, mud, lime, eggshell, gypsum...) The use of horizontal beaters improves the shredding of the material and thus the even spread on the spinning deck. This specific design enables precise spreading up to 24 meters wide.



## REAR HOOD

The rear hood has been designed in order to increase the versatility of our spreaders. It is especially useful for low doses on a limited width and for products like dry compost and chicken manure.



# PRECISION SPREADING

## 1 | IN CAB CONTROL A



- ▶ Regulation of the floor's speed
- ▶ Manual safety control
- ▶ Oil Supply from tractor on a DA spool valve

## 2 | IN CAB CONTROL B AND C



- ▶ Regulation of the floor speed
- ▶ Regulation of floor's sense of rotation
- ▶ 2 solutions for oil supply:
  1. DA spool valve on tractor
  2. Hydraulic drive unit powered by PTO
- ▶ Option for Remote Control C: Opening/Closing of door

## 3 | REMOTE CONTROL FLOWMETER AND WEIGHING SYSTEM



- ▶ Adjustment of the floor's speed
- ▶ Management of the floor inversion
- ▶ Management of the opening/closing of the door
- ▶ Programming and control of the dose
- ▶ 2 solutions for oil supply:
  1. DA spool valve on tractor
  2. Hydraulic drive unit powered by PTO

### ▶ ELECTRONIC FLOWMETER CONTROL

In the automatic position, the floor's speed is adjusting itself according to the driving speed of the spreader in order to keep the given dose that has been set by the user before he starts spreading.

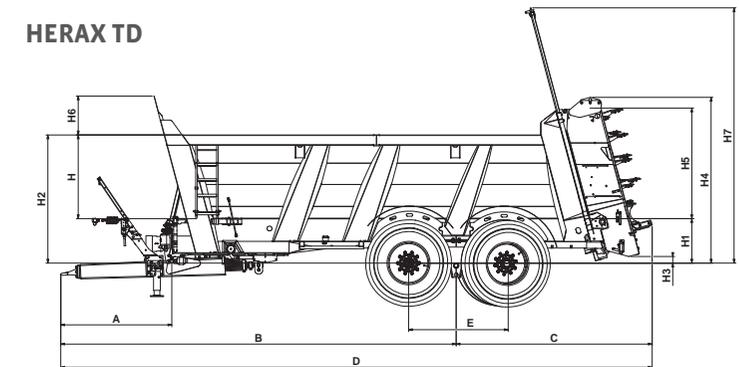
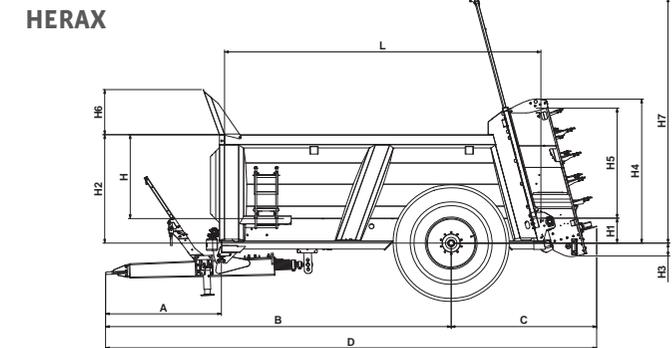
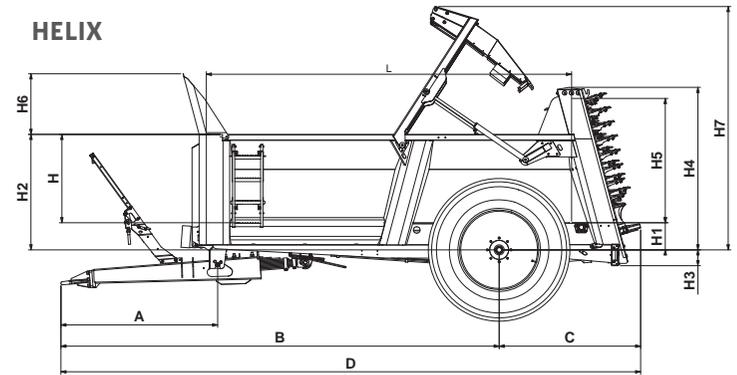
The ELECTRONIC FLOWMETER CONTROL is indicating to the user the floor's speed as well as the dose spread.

### ▶ WEIGH CELLS

Thanks to the sensors placed on the drawbar and the axle, the product loaded into the machine can be weighed. The board computer is indicating the gross weight of the loading.

# HELIX SPREADERS

MODELS	Helix 4	Helix 5	Helix 6.1	Helix 6 Pro	Helix 7	Helix 8
Gross weight (T)	6.7	7.7	8.9	8.9	10.5	12
Loading (m <sup>3</sup> ) solid manure (heaped capacity without hydraulic doors)	4.9	6.5	8.1	8.4	10	12
Volume (m <sup>3</sup> ) with 200 mm side extensions	6.2	8.1	8.1	10	12	12
Empty weight (indicative) (T)	2.3	2.6	2.8	3	3.4	3.5
Payload (road/field) indicative (T)	(4.5/5T)	(4.9/5.5T)	(6.1/6.5T)	(6.5/7T)	(7.1/8T)	(8.5/9T)
Length of the body (m)	3.65	4.25	4.25	4.25	5.00	5.00
Inside length (bottom/top edge) (m)	1.36	1.36/1.66	1.36/1.66	1.36/1.71	1.36/1.71	1.36/1.71
Height spreader unit (m)	1.12/1.33	1.12/1.33	1.12/1.33	1.43/1.65	1.43/1.65	1.43/1.65
Original wood side extensions (m)	-	-	0.20	-	-	0.20
Axle: square section - number of studs	80-8	80-8	80-8	80-8	90-8	100-10
Axle width (m)	1.8	2.00	2.00	2.00	2.03	2.17
Brakes size (mm)	350x60	350x60	350x60	350x60	400x80	400x80
Hydraulic jack c/w manual pump	Optional	Optional	Optional	Optional	Standard	Standard
Floor chains: Ø and length	12x42	12x42	14x49	14x49	14x49	14x49
Cross section of floor slats	70x40	70x40	70x40	70x40	70x40	70x40
Beaters: Ø (mm)	670	670	670	760	760	760
PTO speed (rpm)	540	540	540	540	1000	1000
PTO shaft	Simple	Simple	Simple	Simple	Wide angle	Wide angle
Safety on PTO shaft	Shear bolt	Shear bolt	Shear bolt	Cam clutch	Cam clutch	Cam clutch
<b>PRINCIPAL DIMENSIONS (EMPTY) (MM)</b>						
H Height side	730	800	1000	1020	1020	1220
H1 Height floor / wheel axis	299	314	314	314	314	314
H2 Loading and axle height	1026	1111	1111	1335	1335	1335
H3 Height rear cross member / axle	171	156	156	183	183	183
H4 Height with closed tailgate / axle	1031	1597	1597	1879	1879	1879
H5 Space underneath beater	632	1125	1125	1437	1437	1437
H6 Height protection panel	949	900	900	700	700	700
H7 Total height door open	1893	2632	2632	2812	2812	2812
A Length drawbar	1842	1831	1831	1825	1825	1825
B Wheel base	4521	5110	5110	5103	5670	5670
C Overhanging rear length	1675	1674	1674	1647	1827	1827
D Total length	6196	6684	6684	6750	7497	7497
L Length body	3650	4250	4250	4250	5000	5000



# HERAX SPREADERS

MODELS	Herax 10	Herax 12	Herax 12.1	Herax 13	Herax 13.1	Herax 14	Herax 14.1	Herax 15	Herax 15.1	Herax 16	Herax 18	Herax 20	Herax 20 TD
Gross weight (T)	10.5	12	15.8	12	15.8	12	15.8	12	15.8	15.8	15.8	15.8	23.5
Loading (m³) solid manure	10.5	12.4	12.4	13.2	13.2	13.6	13.6	14.9	14.9	14.9	16.2	17.8	17.8
Volume (m³) with 200 mm side extensions	12	14.2	14.2	15.2	15.2	15.2	15.2	16.7	16.7	16.7	18.1	19.9	19.9
Empty weight (indicative) (T)	3.9	4.1	4.2	4.3	4.4	4.4	4.5	4.6	4.7	5.3	5.5	5.7	7.7
Payload (road/field) indicative (T)	(6.6/8.5T)	(7.9/10T)	(11.6/13T)	(7.7/10.5T)	(11.4/13T)	(7.6/12T)	(11.3/14T)	(7.4/12T)	(11.1/14T)	(10.5/15T)	(10.3/15T)	(10.1/15T)	(15.8T)
Length of the body (m)	5	5	5	5.50	5.50	5	5	5.5	5.5	5.5	6	6.6	6.6
Inside length (bottom/top edge) (m)	1.43/1.96	1.43/1.96	1.43/1.96	1.43/1.96	1.43/1.96	1.43/1.96	1.43/1.96	1.43/1.96	1.43/1.96	1.43/1.96	1.43/1.96	1.43/1.96	1.43/1.96
Height spreader unit (m)	1.50/1.86	1.50/1.86	1.50/1.86	1.50/1.86	1.50/1.86	1.74/2.01	1.74/2.01	1.74/2.01	1.74/2.01	1.74/2.01	1.74/2.01	1.74/2.01	1.74/2.01
Side extensions wood or steel (m)	Optional	-	-	-	-	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Axle: square section – number of studs	90-8	100-10	110-10	100-10	110-10	100-10	110-10	100-10	110-10	110-10	110-10	140-10	Tandem 2x140-10
Axle width (m)	2.08	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
Brakes size (mm)	400x80	400x80	406x120	400x80	406x120	400x80	406x120	400x80	406x120	406x120	406x120	406x120	406x120
Floor chains: Ø and spacing of links	14x49	14x49	14x49	14x49	14x49	14x49	14x49	14x49	14x49	16x56	16x56	16x56	16x56
Cross section of floor slats	70x40	70x40	70x40	70x40	70x40	70x40	70x40	70x40	70x40	90x50	90x50	90x50	90x50
Beaters: Ø (mm)	880	880	880	880	880	910	910	910	910	910	910	910	910
PTO speed (rpm)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Ø transmission shaft / engine (cm³)	45/160	45/160	45/160	45/160	45/160	45/200	45/200	45/200	45/200	45/200	45/200	45/200	45/400
PTO shaft	Wide angle												
Safety on PTO shaft	Clutch												
<b>PRINCIPAL DIMENSIONS (EMPTY) (MM)</b>													
H Height side	1000	1200	1200	1200	1200	1300	1300	1300	1300	1300	1300	1300	1300
H1 Height floor / axle	394	394	394	394	394	394	394	394	394	394	394	394	690
H2 Loading and axle height	1394	1594	1594	1594	1594	1694	1694	1694	1694	1694	1694	1694	1990
H3 Height rear cross member / axle	229	229	229	229	229	210	210	210	210	210	210	210	103
H4 Height with closed hy. gate / wheel axis	2073	2073	2073	2073	2073	2237	2237	2237	2237	2237	2237	2237	2574
H5 Space underneath beater	1380	1380	1380	1380	1380	1710	1710	1710	1710	1710	1710	1710	1710
H6 Height protection panel	810	700	700	700	700	700	700	700	700	700	700	700	600
H7 Height protection panel	3431	3431	3431	3431	3431	3807	3807	3807	3807	3807	3807	3807	3923
A Length drawbar	1812	1812	1812	1812	1812	1812	1812	1812	1812	1812	1812	1812	1738
B Wheel base	5409	5409	5409	5990	5990	5409	5409	5797	5797	5797	6257	6805	6188
C Overhanging parts back	2347	2347	2347	2249	2249	2276	2276	2388	2388	2388	2428	2478	3066
D Total length	7756	7756	7756	8239	8239	7685	7685	8185	8185	8185	8685	9283	9254
L Length body	5000	5500	5500	5500	5500	5000	5000	5500	5500	5500	6000	6600	6600
E Wheel base tandem	-	-	-	-	-	-	-	-	-	-	-	-	1480



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