

# COMPACT DISC HARROW **HELIODOR 9**











## Versatility is the trump card

Compact disc harrows have revolutionised modern agriculture for more than ten years now. No other soil cultivation implement combines a comparable mixing quality with such high acreage capacities. Requirements here are very high. Compact disc harrows must be suitable for both stubble cultivation, and seedbed preparation, using conventional and conservation cultivation methods. And all this with minimum power requirement and a high operating speed.

The ability to combine the disc harrow with a seed drill to create a drill combination is an important feature for potential buyers.

LEMKEN's Heliodor compact disc harrow is ideally suited to cultivating bare stubble, or incorporating surface residues of previous crops, in light to medium soil types.

In seedbed preparation following the plough, or for mulch seeding, it provides a uniformly loosened and levelled seedbed.

When combined with the Solitair pneumatic seed drill from LEMKEN you can have a fast and efficient tilling combination.

These features make the Heliodor a genuine all-rounder saving its users valuable time and money.



# At home wherever it is used



The Heliodor compact disc harrow from LEMKEN uses two rows of discs individually mounted to leaf springs. This system provides a uniform cultivation depth, whilst allowing individual discs to ride over stones when necessary. During stubble cultivation the discs ensure soil and vegetation are evenly and intensively mixed.

The Heliodor can be used for seedbed preparation in conventional and minimum-tillage procedures. Hydraulically adjustable spring-loaded levelling tines (option) reliably level the soil after the plough.

A variety of rollers are available from the LEMKEN roller product range for depth control and reconsolidation.

This allows the Heliodor to be ideally tailored to meet the various conditions prevailing in modern agriculture.

The Heliodor is available in working widths of 2,5 to sixteen metres, meaning there is a machine to suit every farming operation.

- Mounted, rigid 2,5 to four metre working widths can be combined with the Solitair pneumatic seed drill from LEMKEN.
- Mounted, hydraulically folding with four to seven metre working widths. Transport width of less than three metres.
- Semi-mounted, hydraulically folding with four to seven metre working widths. Transport width of less than three metres. Can be combined with the Solitair pneumatic seed drill from LEMKEN (up to 6 metres working width).
- Mounted, hydraulically folding in the Gigant 10 system carrier with an eight, ten or twelve metre working width. Provides a transport width of less than three metres and a transport height of less than four metres.
- As Gigant 12 S system carrier with 16 metres working width.







# Quality and safety without compromises



## Compact frame

The open frame design of the Heliodor with its large free spaces helps to avoid blockage.

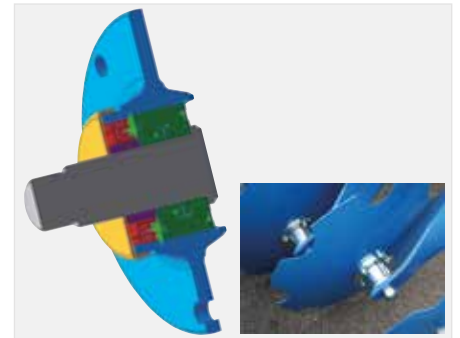
- The short and compact design with its advantageous centre of gravity enables lighter tractors with lower lifting power to be used.
- Premium-quality steel serves as a guarantor for high strength and therefore a long service life.
- The optional boundary discs are available to ensure precise pass alignment. These discs can be easily adjusted using bolts to adapt them specifically to the given conditions of use.



## Serrated larger concave discs

The serrated concave discs on the Heliodor with 510 mm diameter and 5 mm thickness are particularly hard wearing. They are individually suspended in two rows offset to each other.

- The disc angle, of 10.5° to the ground and 16.5° to direction of travel, ensures all soil, across the working width and depth, is cultivated.
- 125 mm disc spacing enables high output intensive soil cultivation to be achieved.
- Height-adjustable outer discs prevent ridges.



## Low-maintenance disc bearing

Low-maintenance high-grade axial angular ball bearings (green) guarantee perfect and reliable disc function.

- They reliably absorb the radial and axial forces of the concave discs, and are fully sealed to prevent dirt from entering.
- An additional outer seal (red) hermetically seals the bearing against external influences.
- A stable steel cap (yellow) prevents any coiled-up wire or string from damaging the seal.





### **Leaf springs for excellent disc guidance**

For precise depth guidance, each disc is individually connected to the frame with leaf springs.

- In contrast to the frequently used rubber buffers, the leaf springs guarantee a significantly greater degree of tracking stability for the discs while working.
- The leaf springs also serve as an automatic overload protection.
- The disc working depth can be adjusted separately in the tractor track to achieve an optimum levelling effect.



### **Perfect levelling with levelling work tines**

As an accessory 150 mm wide, strong levelling tines can be mounted before or after the discs.

- The levelling tines are particularly useful to level plough furrows.
- The angle of the levelling tines can be hydraulically adjusted, from the tractor seat, to provide optimum levelling, and to control the soil flowing to the discs or rear roller



### **Working depth adjustment – easy and comfortable**

The LEMKEN roller range provides the ideal roller to meet mixed agriculture requirements and ensure precise depth control.

- Depth adjustment is done simply by means of a pin in a series of holes.
- The optional hydraulic working depth adjustment allows the working depth to be adjusted easily, comfortably and quickly without stopping.





# Matches every time - solo and in combination



## Robust three-point headstock

Multiple adjustment options make it easy to adapt the headstock to suit different tractors.

- Additional weights of up to 400 kilograms for rigid, and up to 500 kilograms for folding, implements can be integrated into the headstock. They guarantee excellent penetration on hard ground.
- The Heliodor can also be equipped with a Quick Hitch Cat. 3 or 4 N to provide a quick and easy connection between the tractor and implement.



## Optimum ground tracking

Wing sections of the Heliodor, starting at 5 m working widths, are pendulum mounted below the centre frame.

- Sections can float independently of the main frame.
- Pendulum mounting ensures smooth running and precise depth control across varying field contours.



## Quickly combined

The semi-mounted Heliodor can be equipped with a transport or combination trailer.

- This enables the Solitair 9 pneumatic seed drill to be coupled quickly and easily to the Heliodor.
- Identical seed drill coupling points, on LEMKEN's semi-mounted machines, enable the Solitair 9 to be quickly moved from one cultivation machine to another.







### Powerful combination

Together with the Solitair pneumatic seed drill, the semi-mounted Heliodor forms a powerful cultivator / drill combination.

- It can be used in both mulch seeding and conventional methods.
- Parallelogram-mounted double disc coulters, with depth guidance rollers, guarantee accurate seed depth even at high speeds.



### Flexibility through modular system

The combination of semi-mounted Heliodor compact disc harrow, and Solitair pneumatic seed drill, is one of the few mounted, and fast cultivation combinations for mulch sowing on the market.

- High working speeds and low fuel consumption guarantee efficient and cost-effective completion of work.

- The modular system consisting of the Heliodor compact disc harrow, Zirkon power harrow, and the Solitair pneumatic seed drill, enable changes to be easily made between cultivation methods even with mounted machines.
- Identical coupling points on the Heliodor and Zirkon ensure fast changes to the seed drill set-up.
- Both soil cultivation implements can also be used on their own.





# Technical data

Designation	Number of discs	Disc diameter (mm)	Disc spacing (mm)	Line distance (m)	Transport width (m)	Weight without roller (approx. kg)	Can be combined with seed drill	Tractor output	
								kW	HP
Mounted, rigid									
Heliodor 9/200	16	510	125	2	2	570		37-59	50-80
Heliodor 9/250	20	510	125	2,5	2,5	712		46-74	63-100
Heliodor 9/300	24	510	125	3	3	852	x	55-88	75-120
Heliodor 9/350	28	510	125	3,5	3,5 1)	968	x	65-103	88-140
Heliodor 9/400	32	510	125	4	4 1)	1,084	x	74-118	100-160
Mounted, hydraulically folding									
Heliodor 9/400 K	32	510	125	4	3	1,791		74-118	100-160
Heliodor 9/450 K	36	510	125	4,5	3	1,859		83-132	113-180
Heliodor 9/500 K	40	510	125	5	3	1,928		92-147	125-200
Heliodor 9/600 K	48	510	125	6	3	2,206		110-176	150-240
Heliodor 9/700 K	56	510	125	7	3	2,482		129-206	175-280
Semi-mounted, hydraulically folding									
Heliodor 9/400 KA	32	510	125	4	3	2,829	x	74-118	100-160
Heliodor 9/450 KA	36	510	125	4,5	3	2,985	x	83-132	113-180
Heliodor 9/500 KA	40	510	125	5	3	3,151	x	92-147	125-200
Heliodor 9/600 KA	48	510	125	6	3	3,362	x	110-176	150-240
Heliodor 9/700 KA	56	510	125	7	3	3,582		129-206	175-280
Hitched, hydraulically folding									
Gigant 10/800 Heliodor 9	64	510	125	8	3	4,998		147-235	200-320
Gigant 10/1000 Heliodor 9	80	510	125	10	3	5,560		184-294	250-400
Gigant 10/1200 Heliodor 9	96	510	125	12	3	6,750		221-353	300-480
Gigant 12S/1600 Heliodor 9	128	510	125	16	3,5 1)	10,746		294-471	400-640

<sup>(1)</sup> In some countries, this exceeds the permitted transport width on public roads

## Standard equipment

### Heliodor 9:

- Lower link attachment 2.5 m: Cat. 2 (or Cat. 3N=L2 Z3)  
3 m - 4 m: Cat. 3N=L2 Z3 (or Cat. 3)
- Box section frame 120 x 120 mm
- Notched concave discs 510 x 5 mm two rows

### Heliodor 9 K:

- Lower link attachment Cat. 3N=L2 Z3 (or Cat. 3 or 4N=L3 Z4)
- Box section frame 180 x 200 mm
- Notched concave discs 510 x 5 mm two rows

### Heliodor 9 KA:

- Solo axle
- Axle with wheels 16.0/70-20, 1,070 x 418 mm
- Lower link attachment Cat. 3 (or Cat. 3N=L2 Z3 or 4N=L3 Z4)
- Box section frame 180 x 200 mm
- Notched concave discs 510 x 5 mm two rows

### Gigant 10/800 Heliodor 9:

- Drawbar eye Ø 58 mm, for connection to a double lashing drawbar (or Ø 48 mm)
- Axle with wheels 500/50-17, 940 x 500 mm
- Notched concave discs 510 x 5 mm two rows
- Three point linkage hydraulic double acting

### Gigant 10/1000 Heliodor 9:

- Drawbar eye Ø 58 mm, for connection to a double lashing drawbar (or Ø 48 mm)
- Axle with wheels 550/45-22.5, 1,070 x 550 mm
- Notched concave discs 510 x 5 mm two rows
- Three point linkage hydraulic double acting

### Gigant 10/1200 Heliodor 9:

- Drawbar eye Ø 58 mm, for connection to a double lashing drawbar (or Ø 48 mm)
- Axle with wheels 550/45-22.5, 1,070 x 550 mm
- Notched concave discs 510 x 5 mm two rows
- Three point linkage hydraulic double acting
- With depth guidance device
- Hydraulic stand

### Gigant 12 S/1600 Heliodor 9:

- Drawbar eye Ø 58 mm, for connection to a double lashing drawbar (or Ø 78 mm)
- Axle with wheels 800/40-26.5, 1,340 x 800 mm
- Notched concave discs 510 x 5 mm two rows
- Three point linkage hydraulic double acting
- With depth guidance device
- Hydraulic stand



# Service decides



When you have bought a machine from LEMKEN, the well-known, almost proverbial LEMKEN service starts. 18 customer-oriented factory branches and outdoor storage areas in Germany as well as our own sales companies and importers in more than 40 countries, and a strong dealer network, ensure that machines and spare parts are supplied quickly.

If a part is not in stock, it can be delivered to the customer within 24 hours via the LEMKEN logistics centre which is manned round-the-clock 365 days a year.

## **Knowledge from the LEMKEN specialist**

Well trained customer service technicians are available to farmers,

contractors and trade, who are using machinery for the first time, as well as for professional maintenance and repairs. Thanks to regular training courses, LEMKEN customer service is always up to date with the latest LEMKEN technology.

## Original spare parts from LEMKEN

LEMKEN wearing parts are designed for a maximum service life. High-quality materials, the latest production methods, and an intensive quality control ensure a long service life. Therefore, all original spare parts bear a unique identification with the registered LEMKEN trademark. Original spare parts can be ordered at any time online on the Internet via the LEMKEN information and ordering system.





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