

# COMPACT DISC HARROW **RUBIN 12**







**Deeper, faster and more intensive: Rubin 12**



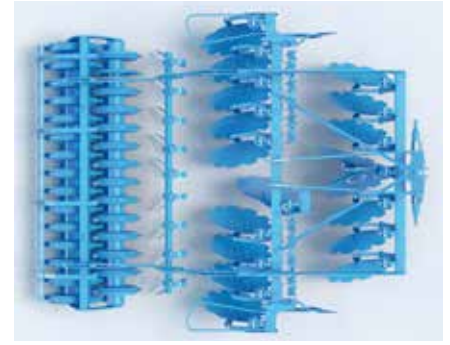


Compact disc harrows provided previously intense and homogeneous mixing of soil and organic matter to a depth of approximately 14 cm.

With Rubin 12, LEMKEN supplements its range of compact disc harrows, consisting of Heliodor 9 and Rubin 9, with a new series, which can work in up to 20 cm depth. The compact disc harrow can operate on all soils in areas, which were previously reserved for cultivators. With its specially arranged large concave discs, Rubin 12 is designed in particular for the incorporation of large amounts of crop residues.

Various rollers from the wide range of LEMKEN rollers offer optimal crumbling, reconsolidation and leveling, as well as precise depth control for different soil and working conditions.

# Perfect work quality thanks to large concave discs

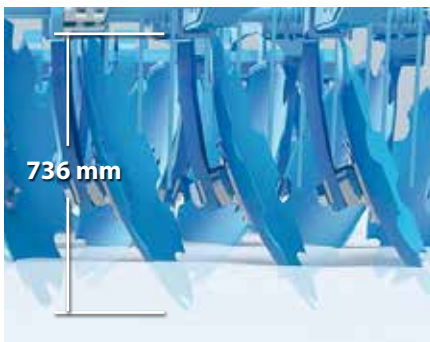


## No side draft due to symmetrical disc arrangement

The symmetrical arrangement of every row of serrated concave discs provides precise directional stability with no side draft, even when driving on slopes.

- The middle concave discs are offset. This ensures regular cultivation over the whole working width, without causing clogging of the implement.

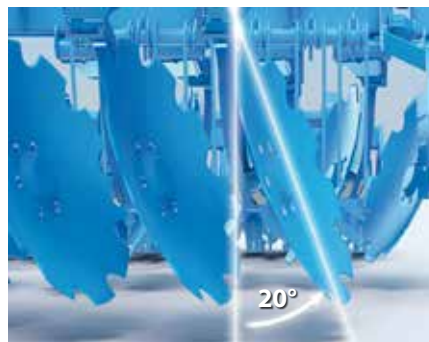
A patent is pending for this unique arrangement.



## Large disc diameter

The serrated Rubin 12 concave discs, with a diameter of 736 mm and a material thickness of 6 mm, represent a new performance class among the short disc harrows.

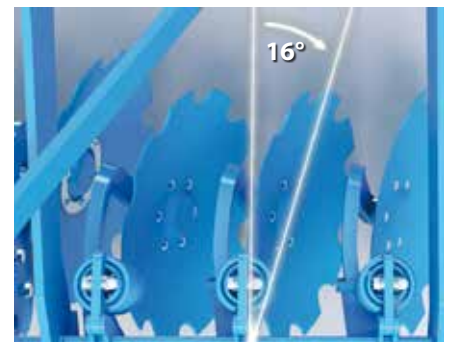
- These allow working depths of up to 20 cm, which were previously only achieved with cultivators.



## Special disc position

The discs are inclined 20° to the soil and 16° in the direction of travel.

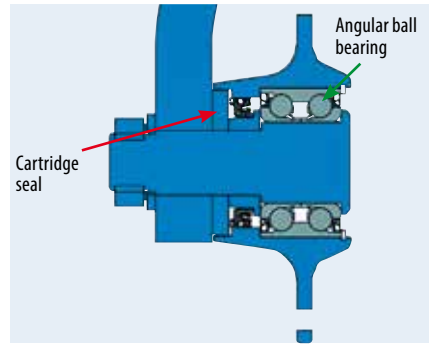
- This provides optimal penetration and ensures cultivation over the whole working width.
- In this way, optimal mixing and crumbling results are achieved.



The concave discs of Rubin 12 are attached individually to a highly tempered. Its special shape provides maximum space between the discs.

- Rubin 12 operates without clogging thanks to the optimized clearances between the discs.





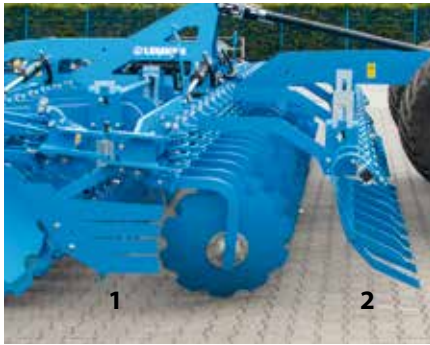
## High-quality disc bearings

The concave disc bearings of Rubin 12 are designed as maintenance-free angular ball bearings, so that there is no need to grease or adjust them. The maintenance effort of Rubin 12 is therefore minimal.

- An internal six fold cassette sealing ensures optimum protection of the bearing against dust and moisture.
- The bearing housing is protected against coarse dirt and it's special shape also prevents crop wrapping.



# Prepared for any job



## Impact harrow and leveling harrow

The impact harrow (1) behind the first row of concave discs guides the soil flow:

- It provides intensive mixing and crumbling of the soil.
- The soil flow is slowed before the second row.

The leveling harrow (2) behind the second row of concave discs leaves a flat surface:

- The soil flow is deflected and thus perfectly leveled.



## Central control

An innovative, self-locking device allows easy adjustment of the working depth of the harrows.

- Both harrows feature central depth adjustment.
- Quick adjustment to changing working conditions ensures optimal working results.
- No additional locking required.

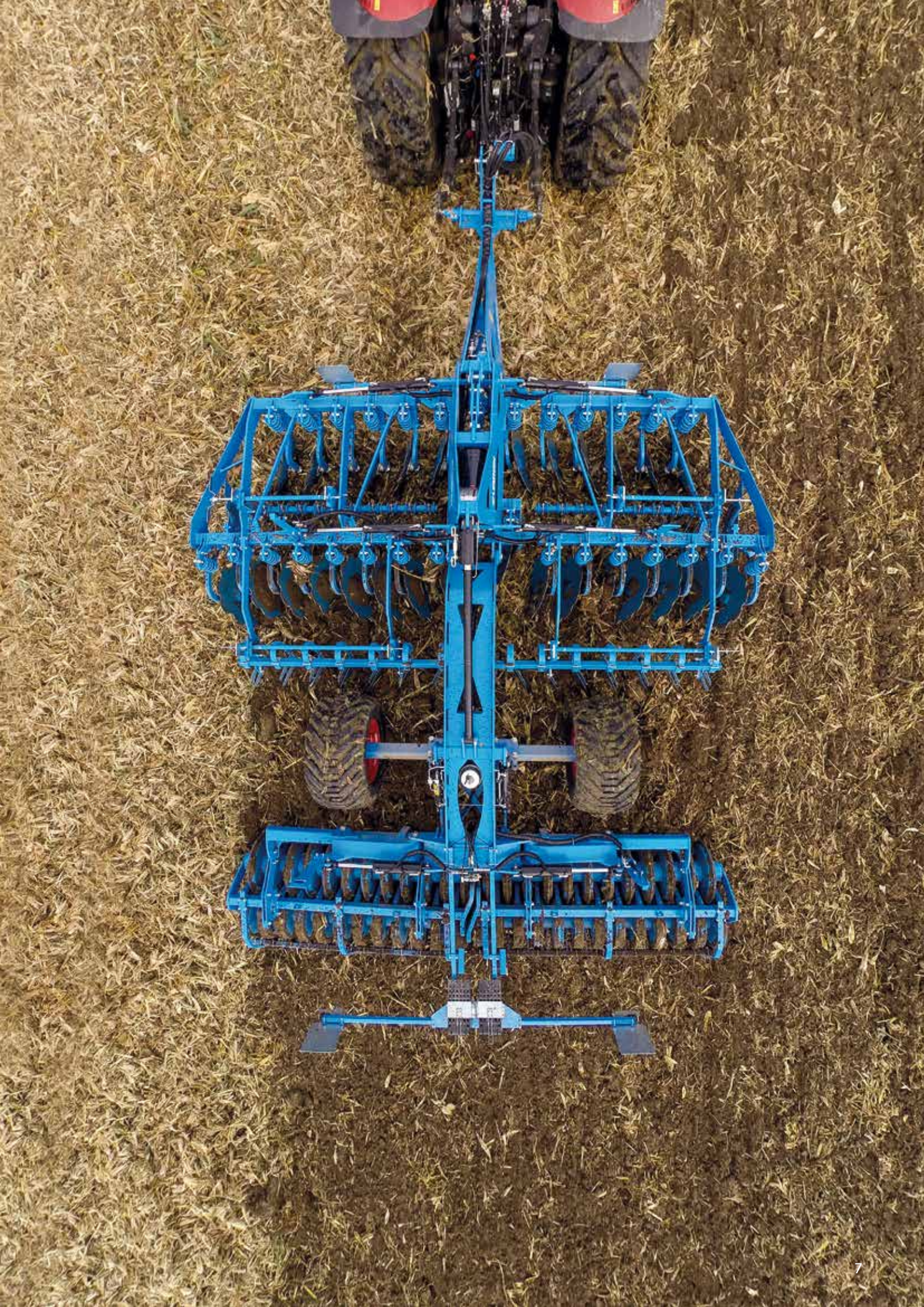


## Overload protection and spring elements

Each concave disc is individually attached to the frame with pre-tensioned spring elements.

- Even in harder soils, the working depth is accurately maintained.
- The discs are always true track following.
- When hitting obstacles, the concave discs independently deflect upwards and rapidly return to their working position.
- Optimal pressure exertion on each disc and, in contrast to rubber stops, an exactly maintained working position and a constant tripping force.
- Maintenance-free bracket bearing.







# Rubin 12 – rigid or semi-mounted



## The semi-mounted system with transport wheel

The transport wheel reduces the weight load on the rear tractor axle when the implement is raised.

- The wheel provides high stability for tractor and implement during road transport.
- The roller is lifted out mechanically using the transport wheel, so that no spool valve is needed for that purpose.



## 3-point mounting

A trailer frame with transport wheel is optionally available for all rigid implements. This ensures that road transport regulations are complied with when using heavy trailing rollers.

- Two mounting positions for the drawbar and a pivotable headstock allow a wide range of adjustments of the mounted Rubin 12.
- For use with different tractors and in various soil conditions.
- The headstock for the upper link coupling can be easily swiveled to the front to achieve a greater lifting height.



## Working depth

On rigid implements, the working depth is adjusted either hydraulically or with a series of holes.

- The leveling harrow is automatically adjusted with changes in the working depth.





# Rubin 12 – folding and semi-mounted



## Working depth

The working depth of the folding semi-mounted implements is adjusted hydraulically.

- The depth indicator, integrated into the frame, can be easily read from the tractor cabin.



## Pendulum device

The folding semi-mounted implements with 5, 6 and 7 metres working width are equipped with following rollers with pendulum suspension.

- Both rollers oscillate autonomously, so that an optimal ground adaptation is ensured even with large working widths.



## Integrated carriage for better maneuverability

The carriage of the semi-mounted Rubin 12 compact disc harrow is integrated in the frame. Thus, the compact disc harrow is extremely compact, stable and very maneuverable.

- The favorable weight distribution allows the use of heavy following rollers to achieve a good reconsolidation.
- The short distance between the coupling points and the wheels allows very easy maneuvering of the semi-mounted Rubin.





# Technical data

kW	HP	Designation	Number of discs / Ø (mm)	Working width (approx. cm)	Weight without roller (approx. kg)	Transport width (approx. m)
<b>Mounted, rigid, folding outer concave discs</b>						
99 - 177	135 - 240	Rubin 12/300 U	18/736	300	2,046	3
116 - 206	158 - 280	Rubin 12/350 U	18/736	350	2,141	3,5*
132 - 235	180 - 320	Rubin 12/400 U	22/736	400	2,616	4*
<b>Semi-mounted, hydraulic folding</b>						
132 - 235	180 - 320	Rubin 12/400 KUA	22/736	400	4,402**	3
165 - 294	225 - 400	Rubin 12/500 KUA	30/736	500	5,257**	3
199 - 353	270 - 480	Rubin 12/600 KUA	34/736	600	6,100**	3
231 - 410	315 - 560	Rubin 12/700 KUA	42/736	700	6,630**	3

\* Exceeds the permitted transport width in several countries

\*\* Axle load exceeds 3t, braked version





# 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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