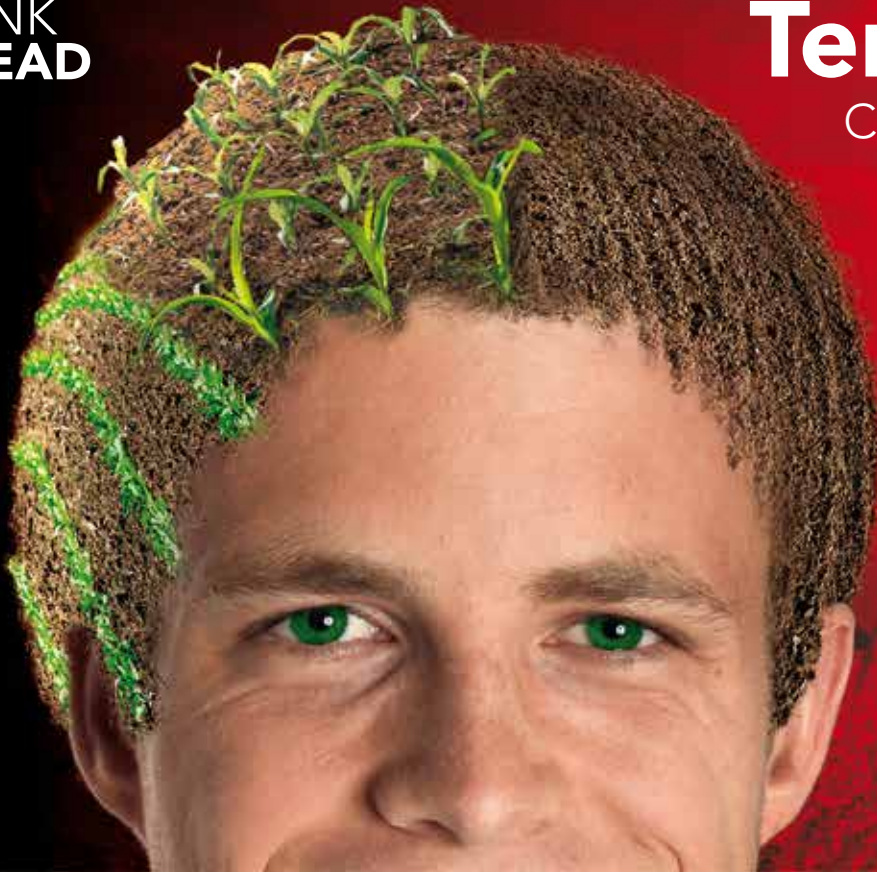


EN

 **THINK
AHEAD**

TerraDisc^{pro}

Compact disc harrows



VOGEL  NOOT
THINKING AHEAD



Intelligence is valued ...

- for an outstanding mixing effect, even in the worst soil conditions
- time saved thanks to high ground coverage
- maximum ease of use and long life span



More information is
available online

www.vogel-noot.info

Compact disc harrows for professionals



Aggressive disc form and position guarantee very good introduction and best incorporation



More precise - faster - more efficient

The first stubble processing after the harvest already forms the base for the following cultures. It disrupts the capillarity of the stubble and protects moisture reserves in the soil. An intensive incorporation as well as the following consolidation grant a quick germination of drop out – grains and weed seeds, and therefore saves time and also increases overall profits.

The new TerraDisc^{pro} meets these requirements perfectly: The new form of the disc provides an outstanding mixing effect and good penetration of the soil, even with difficult soil conditions. This allows a higher

working speed. A wide range of roller designs ensures optimum working results whatever the ground conditions.

The TerraDisc^{pro} also has huge clearances and the new frame

construction ensures smooth work even with large quantities of crop residues.

The TerraDisc^{pro} ensures a precise, quick & efficient work rate even under extreme conditions.



TerraDisc^{pro} 300

The "snappy" 3-point linkage

Advantages TerraDisc^{pro}

Outstanding soil penetration in heavy or hard soils due to new positioning and form of the discs

High straw clearance owing to the high frame and the clearances between the discs and disc-holders

Intensive incorporation and mixing of organic materials, such as corn straw

Easily folded edge discs enable effective exploitation of the nominal working widths of 2.5 / 3.0 / 3.5 / 4.0 m for transport widths of < 3.0 / 3.5 / 4.0 m

Excellent handling with simple and central working depth adjustment (optionally hydraulically adjustable)

Extensive choice of different rollers for all operating conditions

A new disc shape and position give the TerraDisc^{pro} excellent ground entry which enables fast working speeds even in difficult conditions such as very heavy or hard soil. That means even the fixed versions of the TerraDisc^{pro} achieve outstanding coverage and efficiency in stubble cultivation and mulch-seed bed preparation.



The TerraDisc^{pro} is available with working widths of 2.50, 3.00, 3.50* and 4.00* meters in a fixed frame

* Transport width more than 3.00 m



TerraDisc^{pro} 300 TR trailed version

Trailing is easier than lifting!

Advantages TerraDisc^{pro} TR

Trailing makes no demands of the tractor lifting force

Outstanding user comfort with standard hydraulic depth adjuster with memory cylinder

Exceptional straw throughput thanks to high frame and clearances between discs and disc supports

The TerraDisc^{pro} TR can be converted with a few hand adjustments back to a 3-point mounted tool and a mounted tool can also be retrofitted to the trailed TR version.

Intensive incorporation and mixing of high quantities of organic materials such as maize straw

Easily-folded edge discs enable effective exploitation of the nominal working widths of 3.0 / 3.5 / 4.0 m for transport widths of < 3.0 / 3.5 / 4.0 m

The TerraDisc^{pro} TR is the optimum tool for tractors with less lifting capacity. The tool uses the tyre packer roller or rubber tapered ring roller not only for depth control and re-consolidation but also as the chassis. The stable drawbar allows a very high full lock and makes the assembly extremely nimble at the headland. The TerraDisc^{pro} TR is equipped with an innovative hydraulic system: a memory cylinder automatically repositions the tool to the preset working depth after each lift. In addition, the working depth can be hydraulically adjusted up or down during travel - as standard!



Optional **hydraulic crossboard** for even better crumbling and levelling: suitable for TerraDisc^{pro} TR with 3.00, 3.50* and 4.00* m working width in rigid frame design.

* Transport width more than 3.00 m

TerraDisc^{pro} Hydro



TerraDisc^{pro} 600 Hydro

Top-of-the-range compact disc harrow

Advantages TerraDisc^{pro} Hydro

The robust design ensures safety in professional use in all conditions

Exceptional straw throughput thanks to high frame and clearances between discs and disc supports

Excellent handling with simple and central working depth adjustment (optionally hydraulically adjustable)

Mechanical transport locks with automatic hydraulic unlocking

An optional retrofitted folding chassis provides added weight to the wheels, especially exact depth control and superior maneuverability.

With outstanding quality of work and sophisticated modern design, the TerraDisc^{pro} Hydro is the premium compact disc harrow on the market. The hydraulic folding mechanism of the TerraDisc^{pro} Hydro is designed with two large-scale cylinders while the necessary safety is provided by a mechanical locking mechanism with automatic hydraulic unlocking prior to extension. The optional folding chassis transfers additional weight on the discs, the TerraDisc^{pro} is therefore particularly quiet in the ground.



The TerraDisc^{pro} Hydro is available with working widths of 4.00, 5.00 and 6.00 meters in hydraulic folding frame design, optional with **semi trailer chassis** (Details see page 10).

Technology for professionals

Fast and snappy – this is how the TerraDisc^{PRO} compact-disc harrow works



Testimonials

Kocsis László

Fajsz, Hungary

Farm size: approx. 300 ha

Mr Kocsis László runs an arable farm of around 300 ha in southern Hungary. The compact-disc harrow **TerraDisc^{PRO} 500 Hydro** with semi-trailed chassis and Terrapak II-roller is primarily used for stubble incorporation after maize.

Mr László used the TerraDisc^{PRO} 500 Hydro for stubble incorporation in very hard ground after a long drought period. The large discs and the weight transfer to the front over the device helped provide optimum soil penetration. The Terrapak-II roller left a fine crumbly

surface behind which was suitable for direct sowing. The farmer is enthusiastic: "I am delighted that I chose the compact-disc harrow TerraDisc^{PRO} from Vogel & Noot. I found the price-performance ratio very attractive. But the perfect working quality of the device won me over completely!"



Friedrich Klemme, Hartmut Neuze, Klaus Jäger

Gerbenstein, Germany

Farm size: approx. 500 ha

The arable farm area of the joint operation in Hesse is farmed with the mulch sowing process. In addition to wheat, rape and sugar beet, speciality crops such as potatoes, strawberries and asparagus are cultivated. The compact-disc **TerraDisc^{PRO} 500 Hydro** with semi-trailed chassis and air brake and Terrapak II roller which was



purchased in 2012 is primarily used for stubble incorporation and seedbed preparation. Choosing the right compact-disc harrow was not easy for the farmers. In the course of presentations various manufacturers had the opportunity to present their compact-disc harrows. The TerraDisc^{PRO} 500 Hydro from Vogel & Noot stood out. "The high area coverage and the manoeuvrability with the chassis were particularly decisive factors in our purchase decision. But the perfect soil penetration, the good incorporation and the fine crumbly surface also won us over!", the farmers state unanimously.



Schlifelner family

Großkrut, Austria

Farm size: 120 ha

Mr Richard Schlifelner runs a 120 ha arable farm in Lower Austria. He uses the ploughing process for around one third of his work and the mulch sowing process for around 2/3. At the start of 2012 he bought a compact-disc harrow **TerraDisc^{PRO} 500 Hydro** with tracking tine and hydraulic depth adjustment and used it successfully straight away for the ploughing of grassland. He also needs the device for stubble cultivation. It was primarily the

good level of equipment, the hydraulic depth adjustment and the excellent quality of work and materials which he was most attracted by. "The processing of the materials is top class. The device is stable and it also works seamlessly under difficult conditions", Richard Schlifelner tells us.



Advanced technology



Toothed mulch-discs

The ideal dimensions of 510 mm diameter, as well as the especially concave form of the discs, combined with the new intrusion angle reach excellent penetration manners. This makes working possible in heavy and hard soils. Additionally the good penetration enables higher working speeds, because the machine cannot float up. The roughly rigged form supports this effect, and grants effective crumbling and optimal sprouting conditions.



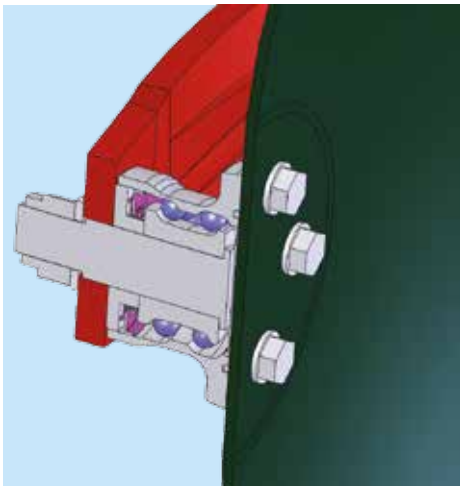
Flexible disc suspension

The socket of the discs in rubber elements grants maintenance freedom and security of use. These spring elements offer perfect adjustment to the soil when working with a low working depth, and therewith make a processing of soil unevenness and driving-tracks possible. Additionally the rubber elements serve as a useful overload protection for stones.



Effective working width – foldable edge discs

The nominal working width is reached by the overlapping of only one disc; this prevents the occurrence of only partly processed streaks at the edge of the field. The new spring-loaded edge discs can be folded away comfortably without much power being needed and they thus guarantee a width of less than 3.00 m for the device or 3.50/4.00 m (rigid devices) for secure road transport.



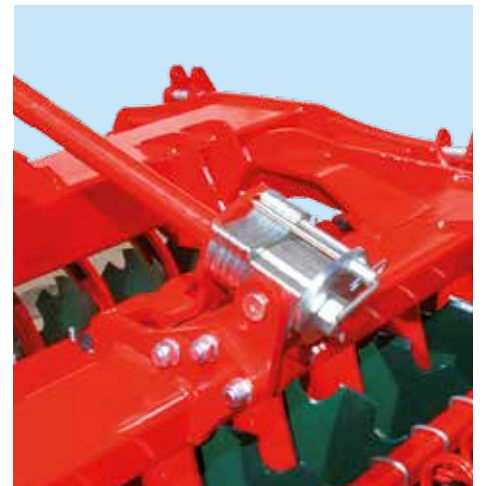
Disc bearings

The new TerraDisc^{pro} has solely been equipped with upscale SKF-bearings. The maintenance-free two-rowed angular bearings are sealed threefold and greased constantly, so moisture and dirt don't stand a chance. The screwed attachment of the bearing axis to the disc holder improves the ease of servicing immensely and avoids useless repair costs.



Edge plates (optional)

The optionally available edge plates can in certain situations prevent ridges by the outer discs, and therewith ensure a perfect junction between the working widths. As well as the edge discs, the edge plates are comfortably foldable and ensure a transport width of less than 3,00 alternatively 3,50 / 4,00 m (fixed machines).



Working depth adjustment

The **mechanical adjustment of the work depth** occurs very comfortably and precisely from the rear of the device with a central adjustment element with depth gauges which can be folded in and out. It is also possible to opt for **hydraulic depth adjustment** (for TerraDisc^{pro} TR series with memory cylinder) which makes complete adjustment over the whole adjustment range possible during the run, which is very advantageous, e.g. for temporary changes in depth for complete processing of ruts.

Rollers

The choice of the roller influences the whole way of working and characteristics of use of the compact disc harrow. VN offers the right roller for all working conditions with different roller designs in different working widths. The possibilities for combining the individual rollers with the compact-disc harrows can be found in the technical overview (page 11).



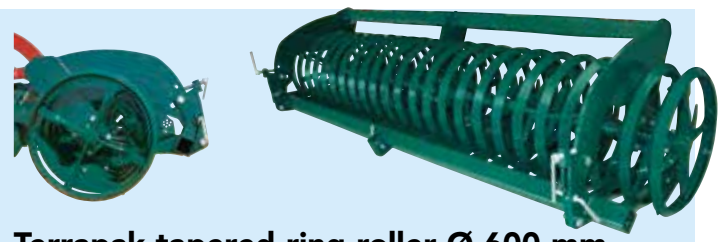
Tire packer roller Ø 630 mm

- High load capacity in light soils, the roller does not "sink"
- Very good ground drive thanks to angular shoulder profile, high degree of operational reliability
- Reconsolidation in distinct strips
- Highly suitable for subsequent mulch sowing
- No risk of blockages by stones



Toothed packer roller Ø 500 mm

- Good all-round features
- Particularly clog-resistant, thanks to scraper
- Tough in stony conditions
- Excellent ground drive with individually welded teeth
- Lighter than Terrapak or rubber tapered ring roller



Terrapak tapered ring roller Ø 600 mm

- Ensures perfect leveling, compresses and closes soil.
- The runners between the rings are height-adjustable and thus support the consolidation intensity. They also provide reliable cleaning of the rollers.
- Particularly suitable for subsequent mulch sowing



Tapered tube roller Ø 660 mm

- High loading capacity in light soils
- Good ground drive also in light and sandy grounds
- Tough in stony conditions
- High consolidation
- Grooved consolidation, highly suitable for subsequent mulch sowing



Terrapak II tapered ring roller ø 600 mm

- Perfect work results with outstanding reconsolidation, crumbling and levelling
- Better ground drive in light conditions
- Greater stability with continuous central pipe and 5 spokes
- Improved ease of adjustment of the scraper bar thanks to adjustment using only 1 spindle



Rubber tapered ring roller Ø 580 mm

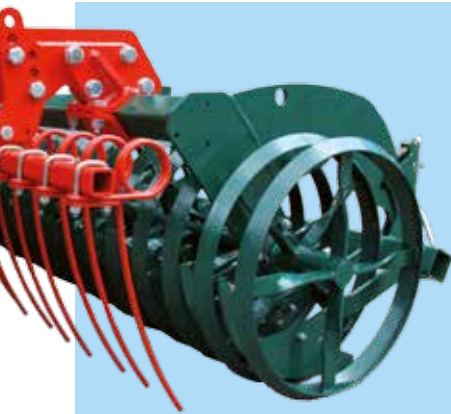
- Leaves behind an intensive grooved surface with consolidation in line form
- Excellent self-cleaning
- Highly suitable for subsequent mulch sowing



Tandem disc roller ø 600 mm

- Particularly viable in light, sandy soil
- Flat profiled discs arranged in 2 rows
- Excellent ground drive with individually welded driving plates
- Can be combined with TerraDiscpro with semi-trailed chassis
- Tracking tine (optional) for perfect levelling

Harrow tine



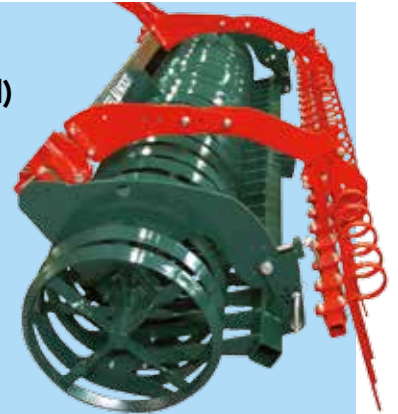
Harrow tine in front of roller (optional)

The harrow tine which is located between the discs and the roller guides the soil/straw mass away from the roller and downwards, and therewith ensures perfect straw distribution. Recommended for open rollers like the Terrapak-roller.

Following harrow tine to the rollers (optional)

All rollers are also available with a following harrow. With 12 mm thick tines, which are adjustable in tilting and height, the harrow ensures optimal alignment of the straw, and prevents quick growth of weeds.

Not available for TerraDisc^{PRO} TR models!



Semi-trailed chassis

The basic concept of the semi-trailed chassis is to transfer the weight as far forward as possible above the device while work is taking place. This brings about an additional load on the large discs and even better penetration. The device is particularly steady in the ground and is guided with great precision in the depression.

The semi-trailed chassis can easily be retrofitted on a three-point unit. Thanks to the fle-

xible axle positioning and the towing mount which is shortened as standard, the device can be **manoeuvred very easily** independently of the roller/tine equipment selected. Other vital benefits include fuel savings and less slip due to optimal weight transfer onto the rear axle of the tractor.

The **drawbar** can be equipped with a **hydraulic cylinder** if desired.

Time is saved as a result as the turning occurs on the roller and it is no longer necessary to fold down the chassis.

Safety on the road up to the permitted maximum speed and adherence to the legal regulations! That is achieved through the optional equipment package for classification (air brake system, lighting and protective covers).



TerraDisc^{pro} – technical data

Key data		TerraDisc ^{pro}				TerraDisc ^{pro} TR			TerraDisc ^{pro} Hydro		
		250	300	350	400	300	350	400	400	500	600
Working width	m	2,5	3,0	3,5	4,0	3,0	3,5	4,0	4,0	5,0	6,0
Transport width	m	2,48	2,98	3,48	3,98	2,98	3,48	3,98	2,80		
Number of discs	pcs.	20	24	28	32	24	28	32	32	40	48
Disc-Ø	mm	510				510			510		
Performance	kW (HP)	51 (70) - 103 (140)	66 (90) - 117 (160)	74 (100) - 132 (180)	88 (120) - 147 (200)	58 (80) - 117 (160)	66 (90) - 132 (180)	74 (100) - 147 (200)	103 (140) - 162 (220)	117 (160) - 191 (260)	132 (180) - 220 (300)
Weights											
Without roller	kg	1180	1370	1560	1750	1640	1830	2020	2350	2600	2850
With Packer roller ZPW Ø 500 mm	kg	1545	1810	–	2360	–			2930	3330	3730
With Terrapak tapered ring roller TPW Ø 600 mm	kg	1640	1900	2210	2490	–			3090	3520	3910
with Terrapak tapered ring roller Ø 600 mm	kg	1680	1950	2260	2570	–			3170	3650	4010
With Rubber tapered ring roller GKRW Ø 580 mm	kg	1700	1970	2280	2550	2240	2550	2820	3190	3640	4050
With tapered tube roller KTW Ø 660 mm	kg	1725	2000	2350	2650	–			3250	3690	4110
With tire packer roller RPW Ø 630 mm	kg	1610	1880	2160	2430	2150	2430	2700	3030	3460	3870
with tandem-disc roller Ø 600 mm *		–				–			3720	4190	4640
Harrow in front of roller	kg	55	70	85	100	70	85	100	100	130	150
Following harrow	kg	80	110	143	175	–			175	200	225
Edge plates	kg	60				60			60		
Folding chassis	kg	–				–			1100		

* only in connection with semi-trailed chassis, tine in front of roller not possible



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disc
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The illustrations and data given here are not binding.
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