

Because your
farmland deserves
special technology.



düvelsdorf

AGRICULTURAL TECHNOLOGY | Complete range

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> *DO YOU HAVE
ANY QUESTIONS?
WE WOULD BE DELIGHTED
TO HELP YOU.*

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Note: All illustrations in this catalogue are example images. Machines are configured according to customer requirements.





TERRA.ROLLER eco 1.2 m to 3 m



ALL - ROUND.

The **TERRA.ROLLER** eco with Cambridge or toothed rings is suitable for versatile tasks in arable and grassland. The robust roller is available in working widths of 1.2 m, 1.6 m, 1.8 m, 2 m, 2.5 m und 3 m. The machine is excellent for maintaining and reseeding turf, as well as for soil reconsolidation.

The working widths of up to 2 m are particularly suitable for use in orchards, vineyards and vegetable cultivation. The CAT I / II attachment hitch for the **TERRA.ROLLER** eco ensures versatile use at the rear or front.





POSSIBLE APPLICATIONS:

- > 1.2 m to 2 m variants particularly suitable for soil cultivation in orchards, vineyards and vegetable growing
- > Counteracts soil erosion through soil reconsolidation, among other things.
- > Ideal for crushing coarse clods of earth
- > Preparation for good plant growth through optimal seedbed preparation

TECHNICAL DATA

Working width	1.2 m			1.6 m		
Ring type	Cambridge	Cambridge	Toothed ring	Cambridge	Cambridge	Toothed ring
Ring diameter in mm	460	550	450/500	460	550	450/500
Weight in kg	390	480	450	480	600	580
Transport width in m	1.2			1.6		
Transport height in m	1.27	1.32	1.28	1.27	1.32	1.28
Transport length in m	0.7	0.75	0.72	0.7	0.75	0.72
Bearing distances in m	1.1	1.1	0.87	0.94	0.94	0.87
Attachment	CAT I / II					
Attachment height H1 / H2 in mm ¹	505/615	555/616	505/565	505/615	505/616	505/565

TECHNICAL DATA

Working width	1.8 m			2 m		
Ring type	Cambridge	Cambridge	Toothed ring	Cambridge	Cambridge	Toothed ring
Ring diameter in mm	460	550	450/500	460	550	450/500
Weight in kg	530	670	650	590	740	720
Transport width in m	1.8			2		
Transport height in m	1.27	1.32	1.28	1.27	1.32	1.28
Transport length in m	0.7	0.75	0.72	0.7	0.75	0.72
Bearing distances in m	0.94	0.94	0.87	0.94	0.94	0.87
Attachment	CAT I / II					
Attachment height H1 / H2 in mm ¹	505/615	555/616	505/565	505/615	505/616	505/565

¹ H1: Distance between the ground and the lower lower link hole.
H2: Distance between the ground and the upper lower link hole.

TECHNICAL DATA						
Working width	2.5 m			3 m		
Ring type	Cambridge	Cambridge	Toothed ring	Cambridge	Cambridge	Toothed ring
Ring diameter in mm	460	550	450/500	460	550	450/500
Weight in kg	642	913	889	739	1,065	1,029
Transport width in m	2.6			2.98		
Transport height in m	1.27	1.32	1.28	1.27	1.32	1.28
Transport length in m	0.7	0.75	0.72	0.7	0.75	0.72
Bearing distance in m	1.85					
Attachment	CAT I / II					
Attachment height H1 / H2 in mm ¹	530/600	580/650	530/600	530/600	580/650	530/600

Available as
toothed ring or
Cambridge roller

For an optimal work results,
you can equip your roller with
Cambridge or toothed ring
elements.
To find out which version is the
right one for your requirements,
see page 11.



Versatile use

The **TERRA.ROLLER** eco can be combined with the **GREEN.RAKE** expert or the **GREEN.RAKE** vario and thus offers versatile application options such as planting wildflower strips along field margins, intercropping, maintaining inter-row paths in orchards and vineyards, or cultivating grassland.

¹ H1: Distance between the ground and the lower lower link hole.
H2: Distance between the ground and the upper lower link hole.

TERRA.ROLLER eco 6.3 m



PERFECT PRICE AND PERFORMANCE.

The **TERRA.ROLLER** eco 6.3 m with Cambridge or toothed rings offers the ideal entry into the professional roller segment. With a working width of 6.3 m, it makes soil cultivation simple, whether on arable or grassland. The machine is versatile and can be used all year round. The **TERRA.ROLLER** eco is particularly suitable for soil reconsolidation, for rolling after sowing and for seedbed preparation.

ADVANTAGES:

- + Easy, uncomplicated operation
- + Versatile use in arable and grassland
- + Can be mounted on the **GREEN.RAKE** expert

TECHNICAL DATA

Configuration		Empty weight in kg			Transport dimensions in m		
Working width	Ring type	Total	Axle load	Coupling load	Length	Width	Height
6.3 m	Cambridge Ø 460	2,480	1,760	720	5	2.5	1.7
	Cambridge Ø 550	3,400	2,520	880	5	2.5	1.7
	Toothed ring Ø 450/500	3,220	2,340	880	5	2.5	1.7

TERRA.ROLLER expert



ONE ROLLER. MANY POSSIBILITIES.

In the field, the **TERRA.ROLLER expert** heavy-duty roller impresses with uniform ground pressure and optimum adjustment to the terrain. The pressure is adjusted mechanically or hydraulically, depending on the equipment version. The **TERRA.ROLLER expert** can be equipped with a seeder for establishing flowering mixes and cover crops or reseeding grassland. The optional pre-tools of levelling bar, knife roller and tine attachment further expand the range of applications (more information from page 12). The compressed air brake system, also available as an option, ensures safe road travel.

ADVANTAGES:

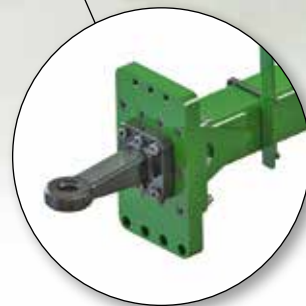
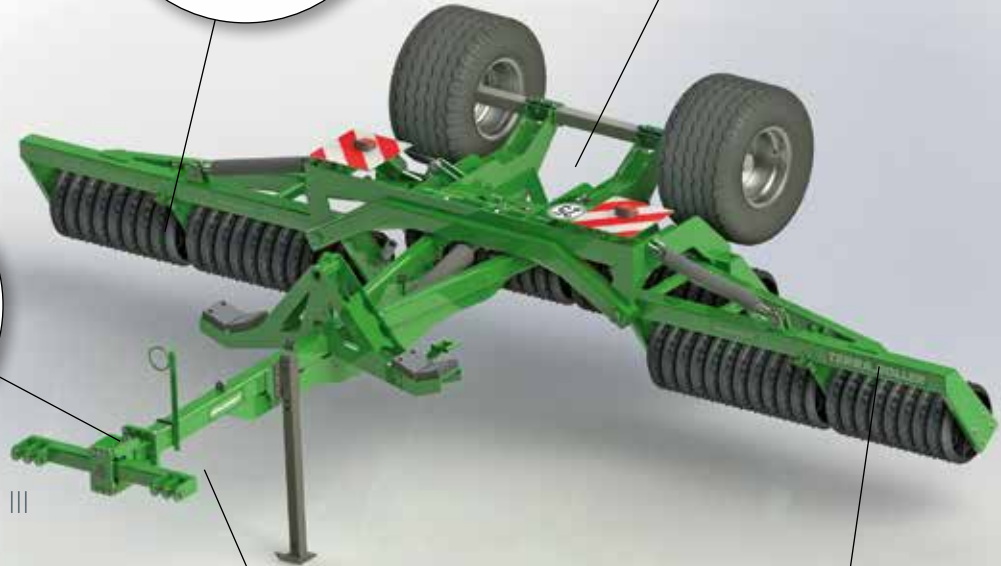
- + Very good ground adjustment
- + Uniform ground pressure
- + High weight
- + Low support load
- + Optionally available with seeder
- + Optionally available with pre-tools

Stable axle suspension with
through-running axle

50 mm triple
bearing shaft



Attachment in CAT II / CAT III



Conversion to towing eye
or K80 possible



Robust frame designed
for pre-tools



QUICK ASSIGNMENT

KENNFIXX® hose markers are
generally installed so that the hydraulic
plugs can be assigned to the correct
connections quickly and easily.

WELL DESIGNED DOWN TO THE LAST DETAIL:

Seeder

For spreading cover crops, for example, the **TERRA.ROLLER** expert can also be delivered with an optional seeder. The seeder can be retrofitted with a tread at any time.



Weight distribution

The pre-tensioned springs transfer the middle roller element's weight to the two outer surfaces and thus ensure an even distribution of ground pressure. This in turn leads to a uniform working pattern across the entire width.



Transport position

With a transport width of just 2.5 m, the **TERRA.ROLLER** expert can be moved comfortably and safely on the road. For axle loads of three tonnes or more, all rollers must be equipped with an air brake system in order to obtain approval for use in public road traffic.



THE RIGHT RING FOR EVERY APPLICATION.

The **TERRA.ROLLER** offers a lot of room for manoeuvre. That's why there are also different types of rings to choose from. To obtain the optimum solution for your soil conditions, you can choose between Cambridge and toothed ring elements in different sizes.



Cambridge elements

The Cambridge rings achieve both fine crumbling and good surface compaction. The large bearing clearance in the serrated ring, which moves irregularly in working mode, produces a self-cleaning effect and thus prevents the roller from sticking when used on heavy soils.

ADVANTAGES:

- + Promotes early and uniform seedling emergence
- + Prevents snail infestations
- + Protects young plants on windy areas from blowing away

POSSIBLE APPLICATIONS:

- On arable and grassland
- Reseeding and new seeding of grassland
- Intercropping
- Tillering stimulation

Toothed ring elements

The toothed ring elements break up heavy clods of earth due to their higher weight and aggressive structure. This makes the sowing layer quite fine for a depth of 2 to 3 cm and gives the seeds good soil contact. The coarse particles remaining on the surface prevent silting up, evaporation and drifting.

ADVANTAGES:

- + Supports the fight against pyralid moths by breaking up the maize stubble
- + Aggressive crushing of soil clods
- + Narrow structure and large number of tooth tips lead to intensive crumbling

POSSIBLE APPLICATIONS:

- On arable and grassland
- Reseeding and new seeding of grassland
- Intercropping
- Stubble cultivation

TECHNICAL DATA

	Cambridge		Toothed ring ²
Working width in m	6.3 / 7.7 / 8.3 / 9.3		
Transport width in m	2.5		
Roller diameter in mm	460	550	450 / 500
Weight per element pair in kg	22	35	32
Number of element pairs	Ten pairs per meter working width		
Total weight in kg	3,140 / 3,500 / 3,740 / 4,080	4,020 / 4,700 / 4,920 / 5,220	3,680 / 4,460 / 4,480 / 5,040
Axle load ¹ in kg	2,240 / 2,520 / 2,720 / 2,900	2,980 / 3,420 / 3,520 / 3,680	2,660 / 3,180 / 3,560 / 3,560

¹ Any **TERRA.ROLLER** over 3,000 kg total weight comes with a TÜV certificate to obtain a general operating permit (German ABE certification) as standard
Any **TERRA.ROLLER** with an axle load of more than 3,000 kg must be equipped with an air brake system for this purpose.

² The toothed rings are made of ductile iron.

TERRA.ROLLER expert with levelling bar



LEVELLING FIELDS.

The hydraulically adjustable levelling bar has been specially adapted to the **TERRA.ROLLER expert** professional roller and helps level and flatten the ground.

The tailor-made combination ensures better reconsolidation and crumbling of the soil, thus ensuring optimum seedbed preparation. The hydraulic cylinders move evenly into their working position, which can also be adjusted again and again while driving. The levelling bar is arranged in alignment, which prevents dam formation and guarantees an even working pattern. All **TERRA.ROLLER experts** can be fitted with a levelling bar at the factory. Retrofitting is also possible at any time.

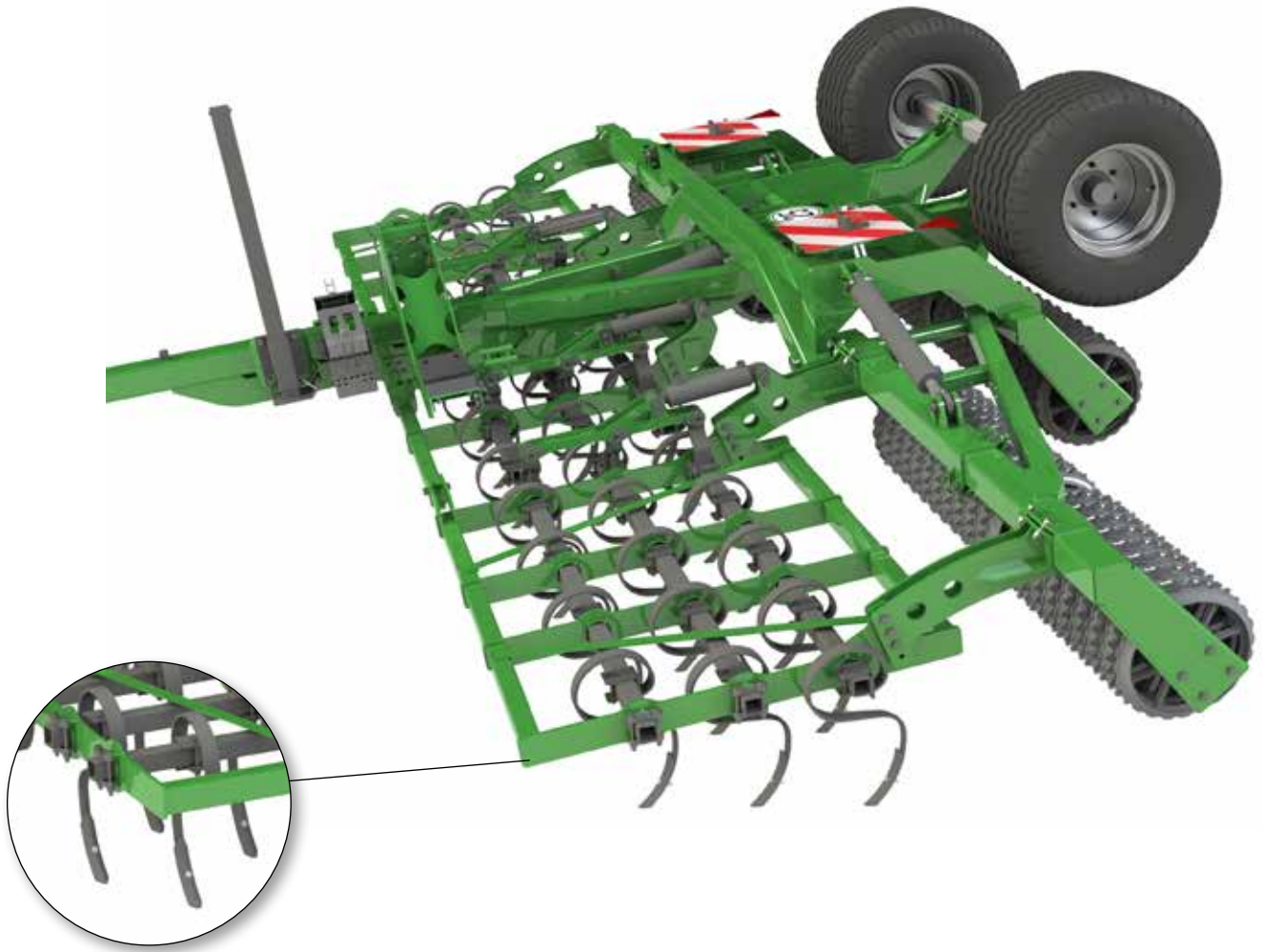
ADVANTAGES:

- + Reliable levelling and flattening of the ground
- + The levelling bar's working depth and angle are individually adjustable
- + Coupled hydraulic cylinders guarantee an even working depth
- + The aligned spring tines prevent undesirable dam formation

TECHNICAL DATA

Working width in m	6.3 / 7.7 / 8.3 / 9.3
Weight in kg	645 / 750 / 850 / 910
Tine dimensions in mm	10 × 80
Wear plate width in mm	175
Tine spacing in mm	250
Connectors	1 × double acting
Accessories	Automatic adjustment valves

TERRA.ROLLER expert with tine attachment



LOOSENS HEAVY SOILS.

The **TERRA.ROLLER** expert with tine attachment is suitable for seedbed preparation or stubble cultivation as well as stimulation germination in volunteer cereals. For this purpose, the depth of the three tine bars can be adjusted individually via a double-acting control unit. The tines swing into the soil and loosen it easily. All three tine bars are aligned and their aggressiveness can be adjusted together. If the tine attachment is not required, the tines can be swivelled completely upwards so that the roller can be used on its own.

TECHNICAL DATA

Working width in m	6.3
Weight in kg	935
Tine dimensions in mm	45 × 10
Tine spacing in mm	150
Tine bars	3 pieces
Connectors	1 × double acting
Accessories	Automatic adjustment valves

TERRA.ROLLER expert



IMPROVES FARM HYGIENE.

The issue of farm hygiene is becoming ever more pertinent due to increasingly extreme weather conditions and stricter regulations on the use of crop protection agents. The **düvelsdorf** knife roller for the **TERRA.ROLLER expert** provides an ideal and efficient solution here.

Whether it's for aphid control in maize stubble or for shredding cover crops, the powerful knife roller for the **TERRA.ROLLER expert** cuts up plant residues quickly and effectively. The knife rollers are suspended from the frame by means of rubber bearings. This absorbs minor shocks and vibrations and does not transfer them to the frame. The pretensioned hydraulic cylinders, the pressure of which can be individually adjusted, adjust the blade rollers to the ground.

TECHNICAL DATA

Working width in m	6.3
Transport width in m	2.5
Ring type	Toothed ring
Weight in kg	5,480
Knife roller diameter in mm	365
Blades in circumference	8 pieces
Theoretical cutting length in mm	143
Power requirement in hp	min. 160
Working speed in km/h	15 – 20
Tyres	500/50-17

ADVANTAGES:

- + High power:
Working speed 15 – 20 km/h
- + Optimised smooth operation due to offset blades
- + Individually adjustable contact pressure
- + Can be folded up hydraulically at any time
- + Blades manufactured from hardened boron steel

with knife roller

Optimum shredding

Cutting, crushing, breaking up – the knife roller as the preparation tool on the **TERRA.ROLLER expert** professional roller shreds plant residues reliably and efficiently with its eight rotating blades. The trailing roller then presses the biomass firmly to the ground.



Efficient use

The range of tasks performed by the **TERRA.ROLLER expert** with knife roller can be extended even further when combined with a **düvelsdorf** seeder. Cover crops are spread in one step, lightly worked into the soil by the knife roller and then pressed down.



Long-lasting blades

To ensure a long service life, the blades made of hardened boron steel are equipped with a cutting edge on both sides. This doubles the service life, as the individual blades can be turned quickly and easily.





Rake-roller combination w **GREEN.RAKE** expert +

WELL COMBINED.

The rake-roller combination consists of **GREEN.RAKE expert** and **TERRA.ROLLER** and combines the advantages of both machines. This makes it an all-rounder for arable and grassland. The rake and roller can be used together or independently of each other. This allows a higher rate of equipment use as well as complete processing in one operation, as the roller can be used individually in arable farming and the rake on its own in grassland. Coupling and uncoupling is quick and straightforward thanks to the attachment in the lower link hook. The combination is operated simply by two double-acting control units.

ADVANTAGES:

- + Low support load with large working width
- + Roller and rake can also be used independently of each other
- + Simple operation due to two double acting control units
- + Combined rake and roller can be suspended in a coupled state

POSSIBLE APPLICATIONS:

- Intercropping on cereals or maize stubble
- Stubble breakage and intercropping in one operation
- New planting of grassland in spring/late summer
- Complete restoration of grassland



Combination in public road traffic

On public roads, the roller must be equipped with an air-brake system and firmly mounted to the rake. The certificate required for road travel is supplied as standard with all combinations of **GREEN.RAKE** expert and air-braked **TERRA.ROLLER**, from a working width of 6 m upwards. All rollers and rake-roller combinations can be equipped to comply with the road traffic licensing regulations.



Front packer



PREPARED WITH PRECISION.

Moreover, the **düvelsdorf** front packer gives you a well-prepared seedbed and leaves your field ready for successful sowing. When the front packer passes over the soil, it reconsolidates the ground and breaks clods of soil into fine crumbs.

The reconsolidation prevents the tractor from sinking into the ground as much and reduces ruts. The front packer's half-shell toothed rings are made of high-quality ductile iron and have a high tare weight. In addition, scrapers are fitted between the rings to prevent sticking or clogging. The optional tine attachment, levelling bar and knife roller can be used to achieve supple-

mentary results, such as improved levelling of the seedbed or reduced weed pressure.

ADVANTAGES:

- + Higher yields through improved soil quality
- + Balanced weight distribution on the tractor due to high tare weight
- + Half-shell toothed rings made of ductile iron

WELL-DESIGNED DOWN TO THE LAST DETAIL:

Half-shell toothed rings

The half-shell toothed rings made of high-quality ductile iron allow spare parts to be easily assembled by individually screwing the elements together. This means that if one ring breaks, you don't have to dismantle the entire roller. This saves time and brings the machine back into use quickly.



Scraper for clean results

To prevent the half-shell toothed rings from sticking together, scrapers are fitted between the rings. This returns moist soil to the ground.



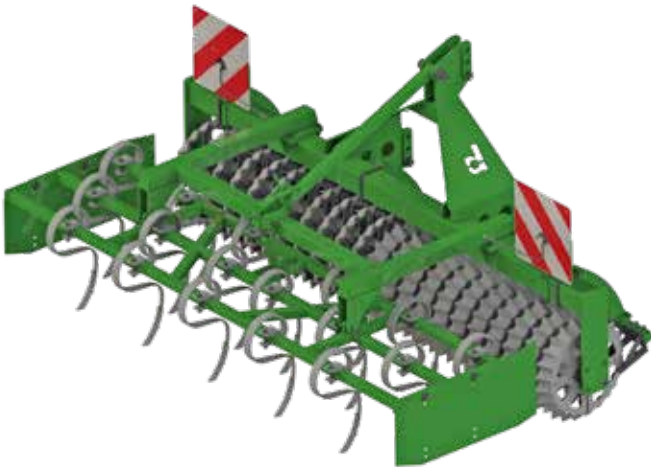
Lighting set for more safety

The optional lighting set ensures your trailer combination is safe to use in road traffic as well.



PREPARATION TOOLS FOR THE FRONT PACKER

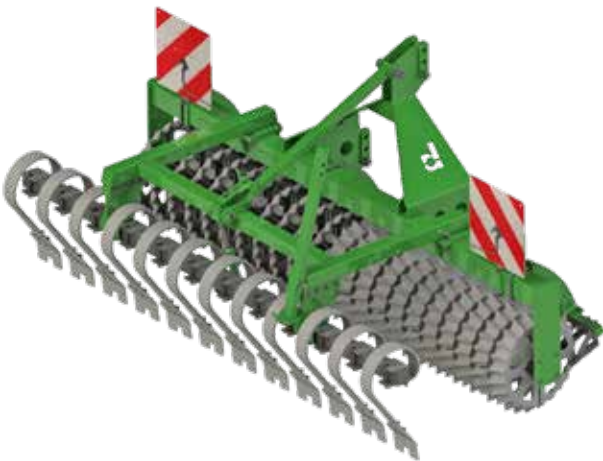
Front packer with tine attachment:



Loosen heavy soils

In regions with heavy soils, the spring tines help to loosen the soil and create a finely crumbled seedbed.

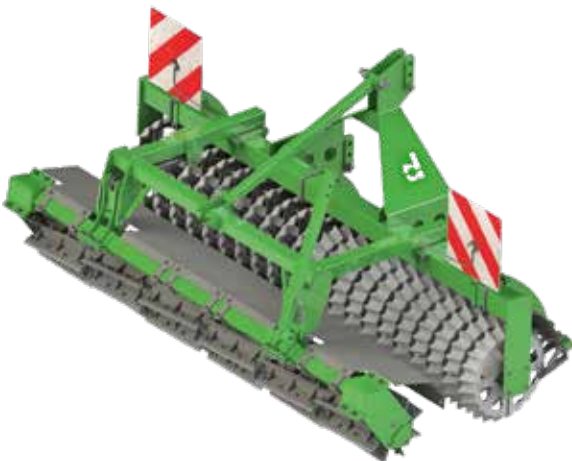
Front packer with levelling bar:



Even surfaces

On sandy soils, the levelling bar ensures a perfectly levelled seedbed with little effort.

Front packer with knife roller:



Improve field hygiene

Stubble and catch crops can be efficiently chopped and worked into the ground using the knife roller on the front packer. It supports other processes with a cultivator, disc harrow or plough and at the same time acts as a front weight on the tractor.

TECHNICAL DATA

	Front packer without prepara- tion tool	With tine attachment	With levelling bar	With knife roller
Working width in m	2.86	2.86	2.86	2.86
Length in m	0.9	1.8	1.53	1.47
Roller diameter in mm	565	565	565	565
Total weight in kg	875	1,130	1,150	1,385



Seeders



SEEDERS OVERVIEW

Function	ES4 Standard	ES 8 Standard	ES 8 Turbo	Lehner Vento	HS 8 Turbo	HS 12 Turbo
Control module	Profi	Profi	Profi	Vento	SEED.CON	SEED.CON
			SEED.CON	SEED.CON		
			Profi Speed			
Blower	Electric	Electric	Electric	Electric	Hydraulic	Hydraulic
Power consumption	10 A	10 A	25 A	40 A	5 A / 25 l / min- ute	5 A / 25 l / min- ute
Outputs	4	8	8	8	8	12
Hose diameter in mm	30	25	30	30	30	30
Calibration function	Yes	Yes	Yes	Yes	Yes	Yes
Weight in kg	35	50	65	67	110	150
Tank size in l	130	300	300	230	300	500
Dimensions in mm L × W × H	600 × 500 × 1,350	650 × 900 × 1,300	900 × 650 × 1,350	919 × 527 × 1,199	1,250 × 650 × 1,350	1,250 × 700 × 1,660
Maximum working width in m	3	6	6	6	8	9
Standard seed shafts	25	15	15 / 25	Complete set	15 / 25	15 / 25
Suitable for	Grass seeds + small seeds	Grass seeds + small seeds	Grass seeds + various intermediate crops	All seeds	All seeds	All seeds



ACCURATE SOWING.

The right technology for every application – that's our motto. That's why we offer different seeder versions with varying functions to meet almost any requirement.

The table on page 22 gives you an overview of what's on offer. Four different controls are available for the seeders, Profi, Profi Speed, **SEED.CON** and the Lehner Vento control.

The ES 4 Standard, the ES 8 Standard and the ES 8 Turbo with Profi control are intuitive to operate thanks to their simple and practical controls.

This allows the seeder to be easily switched on and off from the cab, the spread rate to be continuously adjusted and a calibration test to be carried out. The **SEED.CON** control module works wirelessly and offers a range of features, such as speed-dependent seed application, as well as hectare and hour counters.

The user-friendly interface on your own smart-phone or tablet makes the control even more practical and simple. All settings can be made either from the cab or directly on the seeder. Further advantages of the **SEED.CON** control system are the quantity control during operation and the additional operation via an ISOBUS terminal.

ADVANTAGES:

- + Sowing close to the ground, less sensitive to wind compared to disc spreaders
- + Exact lateral distribution
- + Spreading in large working widths
- + High tank volume (up to 500 litres)

Convenient to adjust

The **SEED.CON** control's intuitive user interface makes it particularly convenient to set up your seeder.



Machines and equipment for agriculture and forestry.

In addition to arable products, **düvelsdorf** offers a wide range of machinery for agriculture and forestry. An overview of the entire product portfolio can be found in the current **düvelsdorf** product catalogue. If you are interested, please ask your local dealer.



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