

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*



ALL-ROUND VERSATILITY.

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 2.5 m, 3 m and 6.3 m. The **TERRA.ROLLER eco** in 2.5 m and 3 m has a CAT I / II attachment hitch to ensure varied use at the rear or in front. The larger version at 6.3 m is

offered as a semi-mounted roller. The machine is excellent for reconsolidating soil, rolling after sowing and rolling the crop for better tillering.



ADVANTAGES:

- + Versatile use in agriculture and grassland
- + Attachment to the **GREEN.RAKE expert** possible
- + Robust, powder-coated frame

TECHNICAL DATA			
	Cambridge elements		Toothed ring elements
Working widths in m	2.5 / 3 / 6.3		
Transport widths in m	2.5 / 3 / 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	760 / 830 / 2510	1050 / 1200 / 3400	990 / 1130 / 3220
Axle load in kg	- / - / 1780	- / - / 2520	- / - / 2340

ACCESSORIES FOR THE **TERRA.ROLLER eco**:



Versatile use

The **TERRA.ROLLER eco** can be combined with the **GREEN.RAKE expert** rake to offer versatile application options such as planting flowering seed mixes along field margins, intercropping or cultivating grassland.

Available as toothed ring or Cambridge roller

For optimal 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 8.



TERRA.ROLLER expert



ONE ROLLER. COUNTLESS POSSIBILITIES.

In the field, the **TERRA.ROLLER expert** professional roller impresses with uniform ground pressure and optimum adjustment to the terrain. Even at first glance, the three-part earth roller scores points with its particularly robust frame. 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 margins, catch crops or reseeding grassland. The optional preparation tools of levelling bar and knife roller further expand the range of applications (more information from page 10). The compressed air brake system, also available as an option, ensures safe road travel.

ADVANTAGES:

- + Perfect ground adjustment
- + Uniform ground pressure
- + Robust frame
- + Low support load
- + Optionally available with seeder
- + Optionally available with preparation tools

If the **GREEN.RAKE expert** is combined with the **TERRA.ROLLER**, it must be equipped with an air brake system in order to obtain a TÜV certificate for obtaining the general operating permit (German ABE certification).



THE RIGHT RING FOR EVERY APPLICATION.

The **TERRA.ROLLER expert** offers a lot of room for manoeuvre. So 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 surfaces from being blown 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 elements		Toothed ring elements ²
Working widths in m	6.3 / 7.7 / 8.3 / 9.3		
Transport widths 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	3140 / 3500 / 3740 / 4080	4020 / 4700 / 4920 / 5220	3680 / 4460 / 4480 / 5040
Axle load ¹ in kg	2240 / 2520 / 2720 / 2900	2980 / 3420 / 3520 / 3680	2660 / 3180 / 3560 / 3560

¹The air-braked axle with 500 / 50 - R17 tyres is standard from an axle load of 3 t.

²The toothed rings are made of ductile iron.

WELL DESIGNED DOWN TO THE LAST DETAIL:

Seeder

The **TERRA.ROLLER expert** can also be optionally supplied with a 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 conveniently and safely on the road. The **düvelsdorf** professional roller must be optionally equipped with an air brake system from an axle load of three tonnes in order to be able to obtain approval for public road traffic.



TERRA.ROLLER expert



with levelling bar

LEVELLING BAR 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-action
Accessories	Automatic adjustment valves

PAVE THE WAY.

The hydraulically adjustable levelling bar has been specially adapted to the **TERRA.ROLLER expert** professional roller. 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:

- + 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



Conveniently adjust the working depth

The optionally available automatic adjustment valves ensure the exact parallel positioning of the three segments each time the bar is folded in.

Even levelling

The even distribution of the soil ensures a neat seedbed and thus precise placement of the seed. This creates ideal conditions for the growth of your emerging plants.



TERRA.ROLLER expert

with knife roller



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 catch 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 pre-tensioned hydraulic cylinders, the pressure of which can be individually adjusted, adjust the knife rollers to the ground.

ADVANTAGES:

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

TECHNICAL DATA

Working width in m	6.3
Knife roller Ø in mm	365
Knives in circumference	8 pieces
Theoretical cutting length in mm	143

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 8 rotating knives. 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. Catch crops are spread in one step, lightly worked into the soil by the knife roller and then pressed down.

Long-lasting knives

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



GREEN.RAKE allround:



WELL COMBINED.

The **GREEN.RAKE** allround combination consists of **GREEN.RAKE expert** and **TERRA.ROLLER expert** 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 to be achieved, 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-action control units
- + Combined rake and roller can be suspended in a coupled state

GREEN.RAKE expert + TERRA.ROLLER expert

Combination in public road traffic

On public roads, the roller must be equipped with 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 or retrofitted to comply with the road traffic licensing regulations.



Suspension

The rake/roller combination can be suspended in both the transport and working positions.

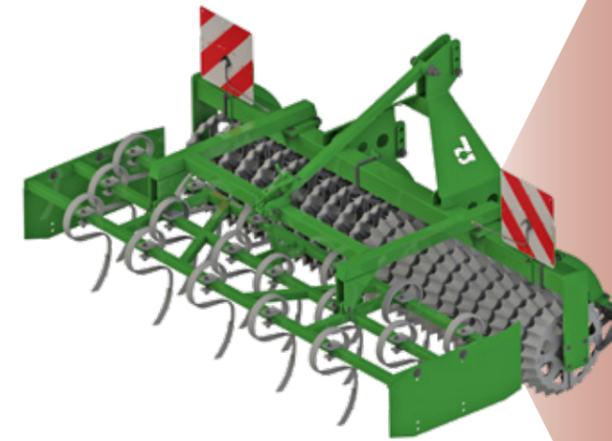
POSSIBLE APPLICATIONS:

- > 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

Front packer



PREPARATION TOOLS FOR THE FRONT PACKER:



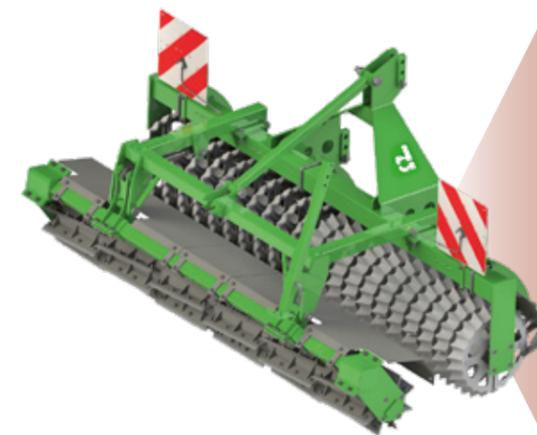
Loosen heavy soils

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



Even surfaces

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



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 processes with a cultivator, disc harrow or plough and at the same time acts as a front weight on the tractor.

PREPARED WITH PRECISION.

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 is perfectly reconsolidated and clods of soil are broken 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.

ADVANTAGES:

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

Seeders



ACCURATE SOWING.

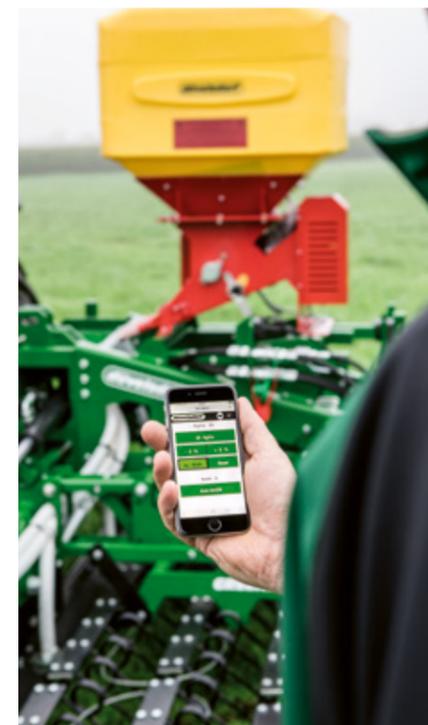
The right technology for every application – that’s our motto. That’s why we offer different seeder versions with varying functions to meet almost any requirement. The table on page 19 gives you an overview of what’s on offer. Two different controls are available for the seeders. The ES 8 Standard Profi and 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 dosage, as well as hectare and hour counters. The user-friendly interface on your own smartphone 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)

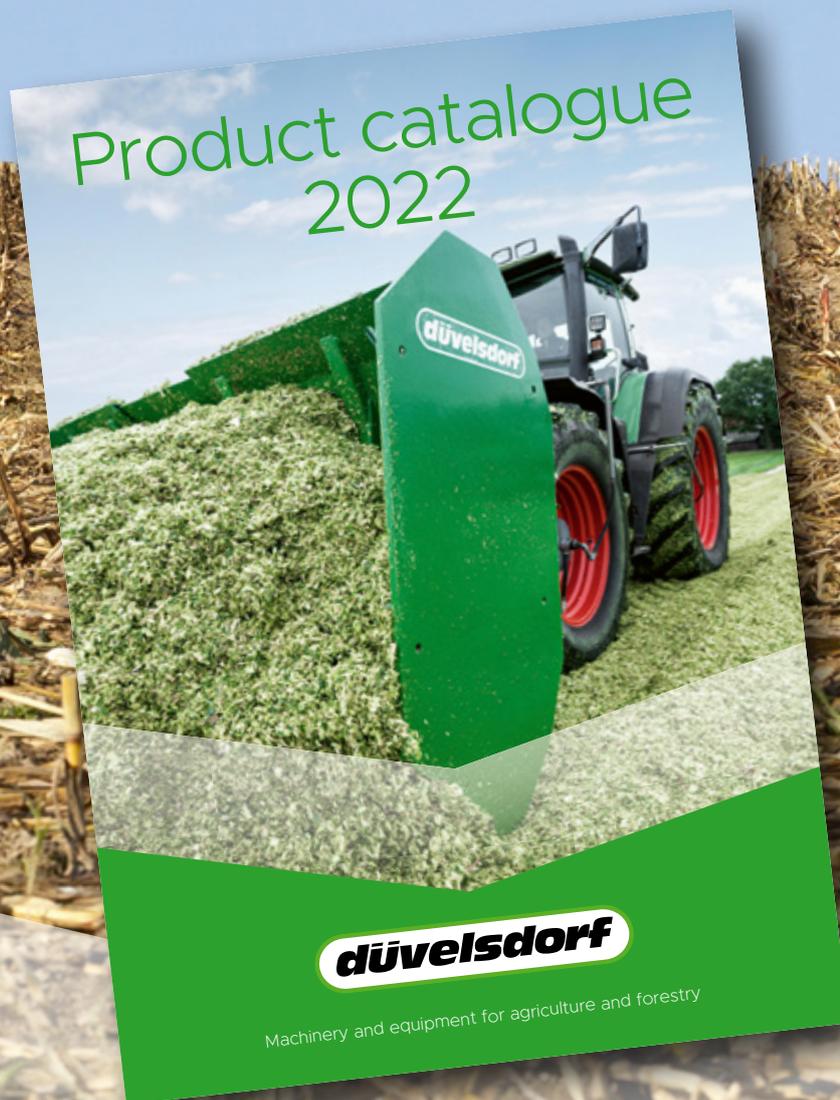
SEEDERS OVERVIEW					
Function	ES 8 Standard	ES 8 Turbo	Lehner Vento	HS 8 Turbo	HS 12 Turbo
Control module	Profi	Profi	Vento	SEED.CON	SEED.CON
		SEED.CON			
		Profi Speed			
Blower	Electric	Electric	Electric	Hydraulic	Hydraulic
Power consumption	10 A	25 A	40 A	5 A / 25 l / minute	5 A / 25 l / minute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



The **SEED.CON** control’s intuitive user interface makes setting your seeder particularly convenient.

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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