SOWING

POWER HARROWS
SEEDBED CULTIVATORS
DRILL TECHNOLOGY

RABE

ALL YOU NEED FOR SOWING

www.rabe-gb.de

INDEX OF CONTENTS

CORVUS PKE

A well-proven and modern tool. . . . . Page 4 - 5

CORVUS VKE

The heavier version of the RABE power harrow . . . . . Page 6 - 7

CORVUS PKE K / VKE K

The folding RABE power harrows, a family of good provenance . . . . . Page 8 - 9

CORVUS ADDITIONAL FEATURES

Additional features . . . . . Page 10
Packer rollers for RABE power harrows. . . . . Page 11

STORMBIRD

The well-proven RABE Seedbed cultivator . . . . . Page 12 - 13

ECODRILL

RABE ECODRILL SL / PL. . . . . Page 14
RABE ECODRILL SLA / PLA:. . . . . Page 15
Additional features . . . . . Page 16 - 17

TURBOSEED

RABE TURBOSSED SL / PL . . . . . Page 18
RABE TURBOSSED PRO. . . . . Page 19
Dosage for the RABE TURBOSEED . . . . . Page 20 - 21
Additional features . . . . . Page 22 - 23
Seed placement systems for every need . . . . . Page 24 - 27

A WELL-PROVEN AND MODERN TOOL

The Corvus PKE is the successor model of the old RABE RKE, which by now has achieved a legendary reputation in terms of longevity and reliability. This power harrow is designed for tractors with an output of up to 130 kW (180 hp) or in the alternative version with torque limiter clutch for tractors with up to 155 kW (210 hp).

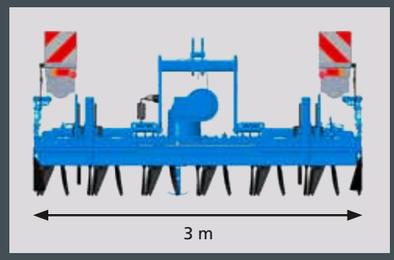
STANDARD EQUIPMENT

- 4 rotors per meter
- KG-30 bolted tine
- gearbox with changeable gears for varying tine rotation speed
- for 1000 PTO speed (rpm)
- spring-loaded and telescoping side plates
- solid carrier for track eradicators (included in standard version)
- twin section lower link mounting (Q-fit), Cat. II and III

CORVUS PKE	2511	3011	3511	4011
Working width (m)	2,5	3	3,5	4
Transport width (m)	2,5	3	3,5	4
Tractor power max. (HP)	180			
Weight (kg)	1.282	1.460	1.665	1.865
Number of rotors	10	12	14	16
Multi-Fix quick change tines	optional	optional	optional	optional

Tine bearings have a large spacing between the trough and the cover for greater strength.

Telescoping and spring-loaded side plates.



Working width 3.00 m = transport width 3.00 m (exactly!).

Solid tower with attachment points Cat. II and III.

Round tine-holders and front wrap-around tine holder protection bar = no stone jamming.

THE LARGE VERSION OF THE RABE POWER HARROW

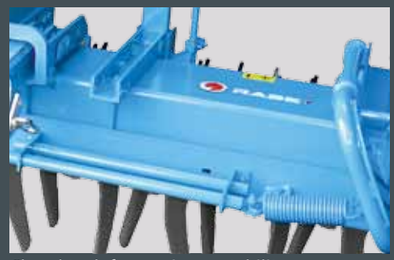
The Corvus VKE - outstanding reliability and RABE power harrow technology for the most demanding conditions. This tool is designed for tractors with an output of up to 200 kW (280 hp).

STANDARD EQUIPMENT

- 4 rotors per meter
- KG-41 bolted tines
- Gearbox with changeable gears for varying tine rotation speed
- for 1000 PTO speed (rpm)
- PTO-shaft with torque limiter clutch
- Spring-loaded side plates
- Solid carrier for track eradicators (option)
- Lower link mounting (Q-fit), Cat. II, Cat. III or Cat. IV n

CORVUS VKE	3000	4000
Working width (m)	3	4
Transport width (m)	3	4
Tractor power max. (HP)	280	
Weight (kg)	1.530	2.034
Number of rotors	12	16
Multi-Fix quick change tines	optional	optional

Solid cast metal housing for the taper roller bearing in the bottom of the closed tank with safely inserted nuts. tine shaft and pinion with front profile interlocking.



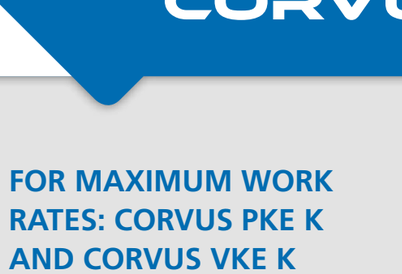
Closed tank for maximum stability.

Double-sided, Cat. II to Cat. I N.

Solid tower for large mounted or extension equipment.

FOR MAXIMUM WORK RATES: CORVUS PKE K AND CORVUS VKE K

The Corvus PKE K, the hydraulically folding version, is available with up to 6.00 m working width and can be operated with tractor power of 185 kW (250 hp) or less.
The large Corvus VKE K is available with a working width of up to 8.00 m and for tractors with an output of up to 280 kW (380 hp).



PKE K: Solid support frame and powertrain PTO-shaft with torque limiter clutch in the median PTO-shaft.

Exclusive for the VKE K: lever change gear box (3 speeds) with torque limiter clutch to the lateral PTO-shafts

STORMBIRD	PKE K				VKE K				
	4000K	4500K	5000K	6000K	4000K	4500K	5000K	6000K	8000K
Working width (m)	4	4,5	5	6	4	4,5	5	6	8
Transport width (m)	3	3	3	3	3	3	3	3	3
Tractor power max. (HP)	250				300	300	300	380	380
Weight ab (kg)	2900	3270	3620	4350	2120	2308	2896	2868	3620
Number of rotors	16	18	20	24	16	18	20	24	32
Multi-Fix quick change tines	X	X	X	X	X	X	X	X	X
Hydraulic folding	X	X	X	X	X	X	X	X	X

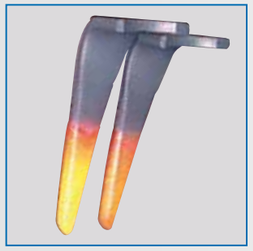
ADDITIONAL FEATURES OF RABE POWER HARROWS

By choosing additional features you can adjust the RABE power harrow to your specific needs.

Bolted oval tines = trailed position.

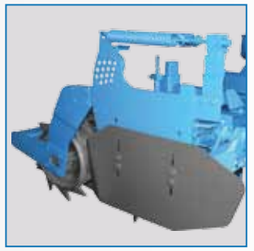
Multi-Fix quick fit tines, also retrofittable.

Multi-Fix Q-fit tines, trailed or 'on grip' position (PKE).

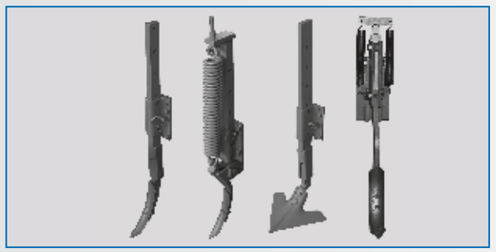


RABID - hard coating possible for all tines, up to 3 x longer tool life.

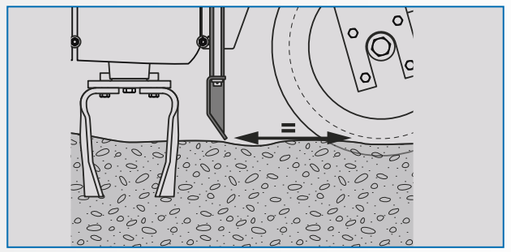
Hydraulic three-point linkage "Drill-Lift," available for all Corvus models.



Setting of working depth on roller arm, spring-loaded roller stabiliser for stony soils.



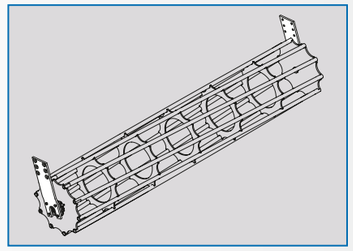
Track eradicator, rigid or spring-loaded, duckfoot share and spring-loaded tine "Ramat".



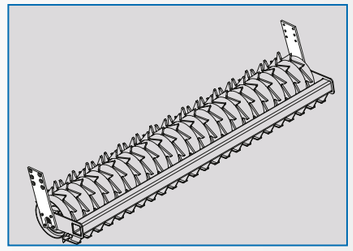
Freely adjustable clod board upgrades soil crumbling on heavy soils.

PACKER ROLLERS FOR RABE POWER HARROWS

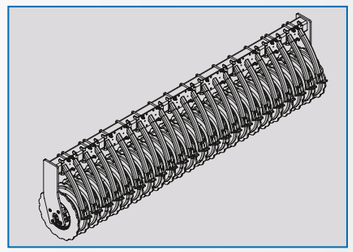
The right packer roller for every soil.



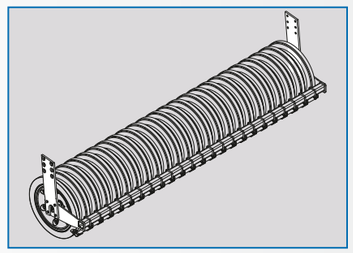
Depth control with low reconsolidation.



Universal use for all soils, continuous reconsolidation and good bearing capacity.



Reconsolidation in strips, especially suitable for mulched soils, medium bearing capacity.



Furrow-accentuating reconsolidation, favourably for dry sites, for in-line sowing.

THE WELL-PROVEN RABE STORMBIRD

For simple seed bed cultivation on a working width of 3.00 to 9.00 m.

STANDARD EQUIPMENT

- working elements 1.5 m wide respectively
- 4 different tine options
- spring-loaded front hydraulic tine levelling board
- short, compact structure

Setting of working depth of the tines via Parallelogram and gradually adjustable hole matrix.

Stone-protected and maintenance-free ball-bearing, central lubrication by request.

Attachment points in Cat. III / III n / IV, Cat. II optional.

STURMVOGEL	3001 L	4501 L	6001 L	4501 LS	6001 LS	7500 L	9000 L
Working width (m)	3	4,5	6	4,5	6	7,5	9
Transport width (m)	3	3	3	3	3	3	3
Tractor power max. (HP)	112	135	180	135	180	200	240
Weight ca. (kg)	957	1584	1774	2293	2666	2945	3440
with crosskill roller				X	X		
with double crumble roller	X	X	X			X	X

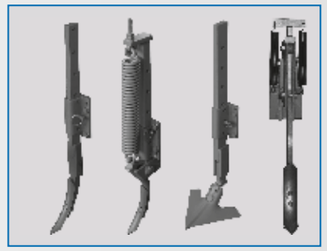
RABE STORMBIRD VERSIONS

By choosing the appropriate version you will enable the Stormbird to be tailored to specific applications.

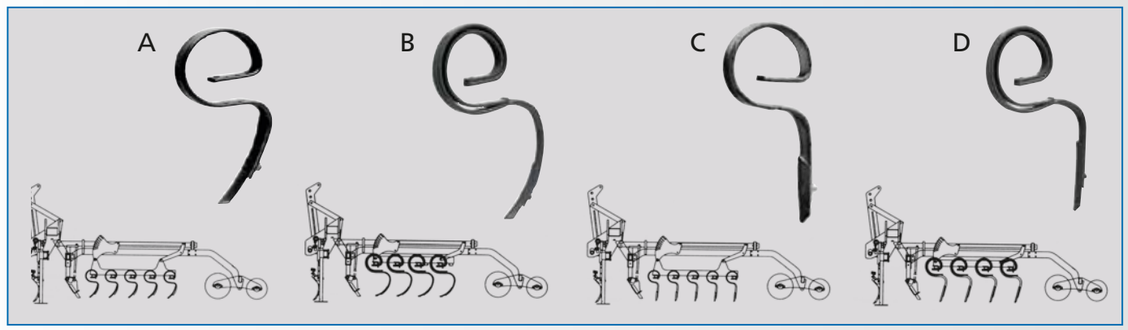
Working width of 3.00 to 9.00 m with 1.5 m wide elements respectively.

Double crumble roller with diameter of 33 cm (front) and 27 cm (rear).

Large crosskill roller (single-furrowed, diameter 44 cm) only available for Stormbird LS with 4,5 or 6.0 m working width.



Track eradicator, rigid or spring-loaded, optionally also for the entire working width (6m).



A. flexible tines (32 x 10) 5 rows, length 285 mm, distance between tines 60 mm
B. reinforced double spring tines (32 x 12) 4 rows, length 410 mm, distance between tines 94 mm
C. straight tines (32 x 10) 5 rows, length 285 mm, distance between tines 60 mm
D. cultivating tines (32 x 12) 4-reihig, length 410 mm, distance between tines 94 mm

RABE ECODRILL SL / PL:

A solid and elaborate series, which is both timesaving and userfriendly.

ECODRILL SL/PL offers true versatility: it can be deployed as a stand-alone machine or in combination with a harrow. Even the standard version is equipped with technical features of high quality:

- Robust, one-piece seed tank and stable double frame.
- More precise in seed placement due to the new seeding units and the "double-acting" coulter pressure adjustment
- Drive of seeding shaft via both wheels of the seed drill.
- Easy calibration test performed when seed driller is turned off.
- A safe loading platform at the rear which is attached to the frame of the seed driller, a sealed tank cap with gas pressure shock absorbers, transverse walls on the container bottom for fine seeds.

Typ	ECODRILL SL		ECODRILL PL				ECODRILL SL A		ECODRILL PL A			
Working width (m)	3		3		4		3		3		4	
Tank volume (l)	450 (700l)		800 (1.000)		1.100 (1.350)		550 (800)		800 (1.000)		1.100 (1.350)	
Number of rows	21	25	21	25	29	33	20	24	20	24	28	32
Distance between rows (cm)	14.2	12	14.2	12	13.7	12	15	12.5	15	12.5	14.3	12.5
Loading opening (cm x cm)	48 × 225		64 × 225		64 × 325		48 × 225		64 × 225		64 × 325	
Loading height (cm)	143		143				160		169			
Weight (kg) (ca.)	550		550		850		650		700		850	

Propulsion via both wheels with freewheel.

RABE ECODRILL SLA / PLA:

Outstanding technology and efficiency - not complicated at all.

The seed tank of the ECODRILL SLA / PLA is mounted at the very front, which results in a favourable distance of the centre of gravity to the tractor so that less power is needed for digging. As a result, a particularly large seed tank is possible. Here are some further arguments why you should choose the technology this tool offers:

- No wheel tracks on the crop area.
- The largest tank opening width (640 mm ECODRILL PLA) available at this drill level.
- Greater precision in seed placement with the new seeding units and the "double-acting" coulter pressure adjustment for classic coulters or UNIDISC coulters.
- If you choose the RABE Corvus as power harrow, you cna either get the support of the attachment to the supporting arms of the big packers or the wedge ring roller.
- For a more uniform seed placement.

DISTRIBUTION WITH RABE CAM WHEELS: QUICKLY ADJUSTABLE, FLEXIBLE AND ABOVE ALL, PRECISE.

Precise dosage and gentle seed treatment. The slowly rotating agitator shaft gently carries the seeds to the two-piece cam wheels. Depending on the type of seed, they are either drilled by both or only the small cam wheel for fine seeds. The settings therefor are controlled with a cotter pin.

Sowing coulters can be found from page 24 onwards.

Simple and accurate calibration tests with excactly reproducible values. A split tank with discharge opening is easy to mount, wheel drive with freewheel, thus can be trimmed when standing still.

Simple deactivation of half the working width with an even number of drill lanes per tramline distance.

Solid loading platform with handrail and large lid opening (480 / 640 mm).

Medion:
Automatic tramline control, speed indicator, hectare counter.

Ultron:
Automatic tramline control and additionally: Seed rate control on the move (10% steps), Tank sensor, Calibration system for simple calibration testing.

Option: wheels in size 264 x 760 mm,
Attention: Transport width > 3,00 m!

	ECODRILL SL	ECODRILL PL	ECODRILL SLA	ECODRILL PLA
Cat 2	•	•	–	–
Floating hitch	○	○	–	–
Automatic “A-frame” coupling	–	–	□	□
Attachment to RABE roller support arms	–	–	□	□
1/2 width disengagement (LH))	•	•	•	•
Drill level indicator	•	•	•	•
Tractor Track eradicators (spring tines) (1)	○	○	–	–
Drill track eradicators	○	○	–	–
Centralised pressure adjustment (handle)	•	•	•	•
Seed level indicator	•	•	•	•
Metering disengagement indicator	•	•	•	•
Hopper bottom with separating baffles	•	•	•	•
Anti-compaction baffle	○	•	•	•
Continually rotating variator and setting slide-rule	•	•	•	•
Calibration trays with emptying hatches	•	•	•	•
Mechanical hectaremeter	○	○	○	•
Loading platform	•	•	•	•
Hopper extension	○	○	○	○
Tyres ø 722 x L164 - (3m)	•	•	–	–
Tyres ø 760 x L264 - (3m) (4m)	–	○ (3 m) • (4 m)	–	–
Driven by ø760 mm sun landwhee	–	–	○	○
Tramlining controls:				
- electronic MEDION	○	○	○	○
- electronic ULTRON	○	○	○	○
Drilling units:				
- LS 2.20: 2 rows of Suffolk coulters	□	□	□	□
- LS 2.30: 2 rows of UNIDISC	□	□	□	□
Extra drilling pressure behind the wheels	•	•	–	–
Adjustable wheel scrapers	•	•	–	–
Hydraulic side markers (1 SA):				
- centreline marking and vertical folding	○	○	○	○
Adjustable following harrow:				
- with straight tines	□	□	□	□
- with levelling tines	□	□	□	□
40 mm consolidation wheels	○	○	○	○
Hydraulic lift for the coulter bar	○	○	○	○
Pre-emergence markers (with discs)	○	○	○	○
Full road lighting kit	○	○	○	○
Rear reflectors (french road legislation)	○	○	○	○

• Standard
○ Optional
□ Specify on order

RABE TURBOSSED SL / PL / PRO

Professional pneumatic drill technology of the highest quality.

The new TURBOSEED series revives RABE's program of pneumatic seed drills. Besides its modern design the TURBOSEED stands out due to its high level of innovation and performance.

- Very precise dosage and high accuracy of distribution thanks to a unique design.
- Innovation: intelligent distributor head equipped with the new ADS system.
- High work rates due to high container volume and customised coulter systems that can be perfectly tailored to the respective cultivation method.
- Great ease of use.

TURBOSEED SL: Maximum performance!

Classic or universally applicable coulter system:
You have the choice between drag coulters or UNIDISC disc coulters (with or without press roller).

- mechanic dosage drive via star wheel
- hydraulic fan drive with priority valve
- 3.0 m or 4.0 m working width
- 1000 l tank capacity

TURBOSEED PL

The container volume and comfort will amaze you!
Classical or universally applicable coulter system:
You have the choice between drag coulters or disc UNIDISC coulters (with or without press roller).

- mechanic dosage drive via star wheel
- hydraulic fan drive with priority valve
- 3.0 m or 4.0 m working width
- 1000 l or 1800 l tank capacity

TURBOSEED PRO
For quick sowing under all conditions!

"Top-of-the-range" CULTIDISC drilling system using aggressive fluted discs with forced depth control, each one offering up to 80 kgof pressure.
Ultra-equipped standard equipment: PILOT console in cabin withe lectrically-driven metering unit and hydraulically-driven fan; Rear levelling harrow with heavy tines.

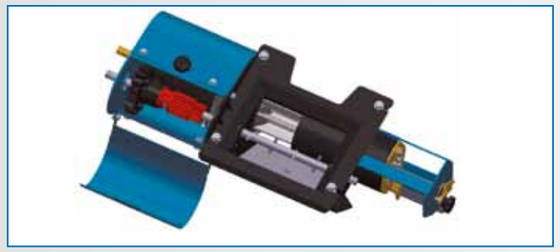
- same as Turboseed PL, but with
- CULTI DISC coulter system for up to 80 kg coulter pressure
- ideal for conventional and mulch drilling
- depth limiter roller and press roller

Modell	TURBOSEED SL				TURBOSEED PL				TURBOSEED PRO	
Working width (m)	3.00		4.00		3.00		4.00		3. 00	4.00
Tank volume (l)	1000		1500		1500		1800		1500	1800
Number of rows	20	24	28	32	20	24	28	32	20	28
Distance between rows (cm)	15	12.5	15	12.5	15	12.5	15	12.5	15	14.3
Loading opening (cm x cm)	86 x 192				86 x 192		86 x 251		86 x 192	86 x 251
Loading height (cm)	197		215		215		219		210	210
Weight min/max (kg) (ca.)	815/1135		1085/1432		850/1170		1085/1430		1530	1950

DOSAGE: TOP PERFORMANCE WITH UTMOST PRECISION!

Depending on the intended use and soil conditions you can choose between Suffollk or disc coulters in three rows.

- Universal metering unit: sows all seed types from OSR to beans without changing the splines; changing from small to large seeds isdone through clutching and only takes a few seconds. 100% RABE technology, the metering unit provides record-breaking performance: from 1 to 450 Kg/ha at 8 km/h for wheat.
- Accessibility and ergonomics: all adjustments have been centralised around the metering unit for rapid calibration testing without disassembly; complete emptying of the hopperonly takes a matter of seconds thanks to an ingeniously placed flap.
- More air: all XEOS models have a slow-speed 6-inch extra-large fan. Silent and producing large volumes of air, it is fitted with alarge diameter air intake with air filter as standard. Objective: ensure that seeds always hit their target whatever the size and whatever the quantity! The hydraulic drive (option on MD version) makes operation more convenient.



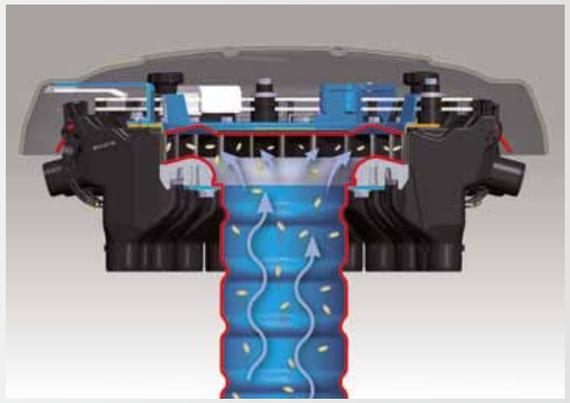
The double-notched tapered sleeve at the end of the RABE universal metering wheel provides both control of very low doses and better seed distribution.

Express draining up to the last kilogram.

DOSAGE AND DISTRIBUTION NEEDS A TIDY DISTRIBUTOR HEAD!

Easily modify the number of rows sown using the leveron each distribution head outlet.

Concept of active turbulence: In the long loop, air and seeds are perfectly and evenly mixed; the unique design of the interior of the distributor head without percussion areas guarantees a smooth and rapid grain flow. The result is an exceptional accuracy of distribution under all conditions, even on slopes.



- The ADS system gives you full control over the number of rows sown (every 2nd or 3rd row, 2 x 2 or 2 x 3 row tramlining, etc.) thanks to the individual flap covers integrated with the distribution head. These flaps also allow the tramlining track to be changed if needed.
- From the cabin: symmetrical or assymetrical tramline controland“half-drill” shut-off*; during tramlining, valve (mechanical version) orpatented plug-controlled seed return into tank. The original design of these valves (vent system) prevents any disturbance within the head whether the valves are open or closed, thereby guaranteeing reliable distribution in all circumstances.
- The distribution in rows is excellent according to the criteria of the DLG. Even with very sensitive seeds such as peas or rapeseeds.

You can change the number of sown rows at will due to the lever at each outlet of the distributor head .

Specific in-depth placement of the grain via the exclusive air duct, which prevents recoiling of the grain, and with coulter with flattened cap, which protects the falling grains from the rotating disc and prevents them from being thrown out of the furrow.

ADDITIONAL FEATURES FOR RABE TURBOSEED

The appropriate accessories will make the RABE Turboseed your perfect fit.

Pre-emergence marker with discs.

Support for easier coupling and uncoupling of the harrow onto the drill when necessary.

Side markers with hydraulically operated vertical position.

Following harrow for the best possible coverage of the seeds; now it is easier to adjust the contact pressure as well as the tilt angle so that they can be perfectly adjusted for any application. Straight or 'elbow' tines, depending on choice of version.

Sowing coulters can be found from page 24 onwards.

Large-volume 6-inch fan with large air suction and air filters for optimal fan functioning in very dusty environments.

ELECTRONIC CONTROL CONSOLES BY RABE

You can monitor the most important functions from the tractor seat by using the convenient ULTRON console available for the RABE Turboseed SL.
The PILOT console for Turboseed PL and PRO offers a significant additional value, amongst others due to the electronic seed rate adjustment function.

	ULTRON	PILOT
Tramlining	•	•
STOP button	•	•
(stops tramlining)	•	•
Area meter	•	•
(part and total)	•	•
Forward speed	•	•
Rotation alarm	•	•
and fan speed display	•	•
Distribution mechanism rotation alarm	•	•
Low seed level alarm	•	•
On-screen display of application rate/ha		•
Monitoring calibration test		•
Manual application rate adjustment		•
(10% increments)		•
1/2 drill shut-off from cabin		•
End land management functions		•
Manual stoppage of distribution		•

RABE TURBOSEED

RABE drill technology at its best!
The technical data and equipment of the different RABE Turboseed versions

Modell	TURBOSEED SL	TURBOSEED PL	TURBOSEED PRO
Parking stands	•	•	•
Automatic triangular hitch	•	•	-
Adaptors(1)	□	□	□
Coulter bar with packer roller linkage	○	○	•
Fan with 1,000 rpm mechanical drive Hydraulically driven fan and pressure test gauge	•	•	•
Offset fan air filter	•	•	•
Wide-opening v-type cover	•	•	•
Screen	•	•	•
Electronic low seed level alarm	•	•	•
Rapid hopper discharge flap	•	•	•
Universal metering unit with integrated ADS	•	•	•
Electrically driven metering mechanism with PILOT console, 10 kg weight indicator and disengaging half drill in the cab (right)	□	•	•
Electronic console	ULTRON	PILOT	PILOT
Manual 1/2 drill shut-off (right)	•	•	-
2x3 row tramline control (2x2 rows as standard)	○	○	○
Electronic hectare counter	•	•	•
Rear pre-emergence markers	○	○	•
Side markers with vertical folding mounted to drill.	○	•	•
Deck with access ladder	•	•	•
UNISOC 3-row drill	□	□	-
UNIDISC 2-row drill	□	□	-
UNIDISC 2-row drill + depth wheels (UNIDISC R+)	□	□	-
80 kg CULTIDISC 2-row drill	-	-	•
Depth control adjustment (DE)	○	○	-
Covering harrow with straight tines	•	•	-
Covering harrow with levelling tines	○	○	•
Reflective plates + road lighting	○	•	•
Hopper lighting and work lights	○	○	○
Scrapers at depth control wheel	-	-	○

(1) Specify the harrow make and model

• Standard
○ Optional
□ Specify on order

SEED PLACEMENT SYSTEMS FOR EVERY NEED

Depending on the intended use and soil conditions you can choose between three-furrowed drag or disc coulters

ECODRILL

UNISOC 2R with two coulter rows

- Seed placement via 2 coulter rows with a coulter pressure from 0 up to 20 kg thanks to the "double-acting" coulter pressure adjustment.
- Upon request: 40 mm press roller to improve the seed-soil contact.

TURBOSEED SL / PL

The RABE drag coulter system is based on the arrangement of coulters in 3 actual rows; the result is a distance of 330 mm between each row.

- With this system you can sow on ploughed soil or after careful stubble cultivation. The seed furrow is properly cleared of plant debris, even when row spacings are very narrow.
- In the standard version the coulter pressure is centrally adjusted with a scale; however a hydraulic coulter pressure adjustment is available as additional feature.

ECODRILL + TURBOSEED SL / PL

UNIDISC: a solid disc coulter!

- Medium ball bearings with two rows of balls and disc from forged, extra tough boron steel for a longer life span. Hard cast coulter.
- 2 rows of discs with coulter pressure that can be varied infinitely from 3 up to 30 kg, for minimum tillage methods.
- 40 mm roller on request to improve the seed-soil contact.

ECODRILL + TURBOSEED SL / PL

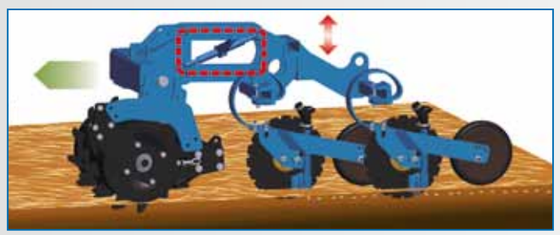
The field emergence has to be particularly uniform for certain crops, such as linen or field vegetables. Therefore RABE offers a set of "press rollers," which are mounted on the seeding units. The 40 mm wide rollers push the seeds into the groove and hence allow for optimum contact between seeds and soil. The rollers have about 12 depth adjustment options, including a quick adjustment option when needed due to operating conditions.

CULTIDISC: THE SPECIAL COULTER SYSTEM

The simplest top-class coulter system on the market.

TURBOSEED PRO

- Up to 80 kg of individual pressure: ideal for working dry land, drilling to greater depths (e.g. bean) and operating at higher forward speeds.
- Large notched disc (410 mm) with integrated packer wheel: drilling toolbar with aggressive angle of attack and seed consolidation for all types of seeds, ranging from OSR to conservation tillage of beans.
- To ensure consistent depth and firming for each row, the CULTI DISC coulter units are all exactly the same length; exceptional “anti-clogging” clearance: 560 mm between rows!
- Unfailingly tough: seed coulter with integrated carbide disc, hinge-less leaf spring suspension (zero maintenance, zero wear), ultra protected double-lane ball bearings.
- Flawless seed placement thanks to the exclusive “anti-bounce” air vent and the flat heel coulter (the heel protects the seeds from the rotating discs when being dropped to prevent them being ejected from the furrow).



Framework in the upper position: flat seed placement (e.g. rapeseeds).

Frame in the lower position: deep seed placement (e.g. faba bean)

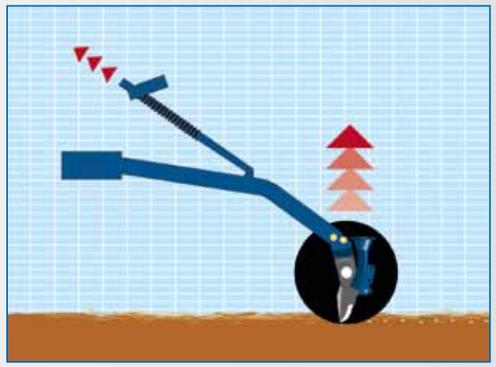
Depth control: Ease and precision from parallelogram-mounted tie-rods! The depth of the drills can be easily adjusted by raising or lowering the frame supporting the coulter units (using the tie rods).

SEED PLACEMENT SYSTEMS FOR EVERY NEED

Depending on the intended use and soil conditions you can choose between three-furrowed drag or disc coulters. Both coulter versions stand out due to their "double-acting" spring loading.

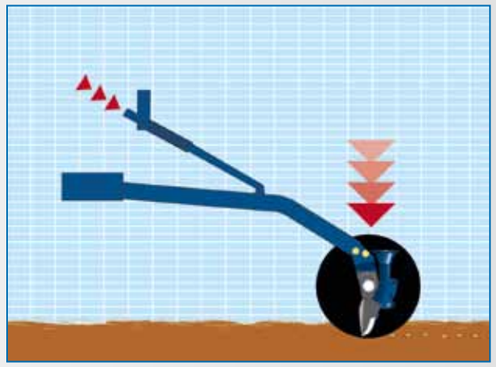
The spring is loaded when subject to mechanical strain:
The seeding unit is relieved.
Flat seed placement or sowing in very loose soils.

An almost complete neutralisation of the weight of the seeding unit when set to minimum pressure.

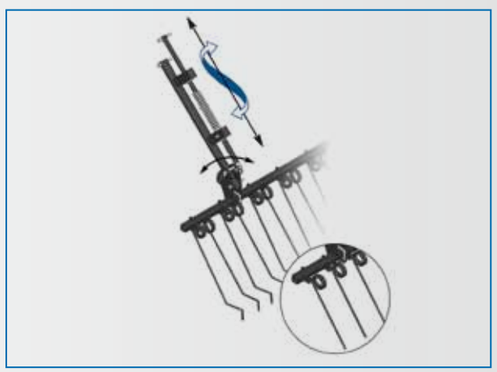


The spring is loaded when subject to pressure:
the metering unit is pressurized deep seed placement or high speed.

At its maximum setting up to 20 kg weigh on the coulters and up to 30 kg on the UNIDISC seeding units.



The following harrow levels the seed bed. The angle and contact pressure of the following harrow are multi-adjustable. You have the choice between S-tines and straight tines.



Covering harrow with straight or cranked profile.

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Subject to technical changes.