

 **HORSCH**

Versa KR

INNOVATIVE AND FORWARD THINKING
MECHANICAL SOWING TECHNOLOGY





Versa KR

PROFESSIONAL SEED DRILL WITH 3-POINT LINKAGE

- Different and fast to configure tramlines due to SmartClip metering system
- ISOBUS-based calibration and operation of the machine

- 12.5 cm and 15 cm row spacing are available
- DuoDisc double disc seed couler consisting of well-proven components of the TurboDisc III seed couler



The first mechanical HORSCH seed drill excels due to technical innovations in the metering and tramline control sector.

Versa is Latin and means „reverse“. Since its foundation in 1984, HORSCH has always been relying on the advantages of pneumatic metering systems. However, the merely mechanical metering systems and their advantages are also very popular among our customers in the 3 m segment. This is the reason why HORSCH started to work on this topic. Ingenious concepts and ideas allowed for developing the technology further that has been available in the market for many decades so that we can provide our customers with more diversity and benefits

The main focus of the electrically driven metering unit is on the drive shaft. The individual connection of the metering units allows for changing the tramlines individually without any tools. In addition, different row spacings are possible, e.g. 15 cm to 30 cm or 45 cm. Depending on the seed, the metering unit can easily be adjusted with a stop valve between spacing wheel and cam wheel. The metering wheels, too, can be removed individually and without tools for checking.

The electronic system communicates completely in ISOBUS standard. The new operating concept is optimised for touch terminals and allows for an individual adjustment of the display options. The view in the terminal can, for example, be personalised.

The complete operation and adjustment of the machine is focused on the left side of the machine. A universal tool which is easily accessible at the access ladder allows for a simple and quick adjustment of the seed depth and the coulter pressure. Another function of the universal tool in addition to opening the hopper grid is that to adjust the lateral plates of the rotary harrow.

The stainless steel scales for seed depth and coulter pressure are very clearly visible when adjusted and thus guarantee a safe adjustment of the DuoDisc seed coulters. The double disc coulters that has been specially developed for the Versa line is equipped with the well-proven components of the TurboDisc seed coulters and guarantees a precise and even seed placement.

The 900 l steel hopper can be extended to a capacity of 1 200 l or 1 500 l with optional extension parts. To prevent sowing errors, the machine can be equipped with adjustable low level indicators. In this case, the customer can choose between a one-side or a two-side monitoring of the filling level.



Versa 3 KR while sowing spelt



Versa 3 KR – 1 500 l hopper capacity

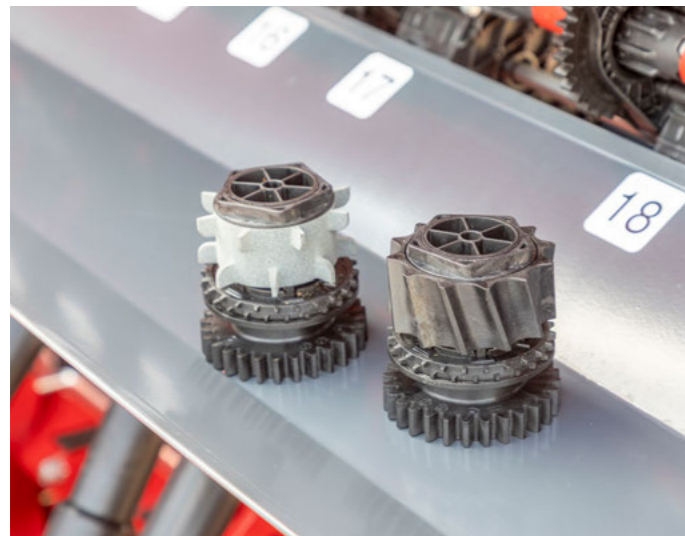
SmartClip metering system

RELIABILITY AND DIVERSITY

The main focus of the electrically driven metering unit is on the drive shaft. The individual connection of the metering units allows for changing the tramlines individually without any tools. In addition, different row spacings are possible, e.g. 15 cm to 30 cm or 45 cm. Depending on the seed, the metering unit can easily be adjusted with a stop between spacing wheel and cam wheel. The metering wheels, too, can be removed individually and without tools for checking.

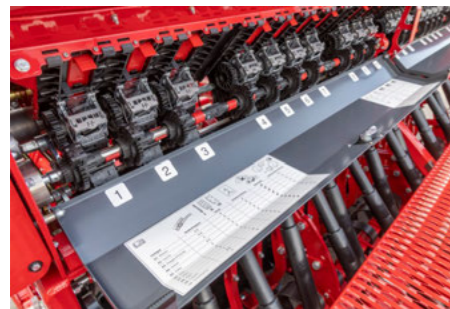
Application rates with SmartClip:

- Minimum sowing density for fine seeds: 1.5 kg/ha, with double row spacing 0.8 kg/ha (at 4 km/h. At higher speeds lower application rates are possible.)
- Maximum seed rate for cereals: 450 kg/ha, with double row spacing 225 kg/ha (at 10 km/h. At lower speeds, higher application rates are possible.)



- Technical innovation in the metering and tramline control sector
- Metering wheels can be removed without any tools
- Simple change of the row spacing
- Flexible pre-selection of tramlines without any tools

SmartClip metering wheels



Solutions like the online SmartClip Guide are another innovation for the mechanical seed drills.



SmartClip metering system – tramline control



SmartClip metering system – tramline control

DuoDisc seed coulters

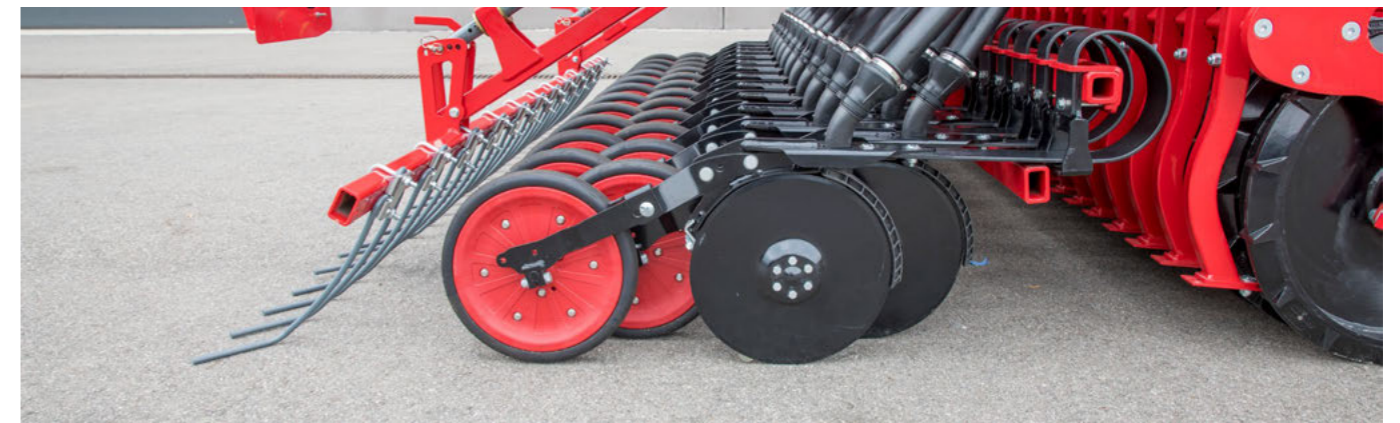
THE LIGHT-WEIGHT DOUBLE DISC COULTER

A perfect embedding of the seed and an immediate seed-soil contact are important for a safe and even emergence. The double disc seed coulters that has been developed on the basis of the TurboDisc seed coulters impresses with its precise seed placement and the well-proven components. The press-wheel-controlled coulters design allows for an excellent following of the soil contours. Thus, the set placement depth can be kept up for every single grain.

The double disc seed coulters with maintenance-free bearing opens the soil, allowing for undisturbed seed placement. The integrated uniformer ensures a fixing of the seed at the bottom of the seed furrow – even at high operational speeds. A movable, carbide coated scraper keeps the area

between the discs clean and prevents clogging even in sticky and wet conditions. The 5 cm or 7.5 cm wide press wheel then ensures an optimum seed-soil contact and an exact depth control.

In addition to the excellent adaption to the soil, the DuoDisc seed bar impresses with its easy operation: coulters pressure and sowing depth do not influence each other when being adjusted. The maintenance-free metal spring of the seed coulters transfers a coulters pressure of up to 50 kg and thus ensures a precise seed placement behind the rotary harrow. Moreover, the suspension acts as an overload protection and shock absorber for stones.



DuoDisc seed coulters with heavy harrow



Fall tube position in front of the mounting and moving inside scraper prevent blockage of the coulters in wet sowing conditions



DuoDisc seed coulters with straight harrow



The HORNSCH Uniformer ensures a precise fixing of the seed

Versa SL power harrow

ACTIVE SEEDBED PREPARATION

- Long service life due to solid and massive gear unit
- Tines can be changed without any tools
- 10 rotors for maximum clearance for 3 m working width
- Actively driven seedbed preparation for different requirements
- Targeted control of the tillage intensity in the seedbed by adjusting the operational speed and the rotational speed of the power harrow
- Solid and massive gear unit and drive for highest stresses in the field

PTO-shaft driven tillage with the power harrow Versa SL allows for an intensive seedbed preparation even in difficult conditions. The power harrow Versa SL is equipped with 10 rotors on 3 m working width. The finely graduated adjustment of the working depth for the rotary harrow is easily accessible from the outside and is clearly visible. The adjustment of the levelling bar, too, is very easy.



10 rotors for maximum clearance for 3 m working width



Tines can be changed without any tools



Working depth adjustment Versa SL R via locking pin on a clearly visible stainless steel scale

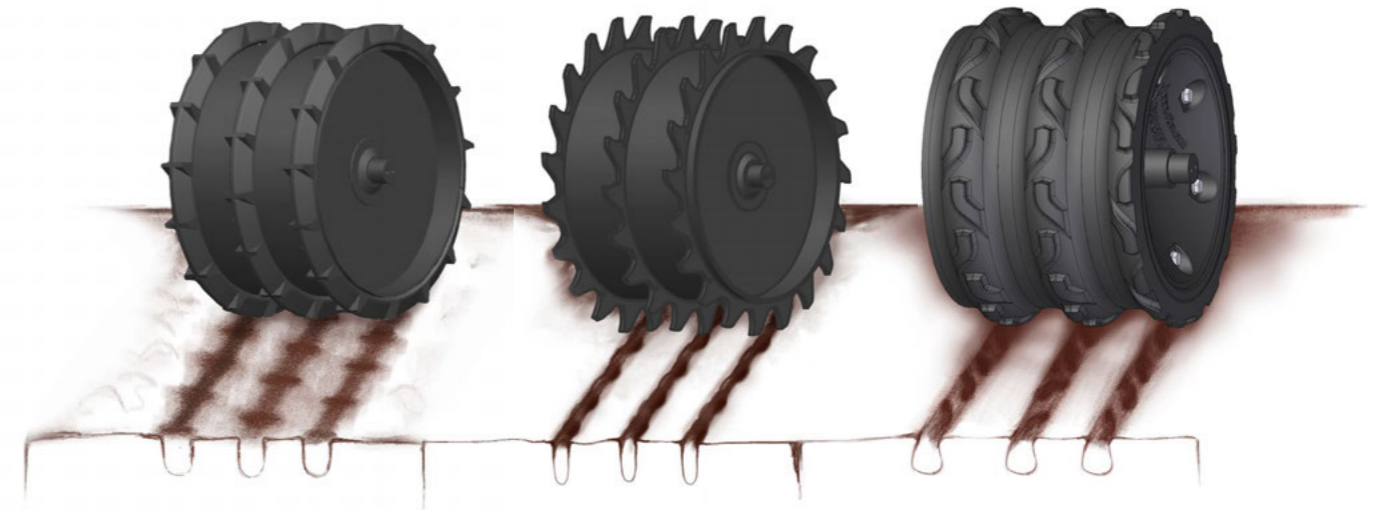


Adjustment of the side panels with the universal key

PACKER SYSTEMS

VERSATILE FOR OPTIMUM RESULTS

The depth effects and the main applications of the different HORSCH packer versions.



Trapeze ring packer 60 cm diameter

Tooth packer with a diameter of 64 cm

FarmFlex packer

Trapeze ring packer

- Ideal in changing conditions
- For a targeted consolidation in front of every seed row
- In wet conditions, scrapers clean the packer roller

Tooth packer roller

- Large diameter guarantees a high load-carrying capacity especially on light soils
- Excellent drive through the packer teeth have a positive effect on diesel consumption
- The teeth of the tooth packer leave a crumbly structure and fine soil

FarmFlex packer

- Robust rubber roller with a diameter of 54 cm
- Strip consolidation in the shape of a furrow
- Ideal on medium soils with non-sticky soils



Trapeze ring packer 50 cm diameter



Trapeze ring packer 60 cm diameter



FarmFlex packer Strip consolidation reduces encrusting

Hydraulic upper link Versa KR

By retracting the hydraulic upper link between the rotary harrow Versa SL and Versa KR, the position of the seed drill can be changed. This cylinder can easily be adjusted from the tractor cabin. For road transport this allows for moving the centre of gravity of the machine to the front and increasing the clearance. Another advantage is using the rotary harrow on the headlands or in field corners as you can lift the seed coulters and thus reduce wear.

- Easy control of the hydraulic cylinder from the tractor cabin
- Transferred centre of gravity of the Versa KR during road transport
- Preparatory work with the rotary harrow on the headlands or in field corners with lifted seed coulters
- Higher clearance during road transport



Hydraulic upper link between power harrow and Versa KR



Preparatory work with the rotary harrow on the headlands or in field corners with lifted seed coulters

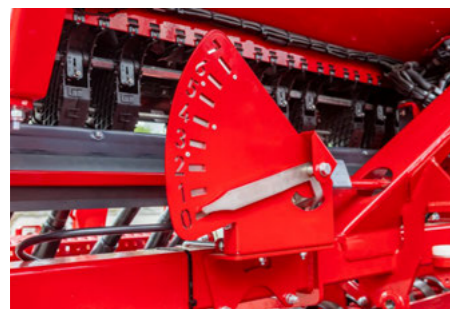


Higher clearance during road transport by retracting the hydraulic cylinder

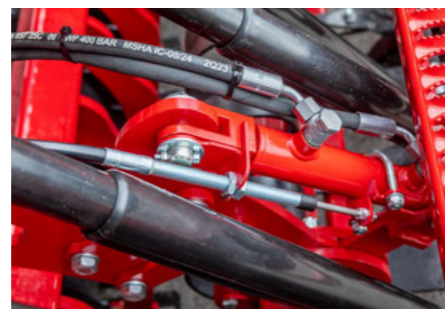
Hydraulic coulters pressure adjustment

Due to the option of the hydraulic coulters pressure adjustment, the coulters pressure can be increased or reduced while sowing in uneven soils from the tractor cabin. The important feature is the easy handling of the system as from a plant production point of view an even emergence is the prerequisite for the customised and safe management of crop populations. If the coulters pressure is too high, compaction in the area of the seed furrow is increased. This has a negative influence on the development of the first germination roots. If the coulters pressure is too low, however, the sowing depth may vary.

- Coulters pressure adjustment via a tractor control unit
- Clearly visible setting display on the right side of the machine
- Coulters pressure adjustment without tools
- Repeatable setting values due to the durable „metal display“



Display scale of the hydraulically adjustable coulters pressure



Hydraulic cylinder coulters pressure adjustment



Clearly marked hydraulic connections

Heavy harrow

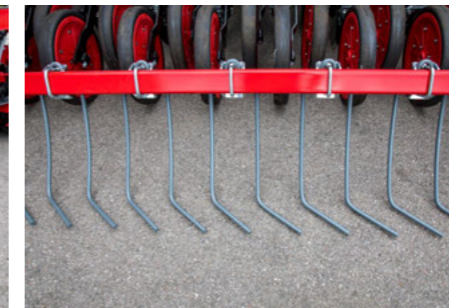
When sowing very late and if the conditions are wet, e.g. after grain maize or sugar beet, the optional heavy harrow with its cranked tines ensures a transverse movement of the soil and thus securely covers every seed grain.

The heavy harrow can be adjusted flexibly – very passively for shallow sowing of seeds that require light for germination or very aggressively with a lot of pressure in case of late, wet sowing times. To this end, you can easily and without tools turn the pressure spring of the harrow to place weight on the harrow or to remove weight from the harrow. The aggressiveness of the tines is adjusted via two hole system. Two HORSCH clips are plugged in between bracket and hole system to work without a harrow.

- Ideal solution for late sowing in wet conditions
- Easy, flexible adjustment without any tools
- Aggressive and passive working position possible
- Easy to deactivate with HORSCH clips in lifted position



Heavy harrow: ideal for late seeding in wet conditions



Cranked tines ensure a transversal movement of the soil and thus securely cover every seed grain



Easy pressure adjustment of the heavy harrow

Hopper extensions

The Versa KR excels due to its simple and light design. With the optional hopper extensions the hopper capacity can almost be doubled.

There are two different hopper attachments: for 1 200 l hopper capacity or for 1 500 l hopper capacity. The larger hopper capacity increases the efficiency of the machine and the filling stops are reduced.

- Hopper extension for 1 200 l or 1 500 l hopper capacity
- Increased efficiency
- Reduces filling stops



Hopper attachment 1 500 l



1 500 l hopper attachment: less filling stops due to increased hopper capacity

INTELLIGENCE

eosT10 / eosT10 Pro

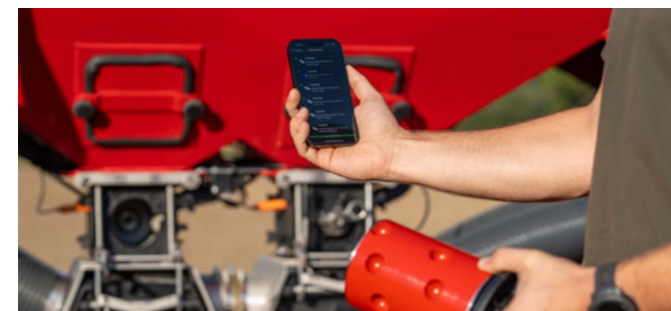
- High-resolution 10" terminal for controlling all ISOBUS devices according to ISO 11783
- Reliable and powerful: high-performance hardware combined with intuitive, user-friendly operation in day or night mode
- Various layout options allow for a simultaneous display of several applications – for an optimum overview
- Straightforward transfer of application maps with the wireless Task Data Exchange
- A real-time transmission of the terminal display via Remote Support facilitates the technical support.



By displaying up to 3 widgets in addition to the main working screen, the user can keep track of several applications at the same time

Rotor selection

- Facilitates the selection of the optimum rotor for any application
- Wide selection range from normal seeds to fine seeds to fertiliser and micro-granular compound
- Expert mode to carry out rotor configurations also for variable operating speeds and application rates



The HORSCH Assist app with the „Rotor Selection“ function helps you to choose the optimal rotor for each application.

AutoLine

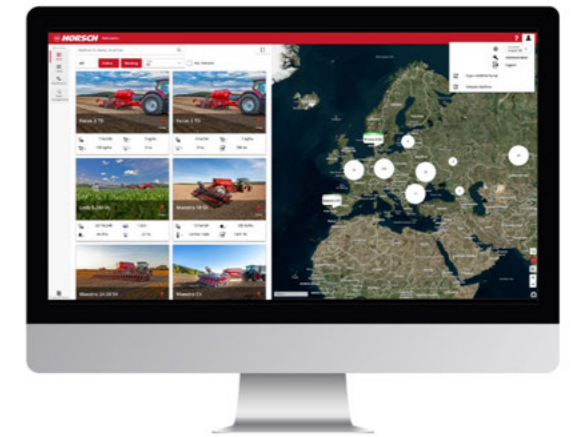
- Automatic, GPS-based tramline control
- Optimised driving strategy near obstacles or on the headlands
- Track-to-track driving is no longer required
- Available in combination with the eosT10 Pro terminal or other tramline-capable ISOBUS terminals



Drill independently of the track rhythm with universal seeding technology and HORSCH AutoLine

HorschConnect

Prepare today for tomorrow. Easily control various machine functions via the HORSCH Control app – your smartphone complements the terminal! Gain comprehensive, transparent insight into work rate and work quality with HorschConnect Telematics.



With HorschConnect, telemetry solutions are making their way into the sectors seeding and crop care – exactly where they make sense

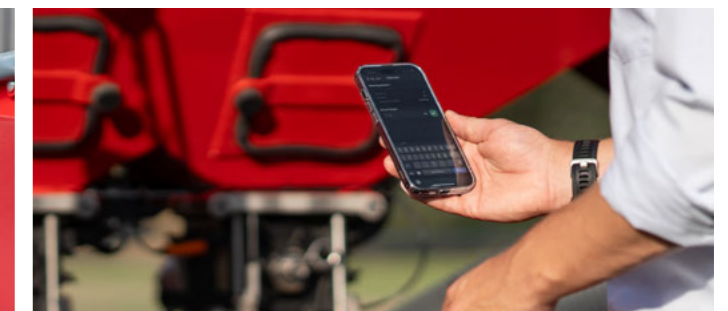
- HorschConnect Telematics to document the performance of the machine
- HorschConnect Telematics for complete transparency of the working quality, e.g. the application rate of all components
- Targeted and proactive service by remote access to error messages
- Control of machine functions via the smartphone app HORSCH Control: e.g. Calibration of all metering devices



The HORSCH Control app allows for controlling individual machine functions – comfortably with a smartphone



Straightforward out-of-the-box solution with a wide range of integrated interfaces



Quick and easy calibration of the machine via smartphone with the HORSCH Control app

ADDITIONAL EQUIPMENT



WorkLight Pro



Bout marker



Flexibly adjustable pre-emergence markers



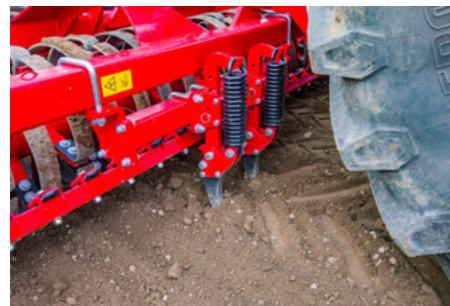
Coarse seed wheel SmartClip metering system



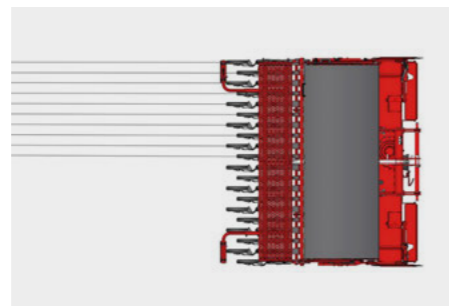
The insert hood reduces the residual quantity when sowing with a double row spacing



Insert hood – hopper insert



Spring-loaded track-eradicator tines



Electric half-width shut-off



Grass seeds agitator shaft
Better agitation effect removal of seed bridging due to specially shaped agitator fingers when sowing grass

TECHNICAL DATA

Versa KR	3 KR
Working width (m)	3,00
Row spacing (cm)	15,0 / 12,5
Operational speed (km/h)	3 - 12
Transport width (m)	3,00
Filling height (m)	---
Length without/with pre-emergence marker (m)	2,85 / 3,25
Weight (kg)	2700 - 3500
Dimension of feed opening (m)	2,80 x 0,90
Number of seed coulters (PCE)	20 / 24
coulter pressure (kg)	10 - 80
Packer trapeze ring roller Ø (cm)	50 / 60
Weight trapeze ring packer Ø 50 cm (kg/m)	200 - 210
Weight trapeze ring packer Ø 60 cm (kg/m)	240 - 250
Packer tooth packer Ø (cm)	64
Weight tooth packer (kg/m)	190 - 200
Packer FarmFlex packer Ø (cm)	54
Weight FarmFlex packer (kg/m)	235
Number of rotors (PCE)	10
Application rate with SmartClip	Minimum sowing density for fine seeds: 1.5 kg/ha, with double row spacing 0.8 kg/ha (at 4 km/h. At higher speeds lower application rates are possible.) Maximum sowing density for cereals: 450 kg/ha, with double row spacing 225 kg/ha (at 10 km/h. At lower speeds, higher application rates are possible.)
Horsepower requirement (kW/hp)	110 - 185 / 150 - 250
DA control devices	0 (+1 bout marker / +1 pre-emergence marker)
Implement attachment	3-point Cat. III





Your distributor



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Paper: 120 g/qm Maxi Offset. The paper is certified according to the EU Ecolabel. This label is only granted for products and services whose environmental consequences are considerably lower than those of comparable products. For more details see www.eu-ecolabel.de. Printing ink: Printing ink QUICKFAST COFREE. Free from mineral oil and cobalt. Moreover, it is certified and recommended for printing according to the „Cradle-to-Cradle“ principle (quasi “from the origin back to the origin”) – an approach that deals with the spreading of continuous and consequent recycling management. More details at www.c2c-ev.de.

All specifications and diagrams are approximate and not binding. Technical features and design are subject to change.

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