

# 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 coulters consisting of well-proven components of the TurboDisc III seed coulters





The first mechanical HORSCH seed drill excels due to technical innovations in the metering and tram-line 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 have been specially developed for the Versa line are 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



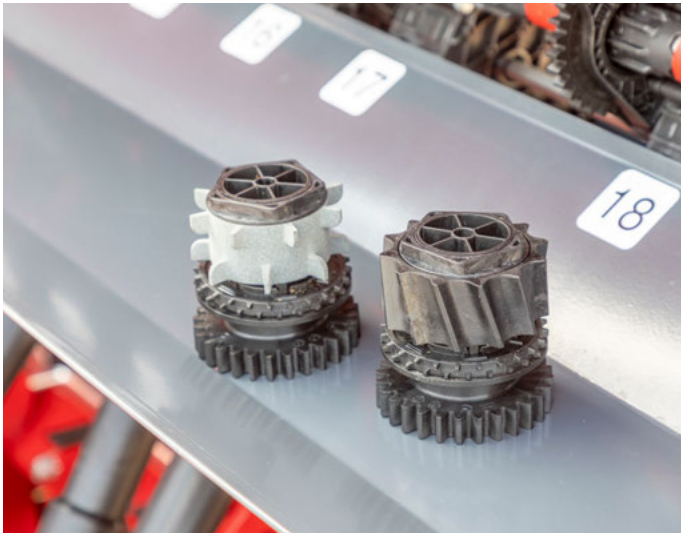
# SmartClip metering system

RELIABILITY AND DIVERSITY

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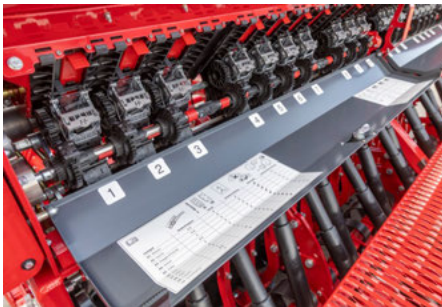
**Application rates with SmartClip:**

- Minimum seed rate 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.)



SmartClip metering wheels

- 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



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 couler

THE LIGHT-WEIGHT DOUBLE DISC COULTER

A perfect embedding of the seed and an immediate seed-soil contact are the prerequisites for a safe and regular emergence. The double disc seed couler that has been developed on the basis of the TurboDisc seed couler impresses with its precise seed placement and the well-proven components. The press-wheel-controlled couler design allows for an excellent following of the soil contours. This is the only way to keep the placement depth for every single seed grain.

The double disc seed couler with maintenance-free bearing opens the soil and thus allows for accurate 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 guarantees optimum seed-soil contact and a precise exact depth control.

In addition to the excellent adaption to the soil, the DuoDisc seed bar impresses with its easy operation: couler pressure and sowing depth do not influence each other when being adjusted. The maintenance-free metal spring of the seed coulers transfers a couler 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 coulers with heavy harrow



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



DuoDisc seed coulers with straight harrow



The HORSCH Uniformer – TurboDisc seed couler ensures a precise fixing of the seed



# Kredo rotary 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 cultivation intensity in the seedbed by adapting the working speed and the rotational speed of the rotary harrow (standard 244 or 306 rpm)
- Solid and massive gear unit and drive for highest stresses in the field
- Targeted control of idle time and working effect: tines are arranged draggily for seedbed preparation on intensely cultivated fields:
  - Standard tine
  - HM tine (reinforced for long service life)
  - HM+ tine (maximum wear protection with carbide technology from the cultivator sector)
- Tine on grip for aggressive cultivation of solid soils

PTO-shaft driven tillage with the rotary harrow Kredo allows for an intensive seedbed preparation even in difficult conditions. The rotary harrow Kredo has 10 rotors on 3 m working width. Its robust design is ideal even on stony soils. With quick-change tines, it can be equipped with drag or grip tines. Tines with carbide coating are available to ensure a long service life. The well-proven coating technology from the cultivator tine products is used. 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.



Versa 3 KR – Kredo



Deflector rail in the front is available as an option



Adjustment of working depth without tools via the hole pattern between Kredo and packer



Tines can be changed without any tools

# PACKER SYSTEMS

## VERSATILE FOR OPTIMUM RESULTS

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



### Trapeze ring packer

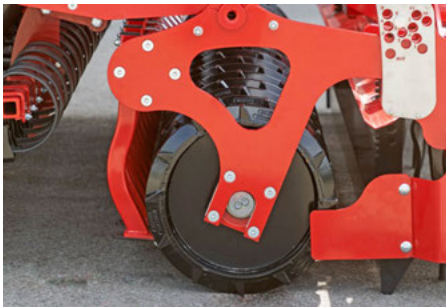
- Ideal in changing conditions
- For a targeted consolidation in front of every seed row
- In wet conditions, scrapers clean the packer roller

### 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
- 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 Kredo HD 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 rotary harrow and Versa KR



Seed coulters can be lifted to use the rotary harrow solo on the headlands or in field corners

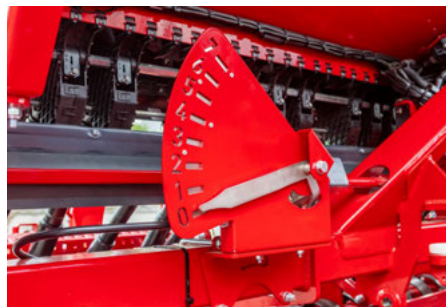


The hydraulic cylinder can be retracted for more clearance for road transport

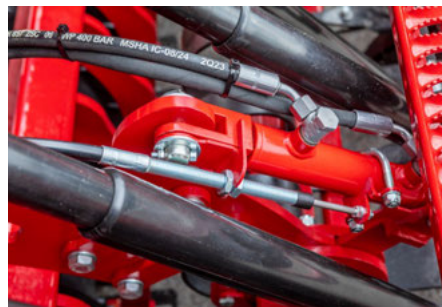
# Hydraulic coultter pressure adjustment

Due to the option of the hydraulic coultter pressure adjustment, the coultter 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 coultter 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 coultter pressure is too low, however, the sowing depth may vary.

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



Display scale of the hydraulically adjustable coultter pressure



Hydraulic cylinder coultter 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: the ideal solution for late sowing 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 (Pro)

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



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

## SmartClip Guide

- Simplifies the selection of the optimum setting for any application
- Adjustment aids for different crops and row spacings
- TSW calculator facilitates the calculation of the optimum seed rate

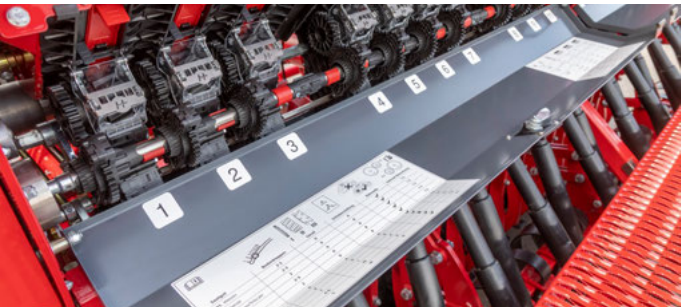


## AutoLine

- 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 terminal eosT10 Pro



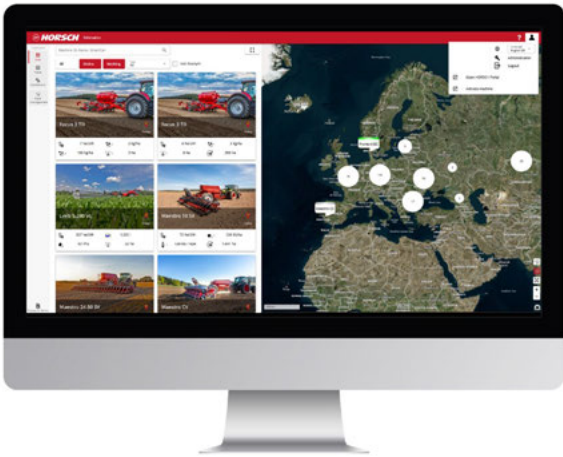
Due to the flexible holder, the eosT10 can be perfectly integrated in every cabin



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

## HorschConnect

Prepare today for tomorrow. Control different machine functions quite easily via the MobileControl app – your smartphone replaces the terminal! In addition, gain complete, transparent insight in all aspects of work performance and working quality with HorschConnect Telematics.



With HorschConnect telemetry solutions can be found in the sowing and plant protection sector – exactly where they make sense

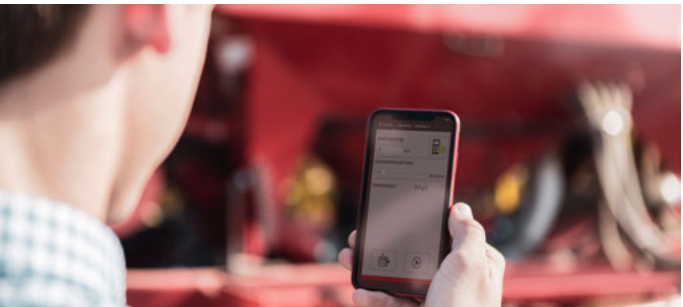
- Digital solutions exactly where they make sense
- Straightforward out-of-the-box solution with integrated SIM card, WLAN modem and other interfaces
- HorschConnect Telematics to document the performance of the machine
- HorschConnect Telematics for complete transparency of the working quality, e.g. the application rate of all components
- Targeted and proactive service due to remote insight in the error messages
- Control of machine functions via smartphone app MobileControl: e.g. calibration of all metering units



The MobileControl app allows for controlling individual machine functions – completely comfortably from the smartphone



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



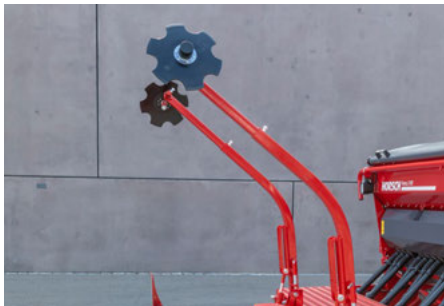
Quick and easy calibration of the machine via smartphone with the MobileControl app



# ADDITIONAL EQUIPMENT



WorkLight Pro



Pre-emergence 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



The countershaft is divided and is controlled by one drive motor per machine half



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)	5 - 12
Transport width (m)	3.00
Filling height (m)	1.86
Length without/with pre-emergence marker (m)	2.85 / 3.25
Weight (kg)	2700 - 3500
Seed hopper capacity single hopper (l)	900
Dimension of feed opening (m)	2.80 x 0.90
Number of seed coulters (PCE)	20 / 24
Coulter pressure (kg)	5 - 50
Packer trapeze ring roller Ø (cm)	50 / 60
Packer tooth packer Ø (cm)	64
Number of rotors (PCE)	10
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

**HORSCH Maschinen GmbH**  
Sitzenhof 1 · 92421 Schwandorf  
Phone: +49 9431 7143-0  
Fax: +49 9431 7143-9200  
E-Mail: [info@horsch.com](mailto:info@horsch.com)

**[horsch.com](http://horsch.com)**

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

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