

# Focus TD

# HORSCH

*Farming with passion*

TARGETED LOOSENING,  
TARGETED FERTILISATION,  
TARGETED SOWING



# StripTill IN PERFECTION

## What are the excelling features of the Focus TD?

The **Focus TD** stands for the consistent further development of the "StripTill approach". Features like targeted loosening below the later row combined with a concentrated fertiliser placement have been implemented with well-proven components and have been combined with the well-known Pronto sowing technology.

- TerraGrip tines pre-loosen the soil in a targeted way and remove harvest residues from the seed and root area
- A fertiliser deposit is placed (if required in different depths)
- Moist soil is transported to the germination horizon
- Angled discs work between the seed rows and create ridges or level the soil according to the requirements.
- The tyre packer consolidates the soil in front of the seed coulters
- Sowing is carried out by the strong and precise TurboDisc seed coulters into moist soil that is free of harvest residues
- Row spacings of 30 cm for rape seed and row crops and of 15 cm for crop sowing are possible
- The optional 3-point linkage of the Focus 6 TD allows for a quicker and easier changing from the TurboDisc seed bar to a Maestro RC seed unit. Thus, a deep placement of fertiliser is now also possible for maize and other single grain seeds with row spacings of 45–75 cm.
- High efficiency due to a hopper capacity of 5 000 litre (partition 40:60 for seed and fertiliser)



### Michael Horsch:

"Topics like yield stability and cost saving are getting more and more important. Numerous institutes have already been testing for several years. Since 2001, HORSCH has been carrying out their own tests on the company-owned trial fields near the FIT Training Centre. The results are unambiguous: Site-specific cultivation combined with targeted fertilisation and precise sowing helps to increase the utilisation factor of fertilisation and to guarantee a stable and good harvest even in climatically difficult years. The **Focus TD** combines all our experiences with the most up-to-date technology."



**LD points** cultivate the soil and place an exactly placed fertiliser deposit.



**TurboDisc seed coulters** place the seed into lump and residue-free soil.



Even in difficult climatic condition the **Focus TD** allows for a good emergence and an optimum development of the plant (here: **Focus TD** with **Maestro RC**).

# RANGE OF USE

## Rape seed and row crops in row seeding with a row spacing of 30 cm (optional: 35 cm with the Focus 6.35 TD 3-point)

- One TurboDisc coulters is placed in the middle behind a TerraGrip tine and a tyre
- Guaranteed closure of the rape seed row despite a larger row spacing
- Large row spacing for row crops, like for example maize, which are sown in row seeding
- At a loosening depth from 10 to 35 cm the conditions are ideal for rape seed as all compactions are removed, the root area is almost free of harvest residues and nutrients are placed in a targeted way.
- Can be used after one or more stubble cultivation passes

## Depth of the fertiliser placement is variable

- Under excellent sowing conditions the placement of fertiliser at working depth allows for a targeted supply of the lower topsoil with fresh nutrients.
- In years with difficult sowing conditions (humidity, low temperature) a 50:50 placement can support the early growth of the crop in a targeted way and the root can be "attracted" downwards.

## Crop sowing with a row spacing of 15 cm (optional: 17.5 cm with the Focus 6.35 TD 3-point)

- Two TurboDisc coulters are placed behind a TerraGrip tine and a tyre
- Narrow row spacing for crops like for example wheat and rye
- A TerraGrip tine loosens the soil in the middle below two plant rows and places the fertiliser deposit there (in variable depth)
- Roots grow into the loosened strip in an optimum way and are able to reach the fertiliser deposit that has been placed there
- The characteristic of the ridges can be controlled via the disc levelling system in front of the packer, if desired, an even seedbed can be achieved
- Loosening depth is adapted to the previous crop in an optimum way

## Single grain seed of row crops

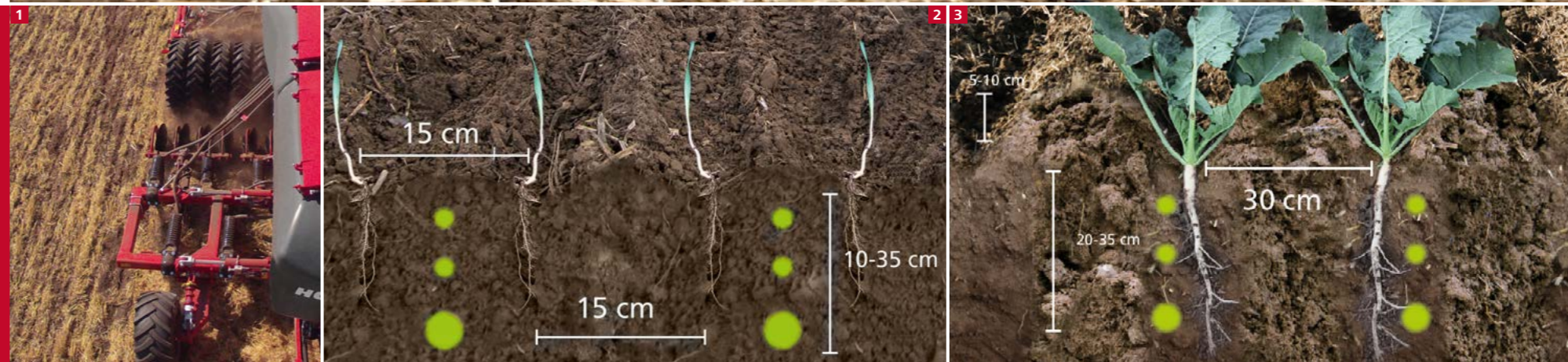
- Due to the optional 3-point linkage of the Focus 6 TD you can now benefit from the advantage of the targeted depth fertilisation even for single grain sowing with a Maestro RC.



**1 TerraGrip tines**  
efficiently remove straw and lumps from the sowing horizon

**2 Focus TD for crops**  
Loosening spacing 30 cm, seed row spacing 15 cm, loosening depth 10 to 35 cm, placement of fertiliser deposits in different depths

**3 Focus TD for winter rape seed**  
Loosening spacing 30 cm, loosening depth 20 to 35 cm, ridge height depending on the free-flowing capacity of the soil 10 to 20 cm, placement of fertiliser deposits in different depths.



# Focus 6.50 TD 3-point

## THE PROFI FOR ROW CROPS

### What are the excelling features of the Focus 6.50 TD 3-point?

The **Focus 6.50 TD 3-point** meets the demand for loosening in the traditional row crops with a spacing of 50 cm, e.g.

- rape
- sunflowers
- sugarbeets
- soy beans
- maize

The TerraGrip 3L tines are arranged on two bars and pre-loosen the row in spacing of 50 cm. The fertiliser is planed in different horizons (deep = working depth, shallow = close to the surface and combination of both).

The newly developed tyre packer 320/70-24 AS runs exactly between the rows and supports the weight of the machine with a large contact area.

# TurboEdge coultter

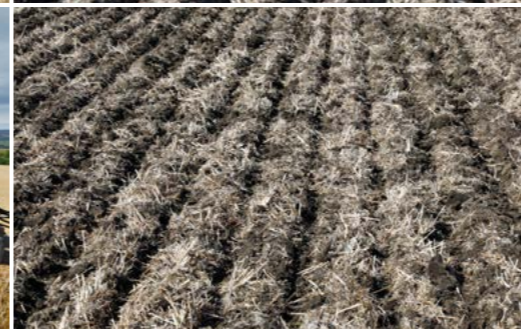
## SOWING INTO THE OPEN FURROW

### What are the excelling features of the TurboEdge coultter?

Ideal for sowing rape and beans with row spacings of 28.6–30, 35 and 50 cm at all Focus models.

### Assets of the TurboEdge coultter:

- Intensive clearing of the harvest residues in the seed furrow
- Optional embedding of the seed grain with a guaranteed soil contact
- Perfect depth control by integrated press wheel at seed body
- Optimum complement for sowing with the Focus when the preparation intensity was low



Sowing of rape, maize, sunflowers, soy beans with well-proven Maestro technology

Targeted fertilisation in the row with the following option: deep, shallow or 50:50

Row spacing of 50 cm, tyre packer runs exactly between the loosening rows

Perfectly cleared seed furrow for rape, even in case of high amounts of harvest residues on the surface.

Sowing rape with row spacings of 28.6–30, 35 and 50 cm, optionally with TurboDisc or TurboEdge coultter

# ELECTRONICS INNOVATIVE AND DIGITAL SOLUTIONS



## HORSCH Intelligence

The future machines think actively and HORSCH Intelligence makes it possible. With intelligent software and electronic solutions HORSCH seed drills work even more efficiently and help you to save both money and increase confidence.

HORSCH seed drill are always equipped with the ISOBUS standard. This does not only mean that every HORSCH machine can be controlled with any ISOBUS terminal. Additionally, SectionControl, VariableRate as well as the TaskController for data processing is a standard equipment for every HORSCH seed drill.

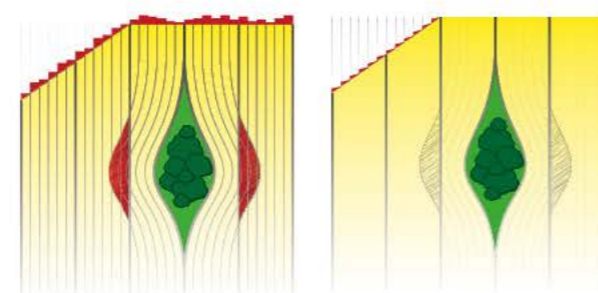
## SectionControl

ISOBUS SectionControl allows for switching off individual sections automatically via GPS. The current position is determined, thus at field boundaries, on the headlands, in case of overlaps or in predefined areas individual sections (half-widths) or the whole working width is shut-off automatically.

When using a HORSCH Touch 800/1200 Terminal you can additionally use the MultiControl function. This function independently switches on and off the application of fertiliser and seed. Without MultiControl either fertiliser or seed can be switched on and off at the right time.

### Advantages of SectionControl:

- Saving seed and fertiliser as overlaps on the headlands and at field boundaries are reduced to a minimum
- Constant working quality on the whole field
- Productivity increase under various conditions (day and night, fog)
- Reduced stress for the driver
- Protection of the environment



WITHOUT SectionControl

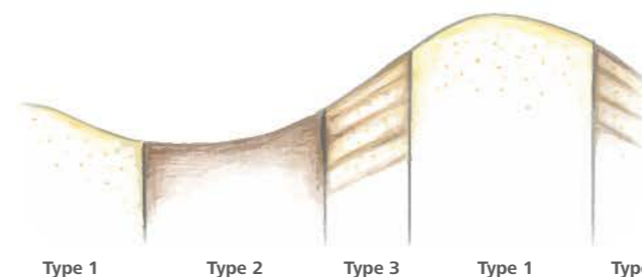
WITH SectionControl

## VariableRate

ISOBUS VariableRate allows for a site-specific application of seed and fertiliser. Thus, with an appropriate application card for every section within a field the optimum quantity of fertiliser and seed can be applied. When using a HORSCH Touch 800/1200 Terminals you can additionally use the MultiControl function. This function allows for independently varying the amount of fertiliser and seed. Without MultiControl the application rate of either fertiliser or seed can be varied.

### Advantages of VariableRate:

- Saving of seed and fertiliser as only the necessary quantity is applied
- Regular emergence due to optimum number of grains/m<sup>2</sup>
- Simple and quick documentation
  - The different application rates are documented automatically.
  - Uncomplicated transmission to the acreage index
- Reduced stress for the driver
  - The optimum application rate is automatically used on the fields.
- Protection of the environment
  - Only the necessary amount of fertiliser is applied.



VariableRate takes different types of soil into account.

## TaskController

The ISOBUS TaskController transfers data from the PC to the terminal in an uncomplicated way. It is also possible to transfer application rates, sown area and other data that were recorded while sowing from the terminal to the PC. This facilitates the administration of the acreage index. Via the integrated order management system orders can be created and executed.

### Advantages of the TaskController:

- Uncomplicated data exchange
- Automatic documentation
- Structured working due to data management
- Simple administration of the acreage index
- Simple accounting and proof for contract services



HORSCH Terminal

Touch 1200 Terminal



Touch 800 Terminal

TaskController

Soil quality	Seed	Fertiliser
high	300 grains/m <sup>2</sup>	2.8 dt/ha PK
medium high	270 grains/m <sup>2</sup>	2.5 dt/ha PK
medium low	250 grains/m <sup>2</sup>	2.3 dt/ha PK
low	220 grains/m <sup>2</sup>	2.0 dt/ha PK

VariableRate  
Seed OR fertiliser

VariableRate with MultiControl  
Seed AND fertiliser

VariableRate allows for applying adapted quantities of fertiliser and seed on the basis of application cards.



# THE HORSCH SINGULARSYSTEM with the Funck metering device

## Seed coulter

- The design of the seed coulter and thus the main characteristics like the coulter pressure of up to 120 kg are identical to the well-proven TurboDisc coulter.
- Depending on the conditions an operational speed of up to 10 km/h are possible.
- The well-proven double discs open the seed furrow. An integrated skid forms the seed furrow and guarantees an exact placement.
- A height-adjustable catching roller allows for a defined placement of the seed and creates the necessary seed-soil contact.
- After the catching roller the well-known press wheel closes the furrow and controls the depth of the seed coulter.



## Seed

- To guarantee an undisturbed and exact mechanical singulation of the grains, the seed has to be even sized and clean.
- The evenness of the seed and thus, its suitability for the system can be determined by means of the HORSCH shaker box.
- Generally the grains should be in the second or third chamber of the shaker box.
- If the grains end up in the first or last chamber, this seed is not suitable for singulation (in this case the bypass seeding system can be used).

## Which sieving?

	Rye	Barley	Wheat	Rape
1	> 4.1	> 4.1	> 4.1	> 3
2	3.3–4.1	3.3–4.1	3.3–4.1	2.5–3
3	2.5–3.3	2.5–3.3	2.5–3.3	2–2.5
4	< 2.5	< 2.5	< 2.5	< 2

Sieve grading in mm for different crops  
(green = good, red = not ok)

## Singulation

- The structure of the central metering unit and the pneumatic system are identical to the conventional seed drills.
- The singulation of the grains is made by the Funck metering device on the seed coulter with up to 100 grains/sec.
- Singulation is carried out mechanically by crop-specific pockets in the singulation disc inside the Funck metering device.
- The desired seed rate in grains/m<sup>2</sup> and the thousand seed weight are entered in the terminal.
- The calibration test is carried out according to the well-known system.
- Every singulation disc is driven by its own electric motor (1 000–2 000 rpm), monitored by the software and controlled automatically depending on the operational speed.
- Depending on the seed rate 1, 2 or 4 pockets can easily be put into the singulation disc without any tools.
- Different pockets are available for wheat, rye, barley, rape and peas.

- The seed is transported to the seed furrow via the fall tube.
- From an agricultural point of view the use of the system makes sense up to a seed rate of 250 grains/m<sup>2</sup>. Beyond this limit the singulation effects are only marginal.
- In case of high seed rates, unsuitable seed or if catch crops are to be sown, the delivered bypass seeding system allows for sowing conventionally.



Bypass seeding system for seed rates beyond 250 grains/m<sup>2</sup> or seed that is not suitable for singulation

## Singulation discs



with pocket rape

with pocket wheat

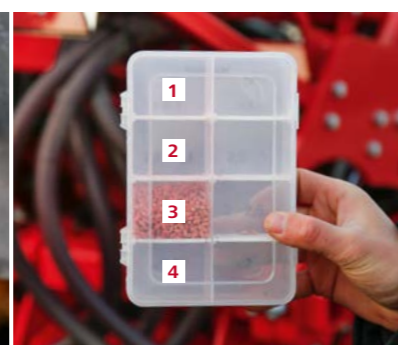
with pocket rye

with pocket barley



Catching roller

Skid



HORSCH shaker box with optimum wheat



HORSCH shaker box with optimum rape

# EQUIPMENT



**The four areas of the Focus TD**  
TurboDisc seed coulters – hollow levelling discs – tyre packer – TerraGrip tines with LD points



**Focus TD with 3-point linkage and a Maestro RC seed unit bar**



**ULD+ points** loosen the soil deeply and even in heavy soils, do not bring large clods to the surface.



**TerraGrip tines with LD (low disturbance) points** loosen the soil deeply below the seed rows and remove harvest residues from the root area



The **fertiliser deposit** is placed in a shallow, deep or mixed way 50:50



**Crumbling tool**  
Produces additional fine earth in the sowing area



**5 000 litre hopper**  
(Partition: 2 000 litres front – 3 000 litres rear)



**Hydraulic fan**  
Direct drive and well-arranged cable set



The above-average flexibility (15 cm) of the **TurboDisc coulters with integrated press wheel** allows for a precise and even depth control. The high individual coulters pressure of up to 120 kg guarantees smooth operation even at speeds above 12 km/h.



**Tyre packer** for depth control of the tine system and for consolidation in front of the seed coulters



**TerraGrip III L**  
Release force 630 kg



**Edge disc**  
Position and angle are adjustable for different soil conditions and working depths



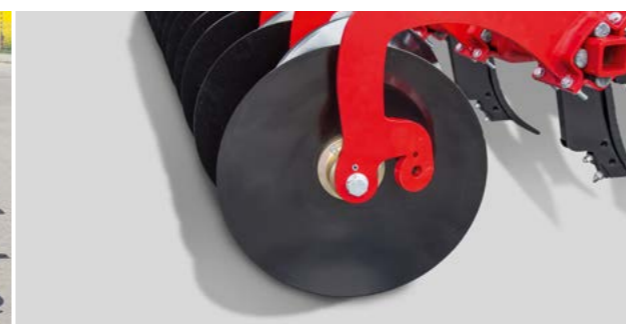
**Ladder** to guarantee safe access to the hopper openings



**TerraGrip tines** run exactly in front of the tyres



A **TurboDisc coulters** is placed in the middle behind a **TerraGrip tine** and a **tyre**



**Adjustable plates** can be adapted to various functions. They level or create ridges.



**Attachment points** for switching from tine to disc system. Simple replacement due to only 4 fixing points.



# TECHNICAL SPECIFICATIONS

HORSCH Focus ST	Focus 8.75 ST 3-point
Working width with TurboDisc seed bar (m)	5.625
Working width with Maestro RC (m)	6.00
Transport width (m)	3.30
Transport height (m)	3.45
Length incl. coulters bar (m)	10.60
Weight incl. coulters bar (kg)*	9 500
Weight without coulters bar (kg)**	8 500
Hopper capacity double hopper (l)	5 000 (2 000 l : 3 000 l / 40 : 60)
Dimension of feed openings (m)	front 0.66x1,22 / rear 0.66x1,68
Filling height double hopper (m)	2.95
Tyre size lateral support wheels	15.0/55-17
Tyre packer size	210/95-24 AS
Tyre packer Ø (cm)	100
Number of tines	15
Tine spacing (cm)	37.50
Number of tines reduced	8
Tine spacing tines reduced (cm)	75
Number of cultivation discs/Ø (cm)	8/50
Frame height (cm)	85
Release force (kg)/trip height (cm)	550/29
Number of seed coulters	15/30
Row spacing (cm)	37.50/18.75
Coulter pressure seed coulters (kg)	5-120
Seed coulters/press wheels (cm)	34/32
Operational speed (km/h)	6-10
Horsepower requirement (kW/hp)	165-270/225-370
Double-acting control devices	2 (resp. +1 for Maestro preparation kit)
Depress. return line (max. 5 bar)	1
Oil quantity hydr. fan (l/min)	35-45
Connection via lower link	Cat. III-III/IV-IV
Connection via adjustable drawbar	Ring hitch Ø 58-79 mm
Connection via ball head	K 80
3-point linkage coulters bar	Cat. III/III

HORSCH Focus TD	4 TD	6 TD
Working width (m)	4.00	6.00
Transport width (m)	2.98	2.98
Transport height (m)	3.35	3.70
Length (m)	9.77	10.40
Weight from (kg)*	8 240	9 500
Hopper capacity double hopper (l)	5 000 (2 000 l : 3 000 l / 40 : 60)	
Dimension of feed openings (m)	front 0.66x1.22/rear 0.66x1.68	
Filling height double hopper (m)	2.95	2.95
Tyre size lateral support wheels	15.0/55-17	15.0/55-17
Tyre packer size	210/95-24 AS	210/95-24 AS
Tyre packer Ø (cm)	100	100
Number of tines	14	20
Tine spacing in one row (cm)	57.2	60.0
Tine spacing (cm)	28.6	30.0
Frame height (cm)	75	75
Release force (kg)/trip height (cm)	630/26	630/26
Number of seed coulters	14/28	20/40
Row spacing (cm)	28.6/14,3	30.0/15.0
Coulter pressure seed coulters (kg)	5-120	5-120
Seed coulters/press wheels (cm)	34	34
Operational speed (km/h)	6-10	6-10
Horsepower requirement (kW/hp)	150-220/200-300	220-295/300-400
Double-acting control devices	2	2
Depress. return line (max. 5 bar)	1	1
Oil quantity hydr. fan (l/min)	35-45	35-45
Connection via lower link	Cat. III-III/IV-IV	Cat. III-III/IV-IV
Connection via adjustable drawbar	Ring hitch Ø 58-79 mm	Ring hitch Ø 58-79 mm
Connection via ball head	K 80	K 80

\* Weights of the machines with Focus tine section and rape seed bar

HORSCH Focus TD 3-point	Focus 6 TD 3-point	Focus 6.35 TD 3-point	Focus 6.50 TD 3-point
Working width (m)	6.00	6.00	6.00
Transport width (m)	2.98	2.98	3.47
Transport height (m)	3.70	3.70	3.70
Length incl. coulters attachment (m)	10,60	10,60	11,08
Weight incl. coulters attachment (kg)*	9 500	9 500	9 500
Weight without coulters attachment (kg)**	8 400	8 400	8 400
Hopper capacity double hopper (l)	5 000 (2 000 : 3 000 l / 40 : 60)		
Dimension of feed openings (m)	front 0,66x1,22/rear 0,66x1,68		
Filling height double hopper (m)	2.95	2.95	2.95
Tyre size lateral support wheels	15.0/55-17	15.0/55-17	15.0/55-17
Tyre packer size	210/95-24 AS	210/95-24 AS	320/70-24 AS
Tyre packer Ø (cm)	100	100	100
Number of tines	20	17	12
Tine spacing in one row (cm)	60.00	70.60	100.00
Tine spacing (cm)	30.00	35.30	50.00
Frame height (cm)	75	75	75
Release force (kg)/trip height (cm)	630/26	630/26	630/26
Number of seed coulters	20/40	17/34	12/24
Row spacing (cm)	30.00/15.00	35.30/17.60	50.00/25.00
Coulter pressure seed coulters (kg)	5-120	5-120	5-120
Seed coulters/press wheels (cm)	34/32	34/32	34/32
Operational speed (km/h)	6-10	6-10	6-10
Horsepower requirement (kW/hp)	220-295/300-400	220-295/300-400	220-295/300-400
Double-acting control devices	2 (resp. +1 for Maestro preparation kit/Focus 8.90 ST: hydr. depth adjustment disc harrow section)		
Depress. return line (max. 5 bar)	1	1	1
Oil quantity hydr. fan (l/min)	35-45	35-45	35-45
Connection via lower link	Cat. III-III/IV-IV	Cat. III-III/IV-IV	Cat. III-III/IV-IV
Connection via adjustable drawbar	Ring hitch Ø 58-79 mm	Ring hitch Ø 58-79 mm	Ring hitch Ø 58-79 mm
Connection via ball head	K 80	K 80	K 80
3-point linkage coulters bar	Cat. III/III	Cat. III/III	Cat. III/III

\* Weight with minimum equipment with 2-row tine section and coulters bar without coulters extension  
 \*\* Weight with minimum equipment with 2-row tine section WITHOUT coulters attachment

\* Weight with minimum equipment with 2-row tine section and coulters bar without coulters extension  
 \*\* Weight with minimum equipment with 2-row tine section WITHOUT coulters bar







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All specifications and illustrations are approximate and non-binding. Technical features and design are subject to change.

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