

## Front Hopper - Seeding Bars

**TF 1500  
BTF / BTFR  
COMBILINER VENTA CSC 6000**



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**TF 1500** **BTF** **BTFR** **VENTA CSC 6000**

# FROM VERSATILITY TO AUTONOMY



High-capacity front hopper TF 1500 is not only ideal for seeding crops and plant cover, it also serves as a fertiliser hopper, making a powerful combination.

## AN ALL-ROUNDER HOPPER

Optimise your TF 1500 hopper by seeding with higher-autonomy, combining seeding and fertilisation as well as seeding your cover crops. The TF 1500 hopper is compatible with BTF and BTFR seeding bars, COMBILINER VENTA CSC 6000 seeding combination, OPTIMER stubble cultivator, STRIGER strip till tool and MAXIMA AND PLANTER precision seed drills.

## QUALITY PLANTING

BTF rigid seeding bars, BTFR foldable seeding bars and COMBILINER VENTA CSC 6000 seeding combination ensure optimum work output with great soil/seed contact to ensure the germination of your crops.

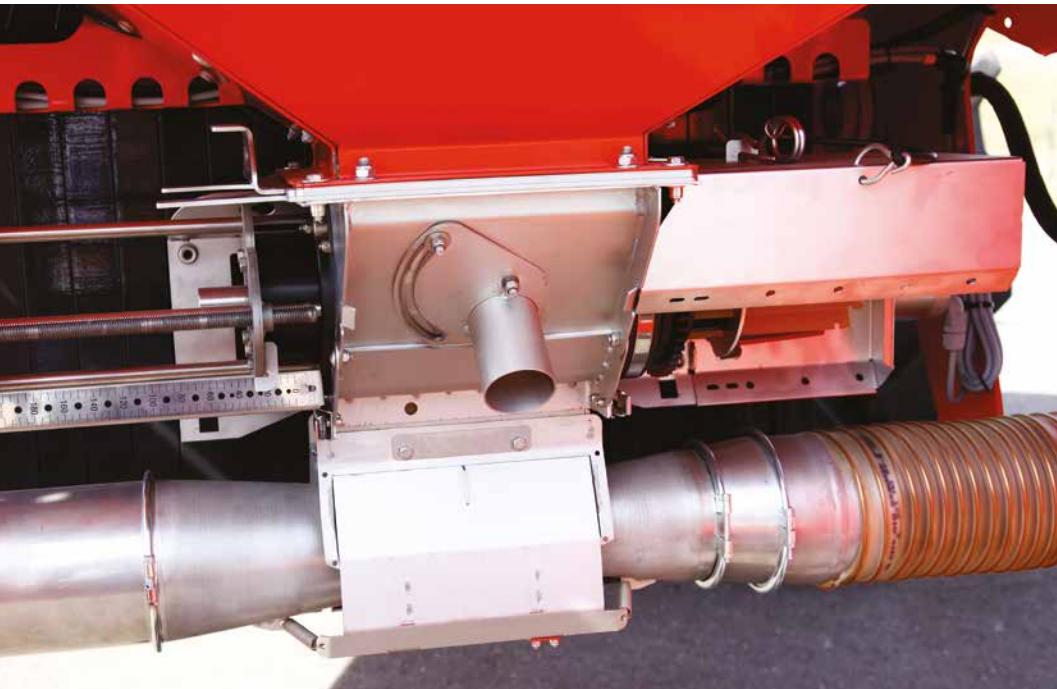


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# INCREASE YOUR DRILLING PERFORMANCE

**Improved load balance between front and rear axle facilitates manoeuvring and reduces soil compaction. With a capacity of 2,000 L and transport width of 2.50 m, the TF 1500 hopper offers high autonomy, easy handling and a compact design.**



## APPLICATION RATE PRECISION

The TF 1500 front hopper is equipped with a VENTA metering system known for its reliability and precision.

The high-capacity volumetric metering system is used to seed all types of seeds and fertiliser from 1 to 430 kg/ha.

All central parts are made of stainless steel, no need for tools or dismantling for maintenance.

Integrated and reliable electric control of the metering system ensures drilling precision even at high speed.



### MODULAR HITCH

Fitted to an integrated front-packer frame (1).

The carrying frame includes four directional packer wheels, 700 mm in diameter.

- they consolidate the soil between the tractor wheels for optimum soil/seed contact,
  - they limit compaction caused by the front wheels of the tractor.
- The wheels positioned under the hopper makes the machine more compact.

For more stability, up to 800 kg of extra balance weights may be added.



Adapted to the tractor using a carrying frame (2).

It comes with 200 kg of standard weights. It can be used when seeding conditions do not require the soil to be consolidated. To improve tractor/machine balance, up to 1,400 kg of extra balance weights may be added to the carrying frame.

## AN INTELLIGENT HOPPER

The QUANTRON S-2 control box provides complete seed management including:

- electronic drill management,
- manual or automatic application rate modulation using GPS for great field starts,
- storage of data and seed calibration settings for 200 fields,
- work counter,
- symmetrical or asymmetrical tramlining of 2 to 12 passages, before and after germination.



BTF 1000

BTFR 1000

COMBILINER VENTA CSC 6000

# SEEDFLEX: THE CENTREPIECE OF YOUR SEED DRILL

Remember that 50 % of your harvest is already determined during seeding. The SEEDFLEX seeding bar will manage this operation to your satisfaction, even at high speeds. With its widely offset double discs, each pair mounted on a parallelogram, your seeding will be fast and accurate.



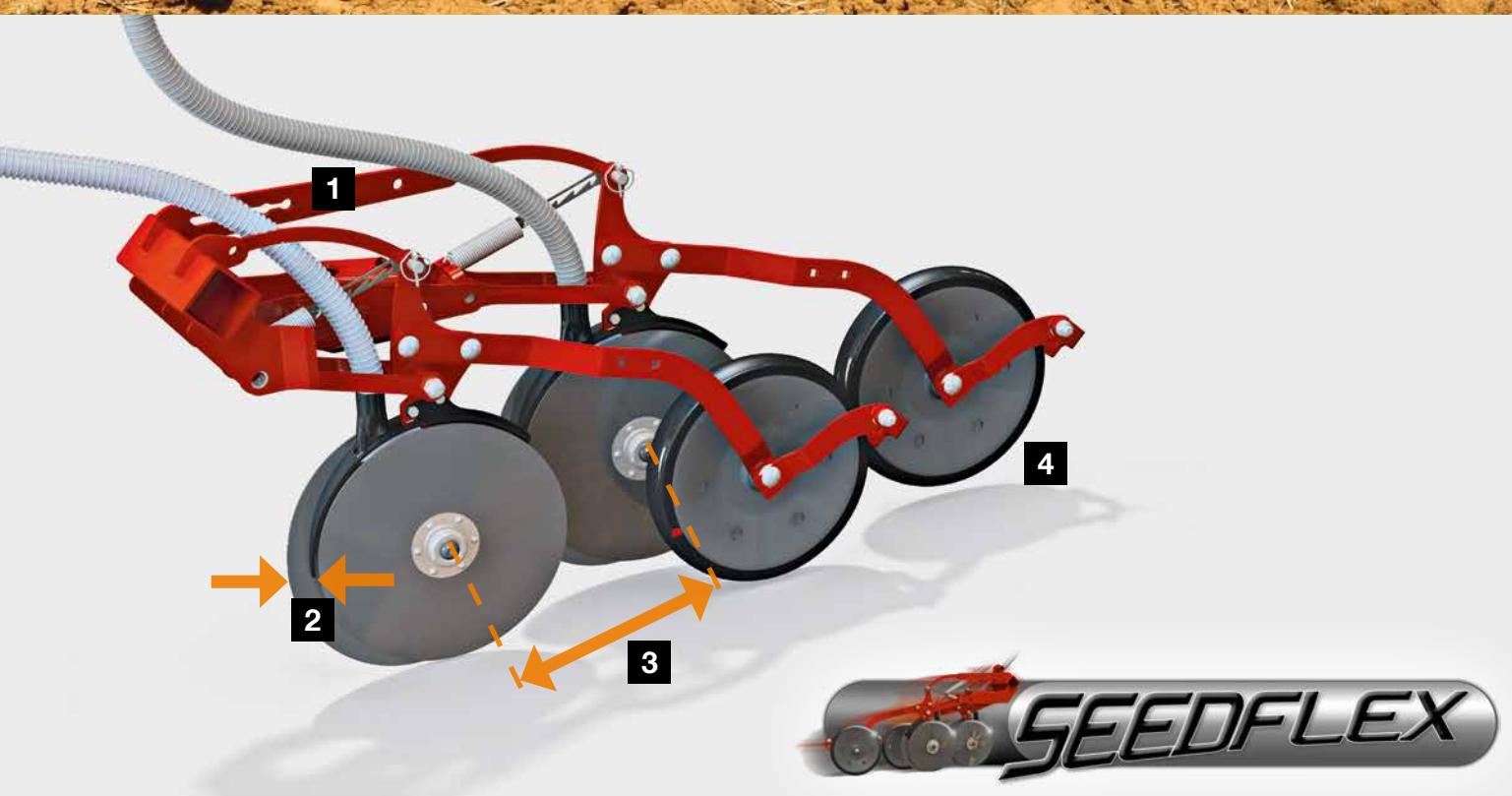
## WHAT'S GREAT ABOUT THE SEEDFLEX COULTER BAR:

- exceptional seeding precision,
- easy passage in the most diverse soil conditions,
- highly efficient in ploughed and min-tilled land,
- coulter pressure that ensures outstanding seeding-unit stability,
- no maintenance required.



**TO FIND OUT MORE**  
about SEEDFLEX advantages,  
scan this code with your smartphone.





#### Seeding depth respected, even at high speeds:

- seeding unit mounted on parallelogram,
- depth control wheel for each row.

#### Improved penetration in all soils:

- double discs offset for clean furrow opening,
- small disc-opening angle to avoid soil spray and facilitate furrow closing.

#### EXCLUSIVE

##### Easier passage in clayey soils and through plant debris:

- 35 cm offset between the two coulter bars.

#### Better soil/seed contact:

- depth control and press wheels control seeding depth, row by row, and ensure dynamic seed germination.

BTF | BTFR

# HIGH PERFORMANCE COMBINATIONS

BTF AND BTFR FORM WELL-BALANCED COMBINATIONS WITH THE TF 1500 HOPPER

Designed for drilling combinations with power harrows, the rigid BTF and folding BTFR seeding bars work just as well in ploughed land as min-tilled.

In combination with a front hopper, the tractor's rear-axle load is reduced resulting in better tractor/machine balance. You also get SEEDFLEX technology or seeding units with Suffolk coulters that ensure exceptionally high-quality seeding.



WORKING WIDTH (M)	RIGID SEEDING BAR	FOLDABLE SEEDING BAR	RIGID SEEDING BAR	FOLDABLE SEEDING BAR
	Seeding units with Suffolk coulters			SEEDFLEX seeding units
3.00	BTF 302	-	BTF 3000	-
4.00	BTF 402	BTFR 402	BTF 4000	BTFR 4000
4.50	BTF 452	BTFR 452	-	BTFR 4500
5.00	-	BTFR 502	-	BTFR 5000

TF 1500 compatible



### ULTRA-SIMPLE ADJUSTMENTS

Seeding depth is adjusted with a turnbuckle that connects the 3-point linkage to the coulter bar.



### GREATER CLEARANCE - EASIER SEEDING

The seeding bar is connected to the power harrow via a double-acting high-capacity hitch system. This increases clearance and ensures:

- easier manoeuvring,
- easy release for use with a precision seed drill,
- the possibility of tilling without drilling.

# AT THE END OF THE DAY HIGH OUTPUT AND



## SEEDING COMBINATION AND INDEPENDENT SEED DRILL

The coulter bar on the COMBILINER VENTA CSC 6000 is fully guided by the roller. This provides many advantages:

- Stability and ground adaptation even in stony conditions,
- The power harrow can disengage easily should it hit an obstacle,
- No need to readjust the coulter bar settings when changing the working depth of the harrow,
- The coulter bar has a hydraulic lift system making it possible to work solo with the power harrow.

High coulter clearance in lift position is a safety feature for manoeuvres.



# SEEDING QUALITY ARE WHAT COUNT



## RELIABILITY AND PRECISION

The VENTA centralised metering system by volumetric fluting is renowned for its simple design and precise metering of seeds of any size.

It manages application rates from 1 to 430 kg/ha and a single setting is all that is necessary to change seed type (or fertiliser). Just shift a plate to change from work position to calibration. Resistant to jolting and vibrations, output is respected when calibrated to a fixed setting and there is less risk of clogging.

## EASY HANDLING

The removable transport frame carries the weight of the combination during road travel. Maximum authorised load on the rear axle and the tractor's gross weight rating are respected. It is equipped with large-diameter pivoting twin wheels and is easy to remove with its semi-automatic linkage system, so it can be left at the end of the field to lighten the load while working. For road transport, the hydraulic top link is set to float position to ensure smooth driving, even on bumpy roads.



# AT YOUR FINGERTIPS



## EASY SETTINGS

Adapt the settings of the seed drill to working conditions precisely and easily from your tractor seat. Both seeding depth and coulter pressure can be adjusted hydraulically from the tractor cab. Two cylinders with spacers (1) serve as setting points for nominal seeding depth and coulter pressure.

## YOUR COMFORT IS IMPORTANT TO US

COMBILINER VENTA CSC 6000 is equipped with the KLH 104 (2) circuit selector as standard. It controls:

- folding/unfolding of the combination,
- coulter bar lift,
- coulter bar height adjustment,
- hydraulic top link.

A double acting hydraulic valve is all that is required to control the four functions.

## KUHN SOS order

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# TRAMLINING MADE EASY

With the COMBILINER VENTA CSC 6000 drilling combination, tramline your seeds at any width; symmetrical rows 2x2, asymmetrical or with specific rhythms.

Model	Working width of seed drill (m)	Working width of sprayer / fertiliser spreader (m)																
		12	15	16	18	20	21	24	25	27	28	30	32	35	36	40	42	45
VENTA CSC 6000	6.00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

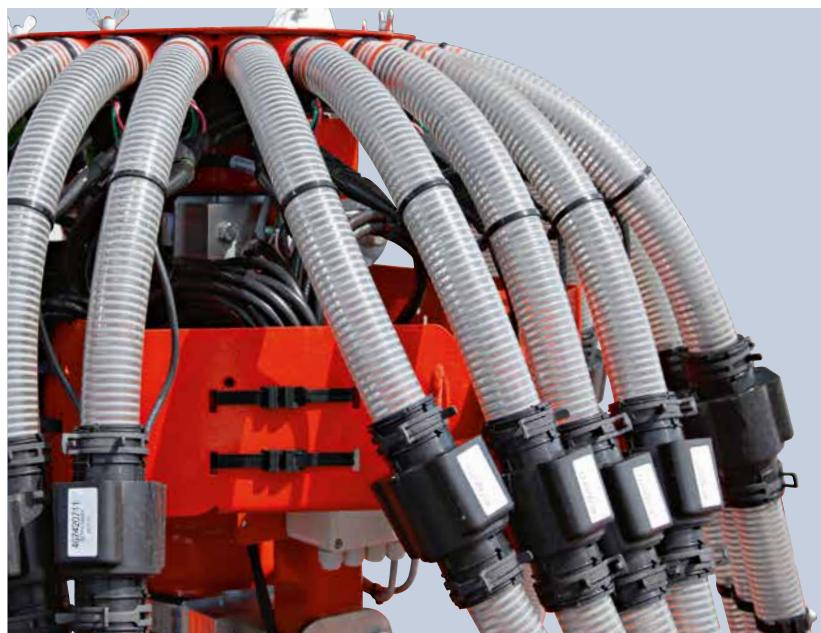
## HALF-WIDTH SHUT-OFF

The distribution head can be equipped with a practical electric half-width shut-off system for working at field borders and points.

## THE BLOCKAGE-WARNING SIGNAL

- More surface area worked by eliminating regular controls,
- the driver can concentrate on driving the machine,
- continuous monitoring throughout the seeding operation.

The presence of foreign bodies in the seeds has unfortunate consequences:  
partial or total blockage of seed tubes, irregular crop emergence, potential yield loss...  
The KLS control box monitors seed flow via sensors mounted on each tube. When an incident occurs, the in-cab terminal alerts the driver with a warning tone and displays the faulty row on the screen. This control box can be fitted to the COMBILINER VENTA CSC 6000 as well as to BTF and BTFR seeding bars as an option.



**COMBILINER VENTA CSC 6000**

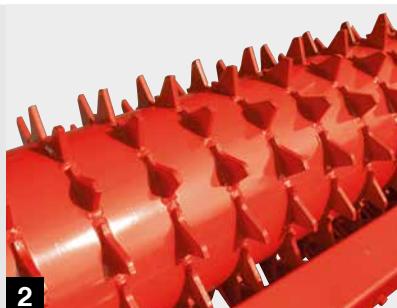
Working width (m)	6.00	
Transport width (m)	2.99	
Hopper capacity (l)	with TF 1500: 1,500 (2,000 with extension)	
Linkage	cat. 3 or 4N	
Max. authorised tractor power (kW/hp)	256 / 350	
Main drive shaft	Waterscheid P series (low maintenance)	
Power harrow	HR 6004 with DURAKUHN coated blades	
Hydraulic top link with safety valve	◆	
Transport system	with semi-automatic linkage	
Transport wheel dimensions	10/75-15.3 (2x)	
Brakes*	-	
Speed signal	tractor radar signal	
Blower drive	via tractor hydraulic LS circuit or independent VARIO drive (800 - 1,000min <sup>-1</sup> )	
Metering unit	1 central fluted metering unit	
Application rate (kg/ha)	1 to 430	
Seeding unit	SEEDFLEX: double disc coulters mounted on parallelograms with 35 cm offset and carbide disc scrapers	
Number of rows	40	
Spacing between rows (cm)	15	
Seeding depth adjustment	hydraulic	
Max. coulter pressure (kg)	45	
Coulter pressure adjustment	hydraulic	
Hydraulic coulter bar lift	◆	
Inner disc scrapers	◆ (with carbide plate)	
Tractor wheel-track eradicators	◇ (with T-bolt or Non-Stop safety)	
Covering harrow*	◆	
Side markers with safety*	◆ (rear folding)	
Rollers	MAXIPACKER or STEELLINER	
Lighting and signalling*	◆	
Electronic equipment*	QUANTRON S-2 on TF 1500	
KLS 128 (seed flow monitoring)	◇	
KLS 104 (hydraulic selector)	◆	
Necessary tractor hydraulic equipment	with TF 1500: 2x DA	
Weight approx. (kg)	with MAXIPACKER roller	5,250
	with STEELLINER roller	5,400

◆ Standard ◇ Option - Not available

\*Basic machine equipment can vary according to country of destination

**ROLLERS****1. STEELLINER ROLLER**

- very good rotation and carrying capacity,
- improved clod crushing capacity on hard, dry ground,
- good soil structure, even in difficult and wet seeding conditions.

**2. MAXIPACKER ROLLER**

- less rolling resistance, requires less traction power,
- less subject to sinking in light soils,
- for light and clayey-silt soils.

## Technical specifications

Front hopper

### TF 1500

Transport width (m)	2.50	
Hopper capacity (l)	1,500 (2,000 with extension)	
Hopper mount	on weight carrying frame or front packer frame with 700 mm wheel	
Carrying frame weight (kg)	Weight carrying frame	300
	Front packer frame	340
Filling height in relation to ground - platform (m)	1.35 - 1.25	
Electronic equipment	QUANTRON S-2: 2 x 2 row shut-off, flow control, application rate adjustment, recording calibrated seeds, low hopper level, distribution monitoring, blower monitoring, daily surface area counter	

## Technical specifications

Seeding bars

	BTF 302 - 402 - 452	BTFR 402 - 452 - 502	BTF 3000 - 4000	BTFR 4000 - 4500 - 5000
Working width (m)	3.00 - 4.00 - 4.50	4.00 - 4.50 - 5.00	3.00 - 4.00	4.00 - 4.50 - 5.00
Transport width (m)	3.00 - 4.00 - 4.50	3.00	3.00 - 4.00	3.00
Number of rows	24 - 28/32 - 36	32 - 36 - 40	20/24 - 28/32	27/32 - 30/36 - 33/40
Spacing between rows (cm)	12.5 - 14.3/12.5 - 12.5	12.5	15/12.5 - 14.3/12.5	15/12.5
Hydraulic coulter bar lift	◆			
Seeding unit	Suffolk coulters		SEEDFLEX: 35 cm double offset discs fitted with carbide disc scrapers mounted on parallelogram	
Press and depth control wheels	-		◆	
Covering harrow*	◆			
Side markers with safety*	◆ (vertical folding)	◆ (rear folding)	◆ (vertical folding)	◆ (rear folding)
Electronic equipment	QUANTRON S-2 on TF 1500			
KLS 128 seed flow monitoring device	◇			
Necessary tractor hydraulic equipment	2 x DA + 2 x SA	1 x DA	2 x DA	
Weight approx. (kg)	485 - 545 - 580	750 - 800 - 850	750 - 970	1,040 - 1,070 - 1,300

◆ Standard ◇ Option - Not available

\*Basic machine equipment can vary according to country of destination

**TF 1500**

# A GREAT MANY COMBINATIONS

## COMPATIBILITY

Front Hopper

TF 1500	
BTF / BTFR 302 to 502 (Suffolk coulters)	X
BTF / BTFR 3000 TO 5000 (SEEDFLEX)	X
COMBLINER VENTA CSC 6000	X
OPTIMER+	X
STRIGER	X
MAXIMA 2	X
PLANTER 3	X

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6. mounted min-till - 7. trailed min-till - 8. precision seed drills

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