

MONOSEM

The precision Planter specialist



MONOSEM New Features Guide - 2018

www.monosem.com



EN

70 YEARS OF INNOVATION

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1 Manufacture

2 Quality control

3 Paint line

4 Assembly

5 Spare parts

6 Showroom / Training center

SERVING PRECISION

Expertise

Quality

Performance

Founded in 1947, the RIBOULEAU MONOSEM company has always placed customer satisfaction at the center of its priorities.

EXPERTISE

- *Innovation* for 70 years now to adapt products to the new practices, whilst conserving the key feature of the precision planting,
- *The advice* provided by an experienced technical sales team,
- *The choice* to meet all needs via the most complete range of the market,
- *The maximum reactivity* for sending your spare parts.



QUALITY

- *The components* carefully selected to maximize the strength, precision and lifetime of the machines,
- *The proven technologies* for simple and precise use of machines,
- *Thorough control* at all stages of the manufacture,
- *High-priced resale* demonstrates the manufacturing quality, robustness and availability of spare parts.

PERFORMANCE

A controlled PLANTING

- ✓ Versatile distribution
- ✓ Optimal seed placement



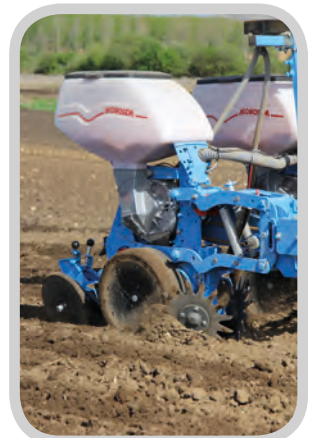
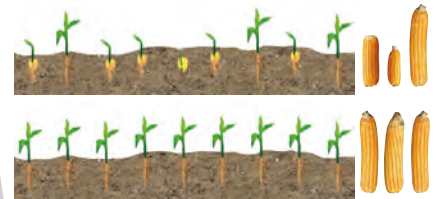
A successful plant EMERGENCE

- ✓ Quality pressing
- ✓ Optimal germination
- ✓ Quick plant emergence
- ✓ Regular crop development



An optimized YIELD

A seeding quality decisive for your performance!



From the conception to the use of your machines, MONOSEM implements all its know-how to guarantee a successful seed placement of your crops!

TFC2 FRAME WITH

From now on, it is possible to manage seed population, fertilizing and microgranules, from the tractor cab, thanks to the 100% electrically driven planter.

Developed on a TFC2 frame, this 8-row «maize» planter has a new 1350-litre fertilizer with FertiDrive^{VE} electric drive.



1 Monoshox NG Plus M_E metering units



- Metering units with electric drive.
- Non-stop modulating of the seed population directly from the tractor cab.
- Row by row cut-off (manual or automatic if the terminal is linked to a GPS antenna).

2 ISOBUS Terminal



100% ELECTRIC DRIVE



3

Fertilizer with FertiDrive^{VE}



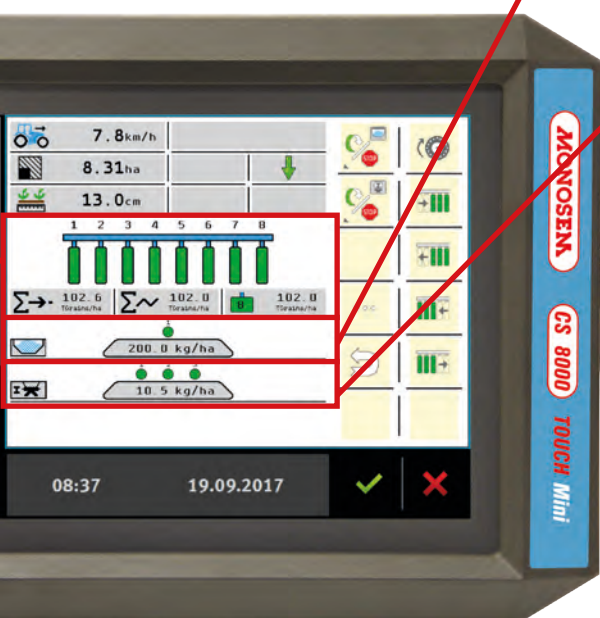
- Fertilizer with electric drive.
- Non-stop modulating directly from the tractor cab.

4

Microsem with MicroDrive^{VE}



- Microsem with electric drive.
- Non-stop modulating directly from the tractor cab.
- Section cut-off (manual or automatic if the terminal is linked to a GPS antenna).



Seed population, fertilizing and microgranules quantity controlled directly from your ISOBUS terminal!

- **Simplicity**
- **Precision**
- **Comfort**

- Compatible with the ISOBUS TOUCH Mini, TOUCH, TOUCH Pro terminals or the tractor terminal (if it is compatible).
- Seed population, fertilizing and microgranules quantity control.

Already certified by the AEF (Agricultural Industry Electronics Foundation) for UT, TC-BAS and TC-SC features on its electric planters, MONOSEM appears as a leader by receiving the TC-GEO certification, the last feature certified by this organization; moving calmly towards tomorrow's Agriculture.



ZERTIFIKAT - CERTIFICATE - CERTIFICADO - CERTIFICADO - CERTIFICADO - CERTIFICADO - CERTIFICADO

CERTIFICATE

The Agricultural Industry Electronics Foundation (AEF) certifies that the below mentioned product developed by

MONOSEM

Monosem,
12 Rue Edmond Riboulet, 79240 Largeasse, France,

has been successfully tested and is in compliance with the ISO standard 11783 and with the AEF ISOBUS functionality guidelines.



The AEF ISOBUS Conformance Test Version 2017/3 has been executed on October 6th, 2017 by

Kereval
Rue Hélène Boucher 4
35235 Thorigné Fouillard
France

This Certificate is registered under Compliance Certification ID (CCID) 770/2017/3/603/4.

ECU Manufacturer **Monosem**
Hardware-ID **000151**
Software-Version **V6.08#**
WTK ISOBUS Layer C 3.10.3#

Functionalities:

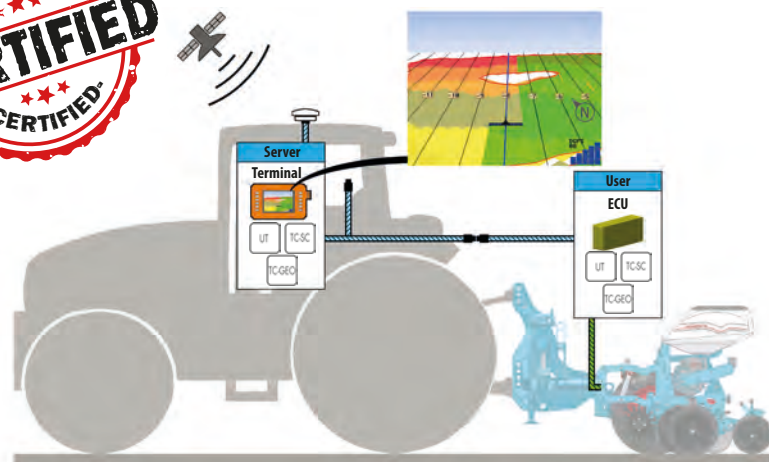
UT 2.0	TC-BAS 1.0	TC-Geo 1.0	TC-SC 1.0
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Peter van der Vlugt, Chairman,
October 6th, 2017

Agricultural Industry Electronics Foundation (AEF), Lyoner Straße 18, 60528 Frankfurt/Main, Germany.



TC-GEO features



• Working comfort

• Saving of seeds

• Yield optimization

TC-GEO FEATURES



New

The electric drive of the metering units offers the possibility of non-stop modulating of the seed population directly from the tractor cab. Today, due to the TC-GEO feature integrated to electric planters (with ECU S8000E), the seed population can be managed automatically according to the planter position in the field.

Interest:

- Automatic adjustment of the seed population following a recommendation map.
- Adjustment of the seed population depending on the field potential.

The other features certified by the AEF



MONOSEM received the AEF certification for its electric planter ECU (ECU S8000E) and its electric front-mounted

fertilizer ECU (ECU F800E). This certification guarantees a maximum compatibility between the tractor and MONOSEM tools.

The MONOSEM planters (with ECU S8000E) are certified UT, TC-BAS, TC-SC and TC-GEO. The front-mounted fertilizers are certified UT, TC-BAS and TC-SC.



UT feature



The terminal is the interface allowing the user to control the planter. Certified UT, the planters (ECU S8000E) and the front-mounted fertilizers (ECU F800E) can be managed with all the ISOBUS compatible terminals.

- Working comfort
- Versatility: one screen for all the ISOBUS machines



TC-BAS feature



The TC-BAS feature enables the automatic and continuous saving of all data concerning the work done.

- Traceability



TC-SC feature



Planters with ECU S8000E have the TC-SC feature. This function allows the automatic row cut-off control according to the GPS position and the desired degree of overlap.

- Cross-overs are limited:
 - Saving of seeds
 - No competition between the plants
- Working comfort

FRAME WITH MULTIPLE

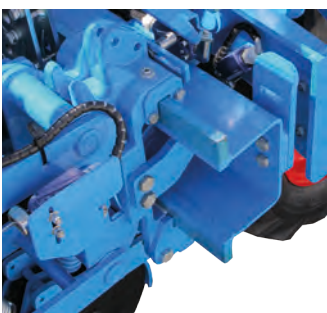
To meet farmers demands for multi-purpose planters, MONOSEM developed a new frame range named MultiSlide. Based on a sliding system of the metering units, it allows multiple possibilities to suit the different inter-row spacings.

Folding of the wings



- 3-metre transport width (also available in 2m55 version on certain models).
- Folding wings for working width of 4m00, 4m50 or 6m00 depending on the model.
- Wings automatic locking in transport position.
- Can be used with a low powered tractor due to its limited weight.

Integrated sliding rail



- Hydraulic sliding of the metering units.
- System with short off-set: reduced overhang.
- Claw system for a reliable and optimal sliding.
- Integrated safety system (sliding of the metering units impossible with folded wings).

Front wheel units with wide wheels



- 2 Front wheel units.
- 26x12 Wheels (23x10,5 wheels on 2m55 version).
- Rapid adjustment of the tread to suit the inter-row spacing (except on the 2m55 version).



Available models

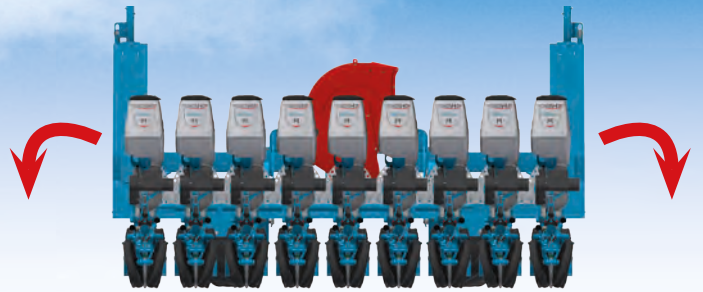
Frames	MultiSlide 6/7-row			
	4 m 00		4 m 50	
Width of the frame	4 m 00		4 m 50	
Transport width	2 m 55		3 m 00	
Metering units	Monoshox			
Number of rows	6	7	6	7
Inter-row spacings (cm)	75	50/60	75/80	50/60
Tyres	2 x (23 x 10,5)		2 x (26 x 12)	
Fertilizer				
Microsem				
Crops (example)	Maize, sunflower, rapeseed, sorghum, soya, ...			

A multi-purpose frame to meet all your requirements!

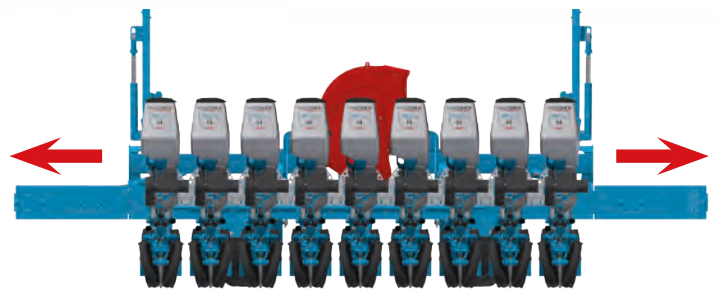
INTER-ROW SPACINGS: MULTISLIDE



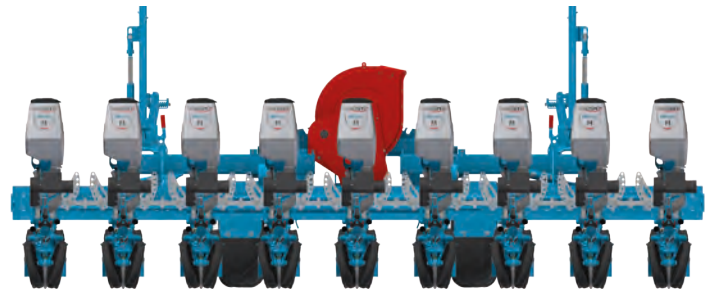
Transport position: 3-metre width on the road (2m55 on certain models)



Unfolding of the wings



Metering units sliding sideways



Example of configuration: 9 rows at 50 cm



Example of configuration: 6 rows at 75 cm

MultiSlide 6/9-row		MultiSlide 8/9-row	
4 m 50		6 m 00	
3 m 00		3 m 00	
NG Plus M€ or NG Plus 4€ (electric drive)			
6	9	8	9
75/80	45/50	75/80	55/60
2 x (26 x 12)		2 x (26 x 12)	
On option - Front-mounted hopper			
On option - MicroDrive ^{VE} (electric drive)			
Maize, sugarbeet, rapeseed, beans,		Maize, rapeseed, sunflower, sorghum, ...	

See the demo
in video!



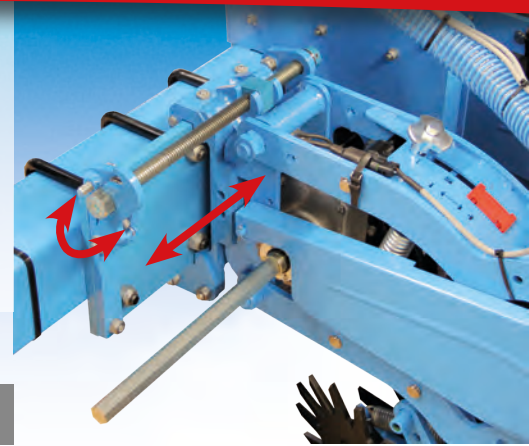
Exclusive inter-row spacing adjustment system

- All the configurations are available permanently on the planter.
- Locking system without pin.
- Inter-row spacing adjustment by steps of 2,5 cm (from 45 cm to 80 cm depending on the model).



MIXED FRAMES WITH

Have a multi-purpose planter with a quick and simple system to change the inter-row spacing: that is the main advantage of the MONOSEM mixed TFC2 and Monoblock2 planters equipped with EasySlide plates.



Operating principle

- The metering units are mounted on EasySlide sliding side plates,
- It is possible to slide the metering units (up to 250 mm) in the field, just with a spanner,
- This system creates just a short off-set (only 75 mm),
- An automatic locking system allows the metering units to keep their working position,
- The non-used metering units can be lifted thanks to the hydraulic lift of the metering units system*.

* As standard or on option depending on the model

Available models

Frames	Monoblock2 - Mixed 6/7		TFC2 - Mixed 8/12		TFC2 - Mixed 8/11	
Width of the frame	4 m 50		6 m 00		6 m 00	
Number of rows	6	7	8	12	8	11
Inter-row spacings (cm)	75 80	56,2 60	75 80	45 or 50 45 or 50	75 80	55 55
Tyres	2 x (26 x12)		4 x (26 x 12)		4 x (26 x 12)	
Transport width	3 m 50		3 m 00		3 m 00	
Fertilizer	Option 1030-litre hopper		Option Front fertilizer		Option Front fertilizer	
Microsem	On option with MicroDrive ^{VM}		On option with MicroDrive ^{VM}		On option with MicroDrive ^{VM}	
Crops (example)	Maize, sunflower, rapeseed, sorghum, soya, ...		Maize, sugarbeet, rapeseed, beans,		Maize, rapeseed, sunflower, sorghum, ...	

**And many other possible uses, on demand,
to meet specific needs such as for seed production.**

TFC2 and Monoblock2: frames designed for maximum versatility

Because of its front wheel units, the EasySlide plates are particularly suited to the TFC2 and Monoblock2 frames. Associated with a lateral seed spacing gearbox on the Monoblock2 or in high position on the TFC2, the bar where the metering units are fixed is free, allowing their sideways slide.



EASYSLIDE PLATES

Mixed 8/12-row TFC2

Mounted on a 6-meter TFC2 folding frame, the plates permit to change a 12-row planter (45 or 50 cm inter-row spacing) into an 8-row planter (75 or 80 cm inter-row spacing). Thus it is possible to seed sugarbeet, rapeseed, maize, beans, ... with just one planter.



Less than 30 min

-  Distribution discs changing
8'00"
-  Metering units sliding sideways using EasySlide plates
20'00"
-  Vacuum cut-off
22'00"
-  Rear press wheel unit lifting
23'00"
-  Row markers adjustment
25'00"
-  Metering units hydraulic lifting
26'00"

Change a 12-row sugarbeet planter into an 8-row maize planter in less than 30 minutes, changing of the discs included!

**See the demo
in video!**



FERTILIZERS

To meet the farmers expectations, MONOSEM completes its fertilizer range with: a 4-row planter with 740-litre fertilizer, a 6-row planter with 980-litre plastic fertilizer, an 8-row TFC2 planter with 1350-litre fertilizer and an 8-row maize cultivator with 1030-litre «High Capacity» hopper.

4-row planter with 740-litre fertilizer

- 740-litre hopper
- For 4-row planters with shoe (NC range) or double-discs (NG Plus 4 or Monoshox NG Plus M ranges)
- Mounted on a Monobar Monoblock frame with welded hitch: reduced overhang and heavy frame
- Can be used in combination (with power harrows for example)
- Wide opening for easy loading of big bags
- Two trapdoors



New

High capacity fertilizer with reduced overhang



4-row maize planter with fertilizer

Type of frame	Monobar	Monoblock 260	Monobar Monoblock	Monobar Monoblock
Number of rows	4	4	4	4
Inter-row spacings (cm)	70 / 75 / 80	70 / 75 / 80	70 / 75	70 / 75 / 80
Transport width	3 m 00	3 m 00	2 m 55	3 m 00
Fertilizer	2 x 175 L	980 L	740 L	740 L
Fertilizing units	Tines or discs	Tines or discs	Tines	Tines or discs

6-row planter with 980-litre plastic fertilizer



- 980-litre hopper
- Unbeatable resistance to corrosion
- Wide V-shaped opening
- Rapid emptying trapdoors on each side of the hopper
- Adjustment by FertiDrive™ (option)
- Outer rows by air
- Compatible with Microsem with MicroDrive™



6-row Maize planter with plastic fertilizer

Type of frame	Monoblock Single telescopic	Monoblock Double telescopic
Number of rows	6	6
Inter-row spacings (cm)	70/80	70/80
Transport width	3 m 50	3 m 00
Fertilizer	Capacity	980 L
	Drive	By chain as standard equipment - adjustment by FertiDrive™ on option
	Fertilizer units	Tines or discs

FERTILIZERS

8-row TFC2 planter with 1350-litre fertilizer

- 1350-litre hopper
- For 8-row TFC2 planters
- Emptying trapdoors
- Individual trapdoors
- Wide opening for easy loading of big bags
- Step access



New

8-row Maize planter with fertilizer				
Type of frame	Double bar folding frame	TFC folding	TFC2 folding	Pull-type WingFold
Number of rows	8	8	8	8
Inter-row spacings (cm)	70 / 80	70 / 80	70 / 80	70 / 80
Transport width	3 m 00	3 m 00	3 m 00	3 m 00 (according to models)
Fertilizer	4 x 175 L or Front-mounted hopper	1500 L	1350 L or Front-mounted hopper	1500 L
Fertilizer units	Tines or discs	Discs	Discs	Pivoting discs

8-row maize cultivator with 1030-litre High Capacity fertilizer

- 1030-litre hopper
- Wide opening and access platform: easy loading of big bags
- Transparent windows: visual checking of the fertilizer level
- Rapid emptying trapdoors
- Adjustment by FertiDrive^{VM}



New

Maize cultivator with fertilizer					
Type of frame	Monobar (Off-set hitch)	Monoblock	Monobar (Off-set hitch)	Monoblock	Monobar (Off-set hitch)
Number of rows	6	6	6	8	8
Inter-row spacings (cm)	70 / 75 / 80	70 / 75 / 80	70 / 75 / 80	75 / 76,2	75 / 80
Hydraulic folding	•	•	•	•	•
Transport width	3 m 00	3 m 00	3 m 00	3 m 00	3 m 00
Fertilizer	2 x 270 L	980 L	Front-mounted hopper	1030 L	Front-mounted hopper
Land wheels	○ 2 x 500 x 8	● 2 x 500 x 8	○ 2 x 500 x 8	● 2 x 23 x 10,5	○ 2 x 500 x 8

Fruit of a MONOSEM development, the new CS 10 and CS 30 seed monitors are easy to use, intuitive and ergonomic.

CS 10 and CS 30 Seed monitors



CS 10-8



CS 30 Classic



CS 10-16



CS 30 Comfort

	CS 10		CS 30		
	CS 10-8	CS 10-16	Classic	Comfort	
Functions	Seed drop control row by row	✓		✓	
	Alarm if no seed	✓		✓	
	Stop alarm	✓		✓	
	Alarm programmable threshold	✓		✓	
	Working speed	-		By sensor (radar option)	
	Total and partial surface counting	-			✓
	Average population	-		-	✓
	Distance between seeds	-		-	✓
	Turbofan rotation control	-		-	Option
	Fertilizer passage control	-		-	Option
	Microsem rotation control	-		-	Option
Technical Features	Display	Two-colored LED		4,3" Screen	
	Connectivity	-		USB Port	
	Dimensions (LxHxD) (mm)	135 x 230 x 55			
	Maximum number of rows	8	16	18	
	Compatibility	All ranges, except electric drive			



Optimized handle: have access to all the buttons with the thumb!



On the CS 30, USB port to update the monitor

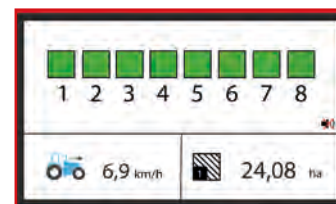
✓ : Standard -: Not possible



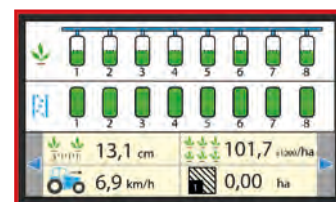
Sensor for fertilizer passage control



Upgradable,
the CS 30 Classic can be updated to a Comfort version thanks to an activation key!



CS 30 Classic working screen



CS 30 Comfort working screen

The new TOUCH Pro terminal completes MONOSEM terminals offer. Its ISOBUS features make it an ideal terminal to control the electric planters (seed population and row cut-offs) and the electric front-mounted fertilizers, directly from the tractor cab.

ISOBUS TOUCH Pro terminal

New



TOUCH Mini



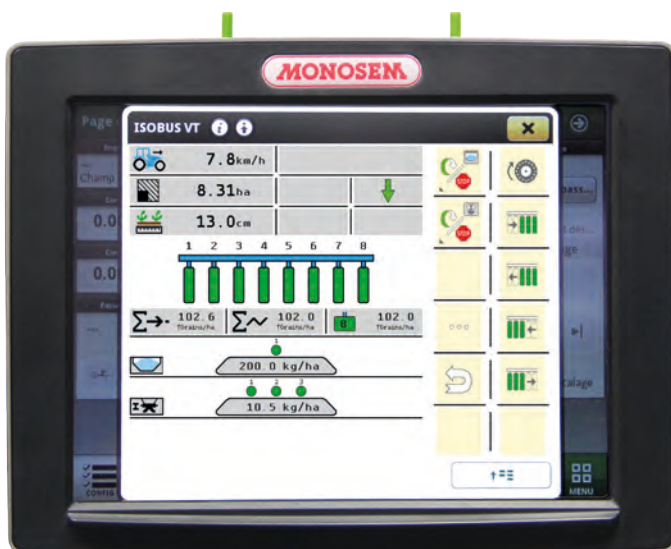
TOUCH



TOUCH Pro

		TOUCH Mini	TOUCH	TOUCH Pro
Screen	Size	8"	12,1"	10"
	Touch screen	✓	✓	✓
	Multi-display		✓	✓
ISOBUS compatible	UT	✓	✓	✓
	TC-SC	✓	✓	✓
	TC-BAS	Option	✓	✓
Variable rate control				✓
Connectivity	USB	2.0	2.0	2.0
	Wifi			✓
	Video (Camera)	✓ (1 input)	✓ (2 inputs)	✓ (4 inputs)
Dimensions (LxHxD)		244 x 186 x 67	345 x 254 x 87	268 x 212 x 55

UT: Universal Terminal - TC-SC: Task Controller - Section Control - TC-BAS: Task Controller - Basic (totals)



- 1 USB Port
- 2 Communication ports (USB, Ethernet and additional monitor)
- 3 Wifi antennas
- 4 Main connector
- 5 Video interface (up to 4 inputs)

Re-sale value

The re-sale value gives a good indication of the quality of a product and its suitability to the market. So when you decide to sell your MONOSEM planter, you will appreciate its high re-sale value.

MONOSEM quality

The quality has always been a main concern of MONOSEM. This is why when manufacturing the greatest care is taken in the quality control of the products.

Advice

The MONOSEM partners are specialists qualified to inform you on planting and help you out with solid advice.

The experience

Throughout the world, quality and reliability are often associated with MONOSEM. This is the result of a certain know-how gained in over 70 years of experience in agriculture.

Spare parts

Our spare parts department have available a large stock of original spares and accessories. So even after several years you will be sure to find the parts you require at your MONOSEM partners.



Multi-purpose pneumatic Monoshox NG Plus M planter with discs

Multi-purpose pneumatic NG Plus 4 planter with discs

Special pneumatic « low-till » planter Monoshox NX M with discs

Multi-purpose pneumatic planter with NC shoes

Special vegetable planter for mini-seeds MS

Mechanical planter for pelleted sugarbeet MECA V4

SCD and Multicrop cultivators



The precision Planter specialist

Distributor

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All the data concerning the equipment, the general appearance, the weight and dimensions are current at the date of printing and vary according to countries. They may be modified without previous notice.

This brochure cannot be considered as a binding document. Your Monosem partner will not hesitate in informing you of any possible changes.

In order to illustrate this brochure, certain safety housings and mechanisms may have been removed.

Apart from this particular case and complying with the recommendations in the manual, these must remain fitted.

Ref. : 90018EN - 11/17