# VITASEM

Mechanical seed drills



POTTINGER

8 POTTINGER



## The best drill – the best harvest

PÖTTINGER seed drills meet the highest demands in functionality, reliability and performance. Unique metering systems, uniform seed placement and convenient operation are among their trademarks.

#### **VITASEM / VITASEM CLASSIC**

Mechanical linkage-mounted

#### **VITASEM A / VITASEM A CLASSIC**

Mechanical implement-mounted

#### VITASEM ADD

Mechanical implement-mounted seed drills with DUAL DISC coulters

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All information on technical data, dimensions, weights, output, etc. is approximate and is not binding.



## VITASEM VITASEM CLASSIC

Linkage-mounted seed drills







You can use VITASEM linkage-mounted seed drills on their own or in a combination with soil preparation implements.

## VITASEM linkage-mounted

The large ground wheels drive the metering shaft and reduce the pressure the machine exerts on the soil. Wheel scrapers are standard equipment.

- The three-point linkage mounting with rugged mounting lugs and two top linkage positions enables rapid attachment to the tractor.
- The headstock is bolted to the seed hopper for added strength.

### Additional equipment options

- Proven spring-loaded track eradicators.
- Compensator for lower linkages when using the seed drill on its own.
- Track eradicator for seed drill wheels: angle and penetration of the tine can be adjusted. (1)
- The tine can be folded away for transport.

## VITASEM CLASSIC

- The seed hopper height is 2.36" / 60 mm lower on VITASEM CLASSIC seed drills.
- Featuring a smaller seed hopper and semi automatic track markers this is the lightweight version for smaller tractors.



## VITASEM A VITASEM A CLASSIC VITASEM ADD

Mechanical implement-mounted







#### In the field the weight of the seed drill acts directly on the rear roller. The power harrow retains its freedom of movement and can ride over stones.

Mounted on power harrows or compact combinations, the weight of the seed drill is placed as far forward as possible. The additional weight of the seed drill on the rear roller provides even better consolidation of the seedbed.

The distance between the coulters and the power harrow rear roller is minimised to form a compact unit.

## VITASEM A / VITASEM A CLASSIC

- Suffolk coulters or single-disc coulters
- Coulter pressure up to 55 lbs / 25 kg.
- Depth guidance wheels optional on single-disc coulters.

VITASEM A CLASSIC models have a smaller seed hopper. They are consequently lighter and designed for operation with smaller 4-cylinder tractors. Very good visibility to the rear is possible thanks to the lower seed hopper.

## VITASEM ADD

The large DUAL DISC coulters allow high working speeds when mulch drilling and operating in heavy, hard soils.

- Coulter disc diameter 13.78" / 350 mm.
- Coulter pressure up to 110 lbs / 50 kg.







## Quick and easy configuration

VITASEM A implement-mounted seed drills are quickly and easily fitted to and removed from the soil preparation implement.

#### Easy to fit:

- Reverse under the seed drill and lift the power harrow.
- Fit locking bars to secure seed drill. (1)
- Remove retention pins on rear roller to create parallel linkage between packer and drill
- Fit top link to seed drill.

## Parallel linkage

The implement-mounted drill is fixed to the rear roller and guided via the top link that forms a parallel linkage. (2)

- Packer and seed drill form a single unit.
- This enables the working depth of the power harrow to be changed by adjusting the roller without having to correct the seed drill top link.





## Compact unit with centre of gravity close to tractor

## A hydraulic cylinder is also available to pivot the seed drill up over the power harrow. (3)

- The best position of centre of gravity in relation to tractor.
- The high ground clearance of the drill coulters means that the power harrow can be used on its own – For example: levelling of plough furrows. (4)



Shallow working Deep working

#### Tillage

Consolidation

#### Placing and covering

Levelling

## Seed hopper





## Practical seed hopper

The front and rear wall of the VITASEM seed hopper is so steep that all the seed flows to the metering system without the need for an agitator. The headstock is integrated into the seed hopper centre wall and bulkhead plate for highest possible strength. A partition plate inside the hopper prevents the seed from wandering to one side when working across slopes.

A seed level indicator is fitted as standard.

#### Rugged lid with rubber seal and gas strut as standard

Two angles of opening are possible with a limit stop (85° or 103° for Big-Bags).

The design of the seed hopper lid is unique in the farming business and has been adopted from the automotive industry. Instead of being welded, the lid plate is bonded to its frame so that no weld seams are visible.

### Rotating or oscillating agitator

- Available as options for seed material that is liable to bridge or does not flow well, such as grass seed.
- Can be disengaged manually easily and quickly.







## Seed flow

The seed is drawn straight from underneath the feed funnel. This system ensures uniform seed flow, even when working up, down and across slopes.

#### Empties completely - no cleaning required

Wide, funnel-shaped outlets above each metering wheel ensure precision feed right down to the last grain, guaranteeing minimum residues and low minimum filling quantities.

The wide opening angle of the bottom flap allows for simple emptying and ensures that the metering area is completely emptied.

## Wide loading platform

Operator access is on the left with a folding step and handrail along seed hopper. Optional right-hand bridging step available for VITASEM A. The secure handrail is mounted directly onto the seed hopper (not to the lid) for enhanced safety.

Easy to fill thanks to plenty of space for seed sacks, the handrail on the seed hopper and the large hopper opening.



## Multi sowing system



### Perfection, seed by seed

## Their unique seed metering system is the trademark of VITASEM seed drills.

Two completely independent metering units are combined in the one seed housing. The metering wheels are located on the same metering shaft. The advantage is that the small seed and normal metering wheels no longer need to be individually locked.

Central adjustment of seed flaps. The spring-loaded, individually adjustable flaps can easily ride over foreign objects. The partition integrated into the seed flap prevents overflowing. The raised partition prevents grain overflow when changing from fine to normal metering, guaranteeing precision seed flow.

- The metering wheels are suitable for all kinds of standard seed types.
- The multi-sow system handles any seed with perfect metering accuracy – from 0.62 to 357 lbs per acre / 0.7 to 400 kg per hectare.
- Two individual metering wheels in each housing mean you can switch between normal seed and small seed metering within minutes.
- The benefit of this innovative solution lies in the considerable improvement to seed output accuracy with small seeds and the ease in changing between seed sizes.

The main priorities of seed drill technology – reduction in wastage and optimised plant distribution density – have been well catered for.



## 3 in 1 multi-sow system







morning cereals
midday oil seed rape
evening clover, etc.

## Normal metering

#### Standard seed, small seed

A separate inlet slide for the small seed and normal seed range make it easy to switch between small seed and normal seed metering by pushing in or pulling out the slides. The system guarantees you can switch the metering in seconds.

The optimised shape of the metering peg ensures the highest level of seed care.

Drilling oil seed rape with low numbers of seed per square meter for optimum plant distribution density is ensured by the unique small seed metering wheel with its sawtooth shaped profile.

### Reverse metering

#### Precision sowing principle for poppy seed and clover, etc.

Unique amongst mechanical seed drills.

To plant small seeds, the direction of rotation of the metering shaft is amongst by simply switching the gears in the side drive unit. Small hollows on the rear of the sowing wheel pegs take only one grain and drop it overhead into the seed funnel.

Ideal for extremely low seed density below 0.89 lbs/acre / 1 kg/ha.



## VITASEM / VITASEM A

Suffolk coulters / Single-disc coulters



## Best seed placement guaranteed

Yield at harvest is influenced by precision seed placement. Regardless of whether you have light, heavy, dry or moist soil – optimum placement of the seed is critical for a satisfactory harvest.

#### Central coulter pressure adjustment with indicator scale (1)

#### Equal coulter pressure system (2)

for the same pressure on front and rear coulters.

#### Perfect seed slot – precise depth control (3)

#### **Consistent row spacing**

Coulter arms are secured using a large clamp mounting on the coulter rail. Wide coulter arm mountings are fitted with replaceable bushes and the ability to ride over foreign bodies with up to 7.09" / 180 mm movement upwards.

Inter coulter rail spacing (offset) of 11.81" / 300 mm provides plenty of clearance for blockage-free sowing. Seed depth is controlled via the coulter pressure even without press wheels.

#### The PÖTTINGER disc coulter system for best seed germination

The concave disc coulters are suitable for mulch drilling and when there is a lot of organic matter. PÖTTINGERs diagonally tracking disc coulters open up the soil. The cast shoe, similar to a Suffolk coulter, removes wilted straw and crop residues from the seed placement area and forms a neat seed slot. Uniform seed germination is guaranteed as a result.

## VITASEM / VITASEM A

## Advanced coulter system





Different shapes of coulter with an inter coulter rail spacing (coulter offset) of 11.81" / 300 mm provide sufficient clearance even when operating in harvest trash.

#### **Disc coulters**

Concave 12.60" / 320 mm diameter single disc coulters are equipped with special dust tight seals.

The rotating scrapers are adjustable and located to the rear so as to not reduce side clearance. Easily handles large clods.

The disc coulter is fitted with a long life hard wearing cast coulter point.

#### Suffolk coulters

The Suffolk coulter is suitable for soil conditions where there are low amounts of organic matter.

A protective flap closes each coulter automatically if the machine moves backwards.

The spring-mounted coulter can fold back for reliable protection.

■ Wear-resistant cast coulter points.

#### Depth guidance press wheels

Depth guidance press wheels  $9.84 \times 1.57$ " /  $250 \times 40$  mm available as option to limit depth and provide consolidation Straightforward pin-in-hole depth adjustment. Can be fitted and removed by hand – no tools needed.

- Even placement depth even in changeable soils.
- Presses down to cover seed perfectly. Reliable germination even in dry conditions.





## Large dimensioned seed funnel

- The large dimensioned seed funnel for transition to seed tube (especially for spelt).
- The rubber gaiters provide maximum flexibility of the seed tubes to ensure perfect transport between the metering wheel and the coulter.



The telescopic seed tubes are manufactured from stainless steel at the top and synthetic at the bottom to provide the lowest friction. This combination of materials greatly reduces the static charge in the seed grains.





## VITASEM ADD

## DUAL DISC Coulters







The large diameter DUAL DISC coulters cut right through surface trash to form a uniform, tidy seed slot. Harvest residues are not pressed into the ground. This system achieves a uniform, tidy seed slot. World-class technology for future-safe arable farming.

## DUAL DISC

- Disc coulter diameter 13.78" / 350 mm, up to 110 lbs / 50 kg coulter pressure.
- Row spacing 4.92" / 125 mm for best plant distribution density.
- Row spacing 5.91" / 150 mm for difficult soil conditions.
- Maintenance-free coulter system.
- Aluminium coulter arms to reduce weight.
- Equal length arms constant coulter pressure system.
- Each of the disc coulters is guided by a press wheel to ensure uniform seed placement and depth – press wheel diameter 12.99" / 330 mm.
- Inter coulter rail spacing of 11.81" / 300 mm provides a large clearance and smooth material flow even with large amounts of organic matter.

A well-formed, tidy seed slot is essential for successful drilling. The guarantee for optimum placement and uniform germination. The seed is placed at defined intervals, covered with a layer of fine soil and firmed down by press wheels.

#### Easy depth adjustment

The depth can be quickly adjusted using the ratchet spanner provided, on either side at the front of the seed drill.

The depth scale guarantees uniform seed placement and depth.



# Perfect sowing







## Rear harrow options

The 0.39" / 10 mm harrow tines feature coil springs for perfect ground tracking. Shocks are absorbed using maintenance-free rubber mountings and damage is prevented if the machine is reversed inadvertently.

- Central tine angle adjustment.
- Easy to use adjustment functions for depth and pressure.
- Outer tines can be retracted for road transport (9.84 and 13.12' / 3.0 and 4.0 m transport width).
- No additional adapters required if press wheels are fitted

## Standard single-row harrow tine

- The tines are positioned between the seed lines.
  - Ridging is prevented by a pair of cranked harrow tines at either end.
- These tines are positioned between the seed lines. to prevent blocakges even in heavy organic material.

## PERFEKT harrow tines

- Designed for an intensive levelling effect.
- Cranked tines sweep the whole surface level.
- The seed is covered effectively, even when placed at a shallow depth. The result is uniform germination of every seed.









## Step-less metering gearbox runs in high viscosity oil

### Consistent land wheel drive

- On VITASEM A seed drills the land wheel is positioned within the working width no need to remove the wheel for road transport.
- The large diameter wheel has a large area of contact with the ground to minimise slippage. A hydraulic lift system is also available.
- The gears inside the infinitely adjustable metering gearbox run in high viscosity oil for smooth, uniform seed flow, even at low speed.
- Quick, accurate adjustment of the seed rate by shifting the lever on the finely-calibrated scale on the side of the machine.
- The number of revolutions for calibration are reduced by half.

## Electric metering

### For VITASEM A / VITASEM ADD

- Electric metering is available as an option in connection with a POWER CONTROL or CCI ISOBUS control terminal.
- The speed signal is provided by the optional DGPS sensor or by the tractor radar sensor.
- No land wheel.
- The seed flow rate can easily be adjusted from the tractor seat.
- Calibration at the press of a button.



## Easy to set up







## It couldn't be more straightforward

All adjustments can be made from the left-hand side or rear of the machine. Everything in one place saves time. The adjustment controls are easily accessible and positioned ergonomically.

## Central coulter pressure adjustment

Coulter pressure is adjusted centrally on the left hand side of the machine (against an indicator scale). Precise tension spring matching ensures the same pressure is applied to the front and rear coulters.

- A coulter pressure of up to 55 lbs / 25 kg is possible on the VITASEM (1) and VITASEM A (2)
- Hydraulic coulter pressure adjustment is also available as an option. (Not for VITASEM CLASSIC models).
- Central coulter pressure adjustment on the VITASEM ADD up to a pressure of 110 lbs / 50 kg. (3)









## Bout markers

### Scalloped bout marker discs optional (1)

- 15.75" / 400 mm diameter for a clearly visible centreline.
- Hydraulically operated with switchover valve and a mechanical interlock.
- Shear bolt overload protection.

### Calibration

## Whether calibrating, working in the field or emptying the seed hopper – each step has been optimised.

- Calibration system with integrated freewheel for stationary calibration. (2)
- Calibration system with output adjustment.
- Access ladder and land wheel are laid out intuitively on the left-hand side of the machine.

## Electric seed rate adjustment

With the electric seed rate system, you can change the output from the tractor seat without stopping.

## COMPASS

## Convenient to use





## COMPASS terminal

COMPASS, the optional electronic control unit, makes it easier to operate the machine and guarantees consistent monitoring. Modern, multiple-line graphic display with a raised, back-lit keypad.

- Automatic tramline switching with tramline stop.
- Speed display.
- Job and total hectare counter.
- Available as option: additional metering shaft and level indicator plus electrical seed flow-rate adjustment.
- Optional POWER CONTROL terminal for VITASEM A and VITASEM ADD with electric metering drive.
- Optional CCI ISOBUS terminal this terminal lets you operate all ISOBUS-compatible machines, regardless of brand.
  SEED COMPLETE is then also possible.

## Calibration using COMPASS:

- Enter quantity and current gear setting.
- Calibrate for 1/10, 1/20, 1/40 or 1/100 ha.
- The rotations are counted and a signal sounds for the last five.
- Enter calibrated amount new gear setting is calculated.
- 10 languages, 328' / 100 m compensation, sensor test.









## Tramline switching:

#### Tramlines are controlled via the COMPASS control unit.

- An electric motor shuts off the relevant metering wheels.
- Up to five metering wheels can be switched off per track.
- You only need to enter the spraying width and the tramline rhythm will be calculated automatically.
- Asymmetric tramlines and custom tramline configurations are also possible.
- Different track widths are possible on one machine. Ideal for shared machinery and contract work.

#### VITASEM

Switching via transmission signal or bout marker change-over valve.

#### VITASEM A / ADD mechanical metering drive

Switching via land wheel sensor, transmission signal or bout marker change-over valve.

#### VITASEM A / ADD electrical metering drive

Tractor hitch signal or sensor wheel.

## Pre-emergence markers

#### Pre-emergence markers optional

Controlled by the tramline switching.







## Technical data

VITASEM	252 CLASSIC	252	302 CLASSIC	302	402
Working width ft / m	8.20 / 2.50	8.20 / 2.50	9.84 / 3.0	9.84 / 3.0	13.12 / 4.0
Transport width ft / m	8.20 / 2.50	8.20 / 2.50	9.84 / 3.0	9.84 / 3.0	13.12 / 4.0
Rows	21	21	25	21 / 25	27 / 33
Row spacing inch / mm	4.72 / 120	4.72 / 120	4.72 / 120	5.63/4.72 / 143/120	5.63/4.72 / 143/120
Seed hopper gal / I	79 / 360	106 / 480	99 / 450	132 / 600	187 / 850
Seed hopper optional gal / I	_	_	_	220 / 1000	308 / 1400
Filling height standard ft / m	4.27 / 1.30	4.46 / 1.36	4.27 / 1.30	4.46 / 1.36	4.46 / 1.36
Filling height extended ft / m	_	_	_	5.09 / 1.55	5.09 / 1.55
Coulter disc diameter inch / mm	12.60 / 320	12.60 / 320	12.60 / 320	12.60 / 320	12.60 / 320
Inter coulter rail spacing inch / mm	11.81 / 300	11.81 / 300	11.81 / 300	11.81 / 300	11.81 / 300
Coulter pressure up to lbs / kg	55 / 25	55 / 25	55 / 25	55 / 25	55 / 25
Tyres	6.00-16	6.00-16	6.00-16	6.00-16 / 10/75-15.3	10/75-15.3
Weight with Suffolk coulters lbs / kg	1157 / 525	1201 / 545	1294 / 587	1279/1373 / 580/609	1731/1825 / 785/828
Weight with disc coulters lbs / kg	1301 / 590	1345 / 610	1462 / 663	1422/1510 / 645/685	1911/2044 / 867/927



VITASEM	252 A CLASSIC	252 A	302 A CLASSIC	302 A	402 A
Working width ft / m	8.20 / 2.50	8.20 / 2.50	9.84 / 3.0	9.84 / 3.0	13.12 / 4.0
Transport width ft / m	8.20 / 2.50	8.20 / 2.50	9.84 / 3.0	9.84 / 3.0	13.12 / 4.0
Rows	20	20	24	20 / 24	26 / 32
Row spacing inch / mm	4.92 / 125	4.92 / 125	4.92 / 125	5.91/4.92 / 150/125	5.91/4.92 / 150/125
Seed hopper gal / I	79 / 360	106 / 480	99 / 450	132 / 600	187 / 850
Seed hopper optional gal / I	_	_	_	220 / 1000	308 / 1400
Filling height standard ft / m	4.27 / 1.55	5.28 / 1.61	4.27 / 1.55	5.28 / 1.61	5.28 / 1.61
Filling height extended ft / m	_	_	_	5.91 / 1.80	5.91 / 1.80
Coulter disc diameter inch / mm	12.60 / 320	12.60 / 320	12.60 / 320	12.60 / 320	12.60 / 320
Inter coulter rail spacing inch / mm	11.81 / 300	11.81 / 300	11.81 / 300	11.81 / 300	11.81 / 300
Coulter pressure up to lbs / kg	55 / 25	55 / 25	55 / 25	55 / 25	55 / 25
Weight with Suffolk coulters lbs / kg	1102 / 500	1146 / 520	1230 / 558	1204/1268 / 546/575	1545/1638 / 701/743
Weight with disc coulters lbs / kg	1232 / 559	1276 / 579	1382 / 627	1334/1420 / 605/644	1713/1843 / 777/836

VITASEM	302 ADD	402 ADD
Working width ft / m	9.84 / 3.0	13.12 / 4.0
Transport width ft / m	9.84 / 3.0	13.12 / 4.0
Rows	20 / 24	26 / 32
Row spacing inch / mm	5.91/4.92 / 150/125	5.91/4.92 / 150/125
Seed hopper gal / I	132 / 600	187 / 850
Seed hopper optional gal / I	220 / 1000	308 / 1400
Filling height standard ft / m	5.28 / 1.61	5.28 / 1.61
Filling height extended ft / m	5.91 / 1.80	5.91 / 1.80
DUAL DISC diameter inch / mm	13.78 / 350	13.78 / 350
Inter coulter rail spacing inch / mm	11.81 / 300	11.81 / 300
Coulter pressure lbs / kg	110 / 50	110 / 50
Weight with DUAL DISC lbs / kg	1989/2163 / 902/981	2317/2551 / 1051/1157

## Equipment

VITASEM



COMPASS Control terminal



POWER CONTROL terminal



CCI ISOBUS Control terminal



SEED COMPLETE

252 / 302 CLASSIC	-	-	_
252 A / 302 A CLASSIC	-	_	_
252 / 302 / 402	_	_	_
252 A / 302 A / 402 A	-/□/□	-/□/□	-/□/□
302 ADD / 402 ADD			



VITASEM	Loading platform Bridge step for loading platform	Track eradicators for tractor wheels	Wheel track eradicator	Hydraulic bout marker
252 / 302 CLASSIC	□/-	-/□		
252 A / 302 A CLASSIC		-	_	-/□
252 / 302 / 402	□/-	-/□/□		-/□/□
252 A / 302 A / 402 A		_	_	-/□/□
302 ADD / 402 ADD		-	-	

 $\blacksquare$  = Standard,  $\square$  = Option, standard equipment varies from country to country



Electric







Electronic monitoring for seed level and



Electric seed rate adjustment



Rotating / oscillating agitator

metering	_	for seed level and metering shaft	rate adjustment	agitator
-			-	
-			-	
-				
-/□/□				



Press wheels

Harrow tines **PERFEKT** harrow tines



Pre Emergence markers

Hydraulic raising of land drive wheel



Lighting and warning signs

	_	
	-	

#### Other optional fittings:

Mechanical top link for VITASEM A / ADD Hydraulic top link for VITASEM A / ADD Coarse metering wheel for large seeds (beans) Adapter for sowing small seeds with normal metering wheel Cover for metering unit Drive for reversing direction of metering wheels

Compensator arm for lower linkage Tyres 10/75-15.3 for VITASEM 302

Hydraulic coulter pressure adjustment Mechanical hectare counter Tramline extension Tine protection for perfect tine harrow Spring balance weighing scales Press wheel scrapers for VITASEM ADD



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