

# PÖTTINGER TERRASEM

Universal seed drills



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**PÖTTINGER**



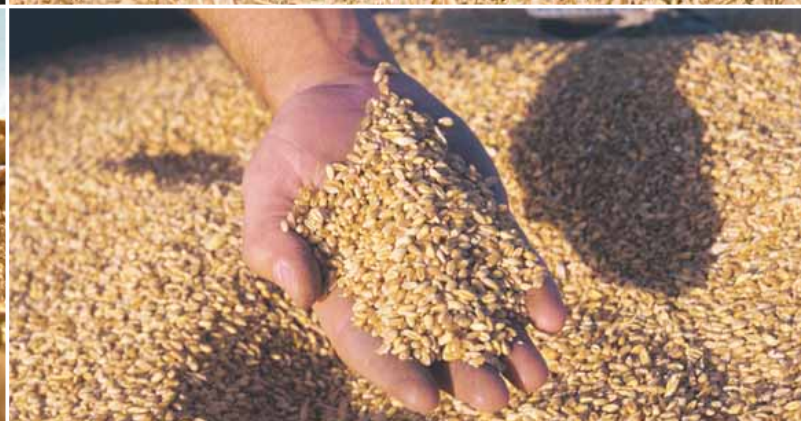


## TERRASEM R3 / R4 / C4 / C6 / C8 / C9

The big trailed direct seed drills – huge productivity with working widths of 9.8' or 29.5' / 3.0 or 9.0 metres

The new TERRASEM drills from Pöttinger with the unique tyre packer chassis are both compact and manoeuvrable. These universal machines can be used for both mulch drilling and conventional sowing. All TERRASEM mulch seed drills combine the steps of cultivating, consolidating and seeding the soil in a 9.8' – 29.5' / 3.0 – 9.0 m working width. In addition to the exact distribution of the seeds by parallel controlled DUAL-DISC double-disc coulters with subsequent depth-guide press wheels, the machines impress with their unrivalled ground adaptation, central coulter pressure adjustment from 88 and 265 lbs / 40 to 120 kg per coulter, a large-volume seed hopper and intelligent controls.





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# TERRASEM R3 / R4



## TERRASEM R3 and R4 are available as rigid working-width models

The demand for more power and efficiency is constantly increasing. The powerful universal machine, TERRASEM, can be economically incorporated into any tillage regime, whether mulch or conventional drilling. At Pöttinger the separate chassis has been replaced by a combined packing and chassis unit. The length of the machine has therefore been greatly reduced. The result: improved manoeuvrability.

TERRASEM	R3	R4
Working width	9.84' / 3.0 m	13.12' / 4.0 m
Transport width	9.84' / 3.0 m	13.12' / 4.0 m
Seed coulters	24	32
Distributors	1	1
Seed hopper (with extension)	660 gal (870 gal) / 3000 l (3950 l)	660 gal (870 gal) / 3000 l (3950 l)
Power requirement	74 kW / 100 HP	110 kW / 150 HP

All information is provided without obligation



# C4 / C6 / C8 / C9



## The big trailed TERRASEM are foldable

The three-part design provides perfect ground adaptation for large working widths. The folding disc harrow, packer and coulters rail sections follow the contours of the ground. By coupling the single coulter units via a 3-point linkage on the packer frame, each coulter unit can be adapted to the contours of the ground.

A four-piece hinge between the coulter rail section and packer ensures that the contours of the ground are followed exactly along the direction of travel. Wide press wheels control the double-disc coulters for an even, exact depth positioning.

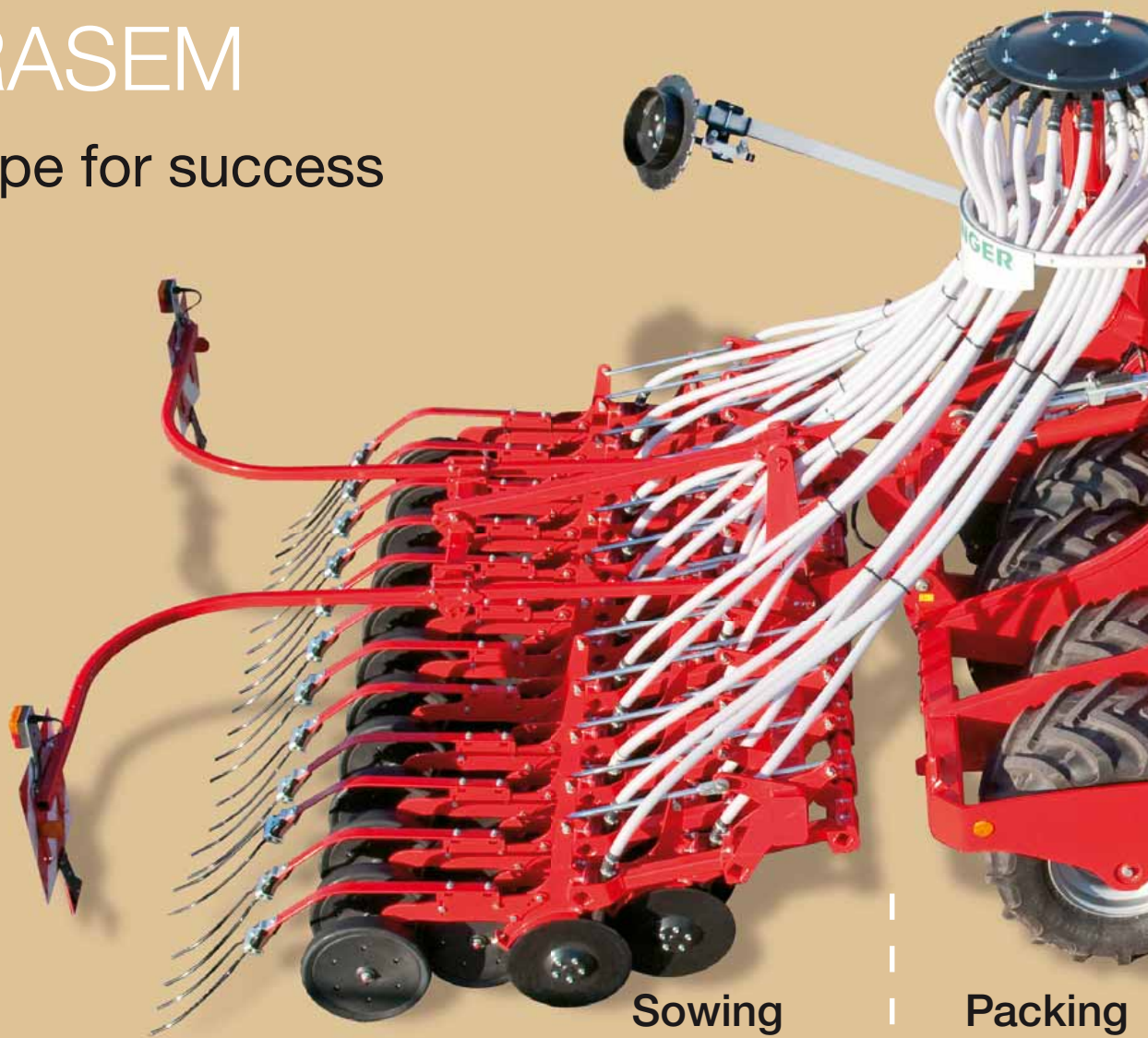
TERRASEM	C4	C6	C8	C9
Working width	13.12' / 4.0 m	19.68' / 6.0 m	26.24' / 8.0 m	29.53' / 9.0 m
Transport width	9.84' / 3.0 m	9.84' / 3.0 m	9.84' / 3.0 m	9.84' / 3.0 m
Seed coulters	32	48	64	72
Distributors	1	1	2	2
Seed hopper (with extension)	660 gal (870) / 3000 l (3950)	660 gal (870) / 3000 l (3950)	870 gal (1122) / 4000 l (5100)	870 gal (1122) / 4000 l (5100)
Power requirement	110 kW / 150 HP	140 kW / 190 HP	206 kW / 280 HP	235 kW / 320 HP

All information is provided without obligation



# TERRASEM

The recipe for success



The TERRASEM direct mulch seed drills from Pöttinger feature a top quality compact disc harrow, the unique packer tyre chassis and adaptive coulters work to perfectly coordinate seed-bed preparation, packing and sowing over a working width of 9.84' to 29.53' / 3.0 to 9.0 metres. Optimised design from the drawbar to the rear harrow tines.

## Mounting – refined and rapid

- The linkage bar has double mounting lugs Cat. II/2 and III/3. A heavy-duty rotary joint with axial compensation between the linkage bar and the drawbar provides clearance for a turning angle of up to 90° even with dual wheels or high flotation terra tyres.

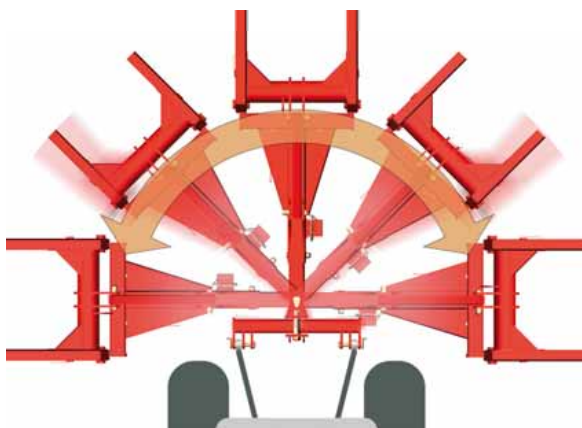






## Seedbed preparation / Tillage

- If required, the length of the drawbar can be adjusted by approx. 20" / 500 mm. Ideal adaptation to the tractor enables tight cornering at headlands and during transport.
- Parking legs and pipe support are standard.
- An air or hydraulic brake system is also available to provide enhanced safety at high transport speeds of up to 24.9 mph / 40 kph.
- These equipment specifications comply with the legal regulations for road transport.







# TERRASEM

## Top quality disc harrow for precision tillage

Professionals expect a level seedbed with fine soil on top for uniform seed germination and plant growth. That is why Pöttinger has integrated a twin-gang compact disc harrow for soil preparation.

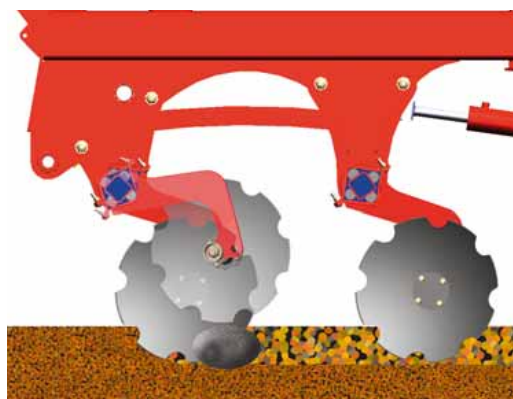
- Twin-gang, smooth running disc harrow fitted either with scalloped or plain cultivating discs. This universal harrow also works well in heavy soil with large quantities of harvest trash. The maintenance-free, rubber-mounted 20.1" / 510 mm diameter discs loosen the soil on the surface providing a layer of fine-structured earth at seed placement depth.







- The depth of the first gang can be adjusted independently of the second gang.
- The central section is fixed and the folding outer sections are each 1.64, 4.92, 8.20 or 9.84' / 0.5, 1.5, 2.5 or 3.0 metres wide with plenty of freedom of movement.
- **Non-stop mounting system** – Each disc is mounted on a thick-walled box section beam. Four rubber elements enable the discs to evade stones and rocks. The concave discs are mounted on sealed bearings.
- The twin-race tapered bearings are sealed with a labyrinth seal for extra reliability.





# TERRASEM



## Unique tyre packer chassis

The combined packer and wheel unit is positioned immediately behind the leading tillage tools.

This optimised mounting geometry and compact design improves manoeuvrability at headlands and during transport.

- The chassis is fitted with wide tyres to consolidate the soil, each tyre pressing ahead of 4 seed rows.
- To protect the soil the machine is supported by all the wheels at headlands. The chassis frame always remains at the same height, the disc harrow and seed coulter rails are raised.
- The offset wheel configuration makes the drill easier to pull and improves the ride during transport. Each wheel can rotate independently when turning thanks to individual wheel mounting.







- On the road the machine is transported on four wheels, the two wheels in the middle are raised to improve stability.
- The transport wheels can be fitted with hydraulic or air brakes to ensure safe, reliable braking even at speeds of up to 25 mph / 40 kph.





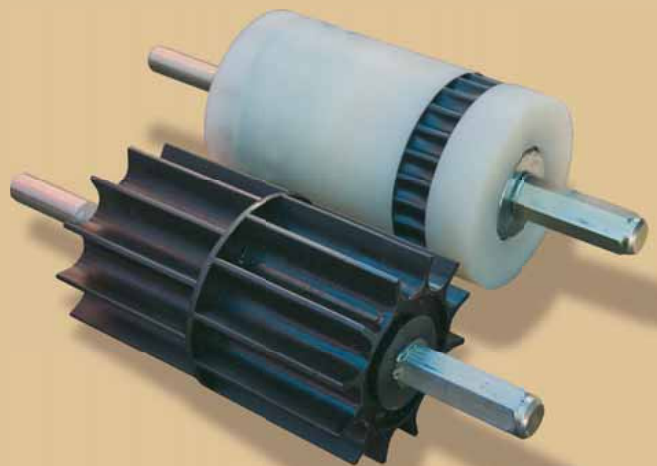
# TERRASEM



## Metering system for highest possible precision

Valuable seed demands cost-effective operating systems. All the seed has to be distributed accurately, seed rates from 0.52 to 312 lbs per acre or from 0.6 kg to 350 kg per hectare.

- The R3 to C6 models have one metering system and the C8 / C9 have two.
- The metering wheels for normal or fine seed can be changed quickly and easily to match seed flow rate.
- A reduction gear ensures that the metering wheel is always operating in the ideal speed range.







The TERRASEM metering system is designed for precise seed distribution. Exact seed flow-rates regardless of the type of seed or the working conditions.

- The seed wheel is electronically driven and controlled from the tractor via a radar sensor or an ISOBUS signal.
- Infinitely variable adjustment of seed quantity from 0.52 to 312 lbs per acre or from 0.6 kg to 350 kg per hectare from the tractor.
- Automatic engagement of seed metering wheel with priming to ensure immediate metering.
- Easy calibration with a practical collection bag and the calibration flap is monitored by sensors.
- An outlet slide allows all the seed to be discharged from the hopper when emptying.

*Drive gears are easily interchanged*



*Easy change between coarse and fine metering wheels*

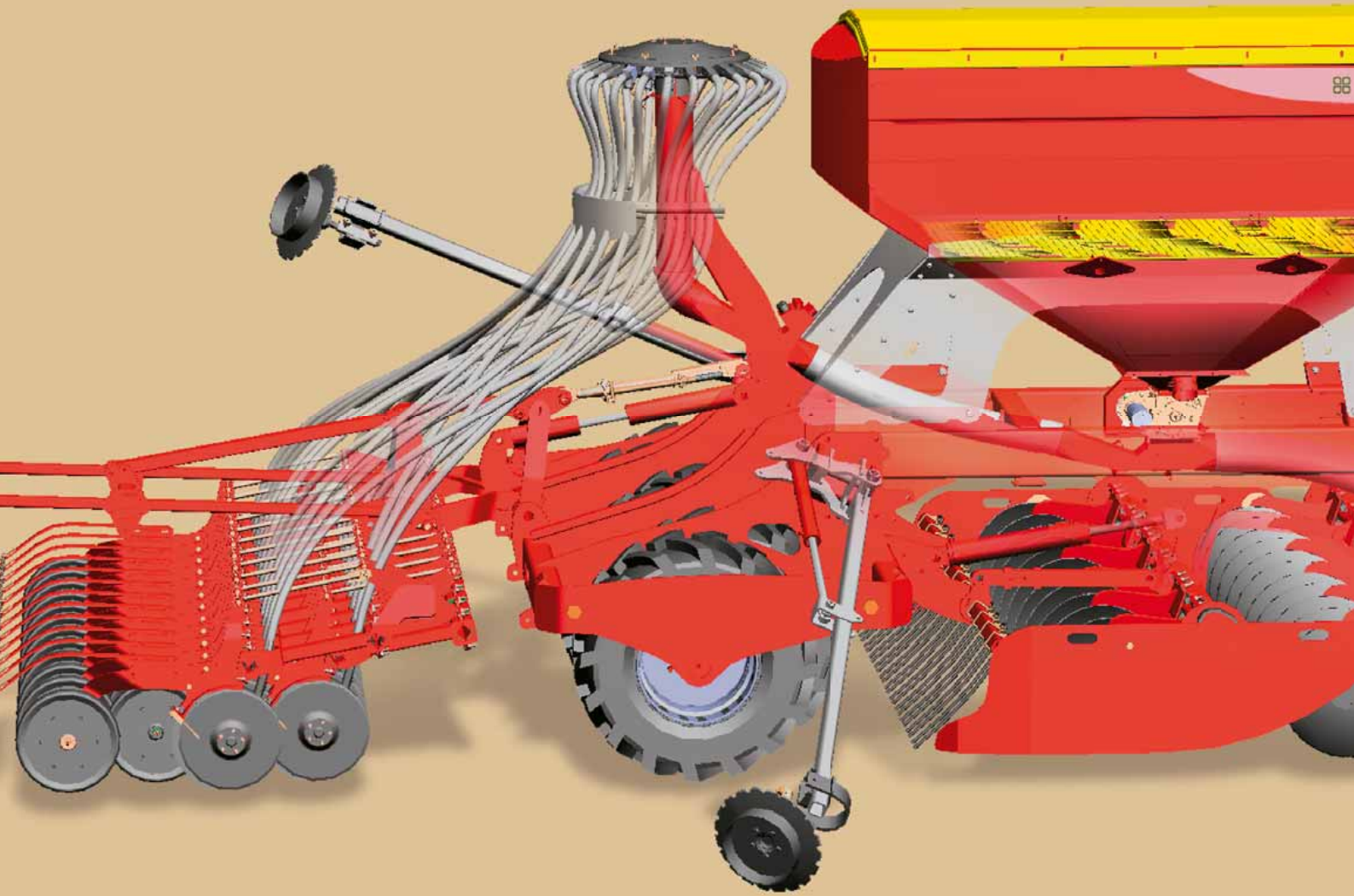


*Outlet slide to empty the seed hopper completely*





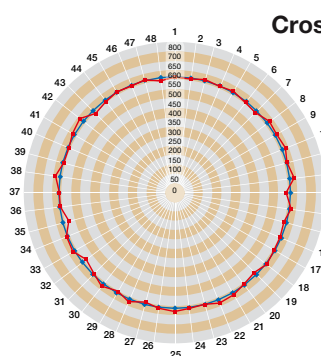
# TERRASEM



## Fan and distributor heads

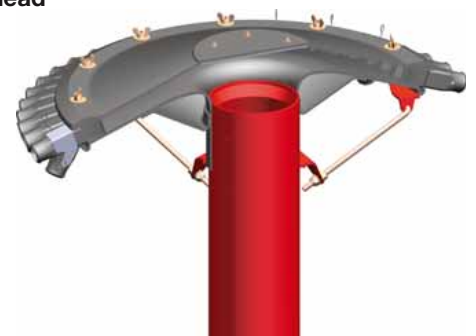
A high volume of air and low air velocity protect the seed against damage and prevent rubbing off of the dressing. Together with the precision metering system and large distributor heads, this system delivers uniform seed grain placement, guaranteeing you a reliable harvest and financial success.

- The oversized fan is driven hydraulically and delivers a high volume of air in the mid-speed range, so there is little noise during operation.
- The high air volume means the fan speed can fluctuate without affecting the accuracy of seed metering.
- The R3 to C6 models have one distributor head with a maximum of 48 outlets, the C8 / C9 have two with 32 / 36 outlets each. The seed is fed to the distributor head evenly via the riser tube for optimum distribution to the individual rows. The large diameter distributor head guarantees ideal distribution to the individual rows.

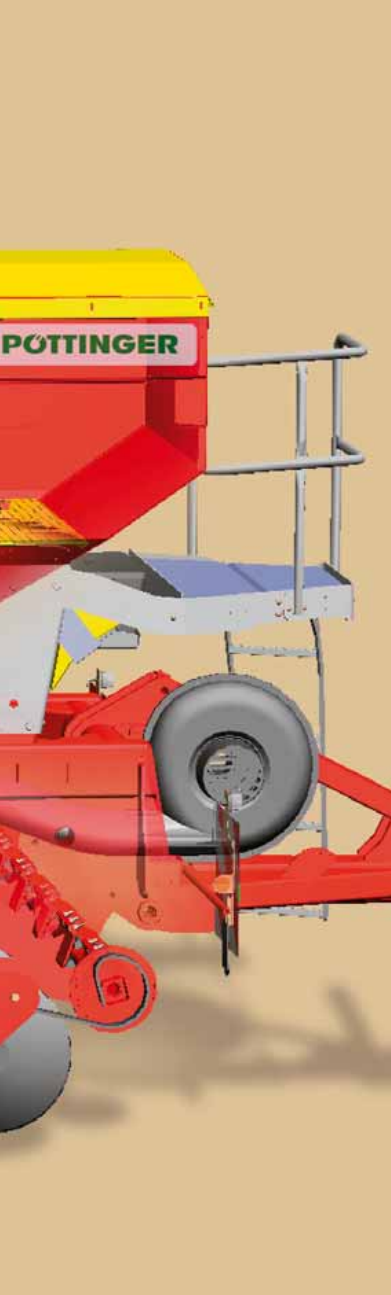


Cross-section of distributor head

■ Quantity in g  
◆ Average value







- A servo motor shuts off the tramlines electronically. Valves on the distributor shut off up to 3 seed rows for each tramline. The excess seed is returned to the riser tube and the seed flow rate is reduced accordingly, achieving seed savings of up to 6%.
- If desired, seed flow monitoring is available with an optical sensor for each individual row. The system is triggered if the flow rate (grains/second) falls below the set rate. The operator terminal indicates which row is blocked.
- On the TERRASEM C8 / C9, both distributor heads are automatically hydraulically retracted during the folding sequence.





# TERRASEM



## Longitudinal seed hopper

Filling the hopper with seed must be straightforward and effortless wherever you are. Thanks to its long seed hopper, the Pöttinger TERRASEM can easily be filled from the side using a front loader or auger. The dust and rainproof seed hopper is fitted with a tarpaulin cover that rolls up to one side.

- The cavernous longitudinal seed hopper holds 660 gal / 3000 litres on the R3 to C6, and 880 gal / 4000 l on the C8 / C9.
- The roll over tarpaulin cover is both dustproof and rainproof. The cover is rolled clear of the opening so it cannot be damaged during filling by suspended Big-Bags, for example.
- The hopper can be filled using a loader bucket, Big-Bags or auger.
- As an option, the R3 to C6 hopper can be increased to 870 gal / 3950 litres and the C8 / C9 hopper to 1122 gal / 5100 litres.





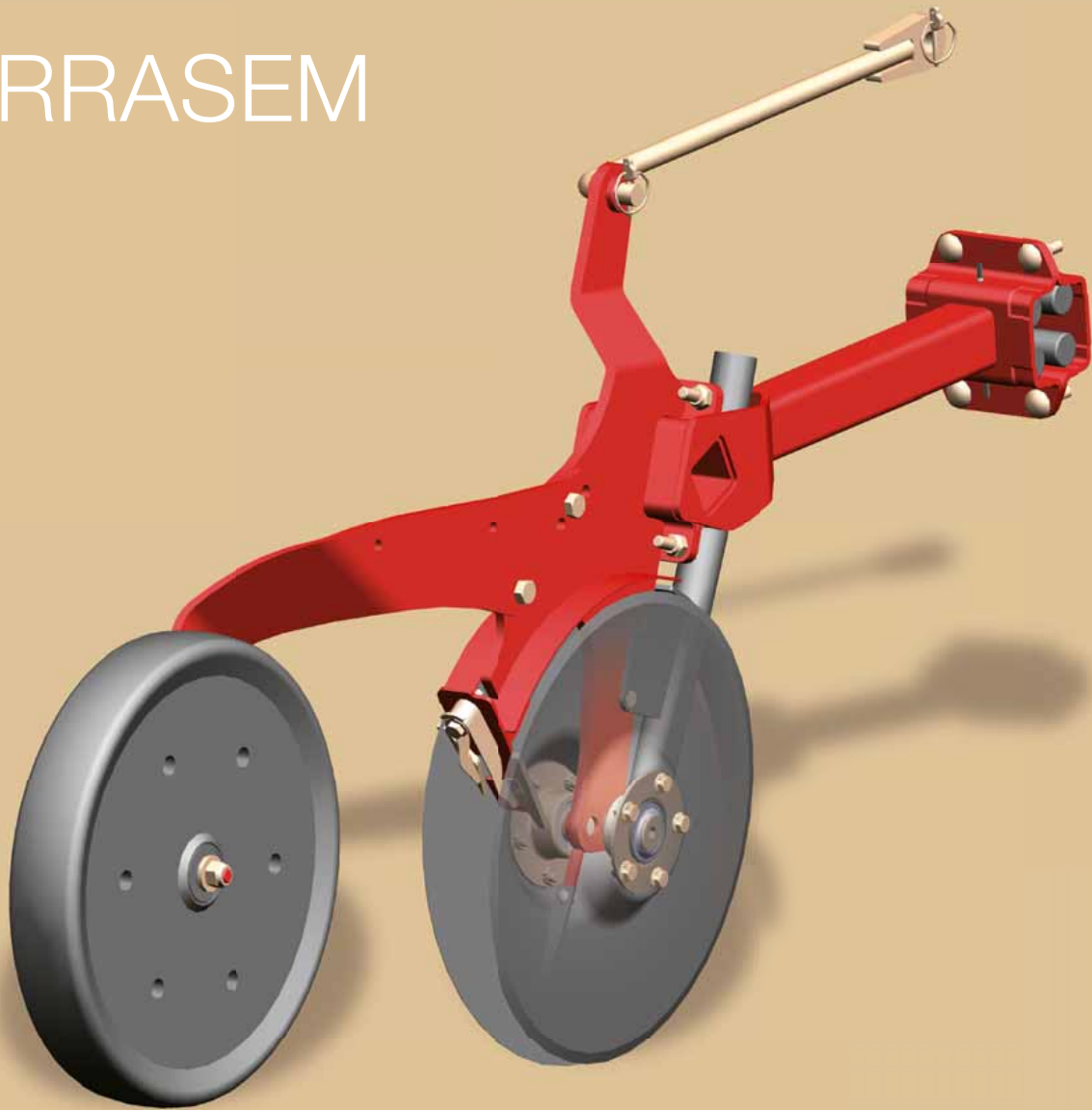


- The standard loading platform makes it easy to open the hopper cover and check the progress of filling.
- The spacious toolbox is well protected and integrated into the loading platform.
- A grid is fitted inside the seed hopper as standard to protect the metering system from foreign objects.
- The hopper level indicator is located underneath the grid to allow drilling to continue right down to the lowest level.





# TERRASEM



## Coulter rail for perfect sowing

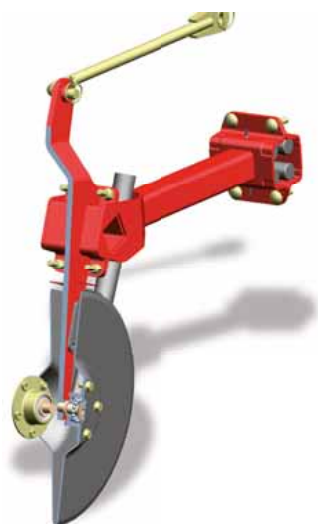
The large sized DUAL-DISCs push trash aside without hairpinning harvest residues into the soil. In combination with the coulters tube mounted inside, this system achieves a uniform, exact seed placement.

### Double disc coulters

- Each coulters is mounted on an independent parallelogram to ensure excellent ground tracking.
- All the disc coulters are guided by coulters press wheels to ensure uniform seed depth.
- Seed depth is adjusted centrally and coulters pressure is adjusted hydraulically between 88 and 265 lbs / 40 and 120 kg.
- Maintenance-free mounting of the coulters via rubber dampers also provides optimum freedom of movement.
- Thanks to the offset configuration, a row spacing of 4.92" / 125 mm is possible for an optimum plant distribution pattern.

### Double disc coulters are guided by wide press wheels

- Accurate, uniform seed placement and depth.
- Central depth adjustment by rotating the coulters rail – via the integral ratchet adjuster.







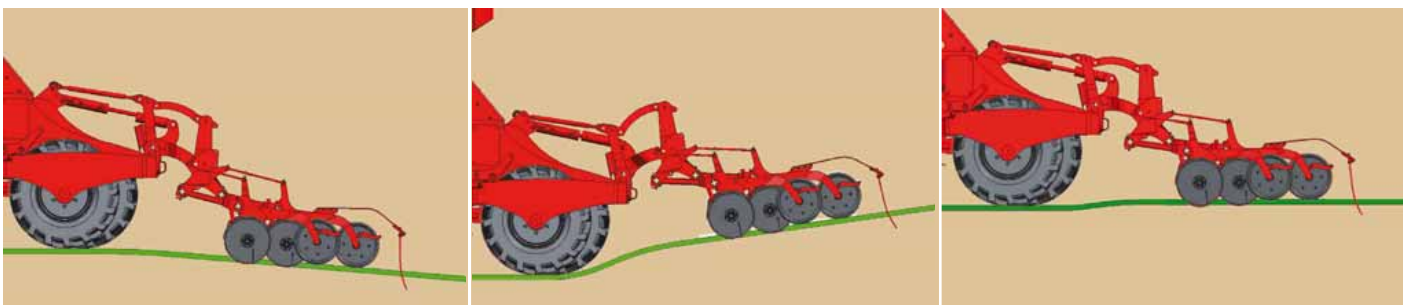
## Optimum ground hugging

**Individual coultter units are fitted to the packer wheel frame by a 3-point mounting**

- Coultter units can track the ground contours.

**Four-bar linkage between coultter rail and tyre packer chassis**

- Ensures accurate ground tracking in direction of travel.
- Excellent ground hugging as a result of contour tracking by the coultter press wheel and the pressure set on the coultter unit.
- Coultter arms on the coultter rail are the same length – despite changes in ground contour the coultters maintain 100% even coultter pressure.







## The three-part design ensures perfect g

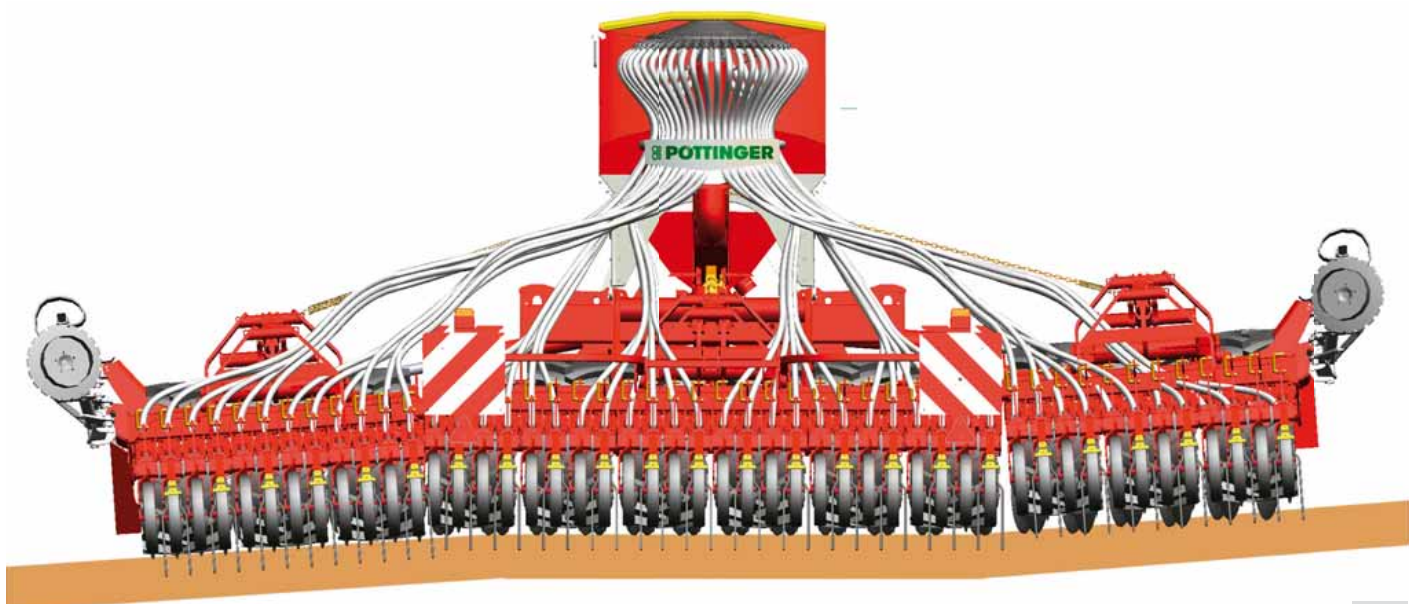
The disc coulters have a long tradition in seed drill process technology as a cutting and opening tool and is the most important instrument for precision seed placement.

- The folding disc harrow, packer and coulter rail elements follow the contours of the ground.
- Freedom of movement upwards is unlimited while downwards an angle of up to 4° is possible.
- These elements are preloaded using nitrogen accumulators to provide equal pressure distribution over the whole working width.
- This also ensures harrowing over the entire area.
- The coulter pressure is set by pre-loading a hydraulic cylinder.
- The seed placement depth can be adjusted centrally for each section unit using a ratchet.





ground tracking over a maximum working width





# TERRASEM

## Intelligent control

TERRASEM as standard specification are equipped for tractors with ISOBUS. The seed wheel is electronically driven, distance measurement is by radar sensor or tractor signal.

Two levels of operator terminal can be provided if the tractor is not equipped with ISOBUS.

### ARTIS (ISOBUS compatible)

- Machines with no hydraulic preset operations.
- Functions activated directly via tractor hydraulic controls.

#### Requirements:

**A single-acting connection with return or load sensing** for the fan drive

**Three double-acting connections for:**

#### 1. Functions at the headland:

Track marker folds automatically when disc harrow and coulter unit are lifted

#### 2. Cultivating depth:

Working depth adjustment for the disc harrow

#### 3. Manual pre-selection via 3-way valves

Folding, manual control of track marker, coulter pressure

### ARTIS+ (ISOBUS compatible)

- Machines with electrohydraulic preset operations
- All functions (except fan drive) controlled via a control box

#### Requirements:

**A single-acting connection with return or load sensing** for the fan drive

**A double-acting connection** for all other functions

#### Artis and Artis+ also include

Priming, electronic calibration, infinitely variable adjustment of seed rate, monitoring of fan and metering shaft, hopper level monitoring, seed library.





## Technical data

TERRASEM	R3	R4 / C4	C6	C8	C9
Working width	9.84' / 3.0 m	13.12' / 4.0 m	19.68' / 6.0 m	26.25' / 8.0 m	29.53' / 9,0 m
Seed disc coulters	24	32	48	64	72
Row spacing	4.92" / 125 mm	4.92" / 125 mm	4.92" / 125 mm	4.92" / 125 mm	4.92" / 125 mm
Disc coulters diameter	14.96" / 380 mm	14.96" / 380 mm	14.96" / 380 mm	14.96" / 380 mm	14.96" / 380 mm
Individual coulter pressure	88–265 lbs/40–120 kg	88–265 lbs/40–120 kg	88–265 lbs/40–120 kg	88–265 lbs/40–120 kg	88–265 lbs/40–120 kg
Number of harrow discs	22	30	46	62	70
Diameter of harrow discs	20.08" / 510 mm	20.08" / 510 mm	20.08" / 510 mm	20.08" / 510 mm	20.08" / 510 mm
Seed hopper volume	660 gal / 3000 l	660 gal / 3000 l	660 gal / 3000 l	880 gal / 4000 l	880 gal / 4000 l
Seed hopper extension	870 gal / 3950 l	870 gal / 3950 l	870 gal / 3950 l	1122 gal / 5100 l	1122 gal / 5100 l
Filling height	8.36' / 2.55 m	8.69' / 2.65 m	8.36' / 2.55 m	8.69' / 2.65 m	8.69' / 2.65 m
Number of distributors	1	1	1	2	2
Length without trailed tines	24.61' / 7.5 m	24.61' / 7.5 m	24.61' / 7.5 m	25.59' / 7.8 m	25.59' / 7.8 m
Transport width	9.84' / 3.0 m	13.12/4.0 m / 9.84/3.0 m	9.84' / 3.0 m	9.84' / 3.0 m	9.84' / 3.0 m
Transport height	9.51' / 2.9 m	9.51' / 2.9 m	9.51' / 2.9 m	12.96' / 3.95 m	14.60' / 4.45 m
Weight approx.	5.0 sh t / 4.6 t	6.6 sh t/6.0 t / 7.1 sh t/6.4 t	9.5 sh t / 8.6 t	11.8 sh t / 10.7 t	12.9 sh t / 11.7 t
Minimum power required	74 kW / 100 HP	103 kW / 140 HP	140 kW / 190 HP	199 kW / 270 HP	235 kW / 320 HP
Packer tyres	6 x 425/55 R17	8 x 425/55 R17	12 x 425/55 R17	16 x 425/55 R17	18 x 425/55 R17

All information is provided without obligation

## Optional equipment

Telescopic drawbar



Track eradicators adjustable depth



Leveling board



Tramline control



Pre-emergence marker



Seed flow monitoring



Seed hopper extension



Spring balance scales for calibration



**Further optional equipment:** ARTIS, ARTIS+ Control terminal

Air brakes, Hydraulic brakes, Load-Sensing, dual-row fine metering wheel





## Supreme service

### You can rely on us.

Wherever they are in the world, our customers can rely on a fully developed network of sales and service partners. This close proximity to the customer guarantees fast delivery of spare parts and also ensures professional machine setup and handover by qualified specialists. We are on hand wherever you happen to be.

### Our range of professional services:

- Original Inside parts. 24-hour ordering service online.
- Long-term stock of spare parts.
- Expertise through regular training – For professional personnel.
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### Pöttinger Australia P/L

15 Fordson Road  
Campbellfield, VIC 3061  
Phone: +61 3 9359 2969  
e-mail: [sales.au@pottinger.com.au](mailto:sales.au@pottinger.com.au)  
[www.pottinger.com.au](http://www.pottinger.com.au)

### Importer for Ireland:

**T. Traynor & Sons Ltd.**  
Cashel Road, Clonmel  
Co. Tipperary  
Phone: + 353 (0) 52 / 257 66  
e-mail: [info@traynor.ie](mailto:info@traynor.ie)

### Importer for New Zealand:

**Origin Agroup**  
PO Box 673, 57 Hautapu Road  
Cambridge – New Zealand  
Phone: +64 7 823 7582  
e-mail: [info@originagroup.co.nz](mailto:info@originagroup.co.nz)  
[www.originagroup.co.nz](http://www.originagroup.co.nz)

### Importer for South Africa:

**Valtrac Parys (Pty) Ltd.**  
Cnr. Water & Buiten Street  
9585 Parys  
Phone: +27 (0) 56 817 7338 / 7308  
E-mail: [sales@valtrac.co.za](mailto:sales@valtrac.co.za)  
[www.valtrac.co.za](http://www.valtrac.co.za)

**Alois Pöttinger**  
Maschinenfabrik GmbH  
Industriegelände 1  
A-4710 Grieskirchen  
Phone: +43 (0) 7248/600-0  
E-mail: [landtechnik@pottinger.at](mailto:landtechnik@pottinger.at)

**Alois Pottinger UK Ltd**  
St Marks Road, Corby  
Northamptonshire NN18 8AN  
England  
Phone: +44 (0) 844 561 0644  
E-mail: [info@pottingeruk.co.uk](mailto:info@pottingeruk.co.uk)  
[www.pottingeruk.co.uk](http://www.pottingeruk.co.uk)

**Pöttinger Canada Inc.**  
650, Route 112  
St-Cesaire, JOL 1 T0, PQ  
Phone: (450) 469-5594  
E-Mail: [sales.canada@pottinger.ca](mailto:sales.canada@pottinger.ca)  
Web: [www.pottinger.ca](http://www.pottinger.ca)

**Pöttinger US Inc.**  
393 Pilot Drive  
Valparaiso, IN 46383  
Phone: (219) 510-5534  
E-mail: [sales.us@pottinger.us](mailto:sales.us@pottinger.us)  
[www.pottinger.us](http://www.pottinger.us)