Precision pneumatic seed drills
Investment in a seed drill is a key stage in any farm development.

The KUHN range of precision seed drills has a wide choice of frame widths and equipment, so that users can adapt to different seeding conditions.

Its seeding unit is designed for maximum comfort during operations: Its ergonomic and easy to use adjustments have been particularly carefully designed.

Strong and extremely stable during work, it is the master component of MAXIMA 2 seed drills and ensures perfect seed positioning.
Comfort–Quality of life
Proximity–Advice
Peace of mind–Services
The MAXIMA 2 seeding unit has a remarkable finish. It has been specially designed to be suitable for all cultivation practices, in particular new techniques such as Minimum tillage. If you look at it in great detail you will quickly see that it has been designed with two objectives: strength and simplicity.
10/10 for MAX. precision

1. Impressively stable: the units weigh from 120 kg to 150 kg depending on the version, with easy pressure adjustment.
2. Strength: the parallelogram and all joints are largely dimensioned. They are all mounted on shafts blocked in rotation with self-lubricated rings.
3. High working output: 52-litre hopper held in position by a strong belt.

4. The door of the distribution box opens with a single quick-release handle. It is mounted with a spring hinge: tightness controlled by constant pressure on the seal, no risk of wear due to incorrect tightening.
5. Precision for high density or high-speed seeding: by a large-diameter distribution disc (260 mm).
6. Essential for small seeds: an external lever adjusts the supply of seeds in the selection chamber.
7. Clean, precise seed release via a seed ejector and clean cut-out of negative pressure.

For perfect regularity between seeds:
8. The incurved chute is specially designed for any shape, diameter or weight of seeds.
9. A real share is positioned between the discs for a perfectly sculpted furrow.
10. Practical: a handle is used to manually disengage each unit. Once disengaged, this handle is used to turn the distribution disc to check the fixed selector setting. Easy to use. It also houses a shear bolt protecting the unit.
Ultra-simple adjustments

The MAXIMA 2 is designed for maximum comfort during operations. Its ergonomic and easy to use adjustments have been particularly carefully designed.

Notched selector: easy adjustment
Mounted eccentrically, a notched selector provides fast positioning on the distribution disc. A hatch visible from behind can be used to check the setting.

Coulter pressure
The handle attached to two springs makes it easy to adjust coulter pressure.

Tamping pressure
No matter what type of tamping roller is used, a lever adjusts the tamping pressure. You then simply position it in one of the notches.

Seeding depth
Fast to set via an indexed handle on a 16-position notched section.

Closing the furrow: ensured successful germination
The closing discs carry fine soil onto the seed, which is important under dry conditions, in clay soils or where there are plant debris:
- They carry fine soil into the furrow;
- They close the edges of furrows smoothly and optimise Minimum tillage applications where there is very little fine soil available.
For seeding on slopes or bends, they correct the lack of cover.

Rolling by intermediate wheel
This stainless steel wheel is used to tamp the seed in the seed line. For better seed-soil contact and optimised germination. The wheel is easy to retract without any particular tools needed. The gardener’s help, KUHN style, when it is really useful and adapted to conditions!
When ploughing or using Min-till methods, the unit is open-ended

The MAXIMA 2 unit can be fitted with optional equipment on both front and back. Depending on its equipment, it can seed tilled land or land with many plant residues.

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**Rear equipment**
- Rear rubber rollers: 2.5 cm - 5 cm
- Rear steel rollers: notched - smooth
- Ottiflex rear roller + 370 mm – 500 mm
- HD rear roller (more coulter pressure, stony conditions), Rubber 2.5 cm or 5 cm - Notched or smooth steel

**Intermediate equipment**
- Intermediate composite wheel
- Intermediate stainless steel wheel
- Covering scrapers
- Furrow closing disc

**Front equipment**
- Standard clod clearer
- Flexible clod clearer (for stony conditions)
- Trash remover
- Furrow opening disc (can be used with the trash remover)

**EXCLUSIVE!**
MAXIMA 2 seed drills are designed for precision seeding using different types of seeds. It has many different types of chassis to meet all requirements.

**Single bar chassis**
Strong single bar chassis, available in widths up to 9.00 m with H beam for seed drills with up to 18 rows in beetroot version.

**Folding chassis**
The folding Maxima 2 is available in 8, 9, 11 and 12 row versions, with 3.00 m road clearance. Combined with a frontal hopper, it is the ideal tool for large areas. It has a three-part chassis representing three separate seed drills.
Advantages:
- Every subassembly follows changes in level perfectly for impeccable seed regulation;
- Seeding pointed fields is very easy with one or two parts raised.

**Folding telescopic frame**
With a working width of 6.00 m, it has a large 1350 litre hopper for fertilization.
The 8 row version is particularly designed for intensive use, such as found in machinery cooperatives, contractor companies or large farms.
For easier adjustment, the MAXIMA2 RT has only a single gearbox and a central microgranulator (a second or third can be added if other products are to be distributed).
Single telescopic chassis

The telescopic MAXIMA 2 has a road width of 3.30 m to 3.50 m depending on spacing.

The 6 and even 7 row versions are available with 55 and 60 cm spacing for sunflowers and 70, 75 and 80 cm for maize.

Double telescopic chassis

The transport width for MAXIMA 2 double telescopic models is 3.00 m even with fertilization and microgranulator on board.

Front wheels

The front wheels are available on single and double telescopic models. They are the ideal solution to avoid trapping pebbles in stony conditions. It is also easy to change seeding spacing.

Uniform negative pressure on all rows

The air duct is a real part of the chassis. It is an extra beam which supports micro and fertilizer hoppers and ensures uniform distribution of negative pressure across the whole width of the seed drill.
The arrival of the MAXIMA 2 T1 meets the requirements of users who wish to seed several crops using the same seed drill. The change in inter-row distances can be made rapidly via the hydraulic controls in the tractor cab. Distances available are 45, 50, 55, 60, 65, 70, 75 and 80 cm.

**A KUHN ® patent**

The significant overlap of the 3 beams gives the frame exclusive rigidity (KUHN patent). At maximum opening, the 2 outer beams overlap the central beam along more than half their length.

**Another KUHN exclusivity**

The large drive wheels are positioned at the front of the seed drill. They are automatically positioned between the rows and facilitate work in stony conditions. Working on a slope is easier owing to the excellent weight-bearing capacity. The distance between tyres can reach 2.15 m.

Distance 45 cm
Large capacity fertilization

The 950 litre fertilization hopper provides great autonomy. The fertilizer drills, with discs or shares, are offset hydraulically with the units.
Fertilizers also benefit from fluted roller metering units

Depending on the model, different types of fertilizers are available according to choice or the farm’s possibilities. Fertilizer hoppers have a V-shaped base for easier release of granules. They can be retrofitted on the chassis forming the air duct and form a one-part assembly.

**Easy maintenance**

The removable metering unit is easily and rapidly removed allowing complete emptying of the hopper.

**Fluted seed metering units**

Application rate is provided by separate fluted metering units with continuous adjustment over a range of 50 to 700 kg/ha (depending on density). The polyurethane groove eliminates any risk of abrasion of the fertilizer.

**Fertilization by frontal hopper**

Loading is central and easily accessible from the front while providing excellent overall balance of the tractor-machine. Furthermore, the hopper can be reused with a precision coulter.

<table>
<thead>
<tr>
<th>2 x 190 L</th>
<th>2 x 280 L</th>
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</thead>
<tbody>
<tr>
<td><img src="image1" alt="Image" /></td>
<td><img src="image2" alt="Image" /></td>
</tr>
<tr>
<td>4 types of hoppers are available depending on the chassis</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>GT 950 L</th>
<th>GT 1350 L</th>
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</thead>
<tbody>
<tr>
<td><img src="image3" alt="Image" /></td>
<td><img src="image4" alt="Image" /></td>
</tr>
</tbody>
</table>
Microgranulateur with central hopper

**Practical to load and empty**

A single hopper supplies up to 9 rows. Application rate is accurate and reliable no matter what type of microgranulate is used, because it uses fluted metering units.

**No risk of bottle necks**

Pneumatic transport ensures a regular supply of microgranules with no risk of clogging in the tubes no matter how many rows the seed drill has.

**Easy to adjust**

Adjustment is made by moving an index and two interchangeable gearwheels, gives 6 continuous ranges for insecticide and anti-slug treatment and 4 ranges of continuous application rate for weedkiller.

**MAXIMA 2 seed drill microgranulators: ULTRA-versatile**

Microgranulate release can be controlled by:

1. The insecticide release between two discs (anti-slug treatment can also be incorporated here thanks to the cyclone with double intake). The cyclone separates the microgranules from the pulsed air so that the microgranules fall to the ground under the effect of their weight only.
2. The anti-slug distributor behind the roller;
3. The weedkiller spreader fixed to the back of the covering roller.
**KMS 208** Passage controller

The KMS 208 box controls seed release, row by row, for 4 to 8 row seed drills.

It performs the following functions:
- Seeding status displayed by two-coloured LEDs;
- Alarm with adjustable intensity;
- End of seeding detection.

**KMS 412** Population controller

The KMS 412 box measures population density, row by row, for seed drills with from 4 to 12 units.

It performs the following functions:
- Displays the momentary population, row by row, and the average of the rows (in thousands of seeds per hectare or the centimetre spacing between seeds);
- The “bargraph” display: reading the functional status of all the rows is direct and fast: clear identification of rows on alert;
- Partial, seasonal and total hectare counters;
- Programming by easy to use drop-down menu, with luminous screen and backlit keys.

Developed in association with users, the KMS 412 operating menu is easy to understand and to use. It helps users with everything, even machine adjustment.

**Display of theoretical and actual population/ha.** Major differences in height, indicated by the bargraph, show, in this example, that the selectors are incorrectly set.

**Display of spacing:**
- Theoretical;
- Actual, based on counting by cells;
- Bargraph display of the population by rows.

**Counters:**
- Daily;
- Totalizer;
- Instant yield;
- Working width.

**In seed-counting mode:**
- Row 7 has no seed;
- Row 5 is disengaged but seeds are still being released.

**Alarm**

**Exclusive!**

Display of theoretical and actual population/ha. Major differences in height, indicated by the bargraph, show, in this example, that the selectors are incorrectly set.
To disengage rows...

**KMD 112** Electronic disengagement box

The KMD 112 control box is used to disengage each row separately using lever-operated switches. Available for seed drills with up to 12 disengageable rows. The KMD 112 can be coupled to the KMS 208 passage controller or the KMS 412 seed controller. This coupling is used to check that the disengageable units are working properly.

**Coupling KMD 112 + KMS 208**

KMS 112 (box with 8 switches) with the KMS 208 gives a status display for each row: the led is green if the row is engaged and red if the row is disengaged. Furthermore, the KMS 208 provides warning of any anomalies which occur during disengagement, e.g. a sudden flow of seeds even when the row is disengaged. KUHN Exclusive.

**Coupling KMD 112 + KMS 412**

The KMS 112 (box with 12 switches) with the KMS 412 allows to disengage up to 12 rows. The activity status for each unit will be shown by the KMS 412, notably via a cross for each disengaged unit. The seed controller will also give warning of any anomaly linked to disengagement. Available for seed drills with up to 12 disengageable rows.
CHARACTERISTICS

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>MAXIMA 2 / MAXIMA 2 GT</th>
<th>MAXIMA RT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working width (m/ft)</td>
<td>2.50-3.00-4.40-6.00-9.00 / 8'2&quot;-9'8&quot;-14'4&quot;-19'7&quot;-29'5&quot;</td>
<td>4.25/13'9&quot;</td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transport width (m/ft)</td>
<td>2.50-3.00-4.40-6.00-9.00 / 8'2&quot;-9'8&quot;-14'4&quot;-19'7&quot;-29'5&quot;</td>
<td>3.35 to 3.50/11&quot; to 11'5&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of elements</td>
<td>4 - 18</td>
<td>6 - 7</td>
</tr>
<tr>
<td></td>
<td>Number of gearboxes</td>
<td>1 or 2</td>
</tr>
<tr>
<td></td>
<td>Hopper capacity approx. (l)</td>
<td>52</td>
</tr>
<tr>
<td></td>
<td>Min. space between rows (cm/inch.)</td>
<td>37.5 to 45/15&quot; to 18&quot; depending on the model</td>
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<td></td>
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<tr>
<td></td>
<td>Side markers</td>
<td>Hydraulic, two-way with sequence valve</td>
</tr>
<tr>
<td></td>
<td>Fertilization</td>
<td>- Two 190 litre hoppers</td>
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<tr>
<td></td>
<td></td>
<td>- One central 950 litre hopper</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Front hopper TF 702 from 700 to 1300 litres</td>
</tr>
</tbody>
</table>

MICROGRANULATOR

<table>
<thead>
<tr>
<th>Outlet Count</th>
<th>3 outlets</th>
<th>6 outlets</th>
<th>9 outlets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insecticide: anti-slug treatment</td>
<td>60</td>
<td>80</td>
<td>100</td>
</tr>
<tr>
<td>Weedkiller</td>
<td>110</td>
<td>150</td>
<td>190</td>
</tr>
</tbody>
</table>

HOPPER CAPACITY (litres)

<table>
<thead>
<tr>
<th>Outlet Count</th>
<th>Telescopic</th>
<th>Folding</th>
<th>Adjustable in spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Single</td>
<td>Double</td>
<td></td>
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- Planning for the unexpected with warranty extensions,
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