

GD DRILLS





DEVELOPMENT OF THE GD DRILL

Top quality products at affordable prices was the basis of Weaving Machinery when it was founded in 1983 and these objectives are equally important in this family run company today. The best value and performance products are sourced from specialist suppliers throughout Europe whilst the Evesham based factory designs and builds a range of advanced equipment for the agricultural market.

Its consistent long term relationships with customers and suppliers are a measure of the Weaving commitment to the markets it serves.

Weaving Machinery's introduction to zero-till crop establishment began over 20 years ago with the firm importing the Krause disc drill. The double disc coulters became highly popular amongst arable farmers in the early 1990's. To meet the requirements of the UK farmer Weaving Machinery developed the Big Disc drill which further enhanced the double disc coulters design.

With continuous refinements and development to future proof the coulters, Weaving Machinery have been working to develop the new patented GD coulters and have arrived with a disc coulters design which satisfies all drilling systems. The GD coulters provides remarkably low soil disturbance, has a very low draught requirement along with an excellent service life.

The major advantage of the GD Drill is its adaptability to satisfy all drilling systems, soil types and conditions. This provides users with the flexibility to approach zero-till alongside traditional crop establishment methods.

A skilled team of service engineers and a committed parts department ensure that Weaving products will meet their customers every expectation over the extended period of its working life.

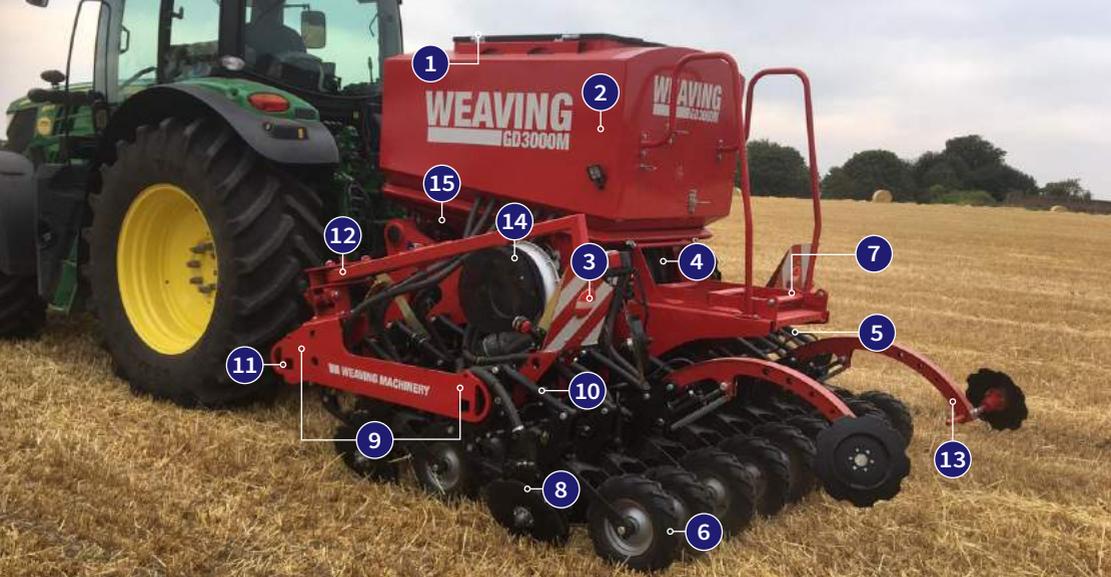


HOW THE COULTER WORKS

The principal behind the GD coulters design is based on a double disc arrangement, mounted on a 25° angle off the vertical which is able to pivot around a central kingpin mounted within the coulters body. The larger leading outer disc cuts an opening slice in the soil whilst the smaller inner disc is in effect undermining the 'upper' side forming an opening for the seed to be placed precisely. This process removes side wall compression from the opening slot making slot closing more effective and consistent.

The lifted wall of the soil is firmed down onto the seed by a single press wheel. The press wheel also acts as a depth regulator for the disc coulters. Drilling depth is adjusted by moving a single pin through a bank of holes with a depth range of 16-144mm in 16mm increments. Coulters are individually pressurised by a hydraulic system providing up to 300Kg of downwards pressure helping to maintain consistent contact with the ground and follow contours and undulations.

This refined design aided by an inter-row clearance of 1 Metre has resulted in a coulters that is able to work in extremely trashy conditions and cover crops without creating an opportunity for hair-pinning to arise. This adaptable system can be used on all cultivation systems and soil types.



KEY FEATURES TO THE MOUNTED MODELS

- 1) GPS forward speed sensor
- 2) 1,600 Litre hopper capacity
- 3) LED work, tank & road lights
- 4) Accord metering unit capable of drilling anything from small seeds to pulses
- 5) Closed circuit hydraulic coulter suspension
- 6) 6 Ply 4.00-8 Kevlar shield pneumatic press wheel
- 7) Ergonomic hopper access steps
- 8) 166mm Coulter row spacing
- 9) Two rows of coulters with 1 Metre inter-beam clearance
- 10) Coulter suspension with 300mm of travel
- 11) Parking Stands
- 12) Optional adjustable hydraulic position markers with serrated cutting discs
- 13) Optional pre-em markers with serrated cutting discs
- 14) Large capacity hydraulically driven fan
- 15) RDS Artemis Lite controls

MOUNTED MODELS

Description: The mounted GD Drill is an affordable, flexible and manoeuvrable direct drill suitable for all farm sizes. A slim line 1,600 Litre hopper provides operators with ample capacity. Fitted with an easily accessible volumetric metering unit accompanied by RDS Artemis Lite controls, calibration is fast and simple. A closed hydraulic suspension system provides individual coulter pressure of up to 200Kg helping to maintain consistent sowing depth across undulations. A guide of 120HP + is recommended.

Standard Specification: 1,600L Hopper, RDS Artemis Lite controls with GPS forward speed monitoring, hydraulic fan, a 2 row coulter bar with a row spacing of 166mm, work, tank & road lights, tank sieve.

Model Available:

Model	Working Width	Weight	Coulters
GD3000M	3 Metres	2,500Kg	18
GD3000M G&F	3 Metres	3,000Kg	18

Options

Hydraulic position markers
 Electric 1/2 shut off
 Slug/Fertiliser/OSR applicator
 i-con controls (130 Litres)
 iSOCAN GPS metering (upgrade)
 Avadex applicator (240 Litres)

Liquid fertiliser kit
 Fertiliser front tank
 GPS double pre-em markers
 Slug Pellet roller for Avadex applicator
 Airless tyres upgrade
 Wheel scrapers



KEY FEATURES TO THE TRAILED MODELS

- 1) GPS forward speed sensor
- 2) 5,000 Litre hopper capacity
- 3) LED work, tank & road lights
- 4) Volumetric metering unit capable of drilling anything from small seeds to pulses
- 5) Closed circuit hydraulic coulters suspension
- 6) 6 Ply 4.00-8 Kevlar shield pneumatic press wheel
- 7) Ergonomic hopper access steps with built in toolbox
- 8) 166mm Coulters row spacing
- 9) Two rows of coulters with 1.2 Metre inter-beam clearance
- 10) Vertical travel of coulters 300mm
- 11) Parking stand
- 12) Large capacity hydraulically driven fan with oil cooler
- 13) RDS iSOCAN controls
- 14) Roll over hopper cover and full width tank sieve/walkway
- 15) Integral small seeds tank and applicator
- 16) Compact 3 Metre transport width
- 17) Mitas Agriterra 02 800/45-26.5 flotation tyres
- 18) Cat III Linkage mounted drawbar
- 19) Easy access inspection door
- 20) Electric switching system for headland management



TRAILED MODELS

Description: Trailed models are available up to 8 Metre working widths helping to satisfy the demands of large farmers and contractors. The 5,000 Litre hopper offers users ample volume whilst being fitted with an easily accessible volumetric metering unit accompanied by RDS iSOCAN controls. The tank can be configured to include two integral micro granular hoppers. A closed hydraulic suspension system provides individual coulters pressure of up to 300Kg helping to maintain consistent sowing depth across undulations. Fitted with a Cat III linkage mounted drawbar allowing for tight headland manoeuvres. The hydraulic folding coulters bar maintains transport widths of under 3 Metres on all models. A guide of 35HP per metre is recommended.

Standard Specification: 5,000L Hopper, RDS iSOCAN controls with GPS forward speed monitoring, hydraulic fan & oil cooler. A 2 row coulters bar with a row spacing of 166mm, work, tank & road lights, tank sieve, roll over hopper cover, Mitas flotation tyres.

Model Available:

Model	Working Width	Coulters
GD4001T	4 Metres	24
GD4801T	4.8 Metres	28
GD6001T	6 Metres	36
GD6401T	6.4 Metres	38
GD8001T	8 Metres	48

Options

Hydraulic position markers	Avadex applicator (240 Litres)	Slug Pellet roller for Avadex applicator
Electric 1/2 shut off	Liquid fertiliser kit	Grain & fertiliser
Slug/Fertiliser/OSR applicator (130 Litres)	GPS double pre-em markers	Airless tyre upgrade
	Variable rate unlock code	Wheel scrapers



GRAIN & FERTILISER

The Weaving GD Grain and Fertiliser drills use the same features as their counterpart grain only models.

The mounted drill utilises the same chassis with the twin tank holding 2,800 Litres, with a 50/50 split. Individual metering units supply different products to the coulter where they are mixed in the seed tube as it enters the ground. The mounted Grain & Fertiliser models use RDS Full Artemis controls with GPS forward speed monitoring, each individual metering unit has the ability to offer variable rate application on the move.

The trailed Grain & Fertiliser drill runs the same chassis unit as our proven grain only model fitted with 50/50 split twin tank holding 5,000 Litres. Individual metering units supply different products to the coulter where they are mixed in the seed tube as it enters the ground. The trailed Grain & Fertiliser model uses RDS iSOCAN controls with GPS forward speed monitoring, easily accessible individual metering unit has the ability to offer variable rate application on the move.



SEED PLACEMENT

Seed Placement: The GD coulters are able to accurately place a wide variety of seed types and sizes whilst maintaining a consistent depth. Seed is delivered between the two discs of the coulters directly to the bottom of the soil opening. The disc coulters units of the GD Drill are independently mounted and hydraulically pressurised, allowing each coulters to maintain consistent contact with the ground. Contours, obstacles and undulations are no challenge for accurate seed placement.



SOIL DISTURBANCE

Soil Disturbance: The GD coulters offer superior soil disturbance control compared to other no-till drills on the market. The coulters eliminate the opportunity for fresh soil to be brought to the surface whilst the surface layer is left intact and therefore prevents fresh and dormant weed seeds from germinating. The leading outer disc cuts through the soil whilst the smaller inner disc undermines the soil structure creating an opening for the seed to be placed, before swiftly being firmed back to its original state.



DRILLING ENVIRONMENTS





CROPS



Wheat after OSR



Linseed after Wheat



Wheat into stoney ground



Spring Barley after Cultivation

OPTIONS

Various options are available to be fitted to the standard GD drill enabling the customer to specify the machine to your exact requirements.

Hydraulic markers: The hydraulic position markers use a serrated cutting disc to scratch a mark into the surface of the field allowing operators to align centre of the machine at equal and parallel distances from their previous workings.

Electric 1/2 shut off: An electronically controlled actuator shuts off 50% of the distribution head cutting off seed supply to half of the machine width to reduce the amount of seed overlap on headland manoeuvres.

Slug/Fertiliser/OSR applicator (130 Litres): A factory fitted or Stocks Turbo Jet applicator can be supplied capable of applying most small seeds.

Avadex applicator (240 Litres): A Stocks Rotor Meter applicator is fitted capable of applying micro and full size granular material and small seeds.

Liquid fertiliser kit: Working in conjunction with S & K Sprayers we are able to supply and fit a liquid fertiliser kit that is mounted to the coulter seed tube directing fertiliser to the seeding zone.

GPS double pre-em markers: A pair of pre-emergence markers are fitted to specially designed coulter brackets using a serrated cutting disc to leave a visible mark for operators to easily follow for subsequent operations. These are activated automatically by the RDS controller.

Variable rate unlock code: This is only available with iSOCAN controls. By purchasing the unlock code operators are then able to access the variable rate seeding facility on the RDS controller.

Slug Pellet roller for Avadex applicator: Available to purchase as an optional extra this roller can be fitted to the Stocks Avadex applicator allowing it to accurately meter Slug Pellet granules.

Grain & Fertiliser: An optional twin outlet tank can be specified on order which can hold and meter out multiple products that are distributed separately to the seed coulter.

Airless tyre upgrade: This tyre is designed using a thick rubber casing allowing the tyre to flex yet remain puncture proof due to the lack of an inner tube, a shallow traction tread compliments the design resulting in less disturbance and soil smearing.

Wheel scrapers: Fitted to the wheel arm these scrapers help to knock off excess soil that may carry on the tyre in damp conditions allowing users to continue operating for longer.



APPLICATORS

Stocks Turbo Jet applicator: The Stocks Turbo Jet applicator with a capacity of 240 Litres are a versatile and accurate 12 volt powered pneumatic applicator to meter and spread most small seeds. This applicator is commonly used to apply avadex or slug pellets with the measured material blown onto the seedbed surface via a separate distribution unit. Applicators can be configured to suit various working widths.

Stocks Rotor Meter applicator: The Stocks Rotor Meter applicator has a capacity of 130 Litres enabling it to accurately and safely meters micro and full size granular material and small seeds. The electronically speed controlled (ESC) applicator uses GPS to automatically maintain application rate as forward speed varies with 'on the go' adjustment of rate. The metered material is fed into the venturi of the seed metering unit via a pressurised air supply ensuring constant delivery of material. The combination of materials is evenly mixed in the metering unit and delivered via one coulter into the seedbed.



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