

# ***Stocks***AG

PROUDLY DISTRIBUTED IN AUSTRALIA BY:



**DRIVING CONTROL EFFICIENCY  
IN AGRICULTURE**

Applicators  
& Seeders

# MICRO & MAXI METER



## PRECISELY METERED & ECONOMICALLY APPLIED

Micro and Maxi Meters  
deliver accurate, tailored  
application of small seeds  
and granules.

# Micro & Maxi Meter

The Micro Meter and Maxi Meter range are economical gravity fed applicators designed to accurately meter and apply seed, fertiliser and micro granules.

The Micro Meter is capable of accurately metering small to medium sized seeds and granular products at low to medium rates. The Maxi meter is a larger capacity machine used for larger seeds and fertiliser applied at higher application rates. Being stainless steel it is resistant to corrosive granules and fertiliser.

The Micro and Maxi Meter applicators are of a modular design, the base unit being 1m long with the ability to apply product to 1.5m working width. Additional 1m units can be added to the base unit in different formats, up to three (Micro Meter Jackal) units can be used to cover a maximum of 4.5m working width when connected in series.

Micro meter units each have a 60 litre capacity where the Maxi Meter has a 165 litre capacity, both applicators are fitted with 6 outlets which can be blanked if required.



## HERITAGE

Stocks has been manufacturing applicators and seeders since the mid 1970s. At the time, Richard Stocks, an agricultural engineer and farmer, saw an opportunity to build a simple broadcast seeder and he began production in his workshop near Wisbech, Cambridgeshire.

Demand for the new slug pellet applicator grew and Fan Jet production began in 1977. Over the years, the Stocks name has become synonymous with small hopper applicators and seeders. Initially the machines were gravity fed and the Micro and Maxi Meter followed the Fan Jet in the early 1990's.

At that time, the rotary feed metering capabilities of the Micro and Maxi Meters satisfied the demand to accurately meter and distribute product at varying rates.

In the late 1990s changes in farming practices meant that farmers wanted a small hopper seeder for grass and specialist small seeds that could be mounted to wider and even folding machines as an alternative to a costly drill. This, coupled with the perceived wisdom at the time to band sow OSR behind a subsoiler leg resulted in the development and launch of the pneumatic Turbo Jet seeder in 2001.

Stocks continues to develop its range of applicators and seeders. However, in more recent years development has focused on the demand for technological solutions to increase levels of precision and control. In 2020 the TM (Twin Metering) control system for the Fan Jet Duo was launched. In 2022 we entered into a distributor agreement with Smart Ag Systems, utilizing their controllers for improved functionality.

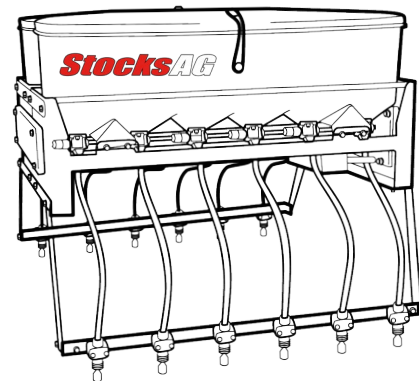


# MICRO & MAXI METER RANGE

Both the Micro and Maxi Meter applicators are modular and can be extended in one metre lengths. The start point for each modular applicator is a base unit with one (Maxi) or two (Micro) additional units added in series.

A Combi-Drive Micro Meter is one where an additional unit is added back to back with the base unit. The drive for the second unit is taken from the first by a chain.

- **Micro Meter**  
Single unit with up to 2 add-on units
- **Micro Meter Combi Drive**  
Two units back to back
- **Maxi Meter**  
Large hopper unit with up to 1 add on unit



## BUILT IN THE UK

Wisbech is still the home of Stock's Ag. The Micro and Maxi Meter are fabricated, assembled and painted in the Cambridgeshire factory. Precision assembly and quality control are paramount to the production process.

The R & D team work with both the factory and farmers to deliver a seeding solution that is fit for current farming practices.

Arable crop applications



Ground care applications



Root crop applications

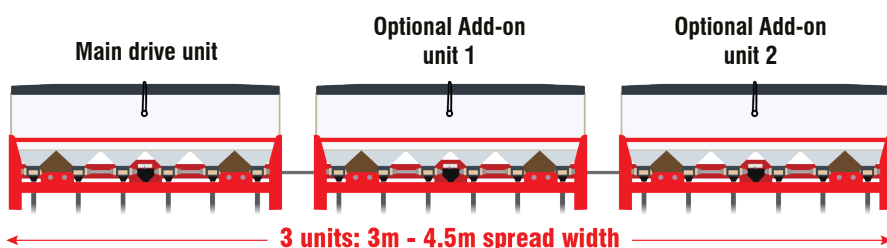


# MICRO METER FEATURES

The Micro Meter is a modular machine, built up in metre lengths as required and used to accurately meter and distribute small seeds and micro granules. It is available with either Vari-Speed or Jackal controls.

A simple, yet reliable, gravity feed system reduces complexity and therefore cost.

The Micro and Maxi Meters are suitable to be mounted onto most types of planters, seeders and cultivators and used to apply most types of seed and granules.



## ADDITIONAL HOPPERS

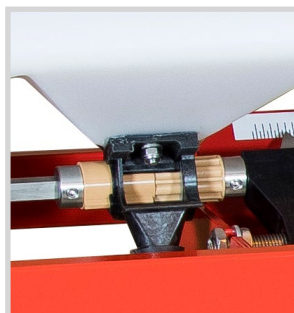
For two, or three metering units when using Jackal control, additions are connected together by drive shafts (up to 60mm).

Each hopper has its own adjuster to slide the six feed rolls together.

## KEY FEATURES

- 1m modular sections, 60 litre hopper.
- Max 3 sections mounted in line
- Gravity fed, 6 outlets per unit
- Band seeding working width of 1.5m per unit
- Spreader plates available, total ground coverage of 1.5m per 1m section
- Optional, GPS speed variable rate control.
- Can be specified with small or large fluted feed rollers.

## METERING

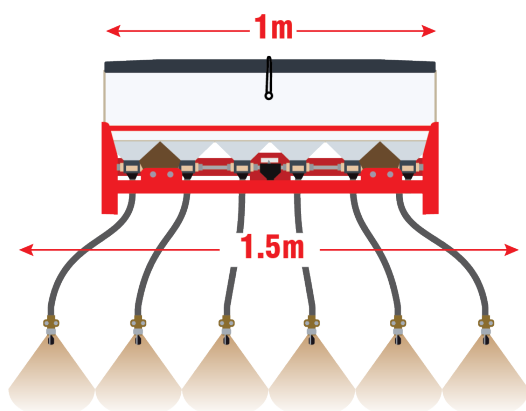


A precision moulded plastic fluted feed roll is driven by a stainless-steel feed shaft.

The feed rolls slide through their housings, to provide stepless rate adjustment, by opening or closing the feed aperture using a simple rotary wheel to increase or decrease the feed shaft speed. Either small or large fluted feed rollers can be supplied.

## BLANKING PLATES

To reduce the number of outlets. If using a seven leg subsoiler use two x 1m Micro Meters with six outlets each and blank off two from one hopper and three from the other to leave seven.



## 6 OUTLETS

Each hopper has six outlets. However blanking plates can be used to reduce the number of outlets.





## ELECTRIC CONTROLS

Two systems are available. Vari-Speed or Jackal. Each system is supplied with a control console, connector cable (6m) and fused battery lead.

Extension cables are available as a cost option.

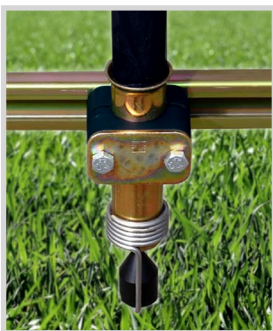
## POWER REQUIREMENT

The stainless-steel feed shaft is powered by a 12 volt motor driving a two speed (high or low) reduction gearbox.



## SPREADER KIT

Each 1m hopper is supplied with a spreader kit consisting of six inverted nylon cones attached to steel tubes. Outlets are mounted on to a length of steel "C" channel which is suspended below the Micro Meter hopper.



The steel channel section can be joined to the adjacent section if more than one Micro Meter is used.

The outlet spreaders slide along the steel channel and are locked in place at the required spacings.

## APPLICATION RATE

The application rate is set by a combination of feed aperture setting and shaft speed which in turn is a combination of gearbox setting and forward speed.

## WATER PROOF COVERS

Micro Meters can be supplied with optional water proof covers for use when out of work.

## VARI-SPEED CONTROL

Vari-Speed control is a simple and effective low cost manually operated electric control. A dial control sets the feed motor speed and thus the application rate and this motor can be instantly started or stopped at headlands.

Vari-Speed is not linked to forward speed so once calibrated the operator drives at a consistent forward speed to maintain the rate, or can manually increase or decrease application rates on the move using the dial.



- Left hand switch  
- feed motor on/off
- Centre switch  
- metering roller high/low speed
- Right hand dial  
- Metering roller speed control

## JACKAL CONTROL

The Jackal control system is a highly adaptable control system that provides complete control of 1 or 2 product seeder/applicators. Its primary function is to automatically maintain a pre-set target application rates as the forward speed varies, with on-the-move adjustment of the rate as required. The Jackal monitors forward speed via its own GPS sensor. Constant comparison and balancing of forward speed versus feed motor speed ensures an extremely accurate and reliable seeding rate is maintained.



- A large 3 up daylight readable LCD
- Rate Nudge – On the move adjustment in pre-set increments
- Seed and fertilizer application rate kg/ha
- Min/max forward speed (km/h) indicator with alarms
- Metering unit status (on/off) and alarm
- Dual product rate control
- Hopper low level alarm
- Remote Run/hold switch for a more ergonomic operator position or via depth switch
- Part and full job totals for area (ha), product dispensed (kg)
- Grand total for area (ha)

# MICRO METER COMBI-DRIVE FEATURES

The Combi Drive uses a Micro Meter base unit with an add-on Micro Meter unit mounted back to back to apply two different products at the same time. The need for only one drive unit reduces cost of the second unit.

The Micro Meter units need to be mounted back to back so that product in both gravity fed pipes have a straight fall onto the same row of crop.

Typically, this would work with OSR and slug pellets or OSR and micro fertilizer mounted to a small cultivator.

## KEY FEATURES

- 2 x 60 litre hoppers per 1m section
- Ability to apply 2 different products
- Gravity fed up to 12 outlets per 1.5 m
- Spreader plates available.
- Optional, GPS speed variable rate control.



## WORKING WIDTH

The number of Micro Meter units required is determined by the width of the implement they will be mounted to, the number of feed outlets needed and the hopper capacity required as well as the decision to broadcast or band sow.

## BROADCAST

Typically used to distribute small seeds, fertiliser or herbicide granules.

Nylon spreader cones should be 30 - 40cm from the ground. Spread widths will vary according to the density of the product being metered. Bout widths should be established before use.

Each 1m hopper has 6 spreader cones and will broadcast most granules and small seeds evenly up to 1.5m (max).

2 x 1m hoppers in series with 12 spreader cones and will broadcast most granules and small seeds evenly up to 3m (max)

3 x 1m hoppers in series with 18 spreader cones and will broadcast most granules and small seeds evenly up to 4.5m (max). Jackal machines only.

## BAND SOW

Typically used to deliver OSR behind or just to one side of a sub-soiler's legs. Alternatively, for applying microgranular fertiliser in bands.

## FITTING TO THE IMPLEMENT

The hoppers should be mounted high enough to ensure product can be gravity fed down the delivery hose.

The chassis bolt together to form a rigid structure. Spare holes have been drilled to facilitate fitting to the parent vehicle with a suitably supplied bracket.



# MICRO & MAXI METER SPECIFICATIONS

	MICRO METER		COMBI DRIVE		MAXI METER	
Control system	Vari-Speed	Jackal	Vari-Speed	Jackal	Vari-Speed	Jackal
Electronic seed shaft monitoring	-	YES	-	YES	-	YES
Electronic adjustment of speed rate on the move	YES	YES	YES	YES	YES	YES
Feed rollers installed	Fine/Large	Fine/Large	Fine/Large	Fine/Large	Large	Large
Spreader/distributor cones	YES	YES	YES	YES	Option	Option
Maximum number of outlets per meter	6	6	6/12	6/12	6	6
Maximum working width per unit	1.5m	1.5m	1.5m	1.5m	1.5m	1.5m
Acoustic and visual warnings	-	YES	-	YES	-	YES
Headland management by in/out work switch	Option	Option	Option	Option	Option	Option
Area counter	-	YES	-	YES	-	YES
Variable rate control with forward speed sensor	-	YES	-	YES	-	YES
Hopper level sensor	-	Option	-	Option	-	Option
GPS speed sensor	-	YES	-	YES	-	YES
Control box cab mount	YES	YES	YES	YES	YES	YES
Hopper size (litre)	60	60	60	60	165	165

*Supplied with:*

## Vari-Speed

**5m fused battery power cable and 6m connector cable are supplied as standard. Extension cables are a cost option.**

*Power requirement: 12 volts DC – 15 amps.*

## Jackal

**5m fused battery power cable and 6m connector cable are supplied as standard. Extension cables are a cost option.**

*Power requirement: 12 volts DC – 15 amps.*

Due to our company policy of continual improvement we reserve the right to change specifications without notice. E & OE.

# MAXI METER FEATURES

The Maxi Meter is a larger capacity version of the Micro Meter, designed for large seeds and prilled fertilisers. Aimed at higher application rates it has similar 1m modular sections but a 165 litre stainless steel hopper which is resistant to corrosive granules and fertiliser.

## KEY FEATURES

- 1m modular sections
- 165 litre stainless hopper
- Larger metering unit than Micro Meter
- 6 outlet per unit, total ground cover up to 1.5m per section (when fitted with optional spreader plates)
- Max 2 units mounted in line (3m working width)
- Can be specified with small or large fluted rollers



## SMART AG SYSTEMS PRODUCT WARRANTY

Standard warranty 12 months.

Full warranty terms and conditions on request.



# StocksAG

Founded over 40 years ago, Stocks Ag is along-established British company dedicated to providing innovative products used in the agricultural, horticultural, forestry and amenity sectors.

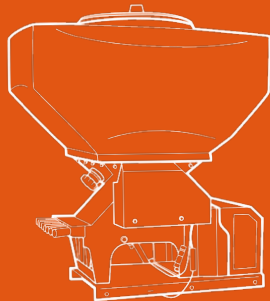


## Applicators & Seeders

### TURBO JET RANGE

Pneumatic, metered applicators  
up to 10m working width

- Turbo Jet 8 VS-2
- Turbo Jet 8 Jackal
- Turbo Jet 10 VS-2
- Turbo Jet 10 Jackal



### FAN JET RANGE

Spinning disc spreaders  
up to 36m working width

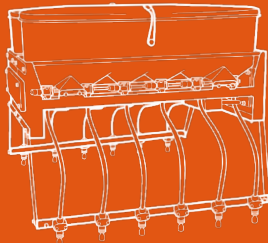
- Fan Jet Pro
- Fan Jet Pro Plus
- Fan Jet Mini
- Fan Jet Duo



### MICRO & MAXI METERS

Gravity fed, metered applicators  
up to 4.5m working width  
(multiple connected units)

- Micro Meter
- Maxi Meter



### ROTOR METER RANGE

Gravity fed or pneumatic,  
metered applicators  
up to 3m working width

- Rotor Meter
- Rotor Meter Air Force



PROUDLY MARKETING IN AUSTRALIA BY:



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