

Varidome

A range of economical shielded band sprayers



Employing innovative application technology, Varidome is a range of shielded, low-volume band sprayers designed to safely eradicate weeds growing in between rows of crops and in wheelings. The sprayers are also available with Micron's Dual Spray System which enables simultaneous application of another product over-row.

- Suitable for a wide range of crops including sugar beet, oilseed rape, maize, vegetables, ornamentals, herbs and tree nurseries
- Shielded design minimises spray drift
- Significantly reduced chemical and water usage
- Adjustable spray width to suit the crop
- Improved spray targeting
- Optional dual spray system
- Available in 3m, 6m and 9m maximum working widths

Setting the trend in precision farming

With increasingly fewer active ingredients available for crop protection, farmers are often left with a limited choice of herbicides in some crops. The Varidome range of band sprayers from Micron Group can help growers reduce their dependence on the use of selective products by offering a highly targeted and accurate spraying solution.

Varidome sprayers incorporate a shielded design which allows better targeting of weeds growing in the inter-row and enables the use of a wider range of herbicides, allowing for effective removal of persistent weeds such as black-grass.

Additionally, Varidome can deliver selective herbicides, fertiliser, fungicides or insecticides directly over the row using Micron's Dual Spray System. Such product targeting is much more effective as the chemical is only being applied where it is needed. This is better for the environment and also offers users significant cost savings and better weed control.

Used in conjunction with precision guidance systems, Varidome inter-row sprayers deliver impressive accuracy. Using GPS guidance with real time kinematic (RTK) correction, Varidome is capable of spraying bands between crop rows to within 2-3cm

accuracy. Varidome can also be used in conjunction with similarly accurate vision guidance systems to identify crop rows. The combination of precision guidance systems and Varidome's shielded technology delivers accurate application of herbicides, avoiding spray contacting adjacent crops. The use of automated guidance enables faster operating speeds with Varidome which means higher productivity and efficiency.



Weeds in sugar beet post Varidome treatment



Varidome S3 guided by RTK GPS system in sugar beet

Selectivity and efficiency by design

Varidome's shielded technology means application selectivity by equipment design rather than by chemical. As a result, operators can use a wider range of herbicides in situations where normally only a selective herbicide would have been suitable.

Spray width is adjustable on each individual head enabling users to treat the desired inter-row and wheeling widths. The toolbar configuration can also be easily changed to fit different planting distances, band widths, number of rows and bed heights.

Each Varidome spray shield is mounted on an individual carriage with parallelogram and ground following wheel for independent operation. This enables Varidome to follow the contours of the terrain keeping each shield in close contact with the ground to minimise spray drift. When not in use, the carriages lift up and lock in position for safe transportation.



Spraying technology

A choice of hydraulic pressure nozzle or Micron CDA atomisers is available depending on machine specification.

Micron CDA heads feature rotary atomisers which produce optimum sized spray droplets for maximum spraying efficiency. As a result, operators can enjoy a number of benefits which include a more efficient use of chemicals, lower volume rates and greater productivity.

Application volumes on the treated area are typically 50-100 l/ha for CDA atomisers and 100-200 l/ha for hydraulic pressure nozzles.

A choice of models for varying applications

The Varidome range is available in 3m, 6m and 9m maximum working widths to suit the crop and planting system. The Varidome S1 and S3 models can be specified as front or rear mounting depending on user preference, whereas the Varidome S5 sprayer is available in a rear mount configuration only.



A range of tanking options

The Varidome range can be supplied with a choice of single tanks, depending on specification. A Dual Tank option with the combined capacity of 1800 litres is also available for simultaneous inter-row and over-row treatment.

Dual spray system

Varidome sprayers can be equipped with a second spray line for over the row applications using Micron's Dual Tank System. For example, users can treat the inter-row with a non-selective herbicide under the shield and simultaneously apply a selective spray over the row, thus allowing two operations in one pass.





Varidome S1

Varidome S1 is a single section sprayer that allows growers to treat inter-row widths from 80mm to 800mm with a maximum working width of 3 metres. Varidome S1 comes with a choice of up to 8 Micron CDA (Controlled Droplet Application) or hydraulic pressure nozzle heads. The sprayer can treat up to 20 hectares a day.



Varidome S3

Varidome S3 - the three section sprayer – can incorporate up to 18 shielded hydraulic pressure nozzle heads. It can treat inter-row widths from 170mm to 700mm with a maximum sprayer working width of 6 metres and can spray up to 40 hectares a day. Varidome S3 folds hydraulically for safe transportation.



Varidome S5

Capable of spraying widths of up to 9 metres, Varidome S5 offers higher productivity and is capable of treating up to 60 hectares a day. The sprayer can be fitted with up to 24 shielded hydraulic pressure nozzle heads. Spray width can be individually adjusted on each head to treat the desired band (170mm to 700mm).

When not in use, Varidome S5's unique folding system allows for compact transportation and storage.

Varidome in action

If you would like to see Varidome in use, please visit www.micron.co.uk/videos.

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Specification

	Varidome S1	Varidome S3	Varidome S5
Implement Requirement:	12 volt 3 amp supply; Single hydraulic service	12 volt 3 amp supply; Min. 3 hydraulic services	12 volt 3 amp supply; Min. 3 hydraulic services
Tank Capacity:	Single: 100 and 200 L	Single: 400, 600 and 1000L; Dual: 1800 litres (1050/750L)	Single: 600 and 1000L; Dual: 1800 litres (1050/750L)
Vehicle Mounting:	3 point linkage: CAT2, front or rear	3 point linkage: CAT2, front or rear	3 point linkage: CAT2, rear only
Spraying System:	Micron CDA (rotary) atomisers or hydraulic pressure nozzles	Hydraulic pressure nozzles	Hydraulic pressure nozzles
Inter-row Width:	80mm – 800mm	170mm – 700mm	170mm – 700mm
Working Width:	Up to 3m	Up to 6m	Up to 9m
Minimum Tractor Requirement:	50 HP	100 HP	120 HP