

Low Emission Slurry Applicator Range



2 Band Spreaders



3 Trailing Shoe Applicators



4 Shallow Disc Injectors & Cereal Applicators



ABBEY
MACHINERY
since 1947

LOW EMISSION SLURRY SPREADING TECHNOLOGY

Liquid manure is a natural source of nitrogen, potassium, phosphorus, organic matter, and minerals. Achieving even slurry application regardless of weather conditions, crop type and date are critical. Abbey Machinery's low emission slurry spreading range includes Band Spreader, Agri Pro Trailing Shoe, Premium Trailing Shoe, Premium Plus Trailing Shoe and Shallow Disc Injector applicators all in a variety of widths.

LOW EMISSION SUSTAINABLE SLURRY SPREADING APPLICATOR BENEFITS

Abbey Machinery LESS Applicators are key to efficiently meeting emissions reduction regulations while saving money through the precise application of valuable, nutrient dense slurry.

- Up to 60% reduction in N loss (as ammonia).
- Optimal delivery of N, P & K to the leafy growing sward.
- Efficient use of N in organic manures to improve the carbon footprint of the farm and food produced.
- Increased utilisation of organic fertiliser.
- Evenness of slurry application and accurate, precise placement.
- Reduced smell during application.

BAND SPREADER

Abbey's Band Spreader range is fully galvanized for longer working life. Applicator is mounted close to the tanker for maximum weight transfer. Features include breakback boom, steel stone trap, wide working width and vertical folding inclined towards the centre for lower transport height.

UMBILICAL READY

All Abbey Band Spreaders come fully umbilical ready. With the addition of the Abbey Machinery umbilical frame, band spreaders can be easily mounted to the tractor for additional spreading options.

Size	HP Required	Minimum Working Height	Gross Weight	Maximum Transport Width	Maximum Height Rigid Mounted	Maximum Height if Mast Mounted	Central Distributor
7.7m	73Hp	150mm	615kg	2.62m	3.5m	3.65m	Standard
9.2m	73Hp	150mm	795kg	2.62m	2.95m	3.40m	Standard
10.7m	73Hp	150mm	850kg	2.62m	3.25m	3.40m	Standard
12m	73Hp	150mm	900kg	2.62m	3.25m	3.40m	Standard

PREMIUM DISTRIBUTORS

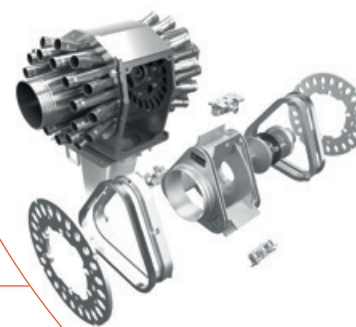
Abbey machines feature the choice of premium Alrena and Vogelsang distributors to customers.

ALRENA DISTRIBUTOR



- Rotating cutting system with round cutting discs.
- Heavy Duty cutting plates to increase cutting performance and prevent blockages.
- Very precise distribution of the slurry due to patented high air flow system.

VOGELSANG DISTRIBUTOR



- Efficient distribution of slurry due to larger cross-sections and new flow guide plates calming the flow and ensure unprecedented distribution precision.
- Reduced power requirements (up to 50% less power requirements)
- Extended service life (up to 50% longer service life). The optimized ExaCut rotor technology with tri-lobe design reduces the speed and the internal pressure in the distributor, reducing the strain on the cutting blades.



PREMIUM TRAILING SHOE

The Premium Trailing Shoe combines dribble bar, trailing shoe and umbilical ready into one machine. It can be linked to a tanker via fixed mounting or with a hydraulic mast. The trailing shoe is effective at reducing ammonia losses by 60% as the slurry is placed in bands directly onto the soil surface just below the grass.



Size	HP Required	Minimum Working Height	Gross Weight	Maximum Transport Width	Maximum Height Rigid Mounted	Maximum Height Mounted Mast	Central Distributor	Umbilical Arm	Auto Reverse Valve
7.7m	73Hp	100mm	930kg	2.65m	3.76m	3.97m	Standard	Optional	Standard

AGRI PRO TRAILING SHOE

The Agri Pro Trailing Shoe provides soil engagement with an enhanced contour following and includes a 30-hole distributor, stone trap system, 40mm hose and 5" distribution pipe. The Agri Pro provides precise application and flotation system on hilly or uneven ground keeping downward force on the shoes and includes a self-levelling boom that adjust to the ground. The Agri Pro gives the operator the option of filling from directly behind the applicator into the tank and is complete with mounting brackets between the tank and applicator sufficiently mounting onto the tank via a linkage system.



Size	HP Required	Gross Weight	Maximum Transport Width	Maximum Transport Height	Central Distributor
7.7m	75Hp	900kg	2.6m	3.3m	Standard

PREMIUM PLUS TRAILING SHOE

The Premium Plus Trailing Shoe is completely galvanised and includes a unique 6-point-linkage for optimum flotation on the ground. Unique boom geometry allows booms to follow ground contours easily. Hydraulic folding rams protect hosing in transport. The vertical folding incline minimises transport width. Central distributor chops and distributes slurry evenly. Premium Plus Applicators are built to support umbilical arm.



Size	HP Required	Minimum Transport Height	Gross Weight	Maximum Transport Width	Maximum Height Rigid Mounted	Central Distributor	Auto Reverse Valve	Folding
7.7m	73Hp	350mm	1,150kg	2.56m	3.59m	Standard	Standard	Vertical Single Fold
8.7m	73Hp	350mm	1,290kg	2.56m	3.34m	Standard	Standard	Multi Fold
10.7m	73Hp	350mm	1,410kg	2.56m	3.34m	Standard	Standard	Multi Fold

SHALLOW DISC INJECTOR

The Shallow Disc Injector is ideal to spread slurry on pasture ground, capturing even more of the nitrogen in the slurry by creating discrete lines in the soil allowing a more rapid flow. The Abbey Shallow Disc Injector is fully galvanised with 50mm piping and a direct porting pulsating macerator. Self-levelling boom adjusts to the ground contours using 4-point linkage.

Size	Overall Working Width	Overall Transport Width	Boot Spacing Distance
4m	4m (13'1.5")	2.6m (8'7")	0.25m (10")
5m	5m (16' 4.5")	2.6m (8'7")	0.25m (10")
6m	6m (19' 8")	2.6m (8'7")	0.25m (10")



CEREAL APPLICATOR

Cereal applicators are ideal for cereal and other crop applications and have all the benefits of low emission slurry spreading. Abbey's Cereal Applicators range from 12-36m in length.



Abbey Machinery Ltd., Clonalea,
Toomevara, Nenagh, Co. Tipperary, Ireland.

Tel: +353 67 26677 **Fax:** +353 67 26778

Email: info@abbeymachinery.com

APPLICATOR OPTIONS

Abbey LESS applicators come with a variety of optional extras including umbilical overhead arm, 'Rota Cut' inlet chopper filter, heavy duty linkage option, hydraulic linkage option and divertor control options.

SMART TECHNOLOGY OPTIONS

Abbey Machinery LESS applications work with various technical controls such as NIR and ISOBUS to support slurry nutrient measurements and application control for optimal spreading.

NIR SENSING allow farmers to know exactly how many kilogrammes of nitrogen, potassium or phosphate have been applied to their land (site-specific when combined with a GPS system), which helps to reduce artificial fertilizer inputs. Its precision technology at its best.

The ISOBUS solution while actively controlling the tanker and application rate technology, allows the distributor head to be sequenced electronically to operate within a group of functions. The boom arms will lower, the gate valves open and the distributor switches on in a timed sequence. If the distributor feels over pressure, a signal is sensed on the ISOBUS solution, and the distributor head automatically reverses to free any potential blockage.