

# **AGRISEEDER**<sup>TM</sup>

ERTHENGINEERING *Outstanding in your field*



A FLEXIBLE GRASS DRILL PERFECT FOR SOWING

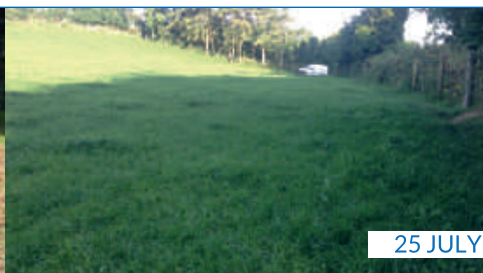
- CLOVER ● GRASS ● FODDER CROPS
- COVER CROPS ● SETASIDE MIXES ● CEREALS

INTO EXISTING SWARDS OR BURN OFF

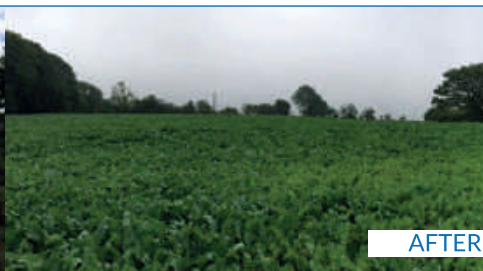
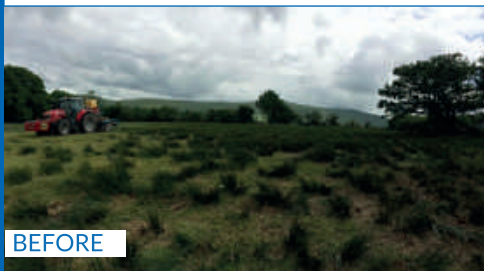
# WHY CHOOSE THE EARTH ENGINEERING AGRISEEDER?

- FERTILITY RETAINED AT SURFACE
- FIRM SURFACE WITH MINIMAL DISTURBANCE
- LESS MOISTURE LOSS
- DOES NOT LIFT STONES OR DRAG TRASH
- DELIVERS IN HARD AND SOFT CONDITIONS
- EXCEPTIONAL PERFORMANCE WET AND DRY
- SUPERB DEPTH CONTROL ON UNDULATING GROUND
- FASTER AND CHEAPER SWARD TURNAROUND
- LOW HP REQUIREMENT; TRACTORS FROM 100HP
- SLOT CREATED IS A NATURAL MOISTURE TRAP
- SLOT CREATED SHELTERS THE YOUNG SEEDLING
- TILTH CREATED IN SLOT

DRILLED WITH 24 ROW MACHINE ON 15 MAY



FODDER CROP SOWN WITH 4M 32 ROW MACHINE





## SLIT SEEDING

Subject to adequate temperature, moisture is the single most important element needed for germination. By cutting a slit in the ground a natural moisture trap is produced so that seed germination is maximised and the young seedling is sheltered whilst it anchors its roots directly into the soil so minimising losses as grazing commences. If a slit is cut too deep the seedling may be slow to emerge or can fail as it will run out of energy and if cut too shallow then it can lose out on the advantages of the slit therefore good depth control is essential.

Sports fields apart, grass fields are undulating so depth control is more difficult. Most drills have a sprung loaded system to help cope with undulations. However the download pressures needed for a grass drill to do its job reduce the flexibility of these devices and can severely compromise depth control where there are ground contours as all the weight can be concentrated over several coulters.

Shallow seeding is always preferable as it provides a quicker turnaround of the sward, however some drills are too rigid so when they try and sow shallow they miss or they sow deep. Autocontour allows more flexing of the drill so the drill overcomes this problem.

## AUTOCONTOUR

With autocontour, a unique feature of the Erth Engineering Agriseeder, a secondary suspension system is incorporated to increase flexibility. The drill frames are partitioned into eight-coulter sections and the download to each is applied by a hydraulic ram. The rams are linked to each other so download per frame equalises despite undulations. This is seen by changing ram position as the machine goes down the field and is proven by the consistency of the cuts.

Although autocontour was developed to help achieve better seeding depth over undulating conditions it does so much more.

**Reduced loadings improve reliability of all parts – bearings, rubbers, everything has an easier time.**

**The flexibility of the Agriseeder with more even loading per coultter allows the machine to work in hard/dry and wet/soft conditions.**

The **AGRISEEDER** has a reputation of producing results where other machines may fail.

Distribution head gives even distribution across all coulters across slopes and up and down hills.

The visible seed flow allows the operator to see that everything is metering okay and the change in noise as seed runs out means that a separate low level sensor is not required.



## DRILL BOTTOM END

Forge de Niaux 4.5mm boron blade.

Large twin roller 3206 bearing twin sealed and greaseable for reliability.

Seed coulters have replaceable tungsten carbide tile facing the soil pressure on outside and loaded against the disk by rubber washers allowing unit to be lightly loaded to disk to enable cleaning of blade and prevent build up of material between disk and seed delivery tube. Where grass residue is present this can prove invaluable against downtime.

Large 40mm rubbers provide a good grip onto the bottom frames preventing lateral movement (changing row spaces) and allow more travel and flexibility. There is a gap between top and bottom elements so that the units can be tightened progressively as the years progress to enable the functionality to remain. Both units oppose lateral forces so again stability is good.

The single disk on the Agriseeder works at a pronounced angle reducing pressure on the seed coulters and enabling good finish. The slot effectively opens up to form a small band and the flexing of the soil produces tilth to provide a better environment for the young seedling to establish and flourish.

Galvanised elements help longevity when using with lots of manure.

Rams are supplied with marine specification Nikrom rods which give excellent reliability long term.



# HOPPER OPTIONS

## Teknik Plus

This machine boasts two twin fan electric units. It comes as standard with three feed rollers allowing sowing from 2kg/ha to 100kg/ha. Calibration is easy and extremely accurate. The in cab monitor shows kg sown, area covered, application rate and speed. Seeding rate can be changed on the move. Speed sensing can be from the tractor radar or from a braked metering wheel. 400L plastic hopper.

## Erth Electric

Largest air delivery by any electric fan. Easy change feed rolls with proper bearing support at each end. Ten presets allow for quick changing from seed to seed without calibration. Purge button allows seed delivery without forward motion aiding sowing from corners. Seed rate can be changed on the move and the display shows lots of information. 400L plastic hopper. Hydraulic fan option.

## Erth Mechanical

Kverneland metering unit and mechanical driveline and ground wheel provide a very robust and simple unit. Stainless steel and plastic hopper assembly. Simple area clock on metering unit shows area sown. Hydraulic punker fan is superb. 400L plastic hopper as standard (other sizes available on request).

# OPTIONS

- **Weight Frames + 140kg**
- **Front Harrow** – where the drill is to be used in conjunction with conventional tillage or with reekie harrow to reduce repression from chemical.
- **Rear Harrow** – helps dust more fines into the slot and helps neutralise chemical repression.
- **Farm Flex Roller** – ideal for drilling on cultivated ground.
- **Galvanised Frame** *(pictured right)*
- **Second Hopper and Double Entry Coulters** for fertilizer.

	24 Row 3m	32 Row 3m	32 Row 4m Folding
Row Spacings	125mm	94mm	125mm
Row Width	7mm	5mm	7mm
Weight	1500kgs	1710kgs	2240kgs
Tractor Req	100hp+	120hp+	140hp+
No of Frames	3	4	4



Erth Engineering offers a range of farm machinery which is designed and built at its base in Co Down, Northern Ireland.

The company prides itself on building simple, functional, robust machines that can out perform all comers in the field.

Specialist design and manufacture of Panbuster Subsoiler and Agriseeder Seed Drill along with a range of other non-powered cultivation equipment.

Erth Engineering is market-leader in the UK and Ireland for auto-reset grass subsoilers and grass disk drills - now supplying worldwide.



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