

Outstanding in your field



*Take care of your biggest asset the soil. Improve aeration and drainage with our market leading, high finish, low horsepower, flexible subsoiler - the **Panbuster**.*

*The combination of our **products**, our **knowledge** and the **support** we provide are driving our business forward.*

Let us help you drive your business forward.

David McCoubrey
Company Director

GRASS SUBSOILING

In grass subsoiling the compaction starts at the surface and builds progressively deeper. This will cause poorer water transfer, more anaerobic activity and shallower rooting - less grass, less palatable grass, water logging of the surface and the land can become unusable by livestock and machinery.

The new grass leg developed by Erth Engineering sets new standards of performance. This is not an arable leg slimmed down, or a smaller foot - it does not stagger the legs to overcome the failings in design - this is the standard that just keeps on giving. By placing the legs in a line the lift is maximised and can be controlled more by adjusting the toplink. A 3-leg Panbuster often out performs 4-leg alternatives with stagger. As the point wears, lift and penetration can be helped by shortening the toplink - the wear logistics are enhanced.

Every soil has different characteristics and behaves differently with varying moisture, however the wave action generated by panbusting levers open cracks maximising the cracks generated in the top zone and works on all soil types and conditions.

This is not arable subsoiling - there is little point in high shatter at depth but low shatter at the surface. This is grass subsoiling - high shatter near the surface reversing the compaction.

AUTORESET

- The best auto-reset on the market with three safety functions; high lift, side swing and shear-bolt.
- Hydraulic system incorporating an accumulator with a secondary bladder accumulator for a fully enclosed auto-reset system.
- Hydraulic reset allows break-back pressure to be varied to suit conditions.



HIGH LIFT

The higher the lift the higher the protection.



SIDE SWING

Reduces stress and brings up less stones.



SHEARBOLT

Maximises protection.

STANDARD FEATURES *Common to both grass and arable machines*

- Hydraulic roller/hydraulic depth control – all machines come as standard with hydraulic depth control and indicator. This allows depth to be changed to suit conditions. The machine can be lifted out at the end of the run using the roller. The roller then rolls the exits for a clean finish.
- Sprung loaded disks.
- Marine spec Nikrom ram rods – extremely reliable.
- 400 brinell materials used for high stress areas.
- Load bearing areas are bushed and have large pins.
- In line legs maximise the lift. Toplink adjustment can be used to compensate for wear, extend life and reduce running costs.
- Patent pending Slot-Cam tilt function enables point pitch to be optimised for lift and wear performance on different soils.
- Best wear part system. Hook and pin shin is reversible and one roll pin on point holds everything in place.
- Reset trips up and back to minimise stress and prevent stones rising to the surface.

MODELS

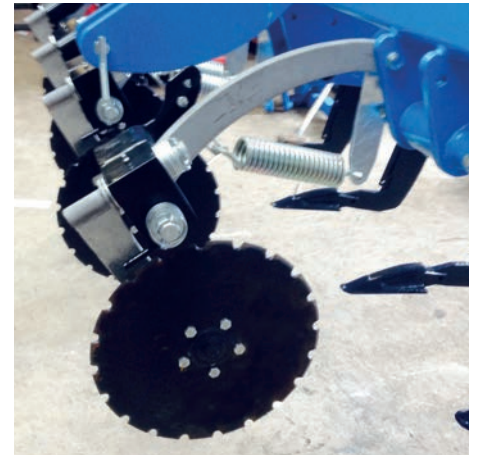
Model	3 Leg Compact/Eco	4 Leg X	5 Leg X	3/4 Leg Shearbolt	3/4/5 Leg Shearbolt
No Legs	3	4	5	3/4	3/4/5
Leg Spacing	900mm	600mm	600mm	900/600mm	1200/800/600mm
Working Width	2.7m	2.4m	3.0m	2.4m	3.0m
Transport Width	2.35m	2.6m	3.0m	2.4m	2.95m
Weight	960/1050kg	1250kg	1500kg	960kg	1120kg
HP	80hp	100hp	130hp	100hp	130hp



Panbuster X



Panbuster X with Galvanized Frame.



Panbuster X Disk

PANBUSTER X

Our top of the range machines use an accumulator each side of the reset rams. The main accumulator is a super reliable piston accumulator and the second accumulator eliminates the breather so we don't have moisture/condensation forming in the rams.

All X machines are fitted with auto reset and with a constant pressure disk which provides consistent depth of cut throughout the depth range.

COMPACT / ECO PANBUSTER

A simple disk system with same format and spacing between disk, leg and roller. A simple 250 by 100 frame with Indespension-type rubber mounted disk and single bolt depth adjustment.

SHEARBOLT PANBUSTER

Same disk system as the Compact / Eco with same format and space between disk, leg and roller. Different leg numbers in the same frame as standard.

OPTIONS

- Soft Drive on Rear Roller
- Steel Toothed Packer
- Various Leg Options - inc. mole plough legs
- Adaption for Umbilical Manure Systems
- Long Legs
- Arable Legs
- Galvanised Frame



Compact / Eco Panbuster



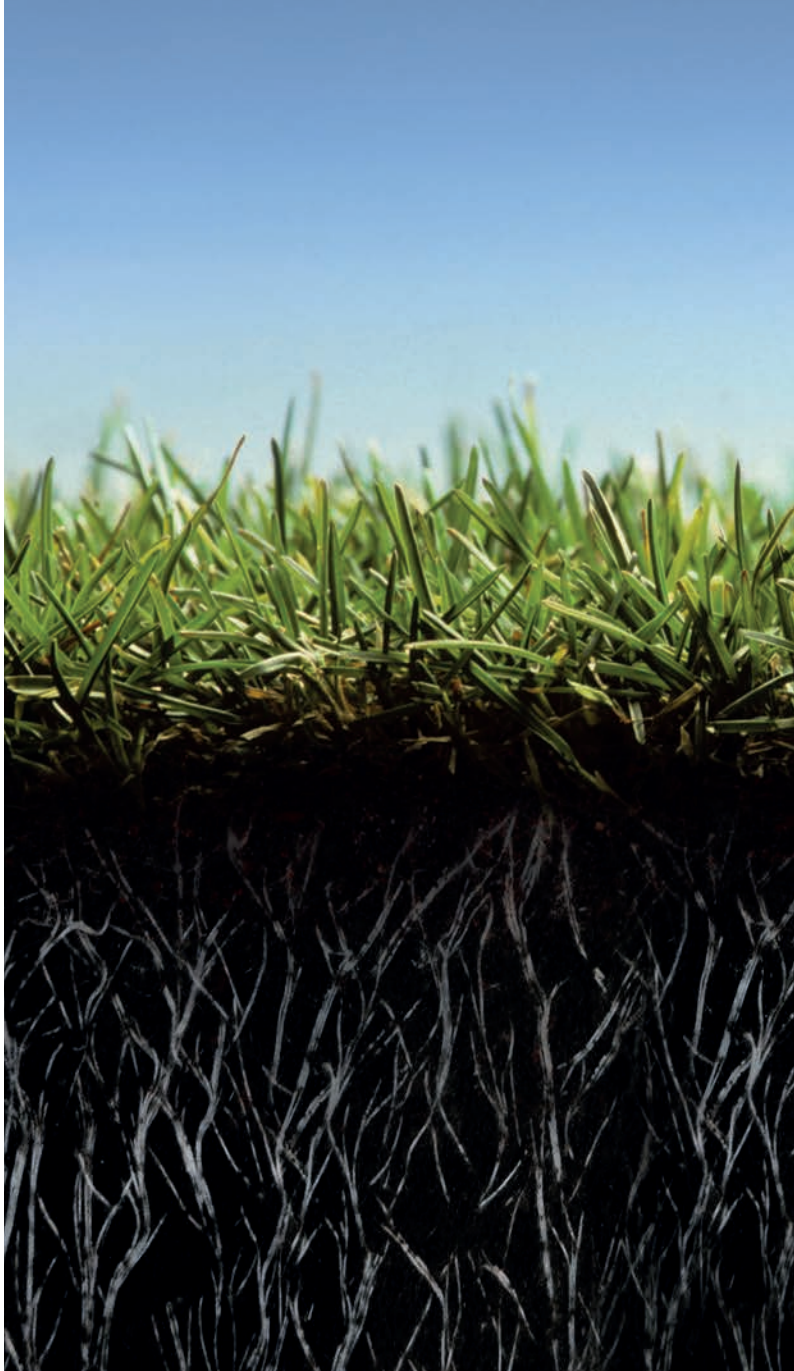
Shearbolt Panbuster



Series 3 Grass Leg



SHALLOW ROOTS
COMPACTED SOIL



DEEPER ROOTS
NEW ROOT GROWTH

WHY CHOOSE THE PANBUSTER?

THE ULTIMATE LOW DISTURBANCE SUBSOILER

The Panbuster range is designed to improve soil aeration and improve drainage. It will help farmers to grow more grass, extend their growing season and improve grass quality.

Low disturbance arable and conventional arable versions are also available which are proven to increase crop yield potential.

All machines have hydraulic depth and adjustment on the move, which amongst other innovations, helps our subsoilers really stand out, in a crowded subsoiler market place.



GROW MORE GRASS

A well aerated soil with good root structure can significantly increase grass yield potential. It stands to reason that you cannot get good plant growth above ground if there is not a good root structure below the ground. Independent tests show that with subsoiling there is an average 21% increase in dry matter across a range of soil types.

EXTEND YOUR GROWING SEASON

A well aerated soil warms up quicker in the Spring and cools down more slowly in the Autumn enabling the length of the grazing season to be extended.

IMPROVE GRASS QUALITY

Subsoiling increases aerobic activity in the soil and sweetens the grass making it more palatable. Many farmers will state that animals prefer to graze a subsoiled area over an un-subsoiled area.

IMPROVE DRAINAGE

Improved aeration will result in improved drainage, enabling livestock to traffic the ground with reduced poaching and enabling the grass to be used. Increased pore space allows quicker perforation of moisture into the soil and aids speed of water movement. Water drains better in the wet and there is more moisture available when dry.

ARABLE SUBSOILING

A well aerated and drained soil with good structure will maximise root development. Good root development will assist plant production above ground. The use of a suitable subsoiler can increase production and profitability for any cropping regime.

The technology developed on our grass subsoiler provides the ultimate low disturbance leg assembly for those looking for minimal soil disruption at the surface whilst achieving good soil movement in lower profiles below the surface.

AUTORESET

- The best auto-reset on the market with three safety functions; high lift, side swing and shear-bolt.
- Hydraulic system incorporating an accumulator with a secondary bladder accumulator for a fully enclosed auto-reset system.
- Hydraulic reset allows break-back pressure to be varied to suit conditions.

LEG TYPES

Conventional arable with 3-piece wing, shin and point. This combination is superior to 1-piece units as it allows the parts to be worn out more efficiently. Points and shins are held on by a single roll pin and the wing by a single bolt. Legs are hard faced to prevent soil flow producing taper wear at the rear.

For low disturbance, grass disks and grass legs can be fitted. This is the ultimate low disturbance, low horsepower leg assembly.



V Form 5 Leg Arable Panbuster
Low Disturbance Leg & Disk



V Form 5 Leg Arable Panbuster
Conventional Leg & Disk



Panbuster Toolbar

MODELS

Model	3 Leg Straight Frame	5 Leg V Frame	4 Leg 3m Toolbar	6 Leg 4m Toolbar
No Legs	3	5	4	6
Leg Spacing	900mm	600mm	750mm	650mm
Working Width	2.7m	3m	3m	4m
Transport Width	2.35m	3m	2.9m	2.95m
Weight	960/1050kg	1600kg	1200kg	1600kg
HP	80hp	150hp	100hp	150hp

3 LEG ARABLE PANBUSTER

Available with traditional winged legs or grass legs for low disturbance. Standard depth wheels with optional hydraulic kit to facilitate changing depths on the move.

V FORM 5 LEG ARABLE PANBUSTER

Available with traditional wing legs or for low disturbance with grass legs and grass disks. Optional rollers: tyre, coil, toothed or plain roller. Ability to fit Erth micro seeder for seeding applications.

PANBUSTER LD TOOLBAR

Available in 3m or 4m Telescopic. The 4 leg machine is a 3m rigid. The 6 leg 4m machine has hydraulic, telescopic wings operated by electro-solenoid function diverted from the depth wheel circuit.

Using our well proven grass disk and leg units, the ultimate in low disturbance is achieved with the lowest HP in its class by far. Hook and pin replacement wear parts and the new patent pending slot-cam tilt function optimises penetration and wear for different soil conditions. Depth wheels allow for the hydraulic adjustment over a 150mm range and the rear linkage or K80 ball hitch compensates for depth adjustment to keep the correct pull height for following implement.

- Hydraulic and electric services to rear are tailored to customer requirements.
- Shearbolt or Autoreset.
- Depth to 350mm.
- Full road lighting kit as standard.

OPTIONS

- Choice of packers - toothed packer, rubber roller packer or wedge packer.
- Choice of drill fitting kits for small seed units.
- Special build variations available for oilseed rape.
- Lighting kit.
- 5 Leg V Form can be fitted with low disturbance legs and disks.

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ALSO AVAILABLE



The Agriseeder direct drill enables farmers to establish crops with minimal soil disturbance compared to traditional inversion methods. It is an extremely efficient and cost-effective way to put practically any crop in the ground, allowing the farmer to grow crops which can improve the soil and keep the land productive all year round.



Photo courtesy of AR Imagery



PRODUCT • KNOWLEDGE • SUPPORT



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