



TREE SEEDER

FEATURES

- Simple, strong, robust frame construction
- Contour following and independent press wheel. This is a key part of the machine. My experience over the years has been that keeping the press wheel independent of the tyne, increases the life of the press wheel, seed boots, pivots etc. immeasurably. The press wheel is attached to a parallelogram assembly, as opposed to a single arm. This gives constant seed depth placement regardless of the vertical movement of the press wheel. This is critical, given the terrain and conditions that the machine is working in. The press wheel is riding up and down constantly as it follows the contour of the ground, and during all of this the seed will be placed exactly where it supposed to be. The press wheel assembly has two seed boots. The first one has the ability to place seed at certain depths below the ground. The second boot allows seed to be placed on top of the ground (or below as well, if required), in front of the press wheel.
- Castoring press wheel frame assembly. The complete rear assembly (parallelogram, press wheel, drive train and seed drums) is attached to the main frame on a vertical pivot assembly. This allows the tynes and press wheel to move around obstacles as well as over them. This castoring ability takes a great deal of stress out of the machine. It also allows the press wheel to follow its own path when cornering, as opposed to dragging sideways which can occur with non-pivoting assemblies
- Wide wheels are used to give better flotation and reduce likelihood of bogging. One spare wheel is provided. Axles and hubs are heavy duty (B type bearings), and all axles are on demountable plates (including the spare) This means that if an axle or bearing breaks down in the field, the spare axle/hub assembly can be bolted into the main frame, and work can continue.
- Pivot points – All pivot points are designed to improve longevity. Shields are put in place where required to divert as much water and dust away from access into pivots. Where bushes are used, maximum surface area is designed into the pivot,



Robust agricultural innovations

and chrome hardened pins are used. Pivot points and arms etc are positioned to give maximum stability (e.g. wide surface area) and reduce wear

- WH&S. All pinch points are guarded, and one single access cover is used to provide weather protection for the seed drums as well as cover chains and sprockets etc. The frame is designed in such a way that there is no need for an operator to climb on to the machine at all (to fill seed drums, or for maintenance)
- LED lights used
- Self emptying seed drums. An internal spiral keeps seed moving towards the outlet hole. This also aids in keeping different products mixed together (i.e. if mixing seed with sand, it will keep the two mixed together rather than one settling on top of the other.
- Universal machine. The design of the frame as well as the tyne and press wheel, gives the operator various options for seeding, both in the short term as well as future additions that may be required
 - The tyne has provisions for a see boot, to allow seed to be placed directly behind the tyne if required, or place seed at the bottom of the furrow. The tyne shank is interchangeable to enable the machine to be adapted to various conditions. This also allows for spares to be carried if needed, as well as different knife point variations (e.g. width of point, angle etc.). Another option is to replace the tyne shank with a single or double disc opener.
 - Provisions for a scalping blade, or offset disc will be incorporated into the frame, so that this can be added at a later date if needed.

Upgrades and changes from the TS100 Seeder

- Single side arm arrangement, to mount press/drive wheel. This will enable simple changing of tyre if required.
- Lower drive gearbox will mount on top of the side arm mentioned above. This will position the gearbox approximately 200mm higher than at present, providing more ground/rock clearance. The side arm will also provide protection for the gearbox.
- Simplified depth adjustment (of tyne digging depth, and seed placement).
- The tyne and seed boot will be a lot more robust than at present. The same concept will be in place, just heavier duty. Tyne points will be interchangeable, and have the same bolting dimensions as present, which also caters for points manufactured by other companies.
- A larger toolbox/storage area will be incorporated into the design. This will provide more general storage area for tools, spare parts etc as well as housing the hydraulic pump unit.
- The press wheel scraper will be repositioned at a higher angle on the back of the wheel, to give more clearance over rocks etc.
- The 90 degree gearboxes will be lubricated with grease instead of oil.
- The aperture cover (slide cover) on the seed drums will be altered for easier adjustment
- Provisions made in the framework to add a scalping V blade, or scalping disc to work in conjunction with the existing seeding tynes.

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Moose Industries business capabilities are strong in primary industries, predominantly the cereal cropping broad acre agricultural sector. For 18 years Moose Industries has serviced this sector, working closely with producers to design and develop innovative new ways to improve agricultural practices and streamline efficiencies.

