



Flexiseeder is an ad hoc, highly skilled, experienced and dedicated industry research and training member help group formed during the late 1990s as a Nordic-New Zealand initiative¹. Using a modular approach, it specializes in innovative and functional seeding and threshing equipment research, development, prototyping, proof of concept, start-up and small-run commercial production and servicing in New Zealand, Denmark and globally.




Flexiseeder supports;

- Year-round seed and machinery chains between the Northern and Southern Hemispheres,
- Lateral outreach on the basis of overlapping agro-ecologies. For example, outreach with Nepal dates back more than 30 years.

The modular nature and open-source listing of Flexiseeder technologies makes them well suited to integrating across brands, including combined builds. Flexiseeder has a core philanthropic commitment to education, research, development and production, including disaster preparedness and mitigation. This includes a multi-million NZD portfolio of endowments, available free of cost to members, for leverage by honours', graduate and post graduate students to assist them to raise additional programme and project funding required for their further study through the Flexiseeder Industry Interface Support Initiative.

Flexiseeder Ltd and the Stevens Family Trust jointly is the major financing, risk-taking and co-ordination entity, for this group. Additional members who have contributed substantially within the Nordic group are SLU² including Lana Research Station, IAMFE³, NMBU⁴, NIBO⁵, SWseed⁶, SEGES⁷, Strøby Maskinværksted; and within New Zealand, LU SRC⁸ – SEMEC⁹, LU FSC¹⁰, Geoff Gray Ltd, Plant Research New Zealand Ltd, Customs Services Ltd, The Casting Shop Ltd, Collins Patterns Ltd, Bellamy and East Ltd, Custom Tooling Ltd, M^cClay Tooling Ltd, Steve Smith Patterns Ltd, Quartly Patterns Ltd, CMI Springs Ltd, Friel and Sons Engineering Ltd, John Brooks Ltd, Positive Electric 2010 Ltd, AMPP Industries Ltd, Qingdao Agricultural University, Simons Hill Station, Ovenden Seeds Ltd, South Pacific Seeds Ltd, Global Oats Ltd, Southern Seed Technology Ltd.

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Co-ordination & Engineering	Engineering	Co-ordination & Engineering	Engineering

¹ This cooperation originated in 1998 between the Unit of Applied Field Research (FFE) of the Swedish University of Agricultural Sciences (SLU, www.slu.se)² the Seed & Mechanization Development Trust (SEMEC)⁹ and Lincoln University Seed Technology Laboratory⁸, New Zealand. In 2000 this was extended to include the International Association on mechanization of field experiments (IAMFE, www.iamfe.org)³ including its members; hosted at the time by FFE. From this basis Flexiseeder grew as member-to-member seed and machinery chain support overlay to the long tradition Nordic countries have of nationally coordinating agriculture field experimentation, and growing seed in New Zealand out-of-season. Expanding it to systematically include new initiatives of mutual interest coordinated on the basis of agro-ecological overlap including lateral outreach, made possible by the rapid and affordable development of the internet. IAMFE was formed in 1964 in Norway by Prof Egil Oyjord supported for many years by Sweden through Mr. Bengt Hallerström and Mr. Torbjörn Leuchovius (see www.slu.se/faltforsk/flexihistory1), also key figures in the evolution of Flexiseeder.

⁴ Norwegian University of Life Sciences, formerly the Norwegian University of Agriculture.

⁵ Norwegian Institute of Bioeconomy Research, formerly Bioforsk.

⁶ SWSeed, today integrated as a part of Lantmännen Lantbruk.

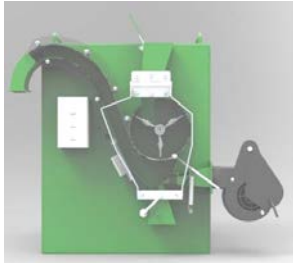
⁷ A merge of the former Danish Knowledge Centre and Pig Research Center.

⁸ Lincoln University Seed Research Centre, formerly Lincoln University Seed Technology Lab.

¹¹ Lincoln University Field Service Centre.



Laboratory and field single ear / small sample grain thresher



Key Features

High throughput, works with a large range of grain sizes. Small and compact with carry handles for easy transport for field and lab use

Opening front cover and side door (with safety switches), Plane threshing chamber trap door for improved and fast clean out, high-volume adjustable fan settings for ease of cleaning

Ridged outlet for secure attachment of porous bag or exhaust tube to take waste

Easily adjusted floating four stepped "A" section pulley system for adjusting threshing speed. Additional in-line cooling fan for electric motor

Range of loading shoot entry options, trapdoor setting lock for winnowing. Compressed air jets for assisted cleaning

Bench & pedestal mount options. Individual balancing of all rotating components –very quiet to use

Pack strap mounts plus one-bolt option for removing motor module to reduce carry weight for field use. Compatible with portable generator (240 V, 3.0 KW or more) and/or mains supply.

Cost: \$4,500 NZD

Technical Description

Description Flexiseeder Single Ear and Small Sample "Box" Laboratory and Field Thresher

Product Code (SST-box)

Dimensions Width 630 mm including removable cleaning fan (150mm). With fan removed: 480mm. Height 500 mm. Depth 500 mm.

Weight Total weight 38 Kg including removable drive module weighing 13 Kg. Three minutes to remove combined motor and main drive pulley module.

Drive Motor 230 V ac, 0.19 KW, single phase, 1300 RPM. Direct coupled in line to drive pulley through rubber buffered spider coupling.

Threshing Drum Diameter 140 mm. Depth 60 mm. Type: corrugated. Three steel beaters including simply replaced rubber belting pads on leading edges. Operating speed 425 to 1250 RPM divided into four equal steps. "A" section drive belt. Ten seconds required for speed change. Quick-opening clear frontal cover with automatic safety cut-out switch.

Cleaning Fan Motor: 240 V ac, 0.4 Amp, 2600 RPM. Fan: "box type" 90 x 60mm delivering 38 Litres per second. Continuous air flow adjustment via intake shroud.

In addition to automatic threshing drum cover safety switch, separate manual master, drum and fan switches.

Optional Extras Pedestal stand with or without wheels. Air jets. Main door safety cut-out switch. Cooling fan for drive motor and pulley (130mm diameter, 8 blades). Mobile generator, 240V 3.0 KW

"Simply the best single ear thresher I have used in 35 years as a Plant Breeder. It is quiet, fast and easy to use both indoors or in the field, and most importantly for us provides very clean and undamaged grain" (Plant Research (NZ) Ltd Plant Breeder Adrian Russell).

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