Simtech T-Sem

any seed

any surface

Simtech T-Sem

Simple yet versatile

The simplest and most versatile drill on the market at an affordable price.

Based on the renowned New Zealand pasture slot-seeder, here is a European drill built with the varied demands of the modern farmer in mind. You can sow any seed into any surface - clovers, grasses, brassicas, cereals, pulses, maize and all mixtures into grassland, stubbles, ploughed and/or cultivated land and direct into standing cover crops.

A row of straight discs open the slot in advance of three rows of spring-tine mounted T-Sem coulters. These prepare an upside-down T-slot, a perfect seedbed for both germination and root establishment. Behind the tines is a Springflex roller which passes between the rows and a harrow which crumbles and levels without over-firming the slot itself.

With models ranging from a basic 3m with a 100hp power requirement to the 8m trailed version, there is a T-Sem for everyone. As you would expect we have a great deal of experience in helping our customers choose the right drill for their own individual needs, as well as continual support once you have made your purchase, enabling you to get the most out of your drill and your farm.

The T-slot principle

The principle of the inverted T-slot is simple and effective, giving unmatched results in all situations - any surface, every soil type and all climatic conditions.

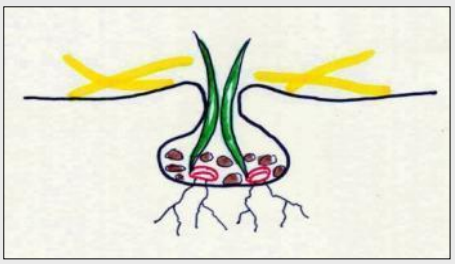
A set of discs at the front of the drill pre-slices an opening in which the T-Sem boot then passes to create the ideal seed-bed in bands.

The shoe sheds the vegetation and prunes the roots of the existing vegetation. The seed is placed on the firm base of the T-slot so that it is in good contact with the moisture rising by capillary action.

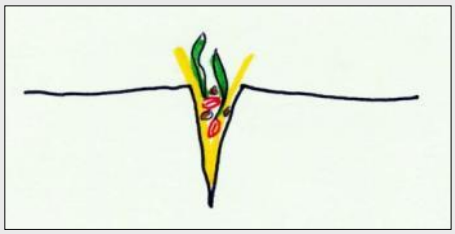
The horizontal slicing action of the wings of the shoe means that each side of the slot falls back after the tine has passed, but the chamber remains slightly open. The micro-environment thus created allows the light and moisture to enter but retains the warmth. The consistent placement of the seed in this mini-greenhouse gives optimum conditions for an even germination, and the tilth within permits rapid root development of the young seedlings.

This explains why the plant establishment is so positive, even in an often hostile environment in the presence of living vegetation, as in a pasture rejuvenation, dying vegetation or in an arable direct-drilling context.

In min-till or conventional sowing, the T-Sem system still has a big advantage over other methods. With its narrow leading edge, the shoe doesn't shed much tilth from the slot, unlike most blunter coulter tips, and the fact that the wings create a void beneath the surface means that there is a superior soil cover over the seed. A front mounted roller option *(standard on the trailed models)* also increases the T-Sem's effectiveness in these situations.



Excellent germination + better root development = exceptional plant establishment



The slot made by a disc is not an ideal environment for either the germination or the root development of tender young seedlings.

Sponge feed metering system

All box hopper drills are equipped with a unique sponge-feed system to distribute the seed. This is extremely accurate, is kind to the seed and is unbelievably versatile.

A sponge disc feeds the seed down a tapered groove and meters it into a funnel and then a flexible hose, through which the seed falls by gravity to the base of the inverted T-slot.

This simple system allows very low seed rates of small seeds, such as white clover at 2kgs/ hectare, to over 400kgs/hectare of field beans. Very complex mixtures of large and small seeds of differing shapes can also be sown together. The design of the seed hopper means that such mixtures retain their integrity until the seedbox is empty, and the fact that the T-slot remains open allows seed of varying sizes to successfully germinate and flourish when sown at a common depth.

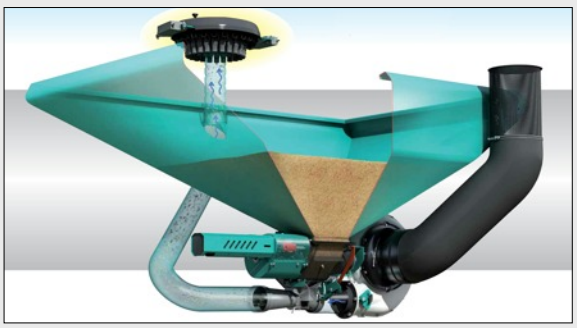
ADS pneumatic metering

All Simtech T-Sem pneumatic models use the ADS seed metering and transmission system from Sulky, which is simple and precise. Features include:

- Single roller universal metering gives unmatched seeding accuracy from 1kg to 450kgs/hectare, at 8 kph.
- Large diameter fan and air filter create a strong and consistent airflow.
- Quick and simple calibration.
- Easy hopper filling and emptying.

Key to the performance and reputation of the ADS technology is the refined design of the seed transmission system. It ensures a consistent air/seed mix in a 'no-bounce' stream, even distribution amongst all outlets, and a blockage-free flow to the coulters, even on slopes. The distribution 'mushroom' contains individual outlets, which allows multiple options for opening and closing rows – for tramlining, different wheelbases, sowing rowcrops, half-drill shut-off, etc.

The Ultron (mechanical-driven metering) or Pilot (electrical-driven metering) in-cab monitor ensure precise user-friendly control of all drill functions.



ADS seed metering and delivery. Hopper capacities range from 1000 litres to 3000 litres depending on the model.

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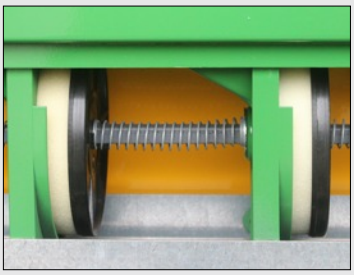
Specifications	300 / 300 A	300 P / 300 AP	350 / 400AP	480 AP	600 AP	600 APT	800 APT
Working width	3.0 m	3.0 m	3.43 / 4.0 m	4.8 m	6.0 m	6.0 m	8.0 m
Transport width	3.0 m	3.0 m	3.5 / 4.0 m	3.0 m	3.0 m	3.0 m	3.0 m
Number of rows	20 / 16	20 / 16	18 / 22	26	32	32	40
Row spacing	15.0 /18.8 cm	15.0 /18.8 cm	19 / 18.2 cm	18.5 cm	18.8 cm	18.8 cm	20 cm
Distribution	Mechanical	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic
Hopper Capacity	750 l (+300 l)	1000 l	1000 l	1700 l	1700 l	3000 l	4000 l
Weight	1750 / 1650 kg	1850 / 1750 kg	1900 /2150 kg	3250 kg	3550 kg	6000 kg	6500 kg
Number of hydraulic services required	1 DE for bout marker option	1 SE + return 1 DE	1 SE + return 1 DE	1 SE + return 2 DE	1 SE + return 2 DE	1 SE + return 3 / 4 DE	1 SE + return 3 / 4 DE
Minimum power	100 / 90 hp	110 / 90 hp	110 / 130 hp	150 hp	170 hp	170 hp	230 hp



Simtech Aitchison

Stud Farm, Stratford St Andrew, Suffolk IP17 1LW

Office 01728 602178 George 07889 378302 Simon 07711 409740

www.simtech-aitchison.co.uk