

# AITCHISON FORAGE “NO-TILL” DRILLS

## SIMPLE– EFFICIENT– LOW COST– RUGGED - HIGH ACCURACY

-AITCHISON No-Till Drills have 5”-6” row spacing and a unique winged boot, called an “Aitchison T boot”, that creates an in-verted T-shaped slot in the soil where the seed is placed. This feature allows many benefits like reducing seeding rates by 25%+ and reduced competition in seeding slot for increased plant vigor. Soil humidity is trapped in the slot making available, vapor-phase water, as well as liquid-phase water. This microclimate retains 8 times more moisture and 3 times more oxygen in the seed zone than other openers.

-AITCHISON Drills allow the producer to run in the field much faster (6-8 mph) than traditional drills and cover 6-9 ac./ hr. with a 9’ drill. Also, because of the unique boot the drill can run in the field effectively 1-2 days sooner after a rain that would stop a double-disc drill. Soil is aerated in the area of seed placement because of vibrating Aitchison T boots in front of the seed tubes that place seed in a more perfect environment.

-No moving parts that achieve seed placement except 14” front coulters, if used. The AITCHISON drill is incredibly simple, with the coulters and boot being the only “real” wear part in ground contact. The coulters are only necessary to cut and resize residue. The boot is a Ni-hard casting faced with Tungsten to create a shoe that has a very tough wear area.

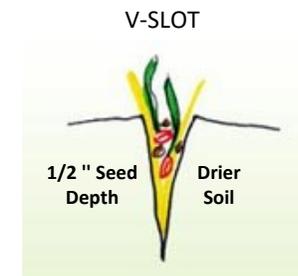
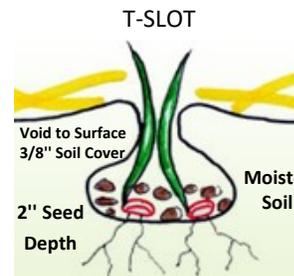
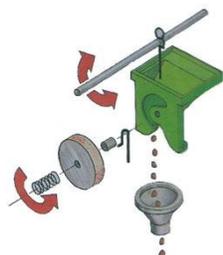
Drill Model Width & Rows	GF 3014, 6” Rows 7’ W, 14 Rows	GF 3018, 6” Rows 9’ W, 18 Rows	SM 4020, 5” Rows 8.5’ W, 20 Rows	SM 4024, 5” Rows 10’ W, 24 Rows	SM 4028, 5” Rows 12’ W, 28 Rows
HP Required	42-70 HP	54-90 HP	60-100 HP	72-120 HP	84-140 HP
Cost w/o Coulters	\$12,250	\$15,500	\$19,000	\$20,500	\$22,550
Cost w/ 14” Coulters	\$15,750	\$19,800	\$23,000	\$25,800	\$28,000
Cost/Row Spacing	\$1,125	\$1,100	\$1,150	\$1,075	\$1,000
Pull Kit (Option)	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
Fertilizer (Option)	N/A	N/A	\$3,000	\$3,500	\$4,200



Unique Aitchison Slim line castings and inverted T-Boot

Vibrating 1” tine attached to inverted T-boot creates a clean, smear-free, cocoon shaped mini-greenhouse seedbed. Competing plants are stunted by undercutting their roots while the inverted T-slot places seeds on a shelf of firm, compressed soil “wicking” moisture upward. Tilthy loose soil deposited over the seed, enhances rapid development of the young seedlings, and increases availability of soil nutrients.

The AITCHISON drill uses a unique sponge-feed system to distribute the seed. The system is extremely accurate and gentle on the seed, and allows multiple seeds of different sizes to be uniformly sown through one seed hopper (no seed separation). The sponge disc feeds seed down a tapered groove and meters it into the seed tube that places the seed at the base of the inverted T-Slot.



● The AITCHISON T-Slot chamber allows light and moisture to penetrate, but retains warmth. The wings of the boot clip the roots of competing plants to allow exceptional plant establishment. Seed is placed on the firm base of the T-Slot, so it is in good contact with the moisture rising by capillary action. Seed is covered with approx. 3/8 inch of loose soil with void to surface. No exposed seed left on soil surface.

● The traditional double disc V-Slot creates an area where the seed is placed in a sidewall compacted, low tilth area. Dying trash that the discs cut is placed with the seed causing toxicity, inhibiting germination and vigor.



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## CAN YOUR NO-TILL FORAGE DRILL???

- Allow you to reduce seeding rates 25+%. Every seed put through the foam metering unit is undamaged. Every seed is put in an inverted “T” slot, a more perfect environment than traditional disc openers. Eliminates residue hair-pinning in seed slot.
- When sowing Cool Season Grass Mixtures in Spring and Fall or Warm Season Annuals in summer, you must reduce the competition in the seeding zone; to get a more successful seeding.
- Unique shape of Aitchison seed boot undercuts competing plants resulting in increased plant vigor and seed survivability. Covers all seeds and promotes rapid root establishment. NO sidewall smearing in clay-type soil or wet conditions. Does not sow small seeds too deep!
- Micro tillage oxidizes the soil; releasing plant nutrients directly to the rooting zone. Aeration of soil results in increased infiltration of rainfall. Helps eliminate impact of a sod-bound condition.
- T-shaped slot is more tolerant of dry and wet soil conditions than nearly all other opener designs. Research shows increased germination of 53% in dry conditions and 47% in wet conditions. Promotes and increases biology in soil.
- Maintain seed depth. It is impossible for drills that have their depth/press wheels 1 ½ feet behind the seed delivery to maintain a consistent depth. Possibly over 50% of the small seeds will be buried too deep or on top of the ground. Double Disc Drills are speed sensitive when sowing at shallow depths.
- Allow seeding at faster speed and not effect seed depth. Aitchison Drill is not speed sensitive.
- Allow you to evenly sow multiple seeds of different sizes thru one seed hopper (research shows sowing 3-5 species of crops is important to increase plant diversity for greater soil health). NO seed separation of lightweight vs. heavier, denser seeds with unique Aitchison sponge feed system.
- Over 40 years experience with the tine and T-boot technology. One lever sets seeding rate. Simple and easy to use. 3-5 H.P per row of drill. Reduced wear of soil engaging parts. Low maintenance is less than 30 cents per acre in most soils. Allows user to cost share ownership of drill with neighbors. For stony conditions, a rugged 14” concave disc opener drill is offered.
- As narrow as 5”-6” row spacing. Price per row is substantially less. Approximately \$1,150 per row.
- With use of diverse mixtures, drill can be used 2-3 seasons of every year. Increase the value of your time, seed, and crop rotation by using an Aitchison. If you plan for forage, you need forage.
- What you don’t like about your drill, Aitchison can solve. **Eliminate seeding failures!**

**“WELL SOWN = HALF GROWN”**

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