

Report on observed wear and maintenance for Technotill 2.0 (2020-2021)

Our Partner Prototype Drill manufacturer has been running Technotill 2.0 on two different drills. They recently provided us with information regarding the wear and maintenance observed with the system.

System 1 is an 80ft seeder at 10" spacing used for 2 seasons and 23,000 acres.

System 2 is a 60ft seeder at 10" spacing that was used for one season, seeding 4300 acres.

"Regarding wear and tear in the packing system, there is not much to report"

"The pivot points on both tools seem to be tight, very minimal movement on random tools on the 80ft seeder." *(The bolt where the Packer Shoe is connected to the Packer Top)*

"The springs all seem to have kept their tension, (but) I have not had the chance to compare some samples to the springs you sent me."

"The (shank) mount bolts were 'double nutted' on the 60ft and I believe we had none come loose. The 80ft was not 'double nutted' and some came loose on it."

"I do not think we have replaced a single packer plate on the 60ft, there may have been a few on the 80ft due to over tightening the mount bolt (to the Packer Shoe)"

"I think a big point to be aware of is both tools have been used in organic settings and therefore seeding is into broken land (typically broken twice by a chisel plow)."

Technotill 2.0 on Partner Prototype Drill			
<u>Drill</u>	<u>Acres Seeded</u>	<u>Cost of Maintenance</u>	<u>Cost of Repairs</u>
80 ft. @ 10" spacing	2020: 15,000	NONE	NONE
	2021: 8,000		
	Total: 23,000		
60 ft. @ 10" spacing	2021: 4300	NONE	NONE



The Technotill Partner Prototype Drill

Heavy construction requiring minimal maintenance & repair.



System 1: 80ft Seeder

10" spacing, 7 section tool, 2 seasons, 23,000 acres to date. Majority of acres in worked ground on organic farm. Wide variety of crops seeded (side band seeding tested on this tool).



System 2: 60ft Seeder

10" spacing, 5 section tool, 1 season, 4,300 acres to date. Majority of acres in worked ground on organic farm. Tested both in Southern SK and Montana.