SEED TERMINATOR

HARVEST WEED SEED CONTROL; SIMPLIFIED

OUR PHILOSOPHY

"is to make the biggest possible difference to world food production. This means getting the best technology possible, to as many farmers as possible, as quickly as possible and as economically as possible. The only way to do this is to have a colourblind approach fitting to any harvester; have a low power draw to fit to class 7-10 harvesters and have a low capital cost"

WHAT IS THE SEED TERMINATOR?

Seed Terminator is a completely fresh look at mechanical devitalisation of weed seeds at harvest. It provides a simple one pass solution to harvest weed seed control. Weed and volunteer seeds present in the chaff material leaving the cleaning shoe are intercepted and pulverised. The processed material is spread back onto the paddock to return nutrients and soil protective mulch.

MULTI STAGE HAMMER MILL — 96% kill rate

- The Multistage Hammer Mill (MHM) uses a combination of shear, crush, attrition and high impact to kill weed seeds
- It uses three stages of screens to classify material for size. The chaff material and weed seeds must be smashed small enough to fit through each stage of screens.
- The process uses large openings which progressively get smaller. Multiple stages enable high capacity while maintaining pulverisation to consistent level at a range of rotational speeds
- The MHM is made from heavy duty, high grade case hardened steel, using CNC precision machining.
- CNC precision machining is also harnessed to make robust flame hardened central replaceable flail hammers
- Dual speeds 2750 and 2950 RPM
- Adjustable pulverisation Bisalloy screens with Seed Terminator developed Advanced Surface Engineering Tungsten Carbide Shield. Created for the toughest environments.

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AERO-IMPACT 2.0 — 31% Reduction in Power

We created Aero-IMPACT 2.0 with 31% less power by using improved CNC machining for reduced turbulence. We know harvester capacity is key. It efficiently creates high air flow for maximum capture of weed seeds, minimum disruption of the harvester sieve & minimises infeed blockages. Uniquely able to maintain high air flow under highly loaded conditions even at reduced rpm.

MECHANICAL DRIVE SYSTEM

We designed a mill that doesn't rely on impact alone; it uses grinding, shear & crushing to kill the weed seeds. The classification process means that material still has to be terminated to pass through the screens so it can handle drops in engine RPM without effecting capacity or kill. We are able to harness the efficiency + simplicity of the mechanical drive without being tethered by fluctuations in engine rpm

- Driven off the harvester's engine with minimal moving parts, incorporating only shafts, belts and gearboxes
- To maintain lower power draw and fit to class 7-9 harvesters
- Precision machined custom bearing spindles
- Custom, German made spiral bevel gearbox

SMOOTH-FEED — Including New Blockage Sensor

'Smooth-FEED' trademark technology that prevents material from feed-in blockages while maximising capture of weed seeds

KILL FOR YOUR KILOWATT — 96% kill rate

The 2018 samples analysed by the Weed Science Research Group, a part of the University of Adelaide showed that the Seed Terminator could consistently reduce germination (i.e. seed kill) compared to a control sample by 96% when operated at 2,750rpm. Chasing 100% kill is theoretically achievable but it takes an exorbitant amount of power; We abide by the law of diminishing returns and optimise kill for your kilowatt.

PRICE? $115-119K

The Seed Terminator is a synergy of characteristics of the multi-stage hammermill and mechanical drive system that create a simple efficient solution.

REGISTER YOUR INTEREST AT

www.seedterminator.com.au/register-your-interest

SMOOTH FEED ™

AERO IMPACT 2.0 ™
31% Less Power

WHY HARVEST WEED SEED CONTROL?

Herbicide resistance has global significance with 254 weed species identified as resistant to 163 herbicides in 92 crops in 70 countries (Heap, I. www.weedscience.org). **EVERY farmer has weed seeds at harvest, why spread them when you can Terminate them?**