

KEENAN® OrbitalSpreader

Versatility - High Work Rate -
Trouble-Free Operation



The KEENAN® OrbitalSpreader is a heavy-duty versatile spreader. It is capable of very high work rates, trouble free operation with a wide range of farm and commercial wastes, and delivers a remarkably uniform spreading pattern.

SIMPLE DESIGN AND OPERATION

The basic design of the Orbital is as simple as it is innovative; consisting of a semi-cylindrical tank, rear pushing door and large flywheel at the front.

A heavy-duty hydraulic ram attached to the sliding rear door pushes the material from the back of the machine towards the rapidly spinning flywheel. Forward speed of the rear door is adjusted by a hydraulic valve, thus allowing application rates to be easily altered. Once set at the desired level, material is fed at a constant rate to the flywheel, ensuring a smooth, consistent spread of material.

The flywheel consists of a solid steel disk with 6 paddles, 1.8m in diameter, rotating at 170rpm and a central counter-rotating spinner. The action of the flywheel first shreds the material before propelling it through the side opening, where further pulverisation is provided by adjusting the breaker tines at the exit.

Unloading takes no longer than 1.5 to 5 minutes (depending on material) with the tank being left completely clean and ready for the next load. During loading and transporting, a slurry door separates the main chamber from the flywheel so that liquids can be easily handled and starting torque is kept low.

Power to the machine is applied through a heavy-duty T80 PTO shaft, featuring shearbolt and over-run protection.

LOW POWER REQUIREMENT

For a machine with such high work rates and large capacity, the power requirement is relatively low at 120hp. Liquid materials require slightly less power.

VERSATILITY - HIGH WORK RATE - TROUBLE-FREE OPERATION

FLEXIBILITY TO SPREAD ALL TYPES OF WASTE

The Orbital accurately spreads a wide range of materials including; strawy muck, industrial sludge and poultry manure. The sealed nature of the body ensures that sloppy material is transported and spread without leakage.

Long strawy or fibrous material such as fresh yard muck is easily handled by the Orbital. Centrally mounted on the flywheel is a spinner that is driven in the opposite direction. This shreds material before the flywheel propels it outwards. For very high dry matter material extra bolt on knives can be added.

RELIABILITY AND EASE OF MAINTENANCE BUILT-IN

With only four main moving parts and legendary KEENAN build quality, there is little to go wrong with the Orbital. The heavy-duty single drive chain is easily accessible from the front of the machine and is not in contact with the material being spread. All bearings are situated outside the chamber to prevent damage by twine, muck etc.

The hardened wear plates on the flywheel paddles are easily reversed or replaced. The heavy-duty rubber seals on the slurry door are maintenance free and the seals on the pushing door can be easily adjusted or replaced when necessary.

MULTIPURPOSE MACHINE - NO NEED FOR OPTIONAL EXTRAS

The Orbital features an impressive list of standard features including slurry door, hydraulic brakes and lights, low ground pressure tyres and an electronic boost for faster compaction of the load. Giving the Orbital the versatility to spread most types of material without the need for costly extras.





SPECIFICATIONS

Overall length	6.87m
Overall height	3.63m
Overall width	2.56m
Loading height	2.22m
Unladen weight	4790kg
Tyres	Alliance 550/60 R 22.5, 16 ply
PTO requirements	1000 rpm
Power requirements	120HP minimum
Hydraulic requirements	Working Pressure of 2500psi

FEATURES

- **Upgraded rear pushing door** - adjustment of pivot points and introduction of second hydraulic ram increases pushing power as spreading commences
- **Slurry door design** - simple and fast operation with this maintenance free door that pivots upwards, using two hydraulic rams, allowing material to pass underneath
- **Wear plates** - flywheel features bolt on hardened wear plates and hammer tips that are easily reversed or replaced
- **Revised spinner design** - incorporating upgraded bearings and seals, this flush fitting disk with 3 paddles has been designed not to collect twines or plastic when spreading material
- **Greater spreading control** - hydraulic flow valve provides even finer spreading control, with 40 incremental settings
- **Simplified hydraulic control** - using sequence valve and manifold block to operate the side door, slurry door and rear pushing door, only 1 spool valve and 2 couplings are required on the tractor
- **Road speed** - heavy-duty axle, increased braking efficiency and tyre specification allows the Orbital to travel at 25km/h on the road
- **Drive chain oil bath** - gives increased chain life and eliminates routine maintenance of the drive system

MASSIVE OUTPUT

Large capacity, wide spread width and variable emptying time from 1.5 to 5 minutes

SPREADS ALL TYPES OF WASTE

Strawy muck, industrial sludge, poultry manure

PRECISION SPREADING

Even distribution of spread over entire 20m spread width

ACCURATE CONTROL

Variable speed of rear door gives full control and consistent application rates

EXCELLENT WEIGHT TRANSFER

Weight transfer of material from back axle to drawbar minimises soil compaction and maximised traction

SIMPLE RELIABLE DESIGN

4 moving parts, no chains, belts, or beaters in contact with material minimises down time and maintenance

HIGH SPECIFICATION

Multipurpose spreading without need for costly extras

