

KINZE

TILLAGE

MACH TILL™



WHAT IS MACH TILL?

HYBRID HORIZONTAL TILLAGE TOOL

The NEW Kinze Mach Till is an ultra-versatile, hybrid horizontal tillage tool that combines the benefits of vertical tillage, conventional tillage and soil finishing tools into one machine. Running at speeds of 8 to 12 mph, Mach Till uses two rows of concave discs and an exclusive OTICO® furrow roller to fracture, lift, mix, break up, level, and firm the soil.

Because it combines the benefits of many implements into one tool, it can deliver high-speed along with good soil finish and uniform residue management in clay, sand, loam, wet and dry soils. Mach Till not only replaces many machines, but can be used in the fall to shred residue and again in the spring to prepare the seedbed for planting.



HOW DOES MACH TILL WORK?

CREATES A BETTER SOIL ENVIRONMENT FOR THE NEXT CROP

Kinze Mach Till cuts and throws the soil at an angle to avoid creating a smear or compaction layer in the soil, then mixes the soil and residue together. The corrugated rubber roller sheds soil, breaks up large clods, and brings fine earth into contact with residue to optimize decomposition. The result is a soil where 60 percent* of the residue is mixed in and 40 percent* remains on top as mulch to protect your asset. Mach Till creates an ideal environment for crops to thrive by improving water, nutrient and gas exchange.

* Results achieved at 3" of depth. Actual residue percentage results will vary based on depth.



THE MACH TILL ADVANTAGE

OUTPERFORMS OTHER HIGH-SPEED DISCS

The whole system design of the Kinze Mach Till enables it to outperform the competition. From the hitch to the rear scraper arms, every component working together for a superior soil structure and finish. Built with high-quality and maintenance-free components to cover more acres, saving valuable time and increasing productivity.



Essential Weight for Consistent Depth

The heavy-built frame maintains a consistent working depth in extreme soil and residue conditions while working at speeds over 10 mph. Other machines require additional weight stacks or complicated hydraulic systems, but Mach Till carries the necessary weight in the frame.



Ground Contact & Flex

The floating, self-contouring design allows Mach Till to easily follow curves in any field. Disc arms have the proper torsion and tension to keep them in contact with the soil and to follow the contour of the ground.



Independent Disc Technology

Each disc is mounted on an independent, disc arm that provides 11.5" of clearance to clear rocks and follow rough terrain. The disc arms are pre-loaded with four rubber spring elements that allow the disc to skate over rocks or other obstacles while following the contours of the land.



High Flotation Design

The weight of the heavy frame is distributed over 2 to 4 high-flotation tires. A full-width rubber furrow roller provides optimum, non-compacting performance in various soil conditions. The shape of the contact area is specially designed to minimize impact on soil structure.



Superior Residue Flow

The 20" concave smooth and double-V discs are shallow-faced and provide an aggressive cutting edge to till and invert the soil while eliminating compaction layers. The 10" of space between discs enhances residue flow and eliminates plugging – even in wet soil conditions.



Easy, Low Maintenance Operation

Maintenance-free, double-sealed bearings, carbide roller scrapers, composite bushings, and over-sized pins throughout provide many acres of operation.

FEATURES

STANDARD FEATURES

Independent Disc Arm

Each individual disc arm is preloaded with four natural rubber spring elements that allow the disc to skate over severe stones and follow ground contour, providing 11.5" clearance

Easy Hydraulic Hookup

Textured grip, color-coded couplers and latching hose rack make hooking up hydraulic hoses clean and easy

Heavy Built Frame

No need to add extra weights; the heavy-built frame can handle the most extreme soil and trash conditions without creating compaction

Tungsten Carbide Scrapers

Quick adjust, quick clean and quick removal; 10 times longer wear of standard scrapers

OTICO® Furrow Roller

An all-around finisher with a unique corrugated ridge profile leaving a field finish designed to manage moisture and prevent soil erosion

Smooth Discs

The 20" smooth disc does an excellent job of tilling and inverting the soil

Double-V Discs

The 20" double-V disc provides a very aggressive cutting edge for high power cutting

Mechanical Depth Control

Mechanical plates swing in or out to adjust the front and rear cutting depth in 1/2" intervals

Large Flotation Tire

High flotation radial tires provide an extremely wide footprint area for optimum performance in wet soil conditions without compaction

Robust Hydraulic Jack

The self-leveling jack has a large range of motion easily controlled by one operator from any vehicle height; balances perfectly in all soil conditions



201 / 261

331 / 401



SPECIFICATIONS & DIMENSIONS

Weight	201	261
Estimated	19,500 lbs.	23,000 lbs.
Dimensions		
Width	20'	26'
Transport Width	13' 10"	13' 10"
Transport Height	12' 10"	13' 1"
Discs		
Number of Discs	46	62
Disc Diameter	20"	20"
Disc Arm Mounting	Rubber Torsion - 4 elements per arm	
Disc Arm Angle	17° rear, 14° front	
Disc Spacing	5" spacing (10" per row)	
Frame Flex		
Wing	6° up, 6° down	6° up, 6° down
Front to Back	8° up, 8° down	8° up, 8° down
Tires		
Tires	600/50R22.5 High Flotation	600/50R22.5 High Flotation
Requirements		
Engine HP	10 to 15 HP per foot ¹	10 to 15 HP per foot ¹
Hydraulics	18 to 20 gpm ²	18 to 20 gpm ²

SPECIFICATIONS & DIMENSIONS

Weight	331	401
Estimated	31,000 lbs.	34,000 lbs.
Dimensions		
Width	33'	40'
Transport Width	20'	20'
Transport Height	12' 6"	13'
Discs		
Number of Discs	Center - 32; Wings - 23	Center - 32; Wings - 31
Disc Diameter	20"	20"
Disc Arm Mounting	Rubber Torsion - 4 elements per arm	
Disc Arm Angle	17° rear, 14° front	
Disc Spacing	5" spacing (10" per row)	
Frame Flex		
Wing	6° up, 6° down	6° up, 6° down
Front to Back	8° up, 8° down	8° up, 8° down
Tires		
Tires	600/50R22.5 High Flotation	600/50R22.5 High Flotation
Requirements		
Engine HP	10 to 15 HP per foot ¹	10 to 15 HP per foot ¹
Hydraulics	18 to 20 gpm ²	18 to 20 gpm ²

¹At 3" working depth to achieve 8 to 12 mph. Requirements may vary due to terrain and field conditions.

²At 2,500 psi.



KINZE MANUFACTURING, INC.

PLANTING, HARVESTING AND TILLAGE SOLUTIONS BY FARMERS FOR FARMERS

From a shop in Ladora, Iowa, to today's sophisticated 160-acre campus and office complex with manufacturing and logistical support — Kinze has focused on one primary goal: designing and building solutions for farmers. That means listening to people who actually own and operate the equipment. Not only our loyal, hard-working customers, but also many of our dedicated employees and the owners of Kinze Manufacturing.

DRIVEN BY CORE VALUES

Integrity | Customer Focus | Excellence | Innovation | Mutual Respect



PATENTED

United States Patent:
US D706,835 S

Canadian Industrial Design:
Registration 153588

Other Patents Pending

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