KINZE®

MACH TILL

ONE TOOL
FOR TWO SEASONS

One tool for spring and fall tillage that quickly covers more acres, without creating compaction.

Mach Till is a versatile, heavy built, low maintenance machine that prepares seed beds in the spring or incorporates residue in the fall. It operates at high speeds without creating compaction layers and produces an eye appealing finish. Agronomic benefits include nutrient cycling and improved soil density for water infiltration and reduced erosion.

- Cover 30-60 acres per hour, depending on unit size, for improved productivity as compared to typical tillage practices; up to 40% more acres per hour with Mach Till
- Two rows of independently torsioned concave discs and a corrugated rubber furrow roller work to fracture, lift, mix, break up, level and firm the soil for spring seed bed preparation or fall residue management
- Model dependent, the OTICO corrugated rubber rollers are either a narrow- or wide-spaced design. The new LSTXE (wide-spaced) roller has a low-friction ring between each rubber section for easier cleaning, improved trash flow, and requires fewer scrapers.
- The speed and angle of the blades fracture, lift and transfer soil without creating a smear layer for improved plant health and vigor
- Frame weight ensures disc blades remain at a consistent working depth for optimal performance and long term product durability at high speeds
- Oversized sealed bearings, greaseless bushings, nickel plated pins and other quality components ensure low maintenance and long wear life
- Narrow machine width enables safe and easy transport from field to field

FEATURES

INDEPENDENT DISC TECHNOLOGY

Mounted on independent disc arms pre-loaded within four rubber spring elements, each disc can move up to 11.5" to clear obstacles and follow rough terrain. Optional heavy-duty disc arms are available on models 201 and 261, with larger gang tubes, torsion bushings, clamps and arms. Both 20" and 22" diameter disc blades are available on all models.

SUPERIOR RESIDUE FLOW

Both the 20" and 22" concave smooth and double-V discs are shallow-faced and provide an aggressive cutting edge. They till and invert the soil while eliminating compaction layers. The 10" spacing between each disc, and the LSTXE wide-spaced corrugated finish rollers (model dependent), enhance residue flow and eliminate plugging.

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. All contact areas are specially designed to minimize impact on soil structure.

EASY, LOW MAINTENANCE OPERATION

Maintenance-free double-sealed bearings, LSTX carbide scrapers or LSTXE 2-sided scrapers, composite bushings, and over-sized pins throughout provide many acres of low maintenance operation.

GROUND CONTACT AND FLEX

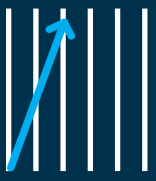
The floating, self-contouring design allows Mach Till to easily follow curves in any field. Disc arms have the proper torsion and tension to maintain contact with the soil and follow the ground contour.

4 Key Operation Practices

Well engineered and highly productive farm equipment requires you to set up and operate it correctly for optimum performance. On a Mach Till high-speed disk, there are four key operation practices that will maximize its productivity.

Operating Speed

A speed of 10–11 mph is optimum for the processing and flow of residue

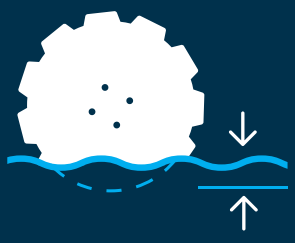


Working Angle

The ideal angle in corn stalks is 20° for optimum residue flow and removing the root ball

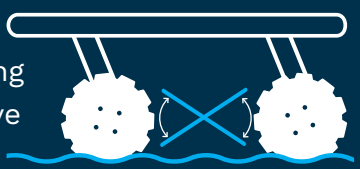
Operating Depth

In corn, 3–4 inches at 10–11 mph, and in beans, 2 inches at 11–12 mph

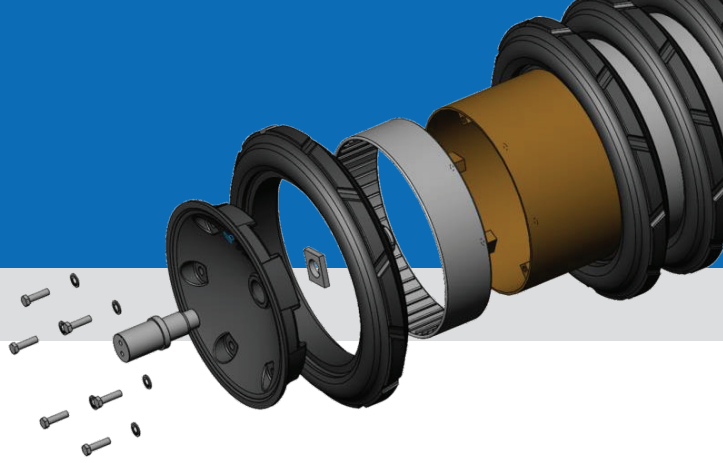


Machine Pitch

Make sure that neither gang of discs is too deep relative to the other gang



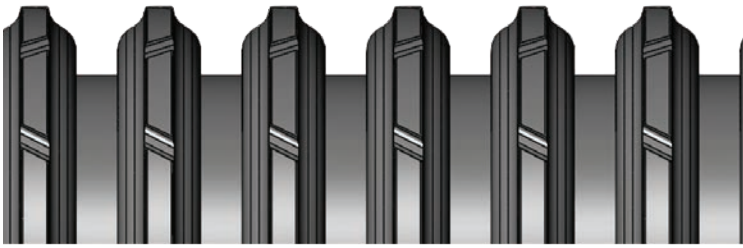
OTICO ROLLERS



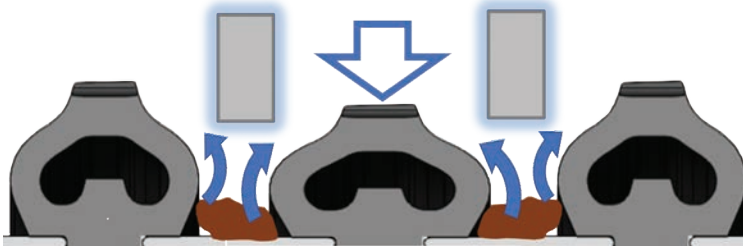
LSTXE 600 RUBBER ROLLER

- The LSTXE 600 provides a deeper and more defined field finish while providing the same agronomic benefits of the LSTX 590 roller
- Patented LSTXE 600 roller design is truly self-cleaning and is exclusive to Kinze Mach Till
- Mud buildup is reduced by the non-stick high-density polyethylene (HDPE) surfaces between each 25.6 inch (600mm) diameter rubber ring
- As the LSTXE rubber rings deflect and bulge, mud moves to the non-stick HDPE covered groove and falls to the ground
- With mud not sticking between the rubber rings, the scrapers are used to eject clods and rocks in extreme conditions
- Reduced buildup in front of the roller from the deeper and wider grooves of the LSTXE roller enable 25% more soil to pass through
- Reduced friction, less horsepower requirements, and lower fuel consumption due to 18% less scraper arms and reduced soil removal
- Less roller bulldozing from deeper and more defined traction grooves that ensure rotation in soft sand and muddy conditions
- Equipped with 2-sided scrapers
- Mach Till models 302 & 362 are equipped with the LSTXE 600 roller

LSTXE 600 Roller



LSTXE SCRAPER PLATES eject mud clods & rocks in extreme conditions



LSTX 590 RUBBER ROLLERS

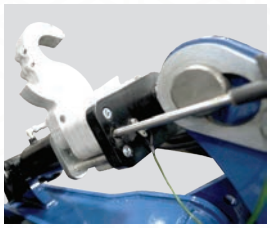
- The proven LSTX 590 provides a great field finish and agronomic benefits
- Equipped with carbide scrapers
- Mach Till models 201, 261, & 412 are equipped with the LSTX 590 rollers

LSTX 590 Roller

OTICO® furrow roller
A unique corrugated ridge profile leaves a field finish that manages moisture and prevents erosion (wider spaced LSTXE rollers shown below)

Roller scrapers
Quick to adjust, clean, and remove; wider spaced LSTXE rollers are equipped with 2-sided scrapers

Independent disc arms
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



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

Smooth discs
The 20" and 22" smooth discs do an excellent job of tilling and inverting the soil

Dirt deflector
Six-way adjustment ensures even leveling between machine passes

Double-V discs
The 20" and 22" double-V discs have aggressive cutting edges for high-power cutting

Heavy-duty disc arms
Heavy-duty disc arms on models 201 and 261

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

Weight distribution
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 supplies the necessary weight in the frame.

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

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

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

Articulating hitch
Heavy-duty; eliminates backlash for precise control; increases drawbar and hitch pin life

Model	201	261	302	362	412
Specifications & Dimensions					
Width	**20'**	**26'**	**30'**	**36'**	**41'**
Transport width at tires	13'-10"	13'-10"	11'-4"	11'-4"	13'-6"
Transport width (high position)	---	---	13'-2"	13'-2"	16'-0"
Transport width (low position)	---	---	14'-8"	14'-8"	17'-8"
Length					
Transport length	---	---	23'-4"	26'-4"	27'-6"
Field length	---	---	28'-8"	31'-8"	33'-0"
Height					
Transport height	12'-10"	13'-1"	---	---	---
Transport height (low c/w rubber roller)	---	---	13'-0"	13'-5"	13'-6"
Transport height (high c/w rubber roller)	---	---	13'-4"	13'-8"	14'-0"
Weight					
Weight (c/w rubber roller, scraper & 20" discs)	20,080 lbs	23,480 lbs	27,500 lbs	31,500 lbs	37,800 lbs
Hitch weight	5,200 lbs	6,510 lbs	7,000 lbs	9,000 lbs	10,500 lbs
Discs					
Number of discs @ 5" spacing overall	46	62	70	86	98
Disc diameter	20" or 22"				
Disc arm mounting	Rubber torsion - 4 elements per arm				
Disc arm angle	17° rear, 14° front				
Disc spacing	5" spacing (10" per row)				
Roller					
Roller Design	LSTX	LSTX	LSTXE	LSTXE	LSTX
Tires					
Tire size - center (high flotation)	600/50R22.5	600/50R22.5	600/50R22.5	600/50R22.5	750/45R22.5
Tire size - wing	400/60-15.5	400/60-15.5	550/45R22.5	550/45R22.5	600/50R22.5
Hitch					
Articulating hitch	Category 4	Category 4	Category 5 (insert can be added to convert to Category 4)	Category 5 (insert can be added to convert to Category 4)	Category 5 (insert can be added to convert to Category 4)
Hydraulic Requirements					
Engine HP	Minimum 15 HP per foot[1]				
Hydraulics - at 2,500 psi	18 to 20 gpm				

[1] Requirements may vary due to terrain, depth, speed, season and field conditions

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 many of our dedicated employees and the owners of Kinze Manufacturing who also farm.

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