MKMARTIN
ENTERPRISE Inc.

# Strip Cat

## Strip Tillage Brochure



STRIP CAT

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Strip Cat is a Strip Till tillage system that conforms to No Till guidelines while producing a seedbed similar to Conventional Tillage.

Strip Till systems are comprised of four equally important components.

- Strip Till Machine
- Fertilizer Efficiency
- Soil Management
- Guidance

As a grower, you need to produce as much as possible, while leaving a positive impact on the environment.

Strip Till can achieve this.

## Is Strip Till Right for You?

Rate the following questions from 0 to 5, with 5 being the most important, and 0 being the least important to your tillage program.

___ Have the ability to plant earlier in the spring.
___ Maintain or improve your soil erosion protection
___ Maintain or improve soil moisture retention
___ Maintain or improve the organic matter in the soil
___ Efficient placement of fertilizer
___ Reduce C02 emissions to the atmosphere
___ Loosen your tight soils over time
___ improve yields per acre
___ Maintain a low disturbance to the earthworm activity in soil
___ reduction of input costs
___ Improve your bottom line

___ Total Score

A total of 30 or more may indicate that the Strip Cat tillage system would work with your farming practice.

# Soil Management & Cover Crops

Soil management is crucial to a successful strip till system. Soil tests should be done not only in the top 3" - 4" but also down 12" - 14" to provide a better understanding of soil conditions. Consecutive years of strip tilling will improve results from the deeper soil tests.

Allowing the residue to remain between the strips and decompose adds significantly to the soils organic matter. Residue is key to moisture retention in the soil and protects against soil erosion. Continuous strip tilling along with increased organic matter and earthworm activity will loosen your tight soils over time.

Strip tilling provides 8" - 10" berms that will dry faster than the residue covered areas and be 5-7 degrees warmer allowing earlier planting dates and germination.

Oat Cover Crop 2014

## Cover Crop Benefits:

- Reduces environmental impact from rain, run off, and wind exposure. Which are all causes of soil erosion
- Cover crops can be used to regulate the amount of water within the soil. Harvesting early in dry areas and before planting in wet areas
- Cover crops increase carbon inputs and leave behind more organic matter

Use the Strip Maker to open up the furrows again in spring to warm the ground for optimum seeding preparations.

# Fertilizer Programs

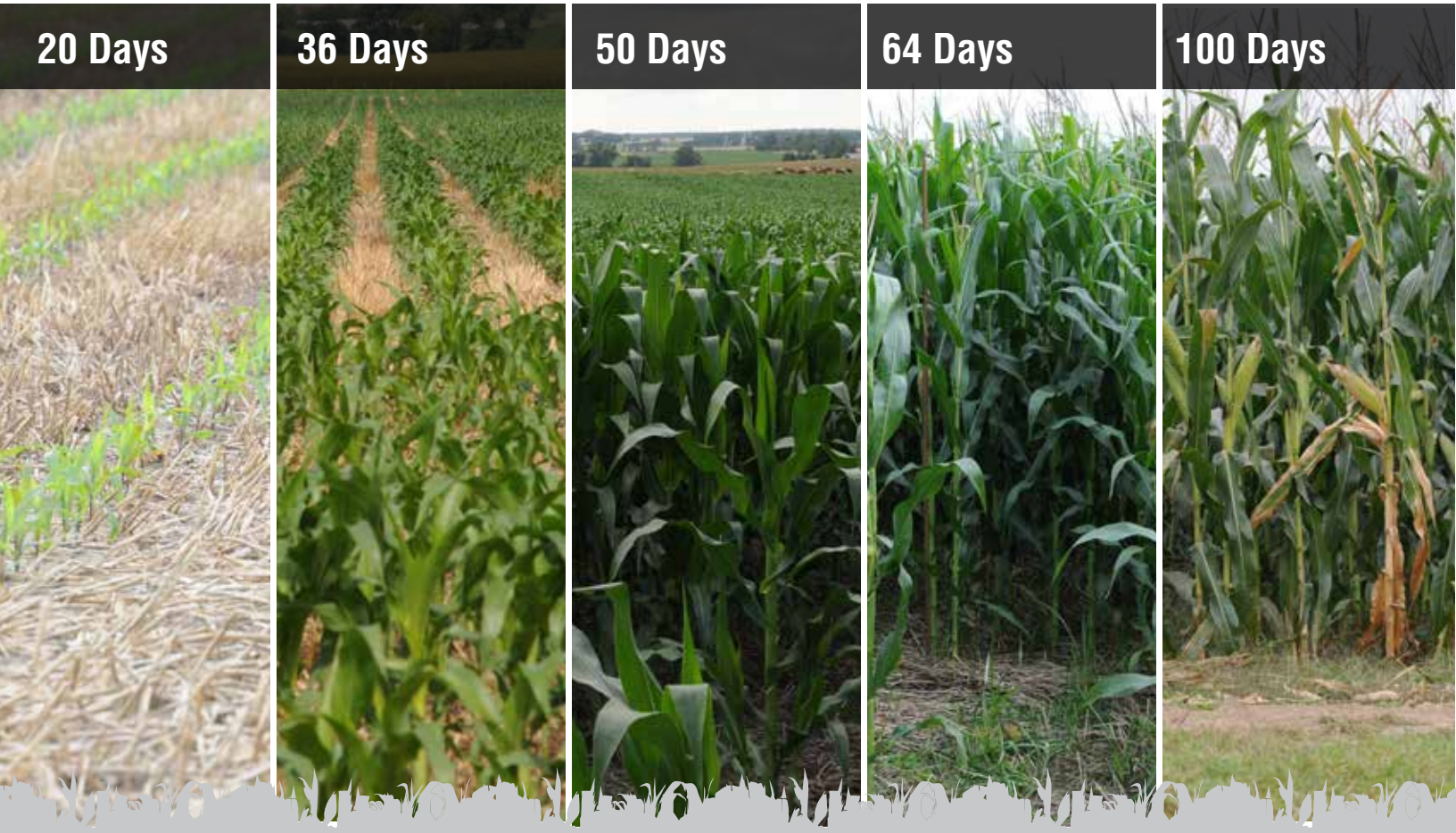
The Strip Cat helps you manage your fertilizer program. Compatible with both liquid and granular fertilizers strip tilling places the fertilizer below the seed zone where it can be readily available to growing root systems while ensuring no hot spots.

Change of Density under the plant promotes

- Better root Development
- Better water Penetration
- Higher organic matter in lower profiles
- Allows for efficient fertilizer placement

Pictured above is the progression of a corn crop strip tilled and planted on June 08 2011 in rye grass stubble with all the fertilizer placed with the strip cat. Even emergence is a prevalent factor in providing a good stand and equal ear development. Yield count at harvest averaged 195 bushel per acre.

Keith Martin Field 2012



## Fertilizer Delivery

When working fields in the fall, Strip Till allows you to place your P and K, plus a percentage of your nitrogen when preparing seed beds for the spring.

When applying fertilizer adjustment of the row unit is important. If not adjusted properly the mole knife may not reach the proper depth for fertilizer application.

## Root Zones & Fertilizer Placement

Case Study: FEASTT Test Field 2012

At FEASTT (fertilizer efficiency and strip till tour), a plot of soy beans was planted with a twin row planter after being prepared with the Strip Cat.

When the plot was excavated to reveal the root and soil profiles there was noticeable fractured soil where the mole knife had passed. The profile also revealed that the roots had penetrated through and beyond the banded fertilizer zone.

Examination of the surface and the soil profile revealed that there was earthworm activity within the test plot also.

Twin row planting and fractured soil helped to gather and maintain moisture. The canopy created by plant placement, and corn residue from the previous year reduced direct exposure to sun helping to slow down evaporation.

The end result of this field test at harvest was an average of 55 bushels per acre.


## 1 Hydraulic Reset

Hydraulic reset protects the strip till unit from harm when working in rocky fields.

The system consists of a pressurized tank (shown above) and a single cylinder per row unit.

Cylinders trip and reset individually.

## 2 Row Depth Control & Residue Sizing

Independent row depth control allows you to adjust each row unit to match the profile of the field providing optimum penetration of the implement.

Gauge wheels hold the residue in place as the coulters cut and size it. A variety of slitter coulters for different field conditions such as corn residue, wheat stubble, and sod.

Gauge wheels have 4 fixed adjustments to vary the tillage depth. Gauge wheels are available in either steel or polyurethane.

## 3 Trash Managers

Can accommodate either fixed or floating style trash managers. Trash Managers remove stalk and root ball residue from the future seed bed.

# Row Units

## Fully Adjustable Row Units

The Strip Cat is fully adjustable to your field conditions. The right amount of down pressure is crucial in strip tilling to ensure that all parts of the Strip Till unit are working effectively. The row unit comes standard with 2 down pressure springs per row. For added down pressure in tough conditions 2 more springs can be added for a total of 4. This high degree of adjustability allows the operator to fine tune the Strip Cat for optimum performance from one field to the next.

Adjustment of the Strip Till unit should allow any trash or residue to be cleared away from the cut without getting in the way of other components such as the mole knife. If not properly cleared the residue can get in the way and poor placement of the nutrients being placed.

Independent adjustments to the components should happen on separate passes as adjusting one component will affect the others. It is recommended that one or two passes be made between adjustments to better evaluate the settings.

Having enough horse power and maintaining the recommended speeds are vital to the success of Strip Tilling. Too little power or to little speed and the Strip Till may not penetrate the soil to the proper depth. Resulting in mis-managed resources and poor yield.

### 4 Mole Knives

Mini mole knife (shown) for liquid or granular fertilizer available in standard or low draft. Replaceable point.

### 5 Berm Builders

Reclaims valuable soil brought out of the cutting path and closes the opening by building a berm overtop.

Easy adjustment with the integrated gauge allows operators to consistently create proper berm heights.

### 6 Pack Wheels

Packer wheel options give you the desired seed bed to plant in.

Wire pack wheels effectively break up lump soils.

Smooth neoprene style packers work best on lighter soil types.

# STACK N FOLD TOOLBAR

The Stack N Fold Toolbar from MK Martin is designed to provide safe and easy transport of Strip Cat strip till systems. By stacking  both end sections over the center section, the Stack N Fold Toolbar quickly reduces the overall width providing easier transport from field to field. The over centre design and locking pins ensure that the end sections remain securely in place during travel and when in storage.

Stack N Fold Toolbars can be configured with 2 to 4 remotes allowing you to control each side of the toolbar separately. This allows for easier service and maintenance, as well as for custom operations when you may not need the full width of the Strip Cat such as on headlands and point rows.

## Features

- Available for 8-Row to 18-Row strip till units
- Allows for parallel horizontal stacking of row units
- Ideal for transport and storage
- Equipped with 2 large cylinders (5x30 fold cyl.)
- Equipped with 2 small cylinders (2x4)
- Requires 2 to 4 remotes depending on configuration


# Implement Caddy

The Implement Caddy by MK Martin converts your 3PH implements to trailed versions when access to a 3PH equipped unit is not available. This alternative to conventional 3PH mounting allows greater flexibility over your work force.

## Features

- 12,000 LBS. capacity
- 3PH Mount CAT. 2 or 3 implements
- Hydraulically raise and lower caddy to desired height

| Model | SCIC250 | SCIC1700 |
|---|---|---|
| **Width** | 125” | 152” |
| **MAX HP** | 250 | 500 |
| **Weight (LBS.)** | 2,062 | 7,750 |
| **Lift Cyl.** | 3-1/2 x 16 | 5 x 14 |
| **Lift Capacity (LBS.)** | 12,000 | 20,000 |
| **Category** | CAT. 2 & 3 | CAT. 4 |
| **Tires** | 12.5L | 16.5 x 16.1 |

# Specifications & Parts

| | | 6 Row (30" Rigid) | 8 Row (30" Rigid) | 12 Row (30" Folding) | 16 Row (30" Folding) | 18 Row (22" Folding) |
|---|---|---|---|---|---|---|
| **SCTB6R30** | 6 row 30" tool bar | 1 | - | - | - | - |
| **SCTB8R30** | 8 row 30" tool bar | - | 1 | - | - | - |
| **SCTBSF12R30** | 12 row 30" Stack N Fold | - | - | 1 | - | - |
| **SCTB12R30** | 12 row 30" tool bar | - | - | 1 | - | - |
| **SCTBSF16R30** | 16 row 30" Stack N Fold | - | - | - | 1 | - |
| **SCTB16R30** | 16 row 30" tool bar | - | - | - | 1 | - |
| **SCTB28R22** | 18 row 22" tool bar | - | - | - | - | 1 |
| **SCBRU** | Generation II row unit | 6 | 8 | 12 | 16 | 18 |
| **SCSNC** | Notched Coulter | 6 | 8 | 12 | 16 | 18 |
| **SCSWC** | Wavy Coulter | 6 | 8 | 12 | 16 | 18 |
| **SCSTM** | Sunco Trash Manager | 6 | 8 | 12 | 16 | 18 |
| **ST5011196** | Floating Trash Manager mnt | 6 | 8 | 12 | 16 | 18 |
| **SCIRDT** | Depth Gauge Wheel (set) | 6 | 8 | 12 | 16 | 18 |
| **SCIRDC** | Coulter Depth Gauge Wheel | 6 | 8 | 12 | 16 | 18 |
| **22855** | Fixed Knife Adaptor | 6 | 8 | 12 | 16 | 18 |
| **SCNIBBD** | Independent Berm Builder (cupped) | 6 | 8 | 12 | 16 | 18 |
| **SCNIBBC** | Independent Berm Builder (wavy) | 6 | 8 | 12 | 16 | 18 |
| **SCBPT** | Berm Packer (urethane) | 6 | 8 | 12 | 16 | 18 |
| **SCBPW** | Berm Packer (wire) | 6 | 8 | 12 | 16 | 18 |
| **SCBE** | Berm Enhancer | 6 | 8 | 12 | 16 | 18 |
| **SCKLSTS** | Knife Shank w/repl. Point (liquid) | 6 | 8 | 12 | 16 | 18 |
| **SCKLSTL** | Knife Shank w/repl. Point (liquid/dry) | 6 | 8 | 12 | 16 | 18 |
| **SCHTA6R30** | 6 row 30" hydraulic tripper | 1 | - | - | - | - |
| **SCHTA8R30** | 8 row 30" hydraulic tripper | - | 1 | - | - | - |
| **SCHTASF12R30** | 12 row 30" hydraulic tripper (For Stack N Fold) | - | - | 1 | - | - |
| **SCHTA12R30** | 12 row 30" hydraulic tripper | - | - | 1 | - | - |
| **SCHTASF16R30** | 16 row 30" hydraulic tripper (For Stack N Fold) | - | - | - | 1 | - |
| **SCHTA16R30** | 16 row 30" hydraulic tripper | - | - | - | 1 | - |
| **SCHTA18R22** | 18 row 22" hydraulic tripper | - | - | - | - | 1 |
| **SCSGW** | Standard Gauge Wheel (set) | 1 | 1 | 1 | 1 | 1 |
| **SCPDGW** | Pump Drive Gauge Wheel (set) | 1 | 1 | 1 | 1 | 1 |
| **SCTDF** | Trailer Hitch | 1 | 1 | 1 | 1 | 1 |
| **SCSTPO** | Replacement knife point (mini Mole)(Parts) | 6 | 8 | 12 | 16 | 18 |
| **SCLDPO** | Replacement knife point (low draft)(Parts) | 6 | 8 | 12 | 16 | 18 |

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