



# LEGACY

## DRAINAGE EQUIPMENT



***IMPROVING LAND & LEGACY SINCE 1983***



**309-369-2248 - Deer Creek, Illinois USA**

**info@legacydrainage.com - [www.legacydrainage.com](http://www.legacydrainage.com)**

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## **BENEFITS OF DRAIN TILE**

**Removes only excess moisture from saturated soils, balancing the oxygen-moisture ratio in the soil profile and increasing the microbiology of the soil.**

**Properly drained soils reduce water runoff, reducing soil erosion & nutrient loss.**

**Soil conditions and field entry times increase significantly gaining efficiency, while also lowering the risk and effects of compaction with increased oxygen.**

**Increased root mass increases nutrient uptake adding to crop health and yield.**

**Drain tile will help salt reduction in high saline soils increasing crop health and yield.**

**Universities and practical farm research shows average pattern tile yield increases from 10%-30%, while targeted or spot tiling can increase yield from a “0” to field average yields.**



# RESOURCES

## Drainage Coefficient

A drainage coefficient is a design parameter that specifies the capacity of a drainage system. It's typically expressed as a fraction of an acre-inch of water that the system can remove from the soil in a 24 hour period.

EX: If you have a 1/2" drainage coefficient, the drainage system is designed to remove 1/2" of water from the soil in a 24 hour period.

## Ft/Ac of Tile Patterns

Spacing - Ft/Ac

10'	-	4,356'
20'	-	2,178'
30'	-	1,452'
40'	-	1,089'
50'	-	871'
60'	-	726'
70'	-	622'
80'	-	544'
100'	-	435'

## Figuring Grade & Slope

Grade = Rise over Run x 100%

Slope = Rise over Run

Using Decimal Ft.

1.0' / 1000' = 0.001 X 100 = 0.1% Grade

1.0' / 4.0' = 25% Slope or 1:4 Slope

## Installation Cost Calculator

Ft/Ac x \$/ft Pipe & Fittings + \$/ft Labor/Equipment

871' x \$.50 + \$.25 = \$653.25/Ac



## Universities, Apps, IR, & Safety

There are many resources available from University research to Drainage Schools. Slide Rules to online apps.



Beck's Hybrids PFR  
Precision Planting PTI  
Ag Phd Resource Apps  
Iowa State University  
Ohio State University

University of Illinois  
University of Minnesota  
University of Guelph  
North Dakota State University  
South Dakota State University  
Michigan State University

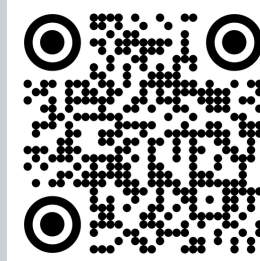
## Financing Options



**NORTHLAND CAPITAL**  
— EQUIPMENT FINANCE —

**STEARNS  
BANK**

We work with any nationwide financier.  
We can also work with your local lender.



Click here to view the  
applications for Northland  
Capital and Stearns Bank

# LEGACY DRAINAGE TILE STRINGERS

The Legacy Tile Stringers are Rugged and Simple to operate with many options to fit your needs.

## MODELS

**LMN** - Mini UTV/Pickup Stringer with Skid Steer Style Loader Mount built for multiple Industries not only for Drain Tile but small HDPE, PEX, Electrical Wire, Etc.

**LHD** - Our original bullet proof Heavy Duty Tile Stringer modernized and ready to work.

**LXD** - The HD model stretched and on steroids. 3' longer than the LHD and 2" taller Frame making this Xtreme Duty stringer the toughest stringer available.

**LXD3** - This is the Large Frame Xtreme Duty 3pt Tile Stringer built for the toughest jobs.

## HEAVY DUTY CONSTRUCTION

11' Table with Quick folding wings, now with spring loaded HD Pins  
Heavy Duty and Xtreme Duty Stringers boast the heaviest duty frames in the industry

Large Diameter HD Stringer Tube with Multiple Top Options

Heavy Duty Table Hub and now with a convenient bolt in Spindle Weldment  
Heavy Duty Hydraulic Cylinder Standard with Tractor Hoses and the Hydraulic Box Option

## FEATURES

Self Contained Hydraulic Box Kit is usually preferred, but tractor hoses are available

12V DC Battery & Charger included with all Hydraulic Box Kits

Wired Remote Standard for Hydraulic Box Kit

Wireless Remote Option is available for the Hydraulic Box Kit

Heavy Duty Brake Pads - Low Maintenance, No Rope, No Pull Handle

Durable Powder Coat Finish - Now standard in Black with Silver and Blue

but customizable to any color scheme you'd like

LED Tail Lights with bonded trailer wiring enclosed in the frame

20k lb. 1" Pin Hitch Standard but is interchangeable

2" Rear Mount for SMV Mount and License plate holder available

The Tool Mount can now carry our Tile Cutter, Holder, and Probe along

with the cord hanger standard on the LXD Stringer

Take your pick between the Standard A/T Tires or Optional Ag Floaters or Trailer Tires

Tool/Parts Tray is available on each of the Maxi roll models

Front Pipe guides are standard on all stringer models but the XD units are all adjustable depending on the pipe size you're handling along with new adjustable rear pipe guides



**LMN**

The LMN Mini Stringer is the most versatile little stringer for many different applications!

**LHD**

Our Original HD stringer redesigned with more features and options!

Multiple top options including a lighter weight 2"x 10' Bar or Traditional Ring top with flexible pipe guides to keep the top coil in place on the windiest days.

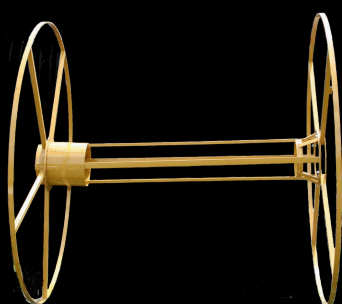
**LXD**

Both the LHD and LXD models have the options of a Single Torsion Axle or our new  
\* **INDUSTRY EXCLUSIVE WALKING TORSION AXLE** \*

This adds a smooth ride to the best terrain navigating axle!

**LXD3**

Our Xtreme Duty 3pt has been redesigned with many new features including  
Four Corner Jacks now making the hook up process easier!

**Extra Spool Kit**

- Holds partial rolls of tile together
- Eliminates tangled rolls
- Fits most tile stringer trailers

## L48 - 3pt TILE PLOW

The Legacy L48 3pt Tile Plow is the most versatile and affordable tile plow, perfect for those wanting to install tile economically. Designed for a Category III 3pt hitch, the L48 Tile Plow is perfect for shallower tile installation such as: laterals in a pattern tile application, along water ways, and draining wet spots in fields.

### PULL WITH A LARGE 2 WHEEL DRIVE TRACTOR

The Legacy L48 can be pulled by a large two wheel drive or small to mid size front wheel assist tractor. It is recommended that a tractor with a weight of at least 16,000 pounds be used. In lighter soils, smaller tractors may be used.

### ASTM F449-02 6.5 COMPLIANT

Lay tile as recommended by the ASTM. All Legacy Drainage Plows and Quick Attach Trailing Boots comply with the ASTM F449-02 6.5 for correct tile placement and proper bedding of the soil.

### QUICK ATTACH TRAILING BOOT

The Legacy Quick Attach Trailing Boot is the easiest and quickest tile boot to change in the industry. Spend less time changing boots and more time tiling.

The L48 is sold with a 4" Quick Attach Trailing Boot standard. Optional Quick Attach Trailing Boots are available in 3", 4", 5" and 6" sizes.

### PITCH CONTROL

The L48 3pt Tile Plow installs tile using a pitch control design. Retract the cylinders to lower into the ground and extend the cylinders to raise out of the ground. A depth indicator chain and a water level are used to visualize the tile depth and pitch during installation.

### GRADE CONTROL

Optional Laser or GPS Grade Control is available for the L48 Tile Plow. Check out our Technology page and our website for more information.





Fork pockets in frame for easy handling when not hooked to a tractor

Easily integrate almost any grade control options onto any of our plow models

Water level and Depth Chain indicator for quick pitch and depth visual indication

Implement jacks for easy connecting to tractor 3 point

**\*Optional Tile Feeder shown. Hydraulic Driven and Controlled. No Electronics. Great addition to any of our plow models when concerned with tile stretch especially in warmer conditions**

**Available Boot Sizes**

**Recommended Horsepower**

**Water Level**

**Weight**

**Tiling Depth**

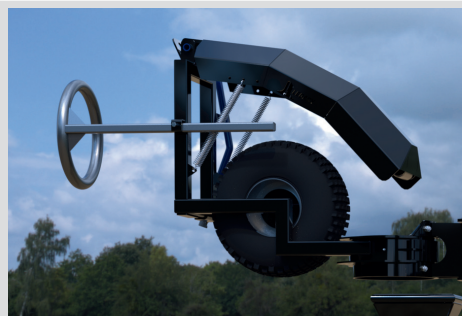
**3" - 4" - 5" - 6"**

**150-300 HP**

**Standard**

**2,000 pounds**

**Down to 48"+**



## L72 TILE PLOW

### 3 PT OR PULL TYPE CONVERTIBLE

Based on the original design from 1983, this style continues to be our #1 trusted plow.

Pull three pins and the Legacy L72 pull type tile plow is a Category III 3pt plow making it the most versatile tile plow in the industry.

### PARALLEL LINK, ZERO PITCH FOR ACCURATE GRADE CONTROL

The Legacy L72 Parallel Link allows for zero pitch. With zero pitch, the tile is discharged at the same depth as the tip of the cutting edge as the grade control indicates.

This plow style is the easiest to operate with a smooth raise and lower action.

### NUMERICAL EASY TO READ DEPTH GAUGE

Lay Tile up to 72" deep with an easy to read depth gauge. The easy to read depth gauge comes standard on the L72 tile plow and gives the operator peace of mind whether controlling depth manually or with the best grade control system available.

### ASTM F449-02 6.5 COMPLIANT

Lay tile as recommended by the ASTM. All Legacy Tile Plows and Quick Attach Trailing Boots comply with ASTM F449-02 6.5 for correct tile placement and proper bedding of the soil around the drain tile.

### QUICK ATTACH TRAILING BOOT

The Legacy Equipment Quick Attach Trailing Boot is the easiest and quickest trailing boot to change in the industry. Spend less time changing boots and more time installing

Designed for and available in 3", 4", 5", 6", 8" and 10" sizes.

\*Legacy also has large sweeping radius utility boots for dual wall tile, waterline & other utilities\*

### EASIEST TURNING TILE PLOW IN THE INDUSTRY

Pair a swiveling boot design with the Bull Pull Hitch and especially paired with an articulating tractor, you get the easiest turning pull type or 3pt tile plow on the market.

Tiling on the contour is the most effective drainage and subsurface irrigation design.





## BULLPULL HITCH

The Bullpull Hitch allows the pin to swivel in the hitch with the Bullpull shimmed tight to the clevis resulting in smoother operation and more accurate grade control.

## LIFT CYLINDERS

The Legacy L72 tile plow is equipped with 2 HD hydraulic lift cylinders for more accurate grade control.

These 2 larger cylinders have even more lift power than the 3 cylinders on our previous 55HD plow.

## PULL WITH FRONT-WHEEL ASSIST TRACTOR

With the zero pitch design, the L72 tile plow is one of the easiest pulling tile plows on the market. The front angle and shatter fin on the cutting edge lifts and shatters the soil, allowing the plow to glide through the soil with less resistance.

The L72 can be pulled by a mid-size to large front-wheel assist tractor, 2 track, articulating tractor, or dozer.

### L72 TILE PLOW

Available Boot Sizes	3" - 4" - 5" - 6" - 8" - 10"
Recommended Horsepower	200 - 650 HP
Depth Gauge	Fully Adjustable
Pull Type Weight	8,000 pounds
Tiling Depth	Down to 72"



We recommend in most soil types and conditions when installing tile deeper than 48"-60" and larger than 8" drain tile that a "pre-rip pass" be made. The pre-rip pass will break up the hard soil deep below the surface and displace that large volume of soil that you need to move.

At the end of the day, we're here to recommend the best options for you even if it means helping you dig rather than plow those tough, deep cuts. Laying pipe at deep depths may even need stone backfill to meet tile specs. Check our Resource and Tech pages for more information.

Tap into the resources available like tile manufacturers and other industry experts!

## L84 - DUAL LINK TILE PLOW

Dual Link Control and Accuracy at the Drop of a Pin.

### DUAL LINK CONTROL

The most accurate way to lay tile is with pitch and elevation. The L84 Dual Link tile plow utilizes lift cylinders to control elevation and the pitch cylinders to control slope.

Combining the accuracy of dual link with the Legacy design creates the easiest pulling, simplest, and most accurate plow on the market today pairing with the best grade control options available. Don't get sold, choose which option best fits you and your needs.

### GROUND INFILTRATION

The Legacy Shank Design fractures the ground and allows more soil to come back into the trench and filter down to the tile. Doing this helps the tile drain faster and more efficiently from the beginning. It also creates less of a mess than other plows on the market that push the soil too far away from the center of the trench.

### NUMERICAL EASY TO READ GAUGES

Legacy Drainage is the leader in easy to use, easy to understand, quality equipment with all new pitch and depth gauges. Why settle for water levels that are hard to use and see when you can have a numerical pitch gauge that tells you what the plow angle truly is. Don't waste time trying to see a chain or wondering if electronics are telling you the truth. Know where your tile is all the time, with Legacy's easy to read numerical depth gauge.





## ASTM F449-02 6.5 COMPLIANT

Lay tile as recommended by the ASTM. All Legacy Tile Plows and Quick Attach Trailing Boots comply with the ASTM F449-02 6.5 for correct tile placement and proper bedding of the soil. Have a V-bottom when the ASTM recommends, and a trapezoidal bottom for larger tile sizes.

Support your tile the proper way!

## QUICK ATTACH TRAILING BOOT

The Legacy Quick Attach Trailing Boot is the easiest and quickest trailing boot to change in the industry. Spend less time changing boots and more time tiling.

Designed for and available in 3", 4", 5", 6", 8", 10", 12" and 15" sizes.

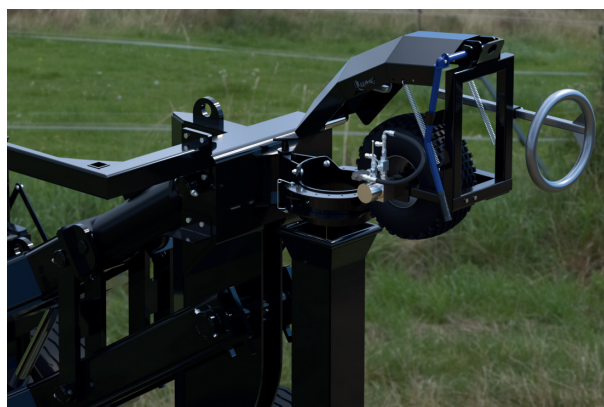
All Legacy Tile Plows are sold with a 4" Quick Attach Trailing Boot standard.

## HIGHEST LIFT AVAILABLE

The Legacy L84 Dual Link Tile Plow lifts 32" above the ground, the highest lifting pull-type tile plow in the industry. The higher the lift, the easier it is to back over the start hole.

### L84 - DUAL LINK TILE PLOW

Available Boot Sizes	3" - 4" - 5" - 6" - 8" - 10" - 12" - 15"
Recommended Horsepower	200 - 850 HP
Depth & Pitch Gauges	Fully Adjustable
Pull Type Weight	10,000 pounds
Tiling Depth	Down to 84"



## GRADE CONTROL OPTIONS

Legacy Drainage Equipment is pleased to supply our customers with multiple options for GPS and Laser Grade Control because there's never just one solution for every operator and job. We're here to help you find what best fits your needs!

### LASER TECHNOLOGY

Laser technology can be used on: Tile Plows, Scrapers, Blades, Trenchers, Backhoes, Excavators, Dozers, Skid Steers and almost anything that you need to control whether that's with indication and manual control, or automated control. Laser's have a strong place in many industries and many applications.



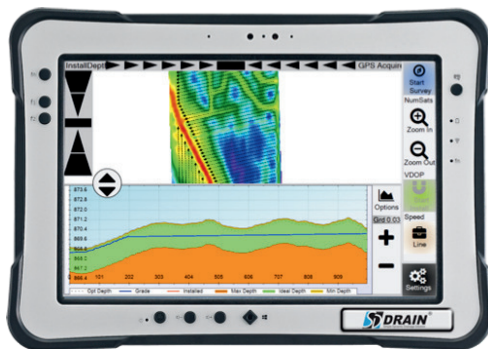
### AG LEADER TECHNOLOGY

Intellislope Control / SMS Water Management Software



## SD DRAIN BY RUST SALES, INC.

SD Tile & Ditch Hardware / GK Technologies ADMS Mapping Software



TECHNOLOGY OPTIONS

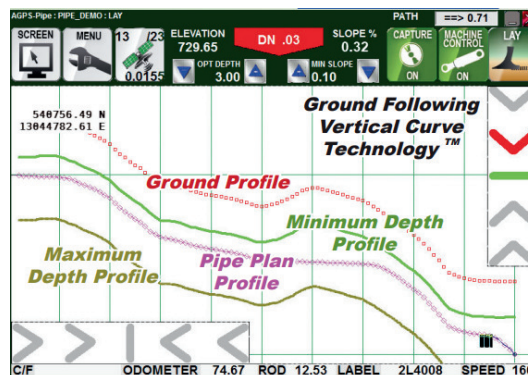
## PTx TRIMBLE

WM Drain Machine Control / WM Drain Mapping Software



## COOK'S AGPS

Machine Control Software/Hardware & Mapping Software





# TRENCH CLOSER & CRUMBLER

**Rugged enough to handle the toughest conditions.**

Adjustable up to 102" wide

Four 26" Disc Blades -Optional extra two 26" disc blades

Disc Angle adjustable from 15 to 25 degrees

Adjustable Mounts to fit Category 2-4 Quick Hitches

Allows soil to settle where it came from - Helps eliminate soil dips over tile lines - Typically only one pass needed

\*\*\*New Crumbler attachment with either chains for better performance in wetter conditions or HD angle bars.

Can retro fit onto older Trench Closers from O'Connell Drainage by Legacy Equipment Co.

Floating or fixed Positions -

Add a Hydraulic cylinder for even more control.



TRENCH CLOSER

**BEFORE**



**AFTER**



**BEFORE**



**AFTER**





## SURFACE/GRADING TOOLS

With a manufacturing relationship with DoMor Equipment we have the opportunity to also work with them on the start to our surface land improvement tool product line.

### L12B - 12' HEAVY DUTY BOX SCRAPER

The L12B is a 12' Heavy Duty Box Scraper built to handle your toughest jobs. With an optional Scarifier attachment, rip through tough ground and move that material with one tool!



It can also be paired with any of our Laser or GPS Technology options to be a precise finish grader as well.

With certain grade control options it can operate both Elevation and Tilt.



### L7G - 7' LAND GRADER

The L7G is a 7' Land Grader that can be operated with a Skid Steer or a Mid-Size Tractor

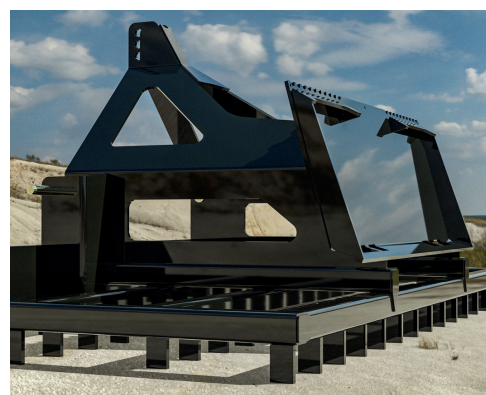
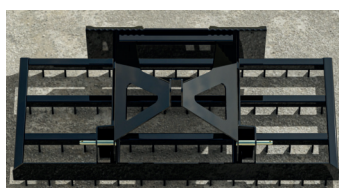
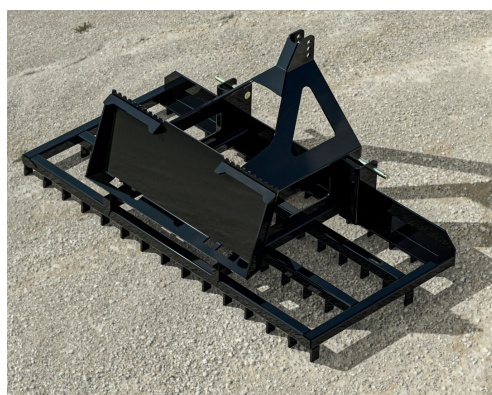


The Heavy Duty cutting edges can be adjusted to desired angles and positioning



### L7R - 7' LAND RAKE

The L7R is a land rake designed to be used with either a Skid Steer or Mid-Sized Tractor



## TOOLS



### Tile Cutter

- Cut up to 8" tile in one cut
- Easy cuts. Easy to use.
- Quick one swipe cuts
- Great for quick cuts and in tight spots & especially in submerged tile cutting.

Scan the QR codes to see the tools in action.

\* Use Sharp Tools with CAUTION ! \*

### Tile Holder

- Adjustable and can hold up to 8" tile in place and while stringing.



### HD Tile Locating Probe

- Find tile through the field with ease
- 5' Probe Depth
- Rubber Grips
- Stainless Rod



### Professional Tile Locator Kit

- Jameson Tile Locator Reel & Rod
- 7/16" x 600' - \*Many Sizes Available
- 2" Receiver Platform Carrier Available
- Gen Eye Professional Utility Locator
- Location and Depth Readout
- Locate Any Utilities
- EZ Winder Option Available to Push and Pull the rod with a Drill



## IMPROVING LAND & LEGACY SINCE 1983

Legacy Drainage Website



Find a Dealer Near You

