



LOW IN COST...

LOW IN UPKEEP

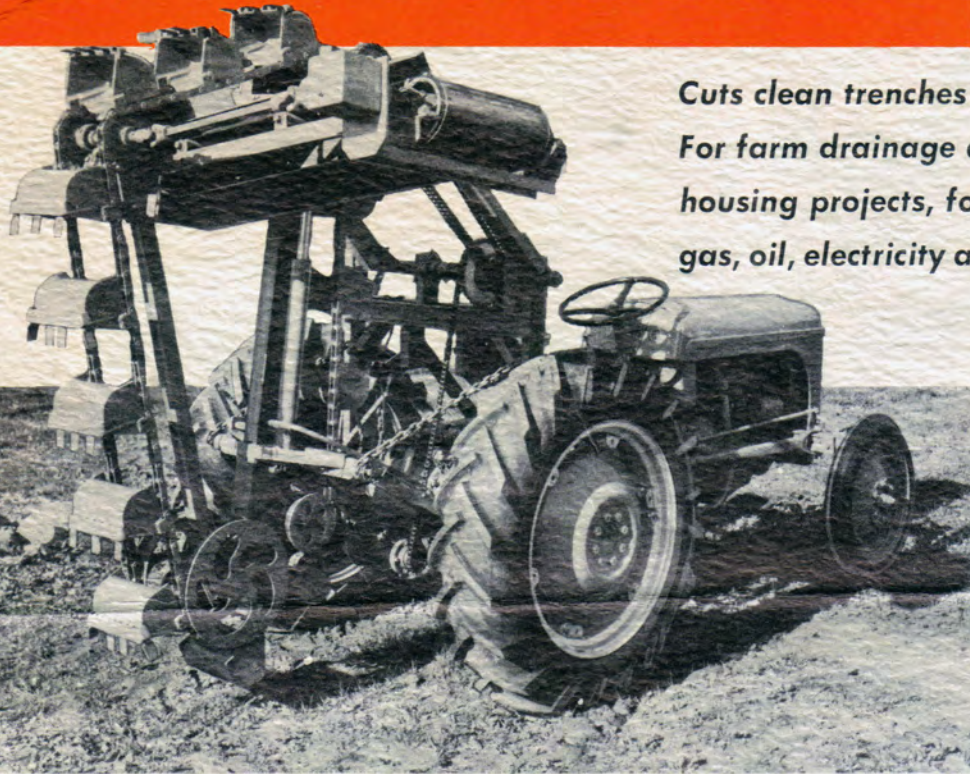
*The New*  
**Everett Trencher**  
*equals*

the pick and shovel work of **25** men



FOR INSTALLATION ON FERGUSON, FORD-FERGUSON AND FORD TRACTORS

# The Everett Trencher...



*Cuts clean trenches in all types of soils.  
For farm drainage and irrigation ditching,  
housing projects, foundation work, water,  
gas, oil, electricity and power line ditching.*

*Digs up to 42 inches  
deep, 12 to 18 inches  
in width, cuts from 1½  
to 5 feet per minute.*

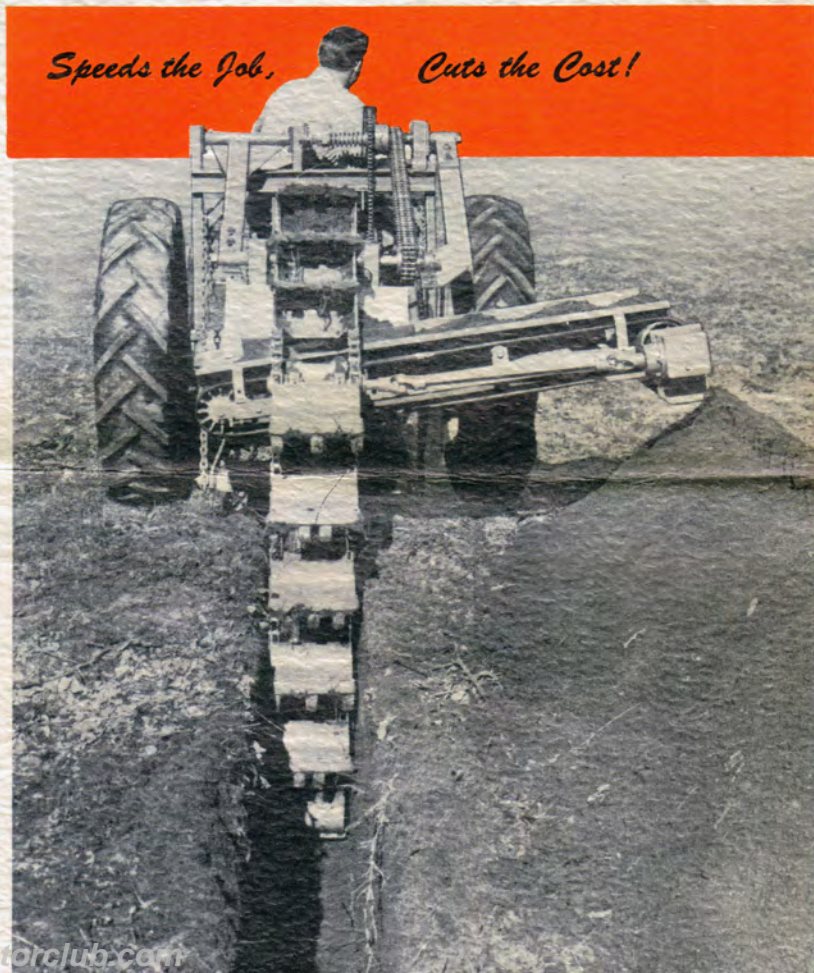
## THE MOST DEPENDABLE AND PROFITABLE ON-THE-JOB TRENCHER

Here's the answer to hundreds of contractors', farmers' and building equipment suppliers' requests for a tractor-driven trencher. It's the compact, rugged, and versatile Everett Trencher that operates from the power takeoff of the Ferguson, Ford-Ferguson or Ford tractor — raised and lowered by built-in hydraulic system.

Whether soil is soft dirt, clay or adobe, the Everett Trencher will dig in and go to work without any loss of time. The Trencher is as mobile as the tractor itself. It can be driven up inclines and over curbs, right to the job—and is easily and quickly maneuvered into working position. The complete, high-efficiency rig (trencher and tractor) is easily moved from job to job; under its own power or by trailer transportation.

*Speeds the Job,*

*Cuts the Cost!*



## The Versatile Everett Trencher Cleanly Cuts the Same Amount of Ditch in an Hour's Time as a Crew of 25 Pick and Shovel Workers

The Everett Trencher does countless jobs previously accomplished more expensively with pick and shovel hand labor or by ditching equipment costing much more than the Everett Trencher . . . and the Everett Trencher cuts per-hour operation costs to the limit. An additional trenching width up to 34" can be cut by simply widening the tractor tread to bridge the existing trench.

### Everett Speed Reduction Transmission with Fingertip Control

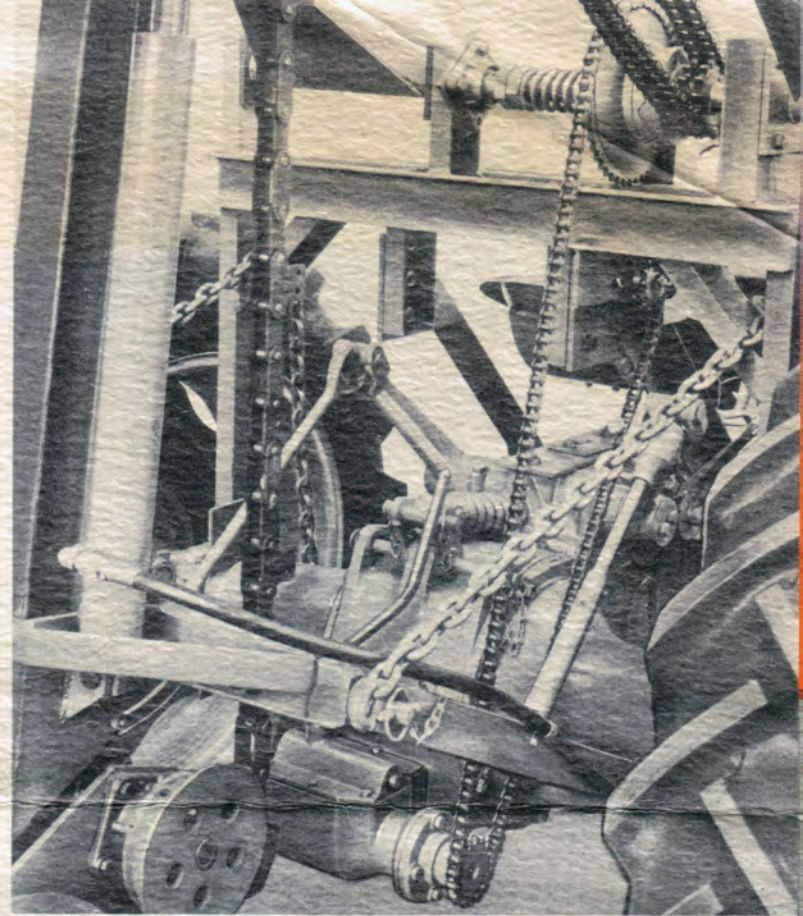
Necessary Tractor speed reduction is provided for by the Everett Reduction Transmission and the operator easily selects the proper rate of forward travel for the trencher, when in operation, by a convenient shift control lever. The Everett Speed Reduction Transmission also serves to lengthen the tractor wheel base—stabilize the trencher—makes the trencher easy to keep on a straight line—and assures smoother operation when working ground that is not entirely level.

### Tractor Speed Control

By fingertip shifting the transmission lever, the operator can accurately control the Everett Trencher rate of forward speed from as slow as 18 inches per minute for digging, up to 15 m.p.h. when transportation of trencher is desired to another location.

Four forward speeds plus governor control of Engine r.p.m. enable the operator to select proper digging speed for varied soil conditions.

All controls for lowering the Everett Trencher onto, or raising it from the ground, are hydraulically controlled from the operator's seat. The shifter lever on the transfer gear box engages or disengages the bucket line.



### Quickly Installed or Removed

When the Everett Speed Reduction Transmission has once been installed, the Everett Trencher can be removed or reinstalled onto the tractor with very little labor.

Installation of the Speed Reduction Transmission does not affect the regular use and operation of the Ferguson tractor—all other hydraulically controlled Ferguson tools and implements can be handled with the same one-minute, three-point linkage attachment as if the special transmission had not been installed.

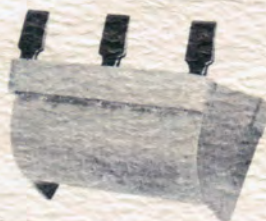
### Safety Slip Clutch

A safety slip clutch built into the trencher automatically stops the bucket line and prevents damage when obstructions such as pipe lines, heavy roots, large rocks, and foundations are encountered.

## HEAT TREATED, HIGH CARBON, CAST STEEL BUCKETS



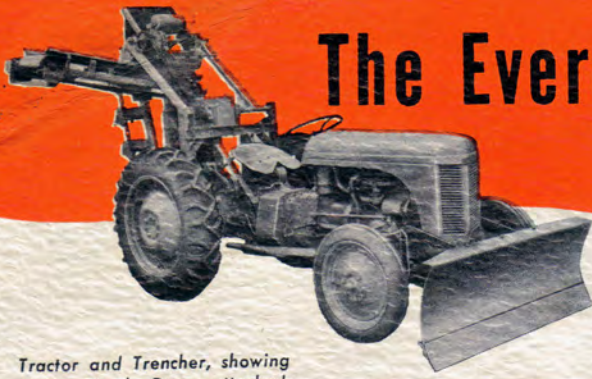
Bucket showing extension socket for 18" cut.



Top view of alternate bucket with teeth set for 12" cut.



Bucket with three replaceable, "quick-change" type, self-sharpening teeth for 12" cut.



# The Everett Trencher...

## Specifications

Tractor and Trencher, showing McGee Angle Dozer attached. Used for backfilling operations.

### BUCKETS

Heat treated, high-carbon cast steel for long wear. Buckets are cast with tooth pockets integral for "quick-change" type Tooth. By adding additional pockets to the sides of the buckets in the holes provided, trencher cut can be extended up to 18" in width.

15 Buckets—spaced 12" apart. Bucket size: 9 $\frac{1}{4}$ " x 6" x 4"

### BUCKET TEETH

Patented, quickly replaceable type teeth are standard. Trencher comes equipped for 12" cut. Additional equipment available for 14" 16" and 18" width trenches. Teeth may be quickly removed and reversed when dull. This resharpsens teeth.

### CHAIN AND SPROCKETS

High tensile strength standard Diamond Roller Chain and Sprockets.

### CONVEYOR BELT

16" width Conveyor Belting. Length 48" from center of trench to delivery end—at right.

### CONVEYOR BELT DRIVE

Power is taken from bucket chain line and both conveyor belt rollers are operated smoothly through gears and two universal joints connected by drive shaft. Driven roller is cast aluminum with relief for dirt clearance. The belt rides on the ridges of the roller and the dirt is pressed to the sides and out. This reduces the possibility of rollers and belt accumulating dirt.

### SPEED REDUCTION TRANSMISSION

Inclusion of a special Reduction Transmission provides for necessary speed reduction (through operator's selection of proper rate-of-travel of Trencher in operation). This Speed Reduction Transmission also lengthens Tractor wheel base, stabilizes Trencher, makes it easier to keep on straight line, and assures better operation when ground is not entirely level. Gear ratio of speed reduction is 98 to 1.

### TRANSFER GEAR BOX

The transfer gear box mounts on the Rear power take off shaft of the tractor and drives the bucket line and conveyor. This is provided with a clutch and shifter lever so that the Trencher may be shifted in or out of gear, thus the bucket line does not operate when the tractor is used for bulldozing, etc., or so that bucket line may be stopped and the trencher raised and lowered from the seat of the tractor.

### SAFETY SLIP CLUTCH

The safety slip clutch is a built-in feature of the trencher, so that when the trencher strikes an obstruction such as pipe, large rocks and heavy roots, etc., the bucket line is stopped, thus the possibility of damage is minimized.

### TRACTOR SPEED CONTROL

By finger-tip shifting the Speed Reduction Transmission Lever from conventional to under drive, operator can accurately control Trencher's rate of forward speed from as slow as 18 inches per minute for digging, or to 15 MPH to transport Trencher to another location.

### DEPTH CONTROLS

All controls for lowering Trencher into, or raising from ground, are hydraulically finger-tip controlled from operator's seat.

### ATTACHMENT—TRENCHER TO TRACTOR

1. Trencher can be mounted on Ferguson Tractor in 12 man-hours or less.
2. When Speed Reduction Transmission has once been installed Trencher can be removed and reinstalled on Tractor with very little labor.
3. Installation of Speed Reduction Transmission does not affect regular use and operation of Ferguson Tractor, as all other hydraulically controlled Ferguson tools and implements can be handled with the same one-minute three-point linkage attachment as if special Transmission had not been installed.

### BEARINGS

All rotating shafts mounted on Anti-friction Roller Bearings.

### GEARS—TRANSMISSION

Of a special alloy steel, heat-treated to insure maximum strength and wear.

### LUBRICATION

Pressure lubrication—Zerk fittings.

### CONSTRUCTION

Sturdy, welded and bolted construction of channels, I-beams, angles and plates.

### BOLTS

Heat-treated cap screws.

### DEPTH CONTROL LOCK

Convenient rope control from operator's seat locks Trencher at desired depth.

### DEPTH CONTROL

Depth of cut may be varied by releasing lock and raising and lowering hydraulic control lever on tractor.

### DIMENSIONS

Height to top of Trencher when in transport; 7' 6" Length overall: 13' 6" Width overall: Left rear wheel to right end of conveyor, 6' 7" Road clearance: When transported under own power, 6" Extension: Drawbar to extremity of Trencher, 38" Center line of Ditch to outside of wheels Min., 30"

### SHIPPING WEIGHT

1450 lbs., shipped disassembled consisting of 2 pieces, 4 bundles and 1 box; a total of 7 pieces.

### BACK-FILLING ATTACHMENT

Tractor will accommodate a McGee Angledozer for front attachment in combination with Trencher.

*The Everett Trencher is now manufactured by the L. A. Automotive Works, producers of high quality precision parts, gears, etc., for the automotive and aircraft industries—leaders in the field of special equipment manufacturers—your assurance of continued effective service.*

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PRINTED IN U.S.A.