

DELTA ▲

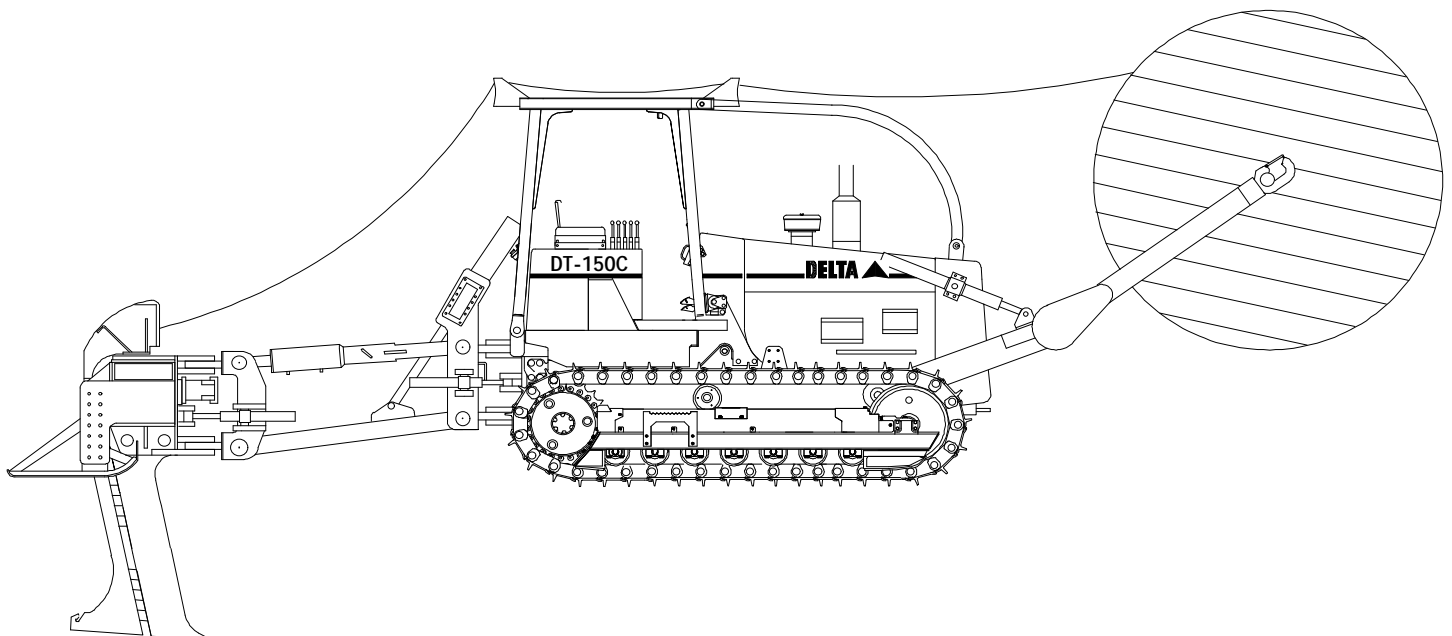
DT-150C

HIGH PRODUCTION TRACK MOUNTED CABLE PLOW

Dependable Caterpillar® Components With
Worldwide Parts, Service and Customer
Support.

Complete Hydrostatic Drive Machine Matches
Speed and Vibration to Plow Conditions

Easy to Operate Single
Lever Controls and Clearly
Marked Instruments.



BASIC TRACTOR

ENGINE

Make and Model	Cat® 3116T DITA Turbo
Type of Fuel	No. 2 Diesel
No. of Cylinders	6 cylinder inline
Bore and Stroke	4.13" x 5.0"
Displacement	6.6 liters (403 cubic in.)
Compression Ratio	17:1
Fuel Induction	Direct Injection
Fuel Supply	Indiv. Adjustment Free injectors
Air Cleaner	Dry Type, Replaceable Dual Elements
Oil Filter	Full Flow, spin on type
Lubrication	Pressure Lubrication
Cooling System, hyd.	Heavy Duty Air to Oil Cooler.
Horsepower	177 h.p.
Max Torque	480 ft. lbs.

POWERTRAIN

A powerful 6 cylinder Cat® 3116 turbocharged engine drives the Delta Machine closed loop hydrostatic system which provides smooth turns dynamic braking and smooth modulation for steering and directional control.

DELTA HYDROSTATIC DRIVE SYSTEM

The Cat 3116® engine provides torque to the pumps through the pump drive gear box. The pump drive is directly coupled to the engine. Four pumps are driven to provide oil for the ground drives, the mower, the implement cylinders and the brake-clutch steering controls. The variable displacement piston pump develops flow through heavy duty hoses to the variable displacement motor. The motor is coupled to a two speed gear box. This unique combination, controlled by single lever phasing system, provides precise control for speed and torque. Maximum system pressure is controlled through a pressure limiting valve in combination with the pump.

STEERING AND BRAKING

Hydraulically released, multiple disc dry clutches and self energizing brake band. Two pedal design is standard. Partially depressing left or right pedal slows that track, causing machine to turn smoothly in that direction. Mechanically activated parking brake can lock one or both tracks. A toggle switch on the dash, in conjunction with depressed foot pedal(s), activates the parking brake.

FINAL DRIVES

Double Reduction final drive of spur and planetary gears minimize transmission of shocks to powertrain components. Segmented sprocket rims are bolt-on type for easy replacement in the field.

FILTRATION

Four high capacity 10-micron, full flow spin-on replaceable element filters service the hydraulic system.

TRAVEL SPEED/ DRAWBAR PULL

Gear	Speed	Max. Pull
Low	0-2.5 mph	48,000 lbs.
High	0-5.8 mph	18,000 lbs.

COOLING SYSTEM

A large diameter fan and full length, water-cooled cylinders combine with excellent thermal efficiency, minimize heat rejection to prevent overheating, and thereby promote long engine life.

UNDERCARRIAGE

•LGP MODEL 6 roller frame LGP arrangement

Low ground pressure LGP undercarriage offers a wider and longer track, increasing ground contact area for optimum flotation and greater stability on sloping terrain. The track is sealed and lubricated. Three ring seals work in combination to retain lubricant which reduces pin and bushing wear. This reduces maintenance costs in most material conditions. Standard hydraulic track adjusters are protected under roller frame guards. Standard two piece master link and segmented sprockets reduce maintenance costs and time. Box section roller frame is non-oscillating to resist torsional stress providing stability to the undercarriage, idlers and carrier rollers. The rollers are sealed for excellent wear life.

DELTA VIBRATORY PLOW CONTROLS

At the operator's fingertips are controls for six functions:

- 1) Cable reel raise and lower
- 2) Plow arm lift and lower
- 3) Plow swing
- 4) Plow steering
- 5) Plow attitude
- 6) Shaker speed

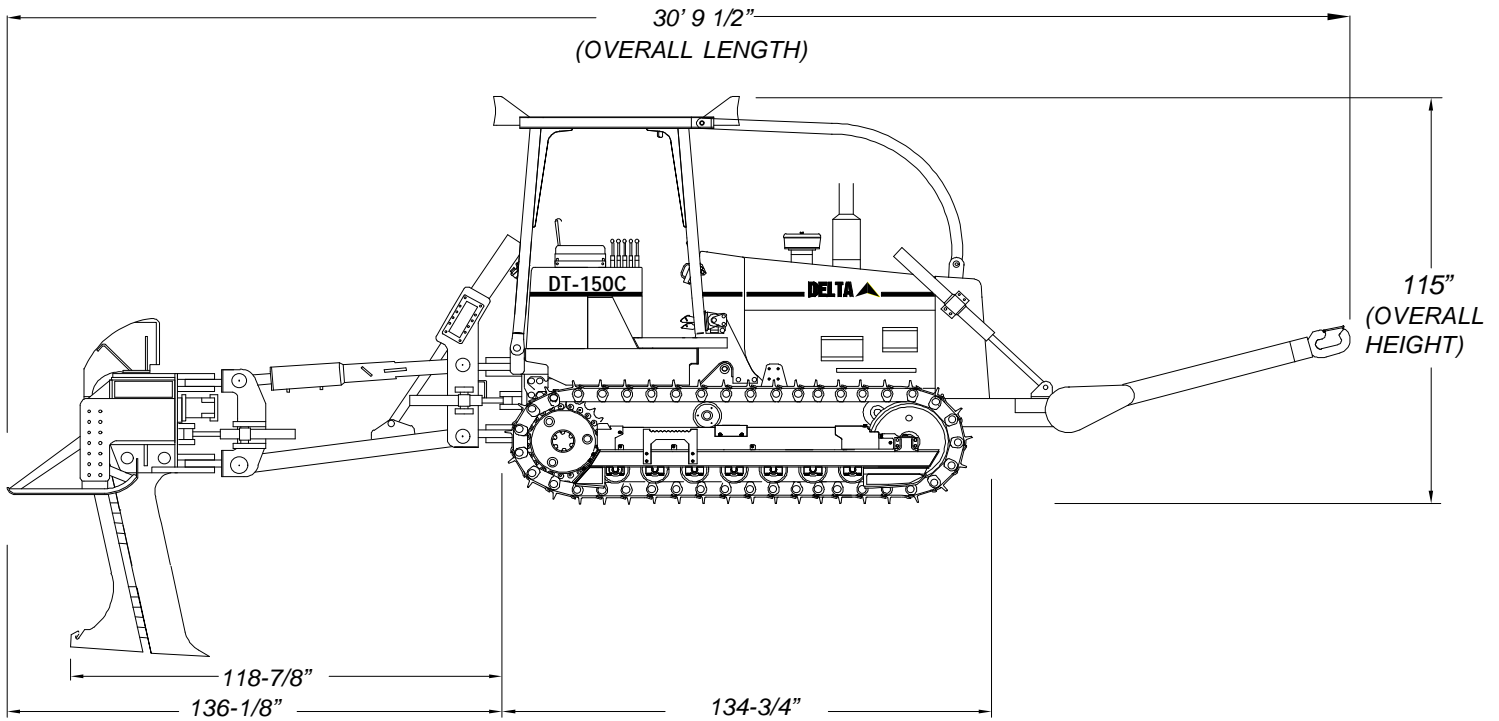
Controls for plow steering and plow arm swing allow the plow to be offset 55" off of the tractor centerline, allowing the operator to easily position the plow blade for precision cable placement. Shaker speed can be controlled from zero (0) to 1200 rpm to match vibratory power to plowing conditions for maximum plowing efficiency. Controls for plow blade attitude gives the operator a much greater degree of control over the blade depth when the plow encounters terrain with radical elevation changes. The operator is able to follow the ground contour with the blade attitude and easily maintain a constant cover depth. A more constant plowing depth results in smoother plowing and reduced ground cleanup.

HYDRAULIC COMPONENTS

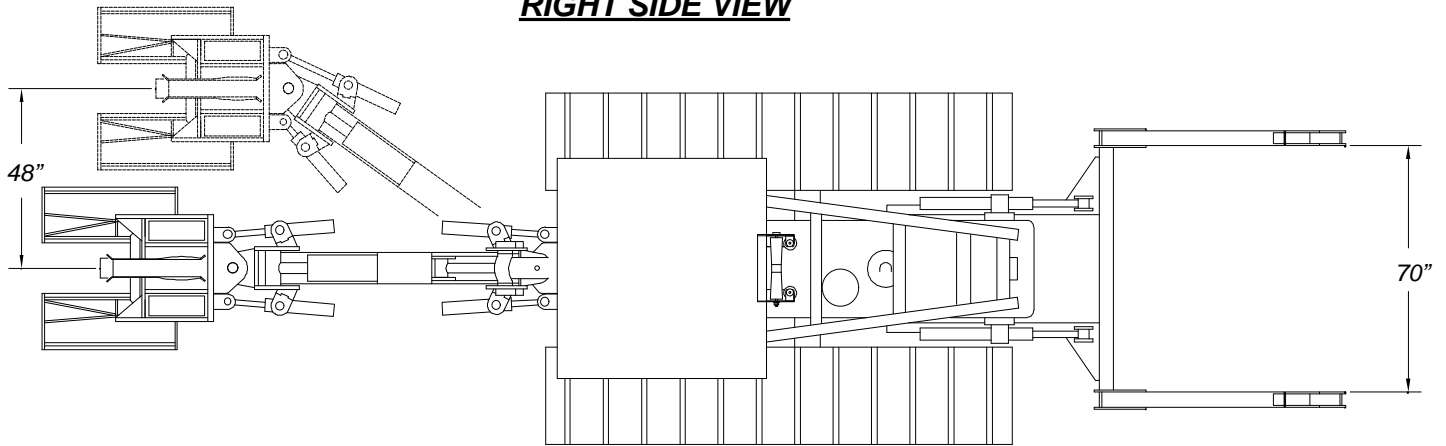
Hydraulic valves, pumps and all hose routing is completely enclosed within the sheet metal of the tractor.

1 Piston Pump	62 gpm @ 5,500 psi
1 Piston Pump	31 gpm @ 5,500 psi
1 Gear Pump	14 gpm @ 2,500 psi
1 Gear Pump	6 gpm @ 2,500 psi

DIMENSIONS AND SPECIFICATIONS



RIGHT SIDE VIEW



OVERHEAD VIEW

VIBRATORY PLOW

Plow Blade size	2" thick x 11" wide
Chute Size	1.5" through 4" ID
Material	T-1 steel, A514
Plowing Depth	24" through 48"
Offset	55" right or left of center
Optional Plow accessories:	Warning tape holder and guide Gas pipe or cable chutes available

REEL WINDER

Reel Carrier is designed to operate with single or dual reels.

Max Lift Capacity	8,000 lbs.
Max. Reel Width	89" (single reel)
Max. Reel Diameter	96"
Reel Shaft Diameter	2.5"
Optional Power unwind is available	
Reel shafts rotate on bearings for minimum cable tension.	

