

**DELTA** ▲

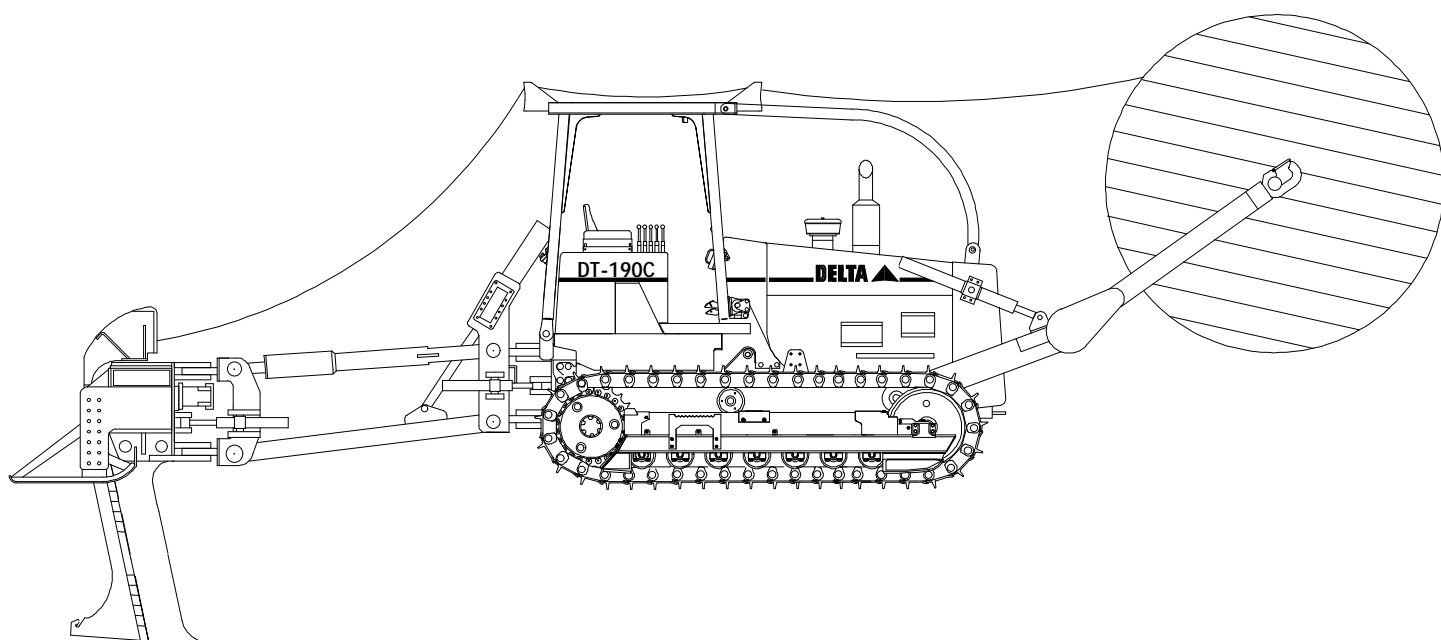
**DT-190C**

***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	200 h.p.
Max Torque	542 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	53,000 lbs.
High	0-5.8 mph	20,000 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

### •XL MODEL 7 roller frame LGP arrangement

Low ground pressure XL 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

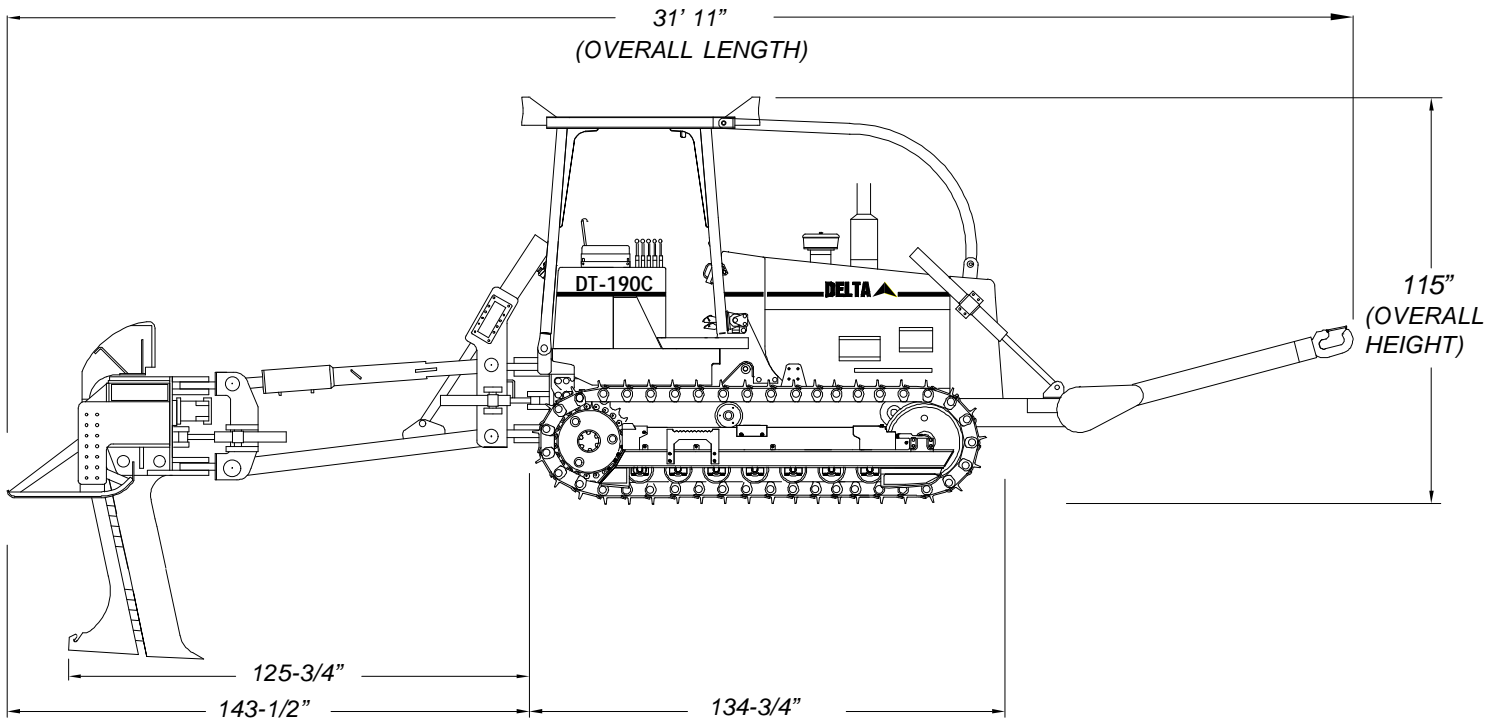
Controls for plow steering and plow arm swing allow the plow to be offset 55" off of the tractor centerline, allowing the operator to easily position the plow blade for precision cable placement. Shaker speed can be controlled from zero (0) to 1600 rpm to match vibratory power to plowing conditions for 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

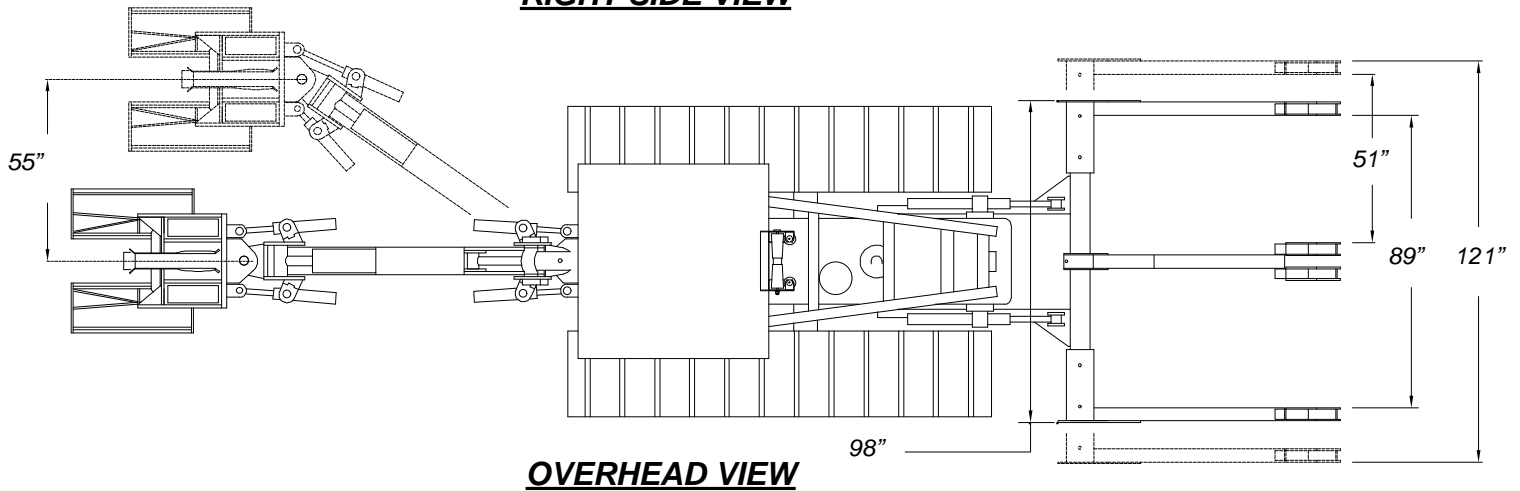
Hydraulic valves, pumps and all hose routing is completely enclosed within the sheet metal of the tractor.

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



## **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	9,500 lbs.
Max. Reel Width	51" (ea. dual reels) 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.	

# EQUIPMENT DATA

## PLOW SPECIFICATIONS

Offset	55"
Weight	8,000 lbs.
Blade Thickness	2"
Plowing Depth	48"

The Delta Hydrostatic drive shaker will deliver up to 60,000 lbs. of force @ 1600 rpm. 15" x 34" tamping skids(standard) allow the plow to follow the ground contour and minimize cleanup. Vibratory force is isolated from the tractor. The structural components are made of T-1 steel. All pivot points are manufactured with replaceable aluminum\bronze bushings for extra long life.

## ROPS

ROPS canopy required in the U.S.A.  
ROPS (Roll over Protection structure) offered by Caterpillar® for this machine meets ROPS criteria SAEJ1040-MAY 94 and ISO 3471-1994. It also meets Falling Object Protective structure (FOPS) criteria SAEJ395a, SAEJ231-JAN81, and ISO 3449-1992.

Features include:

- Sound Supression headliner
- Wide angle rearview mirror

## CAPACITIES

Fuel Tank	44 Gal.
Crankcase and filter	3.2 Gal.
Transmission	7.4 Gal.
Final Drives	2.6 Gal.
Cooling System	5.3 Gal.
Hydraulic Tank	28 Gal.
Bevel Gear Case	4 Gal.
Steering Brake Clutch Compartments (ea.)	7.4 Gal.

## DIMENSIONS (LGP STANDARD)

Track Gauge	68"
Operating Height	115"
Machine Width	98"
Machine Length	32'
Ground Clearance	14.2"
Weight (Tractor Only)	21,400
(Complete)	31,000

## CYLINDER SPECIFICATIONS

Heavy Duty Lift	One 5" Bore 2.5" Rod
Swing	Two 3" Bore 1.5" Rods
Steering	Two 3" Bore 1.5" Rods
Attitude Cylinder	One 6" Bore 3" Rod

Heavy duty cylinders are custom made to exacting specifications for Delta Plows.

## STANDARD EQUIPMENT

Air Cleaner, Dry Type w/ precleaner	Hydrostatic transmission dual path, closed loop
Air to Oil transmission cooler	Fuel Priming pump
Alternator, 55-amp	Parking brake-manual
Arm Rests 4-way adjustable	Tool box with hinged lid
Battery, 12 volt maintenance free,	Track: XL LGP - 7 roller.
Seat, vinyl, suspension with adjustable backrest and seat belt.	Adjusters,hydraulic.
Engine Enclosures	Front/rear guiding guards.
Gauges, illuminated, dash mounted showing water temperature, engine oil pressure,hydraulic oil temperature and fuel level.	Sealed and lubricated, two- piece master links.
Indicator	Shoes, single grouser LGP-(30" wide) 39 Section
Lights: alternator indicator	Guards, bottom
Vandalism Protection	Guards, recoil full length w/ sprocket guards
Hydraulic controls	and wipers
Muffler	Lifetime lubricated rollers and idlers
Pull hook, front.	Segmented Sprockets
Service Hour Meter	

## OPTIONAL EQUIPMENT

Cab ROPS and mounting, air conditioner, heater, sunvisor, keylocks  
Skid Screens (for use with ROPS canopy)

## DELTA EQUIPMENT-ORIGINAL EQUIPMENT MANUFACTURER

Major tractor frame and driveline components furnished by  
**Caterpillar® Industrial Products Incorporated.**

Engine by **Caterpillar®**

Hydraulic Shaker Box Pump and Motor by **Sauer/Sundstrand.**

Delta Equipment, LLC. reserves the right to change these specifications without notice and without incurring any obligation relating to such changes. Unit illustrated may be equipped with non-standard equipment.



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**Worldwide Service**