

# EQUIPMENT DATA

### Plow Specifications

Offset	5.5"
Weight	6,500 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. Aluminum/bronze bushing are used for extra long life.

### ROPS

ROPS canopy required in the U.S.A. ROPS (Roll over Protection structure) for this machine meets ROPS criteria SAEJ1040-MAY and ISO 3471. It also meets Falling Object Protective structure (FOPS) criteria SAEJ395a, SAEJ231, and ISO 3440. Features Include:

### CAPACITIES

Fuel Tank	44 Gal.
Crankcase and Filter	3.2 Gal.
Transmission	7.4 Gal.
Axles	2.6 Gal.
Cooling System	5.3 Gal.
Hydraulic Tank	38 Gal.

### DIMENSIONS

Track	76"
Operating Height	119"
Machine Width	102"
Machine Length	29'
Ground Clearance	24"
Weight (Complete)	35,000 lbs. Basic

### 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/Pre-Cleaner	Hydrostatic Drive; closed loop
Air to Hydraulic Oil Cooler	Fuel Priming Pump
Alternator, 85-amp	Parking Brake-Manual
Arm Rests 4-way adjustable	Track: XL LGP—7 Roller
Battery, 12 volt maintenance free	Adjustors, hydraulic,
Seat, vinyl, suspension w/ Adjustable backrest & seatbelt.	Sealed, lubricated, two piece master links
Engine Enclosures	Shoes, single grouser
Gauges, illuminated, dash mounted	LGP-(26" wide)
Showing water temperature,	Lifetime lubricated
Engine oil pressure, hydraulic oil	roller and idlers
Temperature and fuel level.	Segmented Sprockets
Indicator	
Lights: alternator indicator	
Vandalism Protection	
Hydraulic Controls	
Muffler	
Tow cable front	
Service Hour Meter	

### DELTA PLOWS—ORIGINAL EQUIPMENT

#### MANUFACTURER

Driveline components furnished by Caterpillar Industrial Products Incorporated. Hydraulic Shaker Box Pump and Motor by Sauer/Sundstrand.

Delta Plows reserve the right to change these specifications without notice and without incurring an obligation relating to such changes. Unit illustrated may be equipped with non-standard equipment.

## DELTA PLOWS

Sales ~ Parts ~ Rentals

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# DELTA PLOW

DT-196XR

## High Production Quad Track 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® C-7 DITA Turbo
Types of Fuel	No. 2 Diesel
No. of Cylinders	6 cylinder Inline
Bore and Stroke	4.3” x 5.0”
Displacement	7.2 liters
Compression Ratio	17:1
Fuel Induction	Electronic 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	230 h.p.
Max Torque	670 ft. lbs.

POWERTRAIN

A powerful 6 cylinder CAT® C-7 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® C-7 engine provides torque to the pumps. The pump drive is directly coupled to the engine. Three pumps are driven to provide oil for the ground drives, the implement cylinders and the plow. The variable displacement piston pump develops flow through heavy duty hoses to the motor. The piston motor is coupled to a two speed gear box. This unique combination controlled by a phasing system provides precise control for speed and torque. Maximum system pressure is controlled through a pressure limiting valve in combination with the pump.

PLANTETARY AXLES

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

Gear	Speed	Max. Pull
Low	0-2.5 mph	53,000 lbs.
High	0-5.0mph	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.

QUAD UNDERCARRIAGE

XL MODEL 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 non-oscillating to resist torsional stress providing stability.

The undercarriage is a CAT D4 High Track Design; featuring a 4-Roller Design on the rear; 69’ track on ground length and a 3-Roller Design on the front; 60’ track on ground length. Our quad incorporates front and rear steering; both axles steer through 24° left and right and front axle pivots through 18° up and down. Each track assembly oscillates 20° up and down.

DELTA VIBRATORY PLOW CONTROLS

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

1) Cable reel raise and lower

4) Plow steering

2) Plow arm lift and lower

5) Plow attitude

3) Plow swing

6) Shaker speed

Controls for plow steering and plow arm swing allow the plow to be offset 55” off the tractor centerline, allowing the operator to easily position the plow blade for prevision cable placement. Shaker speed can be controlled from 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 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

90 gpm @ 5,500 psi

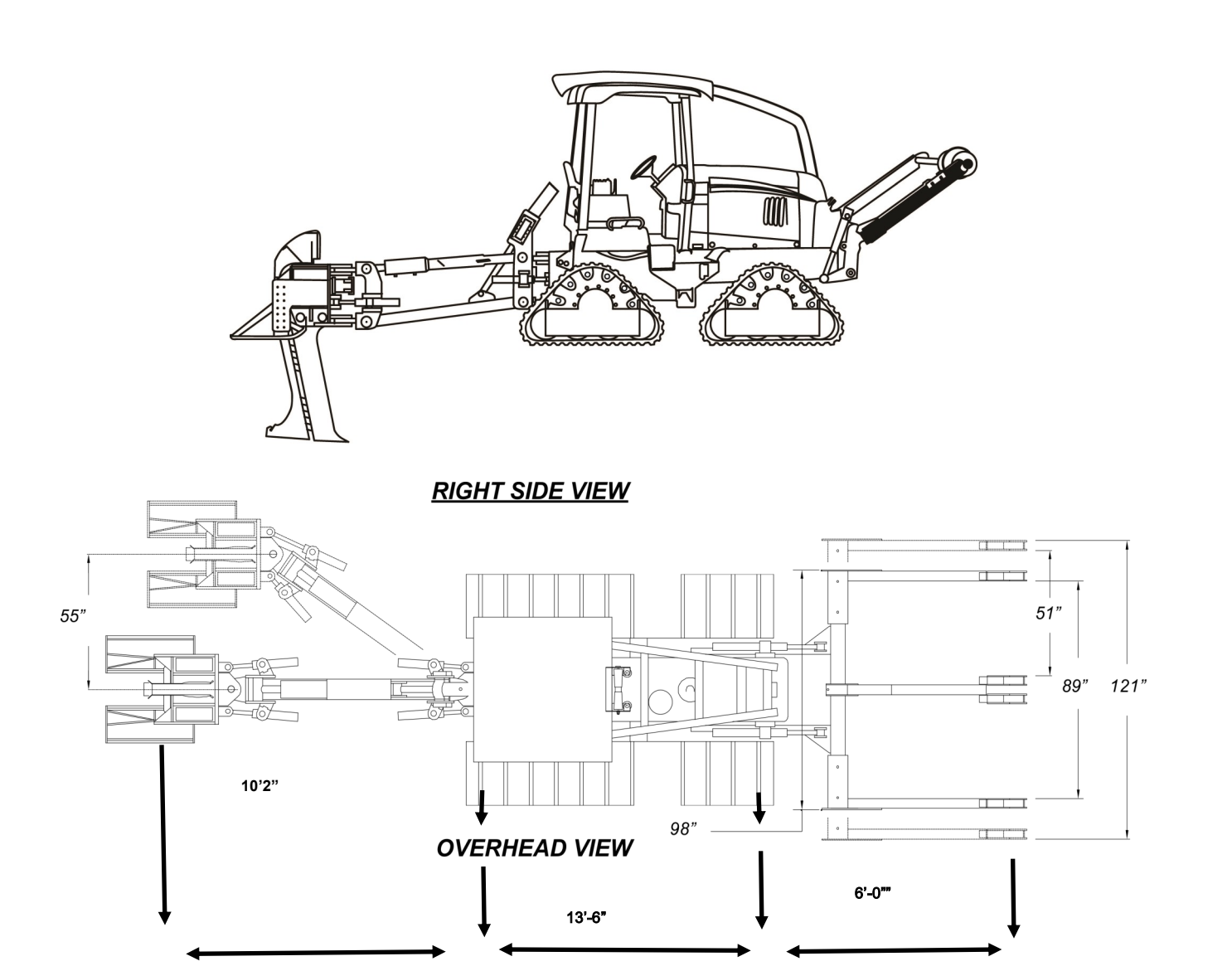
1 Piston Pump

31 gpm @ 5,500 psi

1 Gear Pump

10 gpm @ 2,500 psi

DIMENSIONS AND SPECIFICATIONS



Vibratory Plow

Plow Blade Size	2” thick x 11” wide
Chute Size	1.5” through 4” ID
Material	T-1 Steel
Plowing Depth	24” through 48”
Offset	55” Right or left of center
Optional Plow Accessories:	Warning Tape Holder & Guide Gas Pipe or Cable Chutes Available

Reel Winder

Reel Carrier is designed to operate with single or dual reels.	
Max. Lift Capacity	9,000 lbs.
Max Reel Width	47” (ea. dual reels) 89” (single reel)
Max. Reel Diameter	84”
Reel Shaft Diameter	2.5”
Optional Power Unwind is available	
Reel shafts rotate on bearings for minimum cable tension.	