

DELTA

DT-523C

HIGH PRODUCTION, TRACK MOUNTED STUMP GRINDER\BRUSH RAKE

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

Hydrostatic Drive for Maximum Utilization of
Machine.

Joystick Control for Ease of Operation.

180° Swivel Seat with Easily Accessible Controls
in Forward or Backward Position.



BASIC TRACTOR

ENGINE

| | |
|----------------------|-------------------------------------|
| Make and Model | Cat® 3126T DITA Turbo |
| Type of Fuel | No. 2 Diesel |
| No. of Cylinders | 6 cylinder inline |
| Bore and Stroke | 4.33" x 5.0" |
| Displacement | 7.2 liters (450 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 | 230h.p. @2400 rpm |
| Max Torque | 660 ft. lbs. @1400 rpm |

POWERTRAIN

A powerful 6 cylinder Cat® 3126 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 engine provides torque to the pumps through the pump drive gear box. Three pump drives are directly coupled to the Cat 3126. Four pumps are driven to provide hydraulic oil for the ground drives, the stump grinder disk pump, the rake or dozer blade cylinders and the brake/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 control for maximum speed and torque. Maximum system pressure is controlled through a patented pressure limiting valve in combination with the pump.

CONTROLS

The operator's seat is designed to swivel 180 degrees to allow operation of the tractor in either position. Two axis joystick in front position controls the rake or blade movement. Two axis joystick in rear position controls feed rate and depth of cut.

•Front Position

The steering is controlled by foot pedals. Operator has full view of the operation of the rake or dozer blade. All controls are placed for the operator's convenience.

•Rear Position

The operator has full view of the operation of the stump grinder disk. All controls are placed for the operator's convenience.

FINAL DRIVES

Double Reduction final drive of spur and planetary gears minimize transmission of shock 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.

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.

TRAVEL SPEED

| Gear | Speed |
|------|---------------|
| Low | 2.5 mph (max) |
| High | 5.8 mph (max) |

VANDALISM PROTECTION GUARDING

Panel folds down under the dash for storage and raised over the dash and padlocked when machine is not in use.

UNDERCARRIAGE

Components designed to provide maximum performance and wear life.

•LGP undercarriage.

Low ground pressure undercarriage offers a wider track, increasing ground contact area for optimum flotation and greater stability on sloping terrain.

•Sealed and Lubricated track

Eliminates internal pin and bushing wear for longer wear life. Standard hydraulic track adjusters are protected under roller frame guards. Standard two piece master link and segmented sprockets reduce maintenance cost 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.

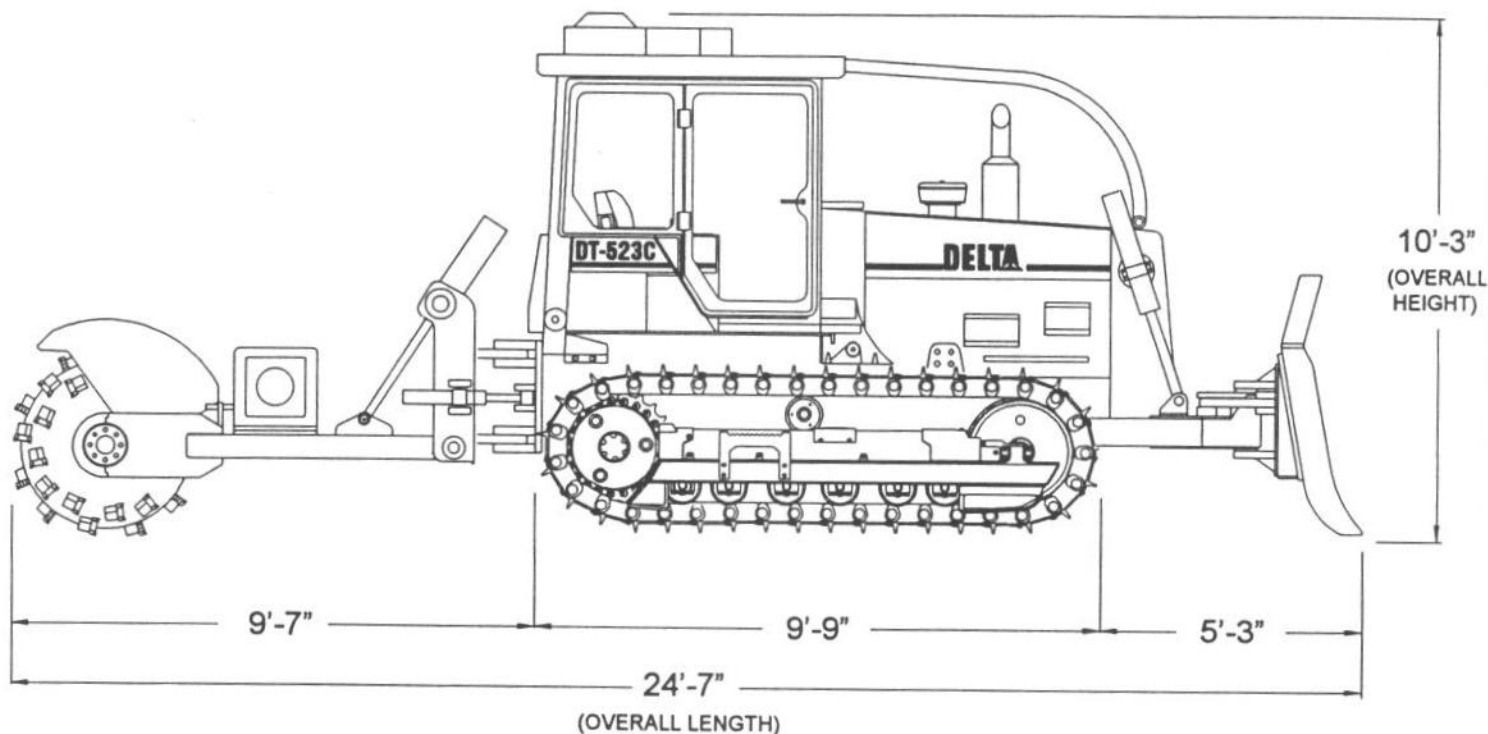
•Full length recoil guarding.

Guarding comes with sprocket guards and wipers. This assists in reducing material buildup and helps prevent material from entering the undercarriage system for maximum component wear life.

•Front and rear Track guiding guards.

Guards provide additional protection from abrasive material. Rear guards are a bolt-on design making installation and removal easy.

DIMENSIONS AND SPECIFICATIONS



*UNIT ILLUSTRATED IS EQUIPPED WITH DELTA ROOT RAKE

DELTA STUMP GRINDER SPECIFICATIONS

| | |
|-------------------------------|--------------------------------------|
| Stump Grinder Disk | 36" dia. T-1 steel |
| Rpm | 0-750 (variable speed) |
| h.p. | 175 Sauer-Sundstrand hydraulic motor |
| No. of teeth | 24 |
| Cutter teeth | Mining grade tungsten carbide |
| Stump Grinder disk Drive Belt | Gates PolyChain GT |
| Material discharge chute | 1/4" T-1 steel |

The Delta Machine Stump Grinder is designed to maximize production through heavy duty construction, high horsepower and ease of control of the tractor and stump grinding disk.

All of the structural components on the stump grinder are manufactured of high tensile strength T-1 steel. The oversize shaft and heavy duty tapered roller bearings which support the cutter disk are designed to withstand the heavy continuous loads typically encountered in stump grinding.

The stumpgrinder teeth are manufactured of mining grade tungsten carbide and are designed to provide maximum chip load w/ minimum wear. Side cutting teeth are reversible in order to double continuous production time before teeth require replacement.

The tooth holders are a one bolt design with integral registration pins to minimize tool replacement times while maintaining maximum tool stability in the holder.

RANGE OF MOTION-CUTTER DISK

| | |
|-------|---------------------------------|
| Down | 36" below ground level |
| Up | 50" above ground level |
| Right | 48" right of machine centerline |
| Left | 48" left of machine centerline |

The operator is allowed a clear view of the stump grinding operation through the rear window of the cab. The movement of the stump grinding disk is controlled with a joystick that is positioned for use by the operators right hand and provides precise placement and maximum control.

The rpm lever is positioned to fit in the operators left hand and controls the disk rpm from 0-750 rpm.

IMPLEMENT OPTIONS

Heavy Duty Delta Root Rake

| | |
|--------------|------------------|
| Height | 56" |
| Width | 100" |
| No. of tines | 8 tines 2" thick |

Rake is designed for heavy duty material cleanup and for evenly distributing wood mulch over the clearing site.

Heavy Duty Delta Dozer Blade

| | |
|--------|--------------------------|
| Height | 38" |
| Width | 106" |
| Angle | 25 degrees right or left |
| Tilt | 12 degrees up or down |

Blade is heavy duty; tree, tops, stumps and earth are handled with ease.

The Delta Root Rake and Delta Dozer Blade are designed to be easily interchanged on the permanent

EQUIPMENT DATA

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. |

DIMENSIONS

| | |
|--------------------|-------------|
| Track Gauge | 68" |
| Operating Height | 10' 3" |
| Machine Width | 96" |
| Machine Length | 27' 9" |
| Ground Clearance | 14' 2" |
| Weight (Complete) | 30,000 lbs. |

STANDARD EQUIPMENT

| | |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Air Cleaner, Dry Type w/ precleaner | Hydraulic controls |
| Air to Oil transmission cooler | Guards, bottom |
| Alternator, 55-amp | Guards, recoil full length w/ sprocket guards and wipers |
| Arm Rests 4-way adjustable | Hydrostatic transmission closed loop |
| Battery, 12 volt maintenance free, | Service Hour Meter |
| Seat, vinyl, suspension with adjustable backrest and seat belt. | Pull hook, front. |
| Engine Enclosures, | Muffler |
| Gauges, illuminated, dash mounted showing water temperature, engine oil pressure hydraulic oil temperature fuel level. | Lifetime lubricated rollers and idlers |
| Indicator | Segmented Sprockets |
| Lights: alternator indicator | Fuel Priming pump |
| Parking Brake indicator | Parking brake-manual |
| Vandalism Protection | Tool box with hinged lid |
| Cab, includes air conditioner, heater, rearview mirror, keylocks | Track: LGP - 6 roller. Adusters, hydraulic. Front/rear guiding guards. Sealed and lubricated, two-piece master links. |
| Hydraulic Hose Sleeves | Shoes, single grouser LGP-(26" wide) 39 Section |

OPTIONAL EQUIPMENT

| |
|---------------------------------------------------------------------------------|
| Skid Screens |
| Root Rake w/ Grapple Attachment |
| Electronic Data Logging (records overspeed, over temperature and over pressure) |

CYLINDER SPECIFICATIONS

| | |
|------------------|-----------------------|
| Heavy Duty Lift | One 3" Bore 1.5" Rod |
| Heavy Duty Swing | Two 3" Bore 1.5" Rods |

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

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.

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

Engine by Caterpillar®

Hydraulic components used on Stump Grinder, Pump and Motor, by Sauer/Sundstrand.

RELIABLE COMPONENTS MEANS RELIABLE PERFORMANCE.

IMPORTANT

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.



Sales • Parts • Renting

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