## ENGINE

<table>
<thead>
<tr>
<th>Make and model</th>
<th>TD-9S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emissions standard</td>
<td>EPA Tier 4F/EU Stage IIIB</td>
</tr>
<tr>
<td>Displacement</td>
<td>3.8 l (229 in³)</td>
</tr>
<tr>
<td>Bore and stroke</td>
<td>107 x 115 mm (4.2 in. x 4.53 in)</td>
</tr>
<tr>
<td>Gross horsepower, SAE J1995</td>
<td>89 kW (120 hp)</td>
</tr>
<tr>
<td>Net horsepower, SAE J1349/ISO 9249</td>
<td>84 kW (113 hp)</td>
</tr>
<tr>
<td>Rated rpm</td>
<td>2200</td>
</tr>
<tr>
<td>Max. torque</td>
<td>448 Nm (360 ft-lb) @ 1600 rpm</td>
</tr>
<tr>
<td>Air cleaner</td>
<td>2-stage, dry type with service indicator</td>
</tr>
</tbody>
</table>

## COOLING

<table>
<thead>
<tr>
<th>Type</th>
<th>Variable-speed fan with viscous fan clutch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine coolant rating</td>
<td>-37 deg C (~34 deg F)</td>
</tr>
</tbody>
</table>

## OPERATOR STATION

<table>
<thead>
<tr>
<th>ROPS</th>
<th>ROPS (ISO 3471 - 2008)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOPS</td>
<td>FOPS (ISO 3449 - 2005)</td>
</tr>
</tbody>
</table>

## HYDRAULICS

<table>
<thead>
<tr>
<th>Type</th>
<th>Open-center hydraulic system with fixed-displacement tandem gear pump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump displacement</td>
<td>69.6 l/min (18.4 gpm)</td>
</tr>
<tr>
<td>System relief pressure</td>
<td>20000 kPa (2900 psi)</td>
</tr>
<tr>
<td>Control</td>
<td>3-function direct-acting T-bar joystick</td>
</tr>
<tr>
<td>Cylinders, bore and stroke</td>
<td></td>
</tr>
<tr>
<td>lift</td>
<td>89 x 449 mm (3.5” x 17.7”)</td>
</tr>
<tr>
<td>angle</td>
<td>76 x 352 mm (3.0” x 13.9”)</td>
</tr>
<tr>
<td>tilt</td>
<td>89 x 144 mm (3.5” x 5.7”)</td>
</tr>
</tbody>
</table>

## ELECTRICAL

<table>
<thead>
<tr>
<th>Voltage</th>
<th>12 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Capacity</td>
<td>815 CCA</td>
</tr>
<tr>
<td>Reserve Capacity</td>
<td>170 min.</td>
</tr>
<tr>
<td>Alternator Rating</td>
<td>120 A</td>
</tr>
<tr>
<td>Lights</td>
<td>front- ROPS or cab (2), rear (1)</td>
</tr>
</tbody>
</table>

* LT - LONG TRACK, LGP - LOW GROUND PRESSURE
## MACHINE DIMENSIONS

<table>
<thead>
<tr>
<th>Blade Type</th>
<th>TD-9S LT</th>
<th>TD-9S LGP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6-WAY</td>
<td>6-WAY</td>
</tr>
<tr>
<td>A Overall Height - Cab ROPS/FOPS</td>
<td>2.851 m (9 ft 5 in)</td>
<td>2.851 m (9 ft 5 in)</td>
</tr>
<tr>
<td>B Grouser height</td>
<td>53.6 mm (2.11 in)</td>
<td>53.6 mm (2.11 in)</td>
</tr>
<tr>
<td>C Ground clearance</td>
<td>426 mm (16.7 in)</td>
<td>426 mm (16.7 in)</td>
</tr>
<tr>
<td>D Overall length, base machine</td>
<td>3.22 m (10 ft 7.6 in)</td>
<td>3.22 m (10 ft 7.6 in)</td>
</tr>
<tr>
<td>E Length with Blade</td>
<td>4.38 m (14 ft 5.5 in)</td>
<td>4.38 m (14 ft 5.5 in)</td>
</tr>
<tr>
<td>E1 Length with Blade and Ripper</td>
<td>5.5 m (18 ft 1 in)</td>
<td>5.5 m (18 ft 1 in)</td>
</tr>
<tr>
<td>F Blade Lift Height</td>
<td>0.85 m (33.5 in)</td>
<td>0.85 m (33.5 in)</td>
</tr>
<tr>
<td>G Blade Digging Depth</td>
<td>0.45 m (17.7 in)</td>
<td>0.45 m (17.7 in)</td>
</tr>
<tr>
<td>H Blade Cutting-Edge Angle, Adjustable</td>
<td>8 deg (52 to 60 deg)</td>
<td>8 deg (52 to 60 deg)</td>
</tr>
<tr>
<td>I Blade Width</td>
<td>2885 mm (9 ft 5.4 in)</td>
<td>3342 mm (10 ft 11.5 in)</td>
</tr>
<tr>
<td>J Blade Height</td>
<td>1020 mm (3 ft 4.2 in)</td>
<td>990 mm (3 ft 3 in)</td>
</tr>
<tr>
<td>SAE Capacity</td>
<td>2.2 m³ (2.9 yd³)</td>
<td>2.4 m³ (3.1 yd³)</td>
</tr>
<tr>
<td>K Blade Angle</td>
<td>25 deg</td>
<td>25 deg</td>
</tr>
<tr>
<td>L Overall Width with Blade Angled</td>
<td>2.64 m (8 ft 8 in)</td>
<td>3.06 m (10 ft 3 in)</td>
</tr>
<tr>
<td>M Blade Tilt</td>
<td>0.35 m (13.8 in)</td>
<td>0.4 m (15.7 in)</td>
</tr>
<tr>
<td>N Track Length on Ground</td>
<td>2432 mm (7 ft 11.7 in)</td>
<td>2432 mm (7 ft 11.7 in)</td>
</tr>
<tr>
<td>O Width Over Track</td>
<td>2097 mm (6 ft 10.6 in)</td>
<td>2500 mm (8 ft 2.4 in)</td>
</tr>
<tr>
<td>P Track Gauge</td>
<td>1640 mm (64.6 in)</td>
<td>1790 mm (70.5 in)</td>
</tr>
</tbody>
</table>
**RIPPER**

**Heavy-duty parallelogram 3-shank ripper**

| Weight | 850 kg (1,874 lb) |
| Weight of Shank | 47 kg (103.6 lb) |
| Shank positions (vertical) | 2 |
| R Maximum Clearance Under Tip | 460 mm (18.1 in) |
| S Overall Beam Width | 1.81 m (5 ft 11 in) |
| T Slope Angle (full raise) | 34 deg |
| U Ripping Width | 1600 mm (5 ft 3 in) |
| V Spacing Center to Center | 800 mm (31.5 in) |
| X Maximum Penetration | 500 mm (19.7 in) |

**OPERATING WEIGHTS**

<table>
<thead>
<tr>
<th>Optional Components</th>
<th>TD-9S LT</th>
<th>TD-9S LGP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Weight (with 6-WAY blade, standard equipment, Cab ROPS/FOPS, full fuel tank, and 79-kg [175 lb] operator)</td>
<td>11000 kg (24251 lb)</td>
<td>11300 kg (24911 lb)</td>
</tr>
<tr>
<td>Ripper w/3 shanks</td>
<td>850 kg (1874 lb)</td>
<td>850 kg (1874 lb)</td>
</tr>
<tr>
<td>Track shoes</td>
<td>508 mm (20 in)</td>
<td>610 mm (24 in)</td>
</tr>
<tr>
<td>Track length on ground</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SERVICEABILITY**

<table>
<thead>
<tr>
<th>Refill capacities</th>
<th>TD-9 LT</th>
<th>TD-9 LGP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Tank</td>
<td>185 l (48 US gal)</td>
<td>185 l (48 US gal)</td>
</tr>
<tr>
<td>Cooling System</td>
<td>23 l (6 US gal)</td>
<td>23 l (6 US gal)</td>
</tr>
<tr>
<td>Engine Oil</td>
<td>11 l (2.7 US gal)</td>
<td>11 l (2.7 US gal)</td>
</tr>
<tr>
<td>Hydraulic Reservoir</td>
<td>116 l (30.6 US gal)</td>
<td>116 l (30.6 US gal)</td>
</tr>
<tr>
<td>Final Drive, Each Side</td>
<td>18.5 l (4.8 US gal)</td>
<td>18.5 l (4.8 US gal)</td>
</tr>
<tr>
<td>AdBlue (DEF)</td>
<td>20 l (5.3 US gal)</td>
<td>20 l (5.3 US gal)</td>
</tr>
</tbody>
</table>

**UNDERCARRIAGE**

<p>| Suspension | Rigid type |
| Tracks | large deep-heat-treated, sealed, and lubricated track links and through-hardened, sealed, and lubricated rollers for maximum wear resistance |
| Track Gauge | 1640 mm (64.6 in) | 1790 mm (70.5 in) |
| Track Shoe Width | 457 mm (18 in) | 710 mm (28 in) |
| Chain | Sealed and lubricated | Sealed and lubricated |
| Shoes, Each Side | 42 | 42 |
| Track Rollers, Each Side | 7 | 7 |
| Track Length on Ground | 2432 mm (95.7 in) | 2432 mm (95.7 in) |
| Ground Contact Area | 22374 cm² (3468 in²) | 34534 cm² (5353 in²) |
| Ground Pressure | 48 kPa (6.7 psi) | 31 kPa (4.5 psi) |
| Track Pitch | 165 mm (6.5 in) | 165 mm (6.5 in) |</p>
<table>
<thead>
<tr>
<th><strong>POWERTRAIN</strong></th>
<th><strong>TD-9S</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Transmission</strong></td>
<td>Automatic, dual-path, hydrostatic drive; automatically adjusts speed and power to match changing load conditions; each individually controlled track is powered by a variable-displacement piston pump and variable speed motor combination; ground-speed-selection on single-lever steering and direction control; independently selectable speed increments of 0.5 km/h; decelerator/brake pedal controls ground speed to stop</td>
</tr>
<tr>
<td><strong>Steering</strong></td>
<td>Single-lever steering, speed, direction control, and counterrotation; full power turns and variable track speeds provide unlimited maneuverability and optimum control; hydrostatic steering eliminates steering clutches and brakes</td>
</tr>
<tr>
<td><strong>Final Drives</strong></td>
<td>Double-reduction final drives mounted independently of track frames and dozer push arms for isolation from shock loads</td>
</tr>
<tr>
<td><strong>System Relief Pressure</strong></td>
<td>45000 kPa (6526.7 psi)</td>
</tr>
<tr>
<td><strong>Total Ratio</strong></td>
<td>48 to 1</td>
</tr>
<tr>
<td><strong>Travel Speeds Maximum</strong></td>
<td>10.5 km/h (6.5 mph)</td>
</tr>
<tr>
<td><strong>Drawbar Pull Maximum</strong></td>
<td>181 kN (40690 lb)</td>
</tr>
<tr>
<td><strong>Brakes</strong></td>
<td><strong>Service</strong> Hydrostatic (dynamic) braking stops the machine whenever direction-control lever is moved to neutral or the decelerator/brake is depressed to the detent</td>
</tr>
<tr>
<td></td>
<td><strong>Parking</strong> Exclusive spring-applied, hydraulically released park brake feature engages wet, multiple-disc brakes automatically whenever the engine stops, the operator depresses the decelerator pedal to the brake position, the unit is in neutral for 3 seconds (with detected motion), or the park-lock lever is in the park position; machine cannot be driven with brake applied, minimizing wearout or need for adjustment</td>
</tr>
</tbody>
</table>
STANDARD EQUIPMENT TD-9S

ENGINE & COOLING
Cummins engine 84 kW (113 hp) QSF3.8 EPA Tier 4F / EU Stage IIIB emission certified, turbocharged, high pressure injection (XPI), EGR, DRT, SCR, DEF after-treatment, electronic controls (ECM).
Water separator, fuel system
Air cleaner: Cummins Filtration Direct Flow, dry type, pre cleaner and service indicator.
Antifreeze, -34°F (-37°C)
Cooling module: includes radiator, oil cooler and charge air cooler (CAC); isolation mounted
Fan: viscosity clutch driven, variable speed

DRIVETRAIN
Dual path Hydrostatic Drive system
Variable piston pump: tandem
Two hydraulic motors
Two-step final drives
Brakes: multi disc, spring applied/hydraulic release, on final drives
Steering: left hand single lever control T-handle joystick

OPERATOR’S ENVIRONMENT
Cab with A/C, heater, pressurizer, defroster, AM/FM radio ready
Cab with 2 post ROPS, with sound suppression, 4 wipers w/washers, inside mirror, dome light, tinted safety glass and air recirculation system (approved according to ROPS – SAE J1040 and FOPS – SAE J231)
Brake/decelator foot operated pedal
Seat: suspension type, fabric cover, with adjustable arm rests
Seat belt: (SAE J386) – 3 in wide, retractable
Sun visor for front cab window
Cup holder and lunch box
Tools compartment

HYDRAULIC CONTROLS
Hydraulics, 4-spool valve, 4th section plugged
RH blade control
T-handle joystick, ready for ripper

INSTRUMENTATION
Gauges: fuel level, engine coolant temperature, engine oil pressure, drive train system oil temperature, voltmeter, hour meter, tachometer, engine ECM failure warning lights and switches, gear, range, drive train and engine diagnostic display
Warning lights: air cleaner filter, drive train oil filters, hydraulic oil filters, coolant high temperature, drive train oil high temperature
Audible and visual warning system: low engine coolant level, low engine oil pressure

ELECTRICAL
Alarm: back-up, 2 level sound
Alternator: 120 A
Dual batteries: 12 V, 960 CCA, cold start, maintenance free
Horn, electric
Lights for cab: 2 front, 2 rear, halogen type
Starting: 12 V
Starting aid: air grid heater

GUARDS
Crankcase (hinged) with front pull hook: transmission, fan, radiator and sprocket rock and dirt deflector
Engine hood: sloped, partially perforated
Engine side doors: partially perforated
Final drive seal guard
Radiator guard doors: louvered, one-piece, bolted

UNDERCARRIAGE (LT)
Track adjusters: hydraulic
Track chains: sealed and lubricated (LTS) with split master links (42 links)
Track frame covers
Track frame: 7 roller, 1,640 mm (65 in) gauge, rigid type, lifespan lubricated rollers and idlers, front and rear chain guides
Track shoes: 457 mm (18 in), single grouser

UNDERCARRIAGE (LGP)
Track adjusters: hydraulic
Track chains: sealed and lubricated (LTS) with split master links (42 links)
Track frame covers
Track frame: 7 roller, 1,790 mm (70 in) gauge, rigid type, lifespan lubricated rollers and idlers, front and rear chain guides
Track shoes: 711 mm (28 in), single grouser

OTHER STANDARD EQUIPMENT
Diagnostic centers for power train and equipment hydraulic pressures
Ecological drains for engine oil, radiator coolant and hydraulic oil
Manuals, parts and operator’s filters, with ‘spin-on’ elements, engine oil, power train, retrieval hitch
OPTIONAL EQUIPMENT TD-9S

BLADE EQUIPMENT
Angle (6-way), 2.2 m³ (2.9 yd³), inside arm with hydraulic tilt and angle blade width – 2,885 mm (113 in.)
Angle (6-way), 2.4 m³ (3.1 yd³), inside arm with hydraulic tilt and angle blade width – 3,342 mm (132 in.)

REAR MOUNTED EQUIPMENT
Ripper, multi-shank beam, with three shanks, includes deduct for standard retrieval hitch

TRACK SHOES
508 mm (20 in) shoes, single grouser
660 mm (26 in) shoes, single grouser

OPERATOR’S ENVIRONMENT
Heater/pressurizer/defroster cab without air conditioner (A/C)
For use with cab
• AM/FM CD radio
• Exterior mirrors (2 pcs)
• Sun visors for side door windows (2 pcs)
• Additional adjustable working lights (2 pcs), ROPS mounted
• Cab lights, LED
Canopy ROPS/FOPS
Includes deduction for standard cab and air conditioner. Includes vinyl seat and instrument panel guard.
ROPS structure for use with sweeps
Includes deduction for standard cab and air conditioner. Includes vinyl seat and instrument panel guard.

SCREENS
Sweeps, forestry, front and rear, for standard cab with ROPS
Sweeps, forestry, front and rear, for open ROPS machine (must order ROPS structure)
Screen, rear (required for winch application) for use with sweeps
Screens for cab windows, for standard cab with ROPS (bolted)
Screening package, for open ROPS machine, includes front and rear sweeps
Includes front, side doors and rear screen (must order ROPS Structure)

GUARDS
Track roller guard, bolts to track guides

ADDITIONAL OPTIONS
1,000 h maintenance package (filters)
1,500 h maintenance package (filters)
2,000 h maintenance package (filters)

EXPORT PACKING
Export packing, drive-on/drive-off machine on the trailer
Export packing, containerized unit

SFR
Trimble Ready and Trimble Full options available
Trimble® GCS900 Grade Control Systems are available through Trimble® and Dressta dealers
Blade shaker

At Dressta we take pride in innovating to help our customers to achieve more in the jobs they do.

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