

TD-9R

CRAWLER DOZERS

EPA Tier 3/EU Stage IIIA
STANDARD, LGP

ENGINE

	TD-9R
Make and model	Cummins QSB3.3
Emissions standard	EPA Tier 3/EU Stage IIIA
Displacement	3.3 l (199 in ³)
Bore and stroke	95 x 115 mm (3.74 in x 4.53 in)
Gross horsepower, SAE J1995	74 kW (99 hp)
Net horsepower, SAE J1349/ISO 9249	69 kW (93 hp)
Rated rpm	2200
Max. torque	414 Nm (306 ft-lb) @ 1600 rpm
Air cleaner	2-stage, dry type with service indicator

COOLING

	TD-9R
Type	suction- belt driven fan with perforated engine side sheets and heavy duty louvered front grill
Engine coolant rating	-37 deg C (-34 deg F)

OPERATOR STATION

	TD-9R
ROPS	ROPS (ISO 3471 - 2008)
FOPS	FOPS (ISO 3449 - 2005)

HYDRAULICS

	TD-9R
Type	Open-center hydraulic system with fixed-displacement tandem-gear pumps
Pump displacement	69.6 l/min (18.4 gpm)
System relief pressure	15.512 MPa (2,250 psi)
Control	single joystick lever
Cylinders, bore and stroke	
lift	89 x 449 mm (3.5" x 17.7")
angle	89 x 352 mm (3.5" x 13.9")
tilt	89 x 144 mm (3.5" x 5.7")

ELECTRICAL

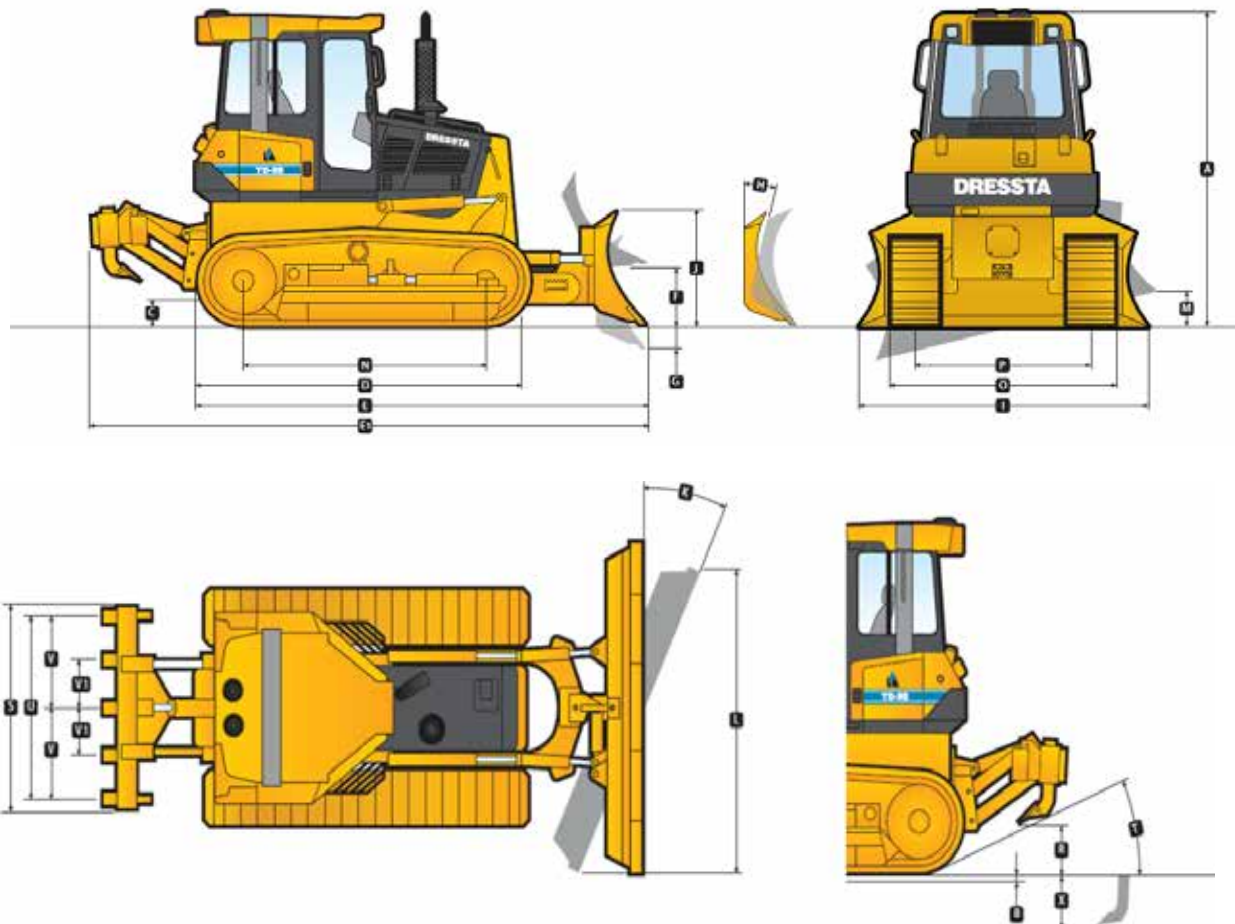
	TD-9R
Voltage	12 V
Battery Capacity	815 CCA
Reserve Capacity	170 min
Alternator Rating	120 A
Lights	front- ROPS or cab (2), rear (2)

MACHINE DIMENSIONS

TD-9R

TD-9R LGP

Blade Type	6-WAY	6-WAY
A Overall Height -Cab ROPS/FOPS	2.72 m (8 ft 11.2 in)	2.72 m (8 ft 11.2 in)
B Grouser height	53.6 mm (2.11 in)	53.6 mm (2.11 in)
C Ground clearance	381 mm (15 in)	381 mm (15 in)
D Overall length, base machine	3.05 m (10 ft)	3.05 m (10 ft)
E Length with Blade	4.48 m (14 ft 8 in)	4.48 m (14 ft 8 in)
E1 Length with Blade and Ripper	4.98 m (16 ft 3.7 in)	4.98 m (16 ft 3.7 in)
F Blade Lift Height	0.87 m (34.2 in)	0.87 m (34.2 in)
G Blade Digging Depth	0.42 m (16.5 in)	0.42 m (16.5 in)
H Blade Cutting-Edge Angle, Adjustable	8 deg (52 to 60 deg)	8 deg (52 to 60 deg)
I Blade Width	2.69 m (8 ft 10 in)	2.82 m (9 ft 3 in)
J Blade Height	993 mm (3 ft 3 in)	950 mm (3 ft 1 in)
SAE Capacity	1.87 m3 (2.45 cu yd)	1.76 m3 (2.30 cu yd)
K Blade Angle	25 deg	25 deg
L Overall Width with Blade Angled	2.44 m (8 ft 0 in)	2.57 m (8 ft 5 in)
M Blade Tilt	0.40 m (16.7 in)	0.42 m (16.4 in)
N Track Length on Ground	2185 mm (86 in)	2185 mm (86 in)
O Width Over Track	2,026 mm (6 ft 7.7 in)	2,185 mm (7 ft 2 in)
P Track Gauge	1575 mm (62 in)	1575 mm (62 in)



RIPPER

TD-9R

Heavy-duty parallelogram 3-shank ripper

Weight, complete (w/3 shanks)	510 kg (1120 lb)
Weight of Shank	9 kg (20 lb)
Shank positions (vertical)	2
Q Maximum Penetration	305 mm (12 in)
R Maximum Clearance Under Tip	422 mm (16.6 in)
S Overall Beam Width	1.44 m (4 ft 9 in)
T Slope Angle (full raise)	34 deg
U Ripping Width	1510 mm (4 ft 11.5 in)
V / V1 Spacing Center to Center	686 mm (27 in) / 343 mm (13.5 in)

OPERATING WEIGHTS

	TD-9R	TD-9R LGP
Base Weight (with 6-WAY blade, standard equipment, Cab ROPS/FOPS, full fuel tank, and 79-kg [175 lb] operator)	9410 kg (20745 lb)	9586 kg (21133 lb)
Optional Components		
Ripper w/3 shanks	510 kg (1120 lb)	
Track shoes		
508 mm (20 in)	+ 74 kg (164 lb)	

SERVICEABILITY

	TD-9R
Refill capacities	
Fuel Tank	170 l (45 US gal)
Cooling System	15.2 l (4 US gal)
Engine Oil	7 l (1.8 US gal)
Hydraulic Reservoir	65 l (17.2 US gal)
Final Drive, Each Side	15.1 l (4 US gal)

UNDERCARRIAGE

	TD-9R	TD-9R LGP
Suspension	Rigid type	Rigid types
Tracks	large deep-heat-treated, sealed, and lubricated track links and through-hardened, sealed, and lubricated rollers for maximum wear resistance	large deep-heat-treated, sealed, and lubricated track links and through-hardened, sealed, and lubricated rollers for maximum wear resistance
Track Gauge	1575 mm (62 in)	1575 mm (62 in)
Track Shoe Width	457 mm (18 in)	610 mm (24 in)
Chain	Sealed and lubricated	Sealed and lubricated
Shoes, Each Side	39	39
Track Rollers, Each Side	6	6
Track Length on Ground	2185 mm (86 in)	2185 mm (86 in)
Ground Contact Area	19900 cm ² (3096 sq in)	26700 cm ² (4128 sq in)
Ground Pressure	44.75 kPa (6.91 psi)	34.2 kPa (4.96 psi)
Track Pitch	165 mm (6.5 in)	165 mm (6.5 in)

POWERTRAIN

TD-9R

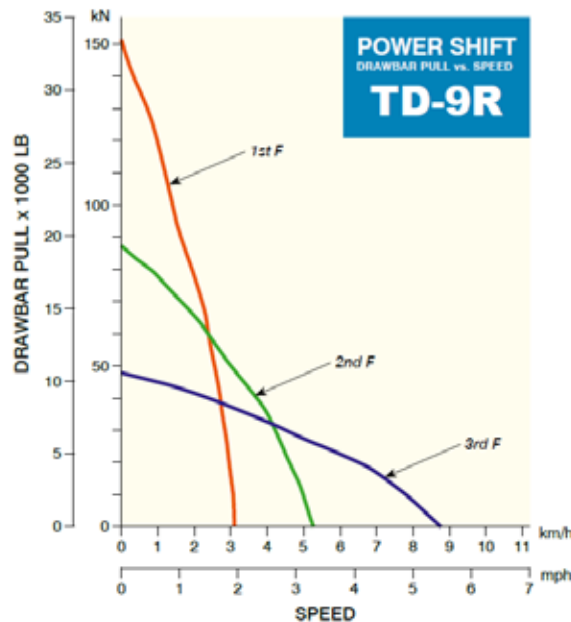
Transmission	Single stage 280 mm (11 in) torque converter with a 1.986:1 stall ratio drives to transmission through a double universal joint. Modular, countershaft type power shift transmission, electro-hydraulic control. Preset travel speed and auto-downshift.
Steering	Single stage planetary type, wet single disc steering clutches. Single disc, wet-type steering brakes. Steering clutches and brakes run in oil and are hydraulically actuated.
Final drives	Single stage spur-gear drive to sprockets.
Total ratio	8.1 to 1

Travel speeds

Gear	Forward	Reverse
	km/h (mph)	km/h (mph)
1st	3.3 (2.0)	3.8 (2.3)
2nd	5.3 (3.3)	6.3 (3.9)
3rd	8.9 (5.5)	10.4 (6.5)
Maximum drawbar pull	148.8 kN (33451.5 lb)	

Brakes

Service	Spring applied hydraulically released single-disc wet brakes. Foot pedal piloted control
Parking	The steering brakes also act as service and parking brakes. Service brakes are locked automatically when the transmission safety lever is actuated or when the engine is cut off.



STANDARD EQUIPMENT TD-9R Extra

ENGINE & COOLING

Engine, Cummins QSB3.3, Tier 3, emission certified, turbocharged, direct injection, 69 kW (93 fwhp)
Air cleaner, dry type, with primary and safety elements and service indicator
Antifreeze, -34°F (-37°C)
Cooling module; includes radiator, transmission oil cooler and charge air cooler; isolation mounted
Engine speed control knob, L.H. location
Fan, blower
Muffler, underhood with exhaust pipe and elbow
Strainer, fuel
Water separator, fuel system

DRIVETRAIN

Decelerator/brake - right and brake - left pedal, brake pedal lock button, foot operated
Torque converter, single stage
Transmission, full power shift, 3 speeds forward, 3 reverse
Steering, left hand single lever control (joystick with safety lever)

OPERATOR'S ENVIRONMENT

Canopy ROPS/FOPS (SAE J1040, J231), with roof extension and roof headliner and mirror
Seat, suspension type with adjustable arm rests
Seat belt (SAE J386) - 3" wide, retractable
Tools compartment
Cup holder

HYDRAULIC CONTROLS

Hydraulics, 3-spool valve, "T" control

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

ELECTRICAL

Alarm, back-up, 2 level sound
Alternator, 120 A
Battery (1), 12 V, 960 CCA, maintenance free, cold start
Horn electric
Lights, 2 front, 1 rear, halogen type
Starting, 12 V
Starting aid - air grid heater

GUARDS

Crankcase with pull hook, lights, radiator, transmission, rock deflector, fan, fuel tank bottom and back-up alarm
Engine hood, solid
Engine side doors, perforated
Protection guard for fuel tank and fuel filler
Radiator guard door, louvered

UNDERCARRIAGE

Track adjusters, hydraulic
Track chains, sealed & lubricated (LTS) with split master links, 39 links
Track frame, 6 roller, 1575 mm (62") gauge, rigid type, lifespan lubricated rollers and idlers, front and rear chain guides
Track frame covers
Track shoes, 457 mm (18")
Counterweights, front idler

UNDERCARRIAGE (LGP)

Track adjusters: hydraulic
Track chains, sealed & lubricated (LTS) with split master links, 39 links
Track frame covers
Track frame, 6 roller, 1575 mm (62") gauge, rigid type, lifespan lubricated rollers and idlers, front and rear chain guides
Track shoes: 610 mm (24 in), single grouser

OTHER STANDARD EQUIPMENT

Filters, with "spin-on" elements, engine oil, fuel, power train, equipment hydraulic
Hitch, retrieval
Manuals, parts and operator's
Power train diagnostic check panel with brake release port

OPTIONAL EQUIPMENT TD-9R Extra

BLADE EQUIPMENT

Standard (6-way), 1.87 m³ (2.45 yd³), inside arm with hydraulic tilt and angle (Blade width is 106")
Wide (6-way), 1.76 m³ (2.30 yd³), inside arm with hydraulic tilt and angle (Blade width is 111.1")

REAR MOUNTED EQUIPMENT

Ripper with 3 teeth, provision for 5 teeth. Includes 4-spool valve, 2-lever ("T" + single)
Deducts retrieval hitch
Extra ripper tooth, complete with tip

TRACK SHOES

457 mm (18") shoes with mud relief
508 mm (20") shoes

HYDRAULICS

44-spool valve, 2-lever ("T" + single)

OPERATOR'S ENVIRONMENT

Cab, ROPS/FOPS with sound suppression, wipers (4) and seat, washers, mirror, dome light and tinted safety glass
Includes seat for cab
Heater/pressurizer/defroster
Air conditioner/heater/pressurizer/defroster
For use with cab

- Defroster fan (1)
- Mirrors, 2 pcs, exterior

SCREENS

Sweeps, front with exhaust pipe, for use with canopy ROPS
Screen, rear (required for winch application) For use with canopy ROPS

GUARDS

Track roller guard, standard strength Bolts to track guides
Track roller guard, full length, 1 piece heavy duty type, includes track chain guides
Perforated hood

ADDITIONAL OPTIONS

Vandalism protection kit for use with canopy ROPS or with cab. Includes instrument panel guard with padlock; padlocks for hydraulic tank, engine hood access, L.H. and R.H.
Engine side enclosures and battery box
1,000 h maintenance package (filters)
1,500 h maintenance package (filters)
2,000 h maintenance package (filters)

EXPORT PACKING

Export packing, uncrated, roll-on / roll-off
Export packing, containerized unit

SFR

Beacon light, rotating
Trimble Ready Factory preinstalled hydraulics, harness and brackets for the Trimble Grade Control System components
Fuel Filtration System Fleetguard for machine with Fuel Filtration System FLEETGUARD:

- 1000 h maintenance package (filters)
- 1500 h maintenance package (filters)
- 2000 h maintenance package (filters)

Maintenance tool kit, 17 items in a metal box

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info@dressta.com
www.dressta.com

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