

# TD-8R

## CRAWLER DOZERS

EPA Tier 3/EU Stage IIIA  
STANDARD, LGP

### ENGINE

	TD-8R
Make and model	Cummins QSB3.3
Emissions standard	EPA Tier 3/EU Stage IIIA
Displacement	3.3 l (199 in <sup>3</sup> )
Bore and stroke	95 x 115 mm (3.74 in x 4.53 in)
Gross horsepower, SAE J1995	63 kW (85 hp)
Net horsepower, SAE J1349/ISO 9249	58 kW (78 hp)
Rated rpm	2600
Max. torque	371 Nm (274 ft-lb) @ 1400 rpm
Air cleaner	2-stage, dry type with service indicator

### COOLING

	TD-8R
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-8R
ROPS	ROPS (ISO 3471 - 2008)
FOPS	FOPS (ISO 3449 - 2005)

### HYDRAULICS

	TD-8R
Type	Open-center hydraulic system with fixed-displacement tandem-gear pumps
Pump max. flow	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	76 x 352 mm (3.0" x 13.9")
tilt	89 x 144 mm (3.5" x 5.7")

### ELECTRICAL

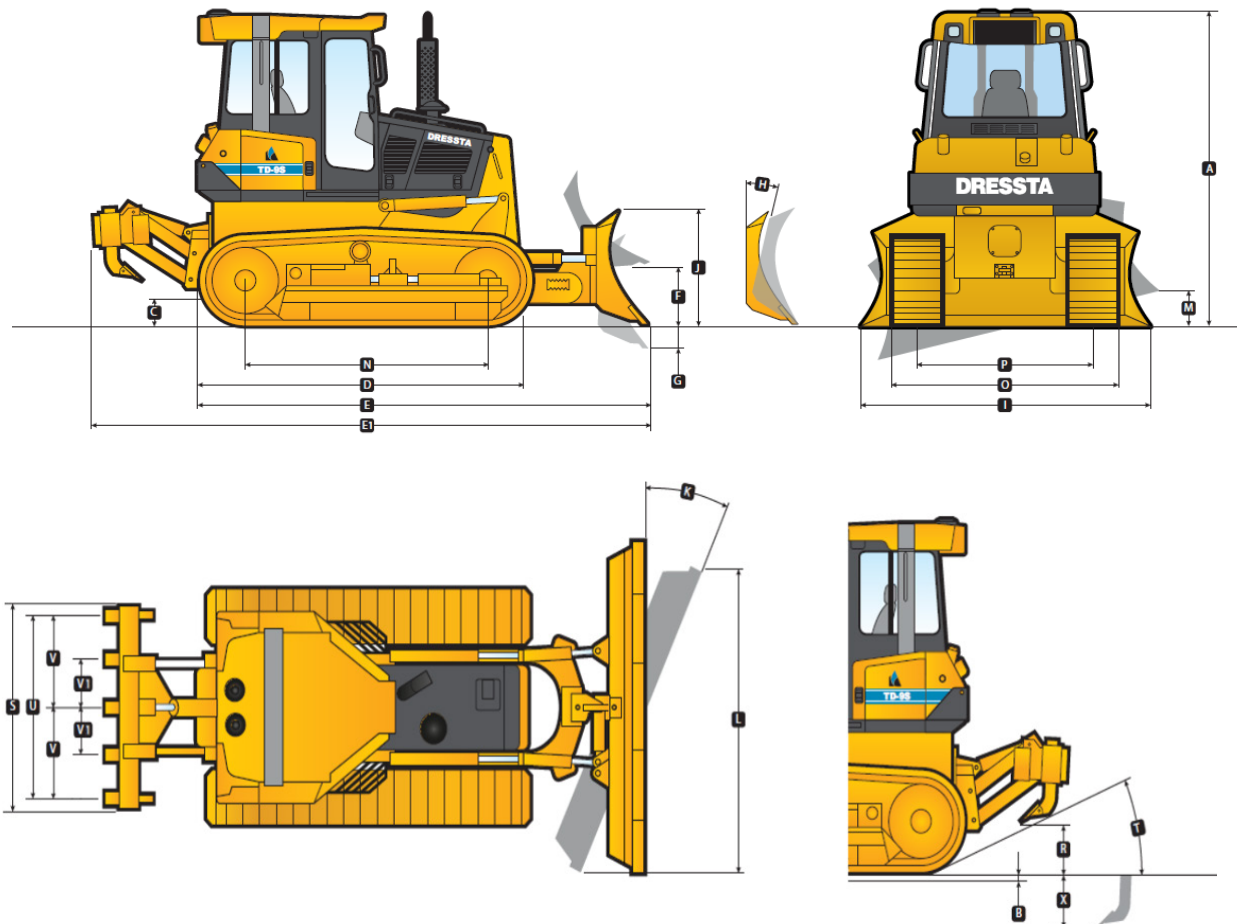
	TD-8R
Voltage	12 V
Battery Capacity	815 CCA
Reserve Capacity	170 min.
Alternator Rating	120 A
Lights	front- ROPS or cab (2), rear (2)

# MACHINE DIMENSIONS

## TD-8R

## TD-8R LGP

Blade Type	6-WAY	6-WAY
<b>A</b> Overall Height -Cab ROPS/FOPS	2.70 m (8 ft 10 in)	2.70 m (8 ft 10 in)
<b>B</b> Grouser height	53.6 mm (2.11 in)	53.6 mm (2.11 in)
<b>C</b> Ground clearance	322.5 mm (10.6 in)	322.5 mm (10.6 in)
<b>D</b> Overall length, base machine	2.8 m (9 ft 2.2 in)	2.8 m (9 ft 2.2 in)
<b>E</b> Length with Blade	4.36 m (14 ft 3.6 in)	4.36 m (14 ft 3.6 in)
<b>E1</b> Length with Blade and Ripper	4.86 m (15 ft 11 in)	4.86 m (15 ft 11 in)
<b>F</b> Blade Lift Height	0.89 m (35 in)	0.89 m (35 in)
<b>G</b> Blade Digging Depth	0.44 m (17.3 in)	0.44 m (17.3 in)
<b>H</b> Blade Cutting-Edge Angle, Adjustable	8 deg (52 to 60 deg)	8 deg (52 to 60 deg)
<b>I</b> Blade Width	2,620 mm (8 ft 11 in)	2,820 mm (9 ft 3 in)
<b>J</b> Blade Height	940 mm (3 ft 1 in)	840 mm (2 ft 9 in)
SAE Capacity	1.68 m <sup>3</sup> (2.2 cu yd)	1.45 m <sup>3</sup> (1.9 cu yd)
<b>K</b> Blade Angle	25 deg	25 deg
<b>L</b> Overall Width with Blade Angled	2.39 m (7 ft 10 in)	2.57 m (8 ft 5 in)
<b>M</b> Blade Tilt	0.39 m (15.3 in)	0.42 m (17.3 in)
<b>N</b> Track Length on Ground	2080 mm (82 in)	2080 mm (82 in)
<b>O</b> Width Over Track	1,750 mm (5 ft 9 in)	2,160 mm (7 ft 1 in)
<b>P</b> Track Gauge	1370 mm (54 in)	1550 mm (61 in)



# RIPPER

## TD-8R

### 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
<b>Q</b> Maximum Penetration	363 mm (14.3 in)
<b>R</b> Maximum Clearance Under Tip	361 mm (14.2 in)
<b>S</b> Overall Beam Width	1.44 m (4 ft 9 in)
<b>T</b> Slope Angle (full raise)	34 deg
<b>U</b> Ripping Width	1510 mm (4 ft 11.5 in)
<b>V / V1</b> Spacing Center to Center	686 mm (27 in) / 343 mm (13.5 in)

## OPERATING WEIGHTS

	TD-8R	TD-8R LGP
Base Weight (with 6-WAY blade, standard equipment, Cab ROPS/FOPS, full fuel tank, and 79-kg [175 lb] operator)	8475 kg (18684 lb)	8811 kg (19425 lb)
<b>Optional Components</b>		
Ripper w/3 shanks	510 kg (1120 lb)	
<b>Track shoes</b>		
432 mm (17 in)	+ 77 kg (170 lb)	-

## SERVICEABILITY

	TD-8R
<b>Refill capacities</b>	
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	51.1 l (13.5 US gal)
Final Drive, Each Side	9.5 l (2.5 US gal)

## UNDERCARRIAGE

	TD-8R	TD-8R LGP
<b>Suspension</b>	Rigid type	Rigid type
<b>Tracks</b>	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	1372 mm (54 in)	1550 mm (61 in)
Track Shoe Width	381 mm (15 in)	610 mm (24 in)
Chain	Sealed and lubricated	Sealed and lubricated
Shoes, Each Side	37	37
Track Rollers, Each Side	6	6
Track Length on Ground	2086 mm (82 in)	2086 mm (82 in)
Ground Contact Area	15900 cm <sup>2</sup> (2465 sq in)	25400 cm <sup>2</sup> (3936 sq in)
Ground Pressure	50.5 kPa (7.33 psi)	32.9 kPa (4.77 psi)
Track Pitch	165 mm (6.5 in)	165 mm (6.5 in)

# POWERTRAIN

## TD-8R

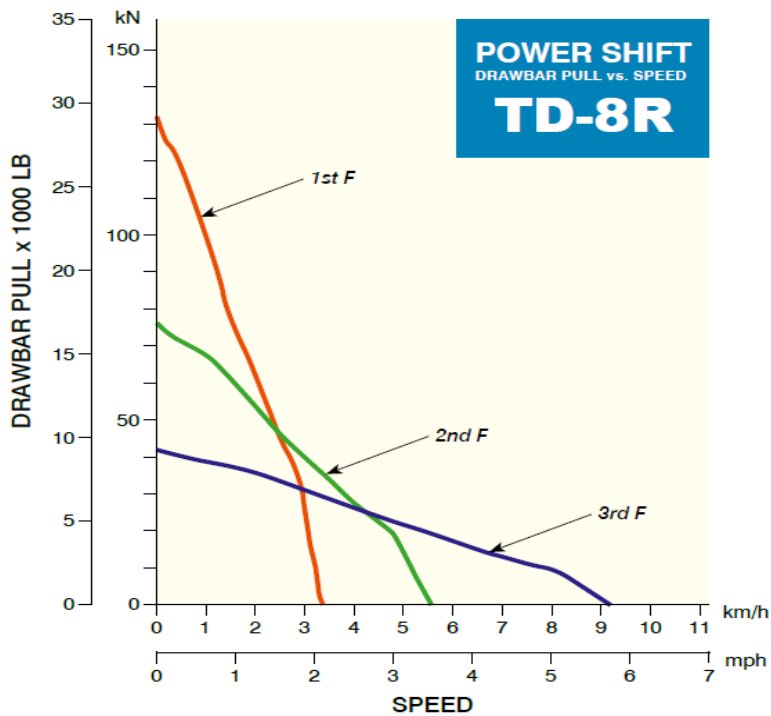
Transmission	Single stage 280 mm (11 in) torque converter with a 2.079:1 stall ratio drives to transmission through a double universal joint. Modular, countershaft type power shift transmission, electro-hydraulic control. Preset travel speed and auto-downshift.
Steering	Single stage planetary type, wet 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	5.67 to 1

### Travel speeds

Gear	Forward	Reverse
	km/h (mph)	km/h (mph)
1st	3.4 (2.1)	4.0 (2.5)
2nd	5.6 (3.5)	6.6 (4.1)
3rd	9.3 (5.8)	10.7 (6.7)
Maximum drawbar pull	131.1 kN (29450 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-8R Extra

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## ENGINE & COOLING

Engine, Cummins QSB3.3, Tier 3, emission certified, turbocharged, direct injection, 58 kW (78 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

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## 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)

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## 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

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## HYDRAULIC CONTROLS

Hydraulics, 3-spool valve, "T" control

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## INSTRUMENTATION

Gauges: fuel level, coolant temperature, engine oil pressure, powertrain oil temperature, voltmeter, hourmeter  
Warning lights: transmission filter service indicator, air filter and hydraulic filter service indicator

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## 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

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## 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

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## UNDERCARRIAGE

Track adjusters, hydraulic  
Track chains, sealed & lubricated (LTS) with split master links, 37 links  
Track frame, 6 roller, 1372 mm (54") gauge, rigid type, lifespan lubricated rollers and idlers, front and rear chain guides  
Track frame covers  
Track shoes, 381 mm (15")  
Counterweights, front idler

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## UNDERCARRIAGE (LGP)

Track adjusters, hydraulic  
Track chains, sealed & lubricated (LTS) with split master links, 37 links  
Track frame, wide track (LGP), 6 roller, 1550 mm (61") gauge, rigid type, lifespan lubricated rollers and idlers, front and rear chain guides  
Track frame covers  
Track shoes, 610 mm (24")  
Counterweights, front idler

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## 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-8R Extra

## BLADE EQUIPMENT

Standard (6-way) (STD) 1.68 m<sup>3</sup> (2.20 yd<sup>3</sup>), inside arm with hydraulic tilt and angle (Blade width is 103")  
Wide (6-way) (LGP), 1.45 m<sup>3</sup> (1.90 yd<sup>3</sup>), 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 (1) , complete with tip

## TRACK SHOES

381 mm (15") shoes with mud relief  
432 mm (17") shoes

## 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)

## GUARDS

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

## ADDITIONAL OPTIONS

Resonator, exhaust  
"Replaces standard exhaust pipe  
Lowers exhaust noise level and modulates exhaust tone"  
Vandalism protection kit, for use with canopy ROPS / 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."  

- 1000 h maintenance package (filters and fire extinguisher)
- 1500 h maintenance package (filters and fire extinguisher)
- 2000 h maintenance package (filters and fire extinguisher)

## EXPORT PACKING

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

## SFR

Beacon light, rotating  
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  
Trimble Ready Option Factory preinstalled hydraulics, harness and brackets for the Trimble Grade Control System components

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