



# TD-14R

## CRAWLER DOZERS

EPA Tier 4 Interim / EU Stage IIIB  
STANDARD, LT, WT, LGP\*

### ENGINE

	TD-14R
Make and model	Cummins QSB 6.7
Emissions standard	EPA Tier 4 Interim / EU Stage IIIB
Displacement	6.7 l (408 in <sup>3</sup> )
Bore and stroke	107 x 124 (4.21 in x 4.88 in)
Gross horsepower, SAE J1995	129 kW (173 hp)
Net horsepower, SAE J1349/ISO 9249	119 kW (160 hp)
Rated rpm	2100
Max. torque	801 Nm (591 lb-ft) @ 1350 rpm
Air cleaner	2-stage, dry type, with dash mounted electronic service indicator
Cold-starting aid	intake-mounted air-inlet grid heater
Slope operation, max. angle	45 deg

### HYDRAULICS

	TD-14R
Type	Open-center hydraulic system with fixed-displacement tandem-gear pumps
Pump displacement	173 l/min (46 gpm)
System relief pressure	17.2 MPa (2,500 psi)
Control	Single joystick lever
Cylinders, bore and stroke	
lift (STD)	90 x 1100 mm (3.5" x 43.3")
lift (LT,LGP)	90 x 930 mm (3.5" x 36.6")
lift (6-way)	90 x 1000 mm (3.5" x 39.4")
tilt	140 x 147 mm (5.5" x 5.8")

### COOLING

	TD-14R
Type	Suction-type variable-speed fan, hydraulically driven with perforated engine side sheets and heavy duty louvered front grill
Engine coolant rating	-37 deg C (-34 deg F)

### OPERATOR STATION

	TD-25R
ROPS	ROPS (ISO 3471 - 2008)
FOPS	FOPS (ISO 3449 - 2005)

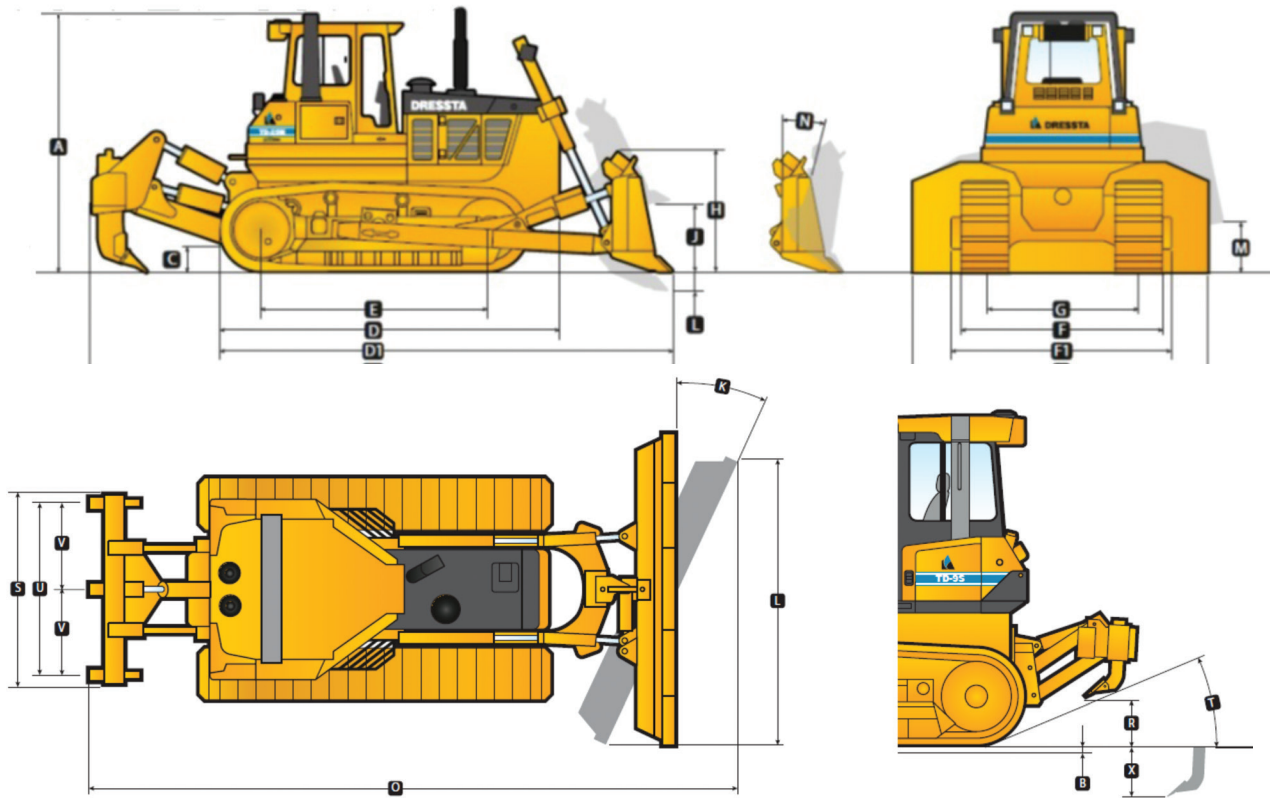
### ELECTRICAL

	TD-14R
Voltage	24 V
Number of batteries	2
Battery capacity	960 CCA
Alternator rating	70 A
Lights	8 total; cab mounted (2F & 2R), 2F lift cylinders and 2R fuel tank mounted

\* LT - LONG TRACK, WT - WIDE TRACK, LGP - LOW GROUND PRESSURE

# MACHINE DIMENSIONS

	TD-14R (STD & LT)		TD-14R LGP	
	Semi-U	6-way	Straight	6-way
<b>A</b> Overall height - ROPS	3240 mm (128 in)	3240 mm (128 in)	3240 mm (128 in)	3240 mm (128 in)
<b>B</b> Grouser height	65 mm (2.56 in)	65 mm (2.56 in)	65 mm (2.56 in)	65 mm (2.56 in)
<b>C</b> Ground clearance	430 mm (16.9 in)	430 mm (16.9 in)	430 mm (16.9 in)	430 mm (16.9 in)
<b>D</b> Overall length, base machine	STD 3630 mm (143 in) LT 4200 mm (165 in)		4200 mm (165 in)	4200 mm (165 in)
<b>D1</b> Length with blade and drawbar	STD 5130 mm (16 ft 10 in) LT 5690 mm (18 ft 8 in)	STD 5320 mm (17 ft 5 in) LT 5540 mm (18 ft 2 in)	5500 mm (18 ft)	5540 mm (18 ft 2 in)
<b>D2</b> Length with blade and 3-shank ripper	STD 6300 mm (20 ft 8 in) LT 6870 mm (22 ft 1.6 in)	STD 6490 mm (21 ft 4 in) LT 6720 mm (22 ft 1 in)		
<b>E</b> Track length on ground	STD 2600 mm (102 in) LT 3170 mm (125 in)	3170 mm (125 in)	3170 mm (125 in)	3170 mm (125 in)
<b>F</b> Width over track	2490 mm (98 in)	2490 mm (98 in)	3150 mm (124 in)	3150 mm (124 in)
<b>F1</b> Width over trunnions	2760 mm (9 ft 1 in)	2760 mm (9 ft 1 in)	3400 mm (11 ft 2 in)	3400 mm (11 ft 2 in)
<b>G</b> Track gauge	1930 mm (76 in)	1930 mm (76 in)	2240 mm (88 in)	2240 mm (88 in)



# BLADE SPECS

Type	TD-14R (STD & LT)		TD-14R LGP	
	Semi-U	6-way	Straight	6-way
SAE capacity	4.28 m <sup>3</sup> (5.6 cu yd)	3.2 m <sup>3</sup> (4.2 cu yd)	3.05 m <sup>3</sup> (4.0 cu yd)	3.8 m <sup>3</sup> (5.0 cu yd)
<b>H</b> Blade height	1230 mm (48 in)	1200 mm (47 in)	1020 mm (40 in)	1170 mm (46 in)
<b>I</b> Blade width	3370 mm (133 in)	3220 mm (147 in)	3700 mm (146 in)	3830 mm (151 in)
<b>J</b> Blade lift height	STD 990 mm (39 in) LT 1060 mm (42 in)	STD 1090 mm (42.9 in) LT 1086 mm (42.7 in)	1056 mm (41.6 in)	1085 mm (42.7 in)
<b>K</b> Blade angle	-	25 deg	-	25 deg
<b>L</b> Blade digging depth	STD 515 mm (20.3 in) LT 500 mm (19.7 in)	STD 580 mm (22.8 in) LT 536 mm (21.1 in)	500 mm (19.7 in)	536 mm (21.1 in)
<b>M</b> Maximum tilt	STD 545 mm (22 in) LT 510 mm (20 in)	510 mm (20 in)	595 mm (23 in)	595 mm (23 in)
<b>N</b> Maximum blade pitch adjustment	9 deg	7 deg	9 deg	8 deg
<b>O</b> Overall width with blade angled	-	3420 mm (11 ft 3 in)	-	3980 mm (13 ft)

# RIPPER

TD-14R	
Type	Parallelogram ripper
3-shank	
<b>R</b> Maximum clearance under tip (raised)	568 mm (22 in)
<b>S</b> Overall beam width	2040 mm (80.3 in)
<b>T</b> Slope angle (full raise)	25 deg
<b>U</b> Ripping width	1980 mm (74 in)
<b>V</b> Spacing center to center	940 mm (37 in)
<b>X</b> Maximum penetration	660 mm (26 in)
<b>Z</b> Maximum pitch adjustment	-
Penetration force	67 kN (15062 lb)
Pryout force	191 kN (42937 lb)
Shank positions (vertical)	2
Weight of ripper w/ 3 shanks	1644 kg (3624 lb)
Weight of shank	111 kg (245 lb)

# UNDERCARRIAGE

	TD-14R (STD & LT)	TD-14R (LGP)
Suspension	Oscillation-type with equalizer bar and forward mounted pivot shafts	Oscillation-type with equalizer bar and forward mounted pivot shafts
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	1930 mm (76 in)	2240 mm (88 in)
Track shoe width	560 mm (22 in)	915 mm (36 in)
Chain	Sealed and lubricated	Sealed and lubricated
Shoes, each side	STD 40, LT 46	46
Track rollers, each side	STD 7, LT 8	8
Track length on ground	STD 2600 mm (102 in), LT 3170 mm (125 in)	3170 mm (125 in)
Ground contact area	STD 29000 cm <sup>2</sup> (4495 in <sup>2</sup> ), LT 36000cm <sup>2</sup> (5580 in <sup>2</sup> )	58000 cm <sup>2</sup> (8990 in <sup>2</sup> )
Ground pressure	STD 56 kPa, LT 47.8 kPa	31.6 kPa
Track pitch	215.9 mm (8.5 in)	215.9 mm (8.5 in)
Sprocket sements, each side	1	1

# OPERATING WEIGHTS

	TD-14R (STD & LT)	TD-14R LGP
Base Weight with Semi-U blade w/tilt, drawbar, standard equipment, Cab ROPS/FOPS, full fuel tank and 79 kg [175 lb] operator	STD 16100 kg (35 494 lb) LT 17100 kg (37 699 lb)	18200 kg (40 124 lb)
<b>Optional components</b>		
3-shank type	+ 1644 kg (3551 lb)	-
<b>Track shoes</b>		
610 mm (24 in)	STD + 128 kg (282 lb) LT + 146 kg (322 lb)	-

# SERVICEABILITY

	TD-14R
<b>Refill capacities</b>	
Fuel tank	380 l (100 US gal)
Cooling system	34 l (9 US gal)
Engine oil	18 l (4.8 US gal)
Transmission system	125 l (33 US gal)
Final drive, each side	STD & LT 28 l (7.4 US gal) LGP 46 l (12 US gal)
Hydraulic reservoir	59 l (15.6 US gal)

# POWERTRAIN

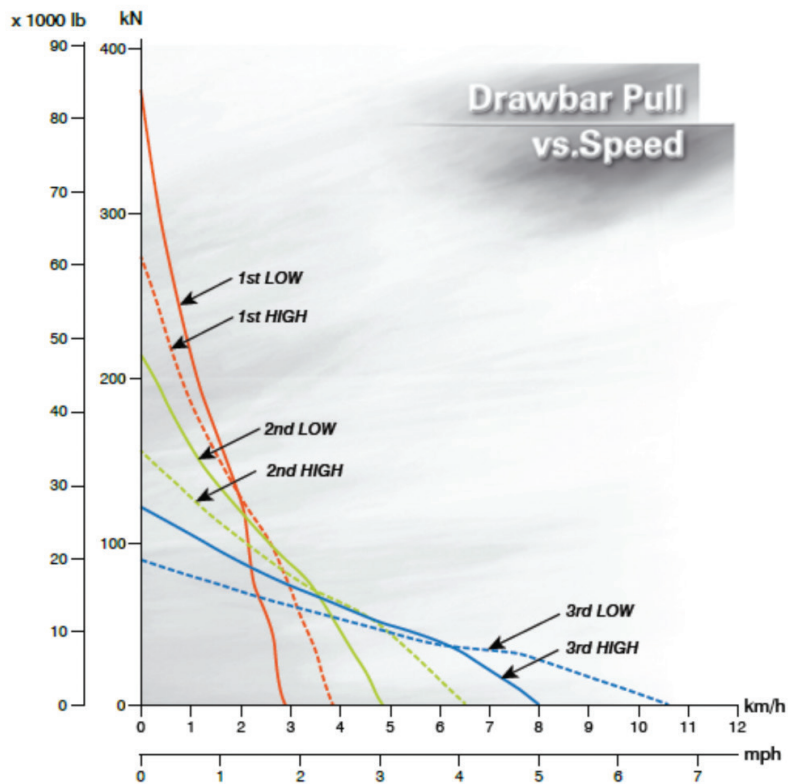
## TD-14R

Transmission	Single stage 370 mm (14.6 in) torque converter with a 2.1:1 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	Exclusive 2-speed geared steering module provides gradual turns while maintaining full power to both tracks plus conventional clutch-brake performance for tight or pivot turns. Coupled to 3-speed transmission, the 2-speed steering provides 6 speeds forward and 6 reverse. The left hand joystick controls transmission and steering drive for up and down shifting, steering, Hi/Lo selection and LH/RH gradual turn.
Final drives	Double-reduction final drives mounted independently of track frames and dozer push arms for isolation from shock loads.
Total ratio	10.32 to 1

### Travel speeds

Gear	Range	Forward	Reverse
		km/h (mph)	km/h (mph)
1st	Low	2.9 (1.8)	3.5 (2.2)
	High	3.9 (2.4)	4.7 (3.0)
2nd	Low	4.9 (3.0)	5.9 (3.7)
	High	6.5 (4.0)	7.8 (4.8)
3rd	Low	8.0 (5.0)	9.6 (6.0)
	High	10.5 (6.5)	12.6 (7.8)
Maximum drawbar pull		355 kN (79807 lb)	
Brakes			
Service		Spring applied hydraulically released multi-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.	

### Maximum drawbar pull 355 kN (79807 lb)



# STANDARD EQUIPMENT TD-14R

## ENGINE

Engine, Cummins QSB6.7, Tier 4 Interim, emission certified, 119 kW (160 fwhp), turbocharged (HPCR), direct injection, Diesel Particulate Filter with catalyst (DPF), Electronic Controls

Air cleaner, dry type, dual stage with dust discharge valve and service indicator

Antifreeze, -34°F (-37°C)

Brakes, foot, spring applied, hydraulically released

Cooling module; includes radiator, transmission oil cooler, charge air cooler; isolation mounted

Decelerator - right foot pedal, and brake - center foot pedal

Exhaust pipe extension with elbow

Fan, hydraulically driven

Filters, engine oil, full flow and by-pass with replaceable "spin-on" elements

Fuel strainer

Muffler, under engine hood, insulated

Water separator, fuel system

## DRIVETRAIN

Torque converter, single stage

Transmission, power shift, 3 speeds forward, 3 reverse, combined with 2 speed steering provides 6 speeds forward, 6 reverse, preset travel speed selection and auto-downshift

Steering, planetary type, 2 speed, left hand single lever control (joystick)

Filters, power train, equipment hydraulics, "spin-on" micro glass type

## OPERATOR'S ENVIRONMENT

Air conditioner/heater/pressurizer/defroster, underseat mounted, A/C condenser behind roof

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)

Seat, air suspension type, fabric cover, adjustable with arm rests, swivel 14° to right

Seat belt (SAE J386) - 3" wide, retractable

Sun visor for front cab window

Tools compartment

## INSTRUMENTATION

Engine ECM failure warning lights and switches

Gear, range, drive train and engine diagnostic display

Gauges: fuel level, engine coolant temperature, engine oil pressure, drive train system oil temperature, voltmeter, hourmeter, tachometer

Warning lights: air cleaner filter, drive train oil filters, hydraulic oil filters, transmission/clutch oil low pressure, coolant high temperature, drive train oil high temperature, fan drive oil filter, engine inlet air heater

Audible and visual warning system: low engine coolant level, low engine oil pressure

## ELECTRICAL

Alarm, back-up

Alternator 70 A

Dual batteries 12 V, 960 CCA, cold start, maintenance free

Horn, electric

Lights for cab, 2 front, 2 rear

Lights with guards, 2 front - lift cylinders mounted,

2 rear - fuel tank mounted

Receptacle, starting/charging plug

Starting, 24 V

Starting aid - air grid heater

## UNDERCARRIAGE

Track adjusters, hydraulic

Track chain, sealed and lubricated (LTS) with split master link, 40 links

Track chain center guides

Track chain end guides, integral

Track frame, 7 roller, 1930 mm (76") gauge, oscillating type, lifespan lubricated rollers and idlers

Track shoes, 560 mm (22") square corner

## UNDERCARRIAGE (LT)

Track adjusters, hydraulic

Track chain, sealed and lubricated (LTS) with split master link, 46 links

Track chain center guides

Track chain end guides, integral

Track frame, 8 roller, 1930 mm (76") gauge, oscillating type, lifespan lubricated rollers and idlers

Track shoes, 560 mm (22") square corner

## UNDERCARRIAGE (LGP)

Track adjusters, hydraulic

Track chain, sealed and lubricated (LTS) with split master link, 46 links

Track chain center guides

Track chain end guides, integral

Track frame, 8 roller, 2240 mm (88") gauge, oscillating type, lifespan lubricated rollers and idlers

Track shoes, 915 mm (36") square corner

## GUARDS

Crankcase, hinged, with front pull hook, transmission, fan, radiator, sprocket rock and dirt deflector

Engine hood, solid, sloped

Engine side doors, hinged, perforated type

Final drive seal guard

Radiator guard door, louvered, hinged

## HYDRAULIC CONTROLS

3-spool valve, 1 lever with pilot operated blade control (lift/tilt), ready for ripper

## OTHER STANDARD EQUIPMENT

Diagnostic centers for power train and equipment hydraulic pressures

Ecological drains for engine oil, radiator coolant and hydraulic oil

Hitch, retrieval

Manuals, parts and operator's

## OPTIONAL EQUIPMENT TD-14R

### BLADE EQUIPMENT STD & LT

**D-2 Semi-U Dozer**, 4.28 m<sup>3</sup> (5.6 yd<sup>3</sup>), complete with all blade components, includes hydraulic tilt and manual pitch.

**Angle Dozer (6-way)**, 3.20 m<sup>3</sup> (4.2 yd<sup>3</sup>), full hydraulic, inside arm with hydraulic tilt and angle and manual pitch, complete with all blade components.

### BLADE EQUIPMENT LGP

**S-2 Straight Dozer**, 3.17 m<sup>3</sup> (4.15 yd<sup>3</sup>), complete with all blade components, includes hydraulic tilt and manual pitch.

**Angle Dozer (6-way)**, 4.00 m<sup>3</sup> (5.23 yd<sup>3</sup>), full hydraulic, inside arm with hydraulic tilt and angle and manual pitch, complete with all blade components.

### REAR MOUNTED EQUIPMENT

Fixed drawbar replaces the standard retrieval hitch

Ripper, multi-shank beam, with three shanks, partially mounted, includes deduct for standard hitch

### TRACK SHOES STD

610 mm (24") shoes, severe service

### TRACK SHOES LT

610 mm (24") shoes, severe service

### OPERATOR'S ENVIRONMENT

Heater/pressurizer/defroster, cab without air conditioner (A/C)

#### For use with cab:

- Air recirculation system with MSHA filters, severe service
- AM/FM CD radio
- Sun visors (2), additional, for side door windows
- Lights, 2 front, ROPS mounted

### GUARDS

Track roller guard (full length)

Transmission and engine crankcase guards, severe service.  
Crankcase guard with front pull hook

"Tank guard, bolted (0.5") plate protects fuel tank and hydraulic reservoir)

Includes deduct for standard rear access platform."

Engine hood, perforated

### SCREENS

Sweeps, forestry, front and rear; include exhaust pipe extension with guard and guard for fuel tank and hydraulic reservoir

Screen, rear (required for winch application), for use with forestry sweeps

Screens for all cab windows (front, rear, side, doors) bolted, black painted

Screens for cab lights (2 front, 2 rear), black painted

Screens for tractor lights (2 front, 2 rear)

Lights, 2 front, for use with sweeps, sweeps side mounted

### ADDITIONAL OPTIONS

Inspection lamp, 24 V, portable, with 6 m (20') cable

Reflective lights (2)

Vandalism protection for use with engine enclosures

"Consists of locking caps and padlocks for the fuel tank and hydraulic tank filler; padlocks for locking valve compartment door, coolant filler, right fender guard, filter box, tools compartment, engine side enclosures."

Maintenance tool kit, 17 items in a metal box

1000 h maintenance package (filters)

1500 h maintenance package (filters)

2000 h maintenance package (filters)

### SFRs

Centralized lubricating system

Trimble ready option

Factory preinstalled hydraulics, harness and brackets for the Trimble grade control system components

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