



TD-14M

CRAWLER DOZER

STD-LT-LGP



EXTRA

■ **Net Horsepower**
160 hp (120 kW)

■ **Blade Capacity**
up to 5.6 yd³ (4.28 m³)

■ **Operating Weight**
34,282 lb (15550 kg) STD
36,486 lb (16550 kg) LT
38,911 lb (17650 kg) LGP

Engine

The Cummins QSB6.7 engine meets U.S. EPA Tier 3 and EU Stage IIIA emission standards. This highly successful, common rail engine has charge air cooling and is turbocharged for fuel economy and strong performance. This engine combines the highly efficient electronically controlled fuel injection system with high reliability, durability and long maintenance intervals. The engine is equipped with air grid heater for starting in cold weather.

Working E

The machine equipped with a blade for construction projects performing sloping road banks, backfilling

Undercarriage arrangements

- Three distinct models of the dozer are available
- Standard (STD)
- Long Track (LT) arrangement which gives the
- Low Ground Pressure (LGP) arrangement spec

TD-14M Extra sets new

Equipment

ade and a ripper is ideal for all
uch tasks as clearing and grading,
illing and final grade work.



e for specific job-site applications:

dozer good balance, makes grading on slopes easy
pecially designed to work in soft and muddy job sites

Power Train

The modular drive train
includes the Cummins engine,
single stage torque converter,
full power-shift transmission,
geared 2-speed steering
and the final drives.

Pre-set travel speed selection
and automatic downshift system provides
the operator with comfortable operation
and high productivity without
the need for manual downshifting
in many operations.

The high capacity brakes are operated
by a centrally located foot pedal.

new performance standards

The modern and comfortable six sided cab provides the operator superior all-around visibility and excellent view of both the blade and the ripper equipment.

The sound suppressed cab with:

- air recirculation system
- pressurized air conditioner/heater
- adjustable air suspension seat with arm rests
- AM/FM radio, CD with MP3/USB compatibility
- in-cab and outside mounted mirrors
- interior light and retractable sun visor is protected by ROPS/FOPS to meet SAE J1040, J231 standards.

Durable construction

Semi-U blade of 5.6 yd³ (4.28 m³) (STD)



6-way hydraulic angle blade of 4.2 yd³ (3.2 m³) (STD & LT) and 5.0 yd³ (3.8 m³) (LGP)



Straight blade of 4.0 yd³ (3.05 m³) (STD)



A variety of blades suitable for various operating conditions and job requirements are available. STD and LT versions can be equipped with Semi-U or 6-Way blades and the LGP version mounts either a Straight or 6-Way blade with the full width 36" (915 mm) track shoe.



The instrument panel provides the operator with the information about the condition of the machine during operation.

The left hand joystick controls transmission and steering drive for up and down shifting, steering Hi/Lo selection and LH/RH gradual turns.

The right hand ergonomical levers control blade and ripper movements. Pilot operated hydraulic controls are offered as an option.



The optional three-shank, parallelogram type ripper is ideal for ripping in tough material.



Specification

ENGINE

* Make and Model	Cummins QSB6.7
Type	In-line, 6-cylinder
Aspiration	Turbocharged and CAC
Fuel system	HPCR Electronic
Gross Horsepower, SAE J1995	173 hp (129 kW)
Net Horsepower, SAE J1349/ISO 9249	160 hp (120 kW)
Rated rpm	1800 rpm
Max. torque @ 1350 rpm	659 ft-lb (893 Nm)
Displacement	408 in ³ (6.7 l)
Bore and stroke	4.21" x 4.88" (107 x 124 mm)
Air cleaner	dry type, dual stage with dust discharge valve

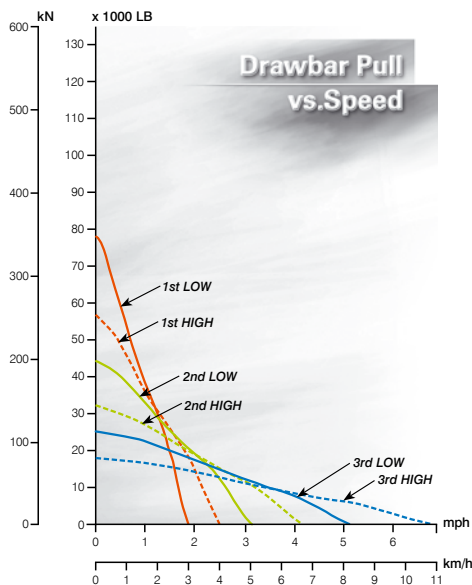
*Meets EU Stage IIIA and EPA Tier 3 emission regulations

TRANSMISSION & TORQUE CONVERTER

Modular, countershaft type power shift, electro-hydraulic control.
Preset travel speed selection and auto-downshift.
Single stage 14.6" (370 mm) torque converter with a 2.1:1 stall ratio drives to transmission through a double universal joint.

TRAVEL SPEEDS

Gear	Range	Forward		Reverse	
		mph	(km/h)	mph	(km/h)
1 st	Low	1.8	(2.9)	2.2	(3.6)
	High	2.5	(4.0)	3.0	(4.8)
2 nd	Low	3.1	(5.0)	3.7	(6.0)
	High	4.1	(6.6)	5.0	(8.0)
3 rd	Low	5.1	(8.2)	6.1	(9.8)
	High	6.7	(10.8)	8.0	(12.9)



STEERING & BRAKING

Two speed geared steering module provides gradual turns while maintaining full power to both tracks plus conventional clutch-brake performance for tight or pivot turns. This type of steering system offers superior traction in all types of operations and terrain.

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 geared turn.

Foot pedal applies both brakes for parking and downhill control. Brakes are spring applied and hydraulically released.

FINAL DRIVES

Double-reduction module provides desired gear reduction at the sprocket. Ring-type sprocket distributes wear evenly over track bushings, letting every tooth ride free one-half of the time to reduce wear. Final drives or sprockets are replaceable without removing track frames.

TRACK FRAME

All-welded heavy box section track frame is kept in alignment with track frame guides providing true vertical oscillation.
Track rollers, each side STD (LT, LGP) 7(8)
Top idlers, each side 2
Front idlers (drum type) 1
All rollers and idlers lifespan lubricated

TRACKS

Lubricated Track System (LTS) virtually eliminates internal pin and bushing wear through use of a patented seal assembly. The split master link reduces chain removal and installation time.

	STD	LT	LGP
Track shoe width, standard	22" (560 mm)	22" (560 mm)	36" (915 mm)
Track shoes, each side	40	46	46
Ground contact area	4,495 in ² (2.9 m ²)	5,580 in ² (3.6 m ²)	8,990 in ² (5.8 m ²)
Ground pressure (w/std. equipment)	8.0 psi (55.5 kPa)	6.9 psi (47.5 kPa)	4.6 psi (31.4 kPa)
Height of grouser	2.56" (65 mm)		
Ground clearance	16.9" (430 mm)		

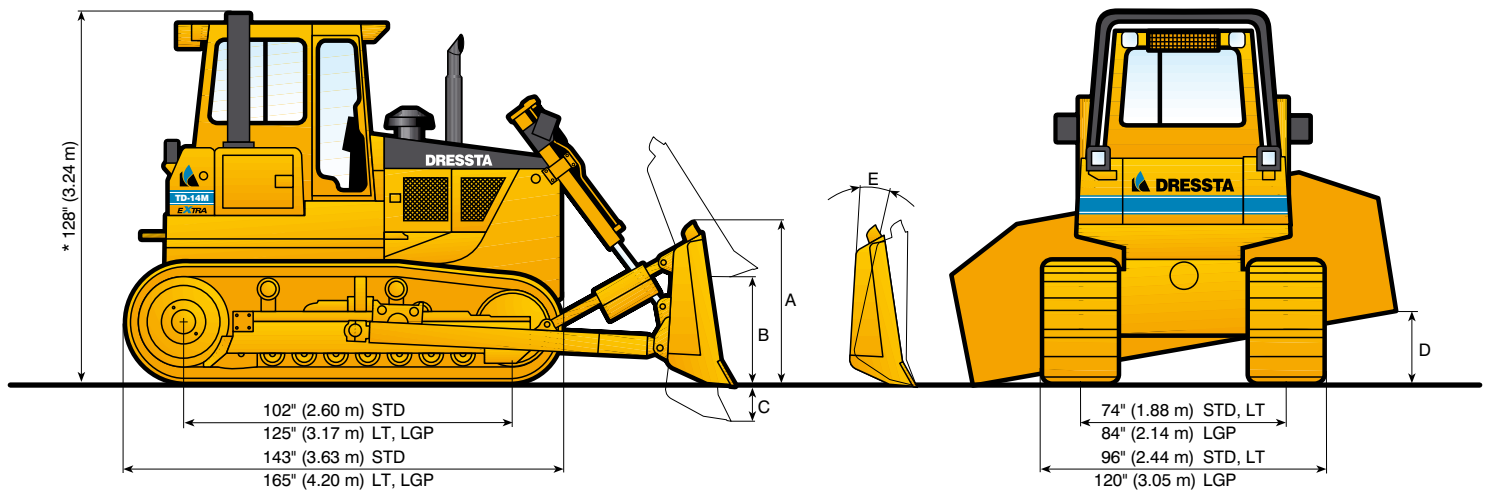
REFILL CAPACITIES

	US gal	(Liter)
Fuel tank	100	(380)
Cooling system	9	(34)
Crankcase w/filter	4.9	(18.5)
Transmission system	33	(125)
Final drive, each (STD, LT)	7.4	(28)
Final drive, each (LGP)	12	(46)
Hydraulic reservoir	15.6	(59)

OPERATING WEIGHT

Includes standard equipment, 6-way blade and full fuel tank:

	STD	LT	LGP
Canopy ROPS/FOPS	34,282 lb (15,550 kg)	36,486 lb (16,550 kg)	38,911 lb (17,650 kg)
Cab ROPS	35,494 lb (16,100 kg)	37,699 lb (17,100 kg)	40,124 lb (18,200 kg)



* DIMENSION INCLUDES 2.56" (65 mm) GROUSER HEIGHT

OVERALL DIMENSIONS WITH EQUIPMENT

	UNDERCARRIAGE	BLADE SELECTION			
		SEMI-U	6-WAY	STRAIGHT	6-WAY
Length with blade and drawbar	STD	16'10" (5.13 m)	17'5" (5.32 m)	—	—
	LT	18'8" (5.69 m)	18'2" (5.54 m)	—	—
	LGP	—	—	18' (5.50 m)	18'2" (5.54 m)
Length with blade and ripper	STD	20'8" (6.30 m)	21'4" (6.49 m)	—	—
	LT	22'16" (6.87 m)	22'1" (6.72 m)	—	—
Width, blade angled	STD & LT	—	9'7" (2.92 m)	—	—
	LGP	—	—	—	11'5" (3.48)
Width over trunnions	STD & LT	8'11" (2.71 m)	—	—	—
	LGP	—	—	10'10" (3.30 m)	—

BLADE SPECIFICATIONS

UNDERCARRIAGE BLADE SELECTION		STD<		LGP	
		SEMI-U	6-WAY	STRAIGHT	6-WAY
Track shoes		22"/24"	22"/24"	36"	36"
Blade capacity, SAE J1265		5.6 yd ³ (4.28 m ³)	4.2 yd ³ (3.20 m ³)	4.0 yd ³ (3.05 m ³)	5.0 yd ³ (3.80 m ³)
Blade dimensions: – width over end bits – height	A	133" (3.37 m) 48" (1.23 m)	127" (3.22 m) 47" (1.20 m)	146" (3.70 m) 40" (1.02 m)	151" (3.83 m) 46" (1.17 m)
	B	STD 39" (990 mm) LT 42" (1060 mm)	STD 42.9" (1090 mm) LT 42.7" (1086 mm)	41.6" (1056 mm)	42.7" (1085 mm)
Max. lift, straight	C	STD 20.3" (515 mm) LT 19.7" (500 mm)	STD 22.8" (580 mm) LT 21.1" (536 mm)	19.7" (500 mm)	21.1" (536 mm)
Max. drop below ground level	D	STD 21" (545 mm) LT 20" (510 mm)	20" (510 mm)	23" (595 mm)	23" (595 mm)
Max. tilt adjustment	E	—	25°	—	25°
Blade angle, either side		9°	7°	9°	8°
Max. pitch adjustment		4,508 lb (2045 kg)	4,555 lb (2066 kg)	4,310 lb (1955 kg)	4,855 lb (2202 kg)
Weight of blade equipment					

RIPPER SPECIFICATION

TYPE	MULTI-SHANK
Tool Beam	
Overall width	80.3" (2040 mm)
Cross section (height x width)	9" x 10" (229 x 254 mm)
Ground clearance under tool beam: – ripper raised – ripper lowered	46" (1160 mm)
	2.4" (60 mm)
Shanks	
Number of shanks per ripper, max.	3
Spacing center to center	37" (940 mm)
Penetration, max.	26" (660 mm)
Ground clearance, max. raised	22" (568 mm)
Shank positions (vertical)	2
Weight	
Complete, including one shank	3,135 lb (1422 kg)
Each additional shank	245 lb (111 kg)
Penetration Force	15,062 lb (67 kN)
Pryout Force	42,937 lb (191 kN)



HYDRAULIC CONTROL SYSTEM

Pump, tandem gear, driven from torque converter.
 Output @ rated engine rpm30 gpm (114 l/min)
 Relief valve setting2,540 psi (17.5 MPa)

Cylinders, bore and stroke:
 lift (STD) 3.5" x 43.3"(90 x 1100 mm)
 lift (LT, LGP) 3.5" x 36.6" (90 x 930 mm)
 lift (6-way) 3.5" x 39.4"(90 x 1000 mm)
 tilt 5.5" x 5.8" (140 x147 mm)

STANDARD EQUIPMENT

- Air cleaner, dry type, dual stage with dust discharge valve
- Alarm, back-up
- Alternator, 50 A
- Antifreeze, -34°F (-37°C)
- Batteries, (2) 12 V, 815 CCA, maintenance free
- Brakes, foot, spring applied, hydraulically released
- Canopy, 2 post ROPS/FOPS (SAE J1040, J231)
- Cooling module; includes radiator, transmission oil cooler, charge air cooler; isolation mounted
- Decelerator – right foot pedal and brake – center foot pedal
- Diagnostic centers for power train and equipment hydraulic pressures
- Ecological drains for engine oil, radiator coolant and hydraulic oil
- Engine hood, solid, sloped
- Engine side doors, hinged, perforated type
- Exhaust pipe extension with elbow
- Fan, blower
- Filter, engine oil, full flow and by-pass with replaceable "spin-on" elements
- Filters, power train, equipment hydraulics, fuel, "spin-on" micro glass type
- Final drive seal guard
- Guards: crankcase, hinged, with front pull hook, transmission, fan, radiator and sprocket rock and dirt deflector
- Hitch, retrieval
- Horn, electric
- Hydraulic control, 2-spool valve, 1 lever (lift/tilt)
- Instruments:
 - Gauges: fuel level, engine coolant temp., engine oil pressure, torque converter oil temp., voltmeter, hourmeter, tachometer, brake lock, joystick control display
 - Warning lights: air cleaner filter, transmission oil filter, hydraulic oil filter, transmission/clutch oil low pressure
 - Audible & visual warning system: low engine coolant level, low engine oil pressure
- Lights with guards, 2F – lift cylinders, 2R – fuel tank mounted
- Muffler, under engine hood, insulated
- Radiator guard door, hinged, louvered
- Rear access steps
- Receptacle, starting/charging
- Seat belt (SAE J386) – 3" wide, retractable
- Seat, deluxe, air suspension type, vinyl cover, adjustable with arm rests, swivel 14° to right
- Starting aid – air grid heater
- Starting, 24 V
- Steering, planetary type, 2 speed, left hand single lever control (joystick)
- Strainers, fuel and hydraulic tanks
- Tools compartment
- Torque converter, single stage
- Transmission power shift, 3 speeds forward, 3 reverse, preset travel speed selection and auto-downshift
- Water separator, fuel system
- UNDERCARRIAGE
 - Track frames, oscillating type, lifespan lubricated rollers and idlers
 - Track adjusters, hydraulic
 - Track chain center guides
 - Track chain end guides, integral
 - STANDARD (STD)
 - Track chain, sealed and lubricated (LTS) with split master link, 40 links
 - Track frame, 7 roller, 74" (1880 mm) gauge
 - Track shoes, 22" (560 mm) square corner
 - LONG TRACK (LT)
 - Track chain, sealed and lubricated (LTS) with split master link, 46 links
 - Track frame, 8 roller, 74" (1880 mm) gauge
 - Track shoes, 22" (560 mm) square corner
 - LOW GROUND PRESSURE (LGP)
 - Track chain, sealed and lubricated (LTS) with split master link, 46 links
 - Track frame, 8 roller, 84" (2136 mm) gauge
 - Track shoes, 36" (915 mm) clipped corner

OPTIONAL ATTACHMENTS

- AM/FM CD radio
- Batteries, cold start (2) 12 V, 960 CCA
- Blade Equipment (STD & LT):
 - Semi-U Dozer, 5.6 cu. yd (4.28 cu. m); hydraulic tilt
 - Angle Dozer (6-way), 4.2 cu. yd (3.20 cu. m) full hydraulic, inside arm with hydraulic tilt, angle and manual pitch
- Blade Equipment (LGP):
 - Straight Dozer, 4.0 cu. yd (3.05 cu. m); hydraulic tilt
 - Angle Dozer (6-way), 5.0 cu. yd (3.8 cu. m) full hydraulic, inside arm with hydraulic tilt, angle and manual pitch
- Cab and ROPS Equipment:
 - Air conditioner/heater/pressurizer/defroster, underseat mounted; A/C condenser behind roof
 - Air recirculation system with MSHA filters
 - Cab w/sound suppression, 4 wipers w/washers, inside mirror, dome light, tinted safety glass and air recirculation system
 - Heater /pressurizer/ defroster
 - ROPS for cab or forestry attachment
 - Sun visor in cab
 - Sweeps, forestry, front and rear
 - Screen rear (includes deduct for standard rear access steps)
 - Seat, air suspension, fabric cover (for use w/cab)
 - Drawbar, fixed
 - Engine enclosures: perforated hood and perforated side doors
 - Exhaust pipe extension w/guard, for sweeps
 - Guards:
 - Crankcase, severe service w/front pull hook
 - Tank guard, bolted (includes deduct for standard rear access steps)
 - Track roller, full length (STD)
 - Track roller, full length (LT-LGP)
 - Transmission, severe service
 - Hydraulic controls:
 - 2-spool valve, 1 lever (for use with 6-way)
 - 3-spool valve, 2 lever (for use w/ripper and tilt or 6-way)
 - Inspection lamp, 24 V, portable with 20' (6 m) cable
 - Instrument panel guard (for use w/Canopy ROPS/FOPS)
 - Lights for Canopy ROPS/FOPS, 2F – 2R
 - Lights for cab, 2F – 2R
 - Lights for cab and sweeps, 2F – 2R
 - Lights, ROPS mounted (not for use with sweeps) for use with cab, 2F
 - Mirrors, 2 pcs. exterior
 - Pilot operated hydraulic controls:
 - 2-spool valve, 1 lever (for use with tilt)
 - 2-spool valve, 1 lever (for use with 6-way)
 - 3-spool valve, 2 lever (for use w/ripper and tilt or 6-way)
 - Ripper, multi-shank, max. 3 shanks
 - Screening package; cab for screens installation must be ordered:
 - Screens for cab windows (front, rear, side and doors)
 - Screens for tractor and cab lights
 - Starting/charging receptacle plug assembly
 - Tools in metal box
 - Track shoes (STD-LT), 24" (610 mm) square corner. Access steps on track frame, bolt-on.
 - Vandalism protection

Specifications subject to change without notice. Illustrations and pictures may include optional attachments and accessories and may not include all standard equipment.

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