

# TD-25M LA Extra

## CRAWLER DOZERS

EPA Tier 3/EU Stage IIIA  
STANDARD

### ENGINE

	TD-25M LA Extra
Make and model	Cummins QSX15
Emissions standard	EPA Tier 3/EU Stage IIIA
Displacement	15 l (912 in <sup>3</sup> )
Bore and stroke	137 x 169 mm (5.39 x 6.65 in)
Gross horsepower, SAE J1995	280 kW (375 hp)
Net horsepower, SAE J1349/ ISO 9249	246 kW (330 hp)
Rated rpm	1800
Max. torque	1825 Nm (1346 lb-ft)
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

### COOLING

	TD-25M LA Extra
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-25M LA Extra
ROPS	ROPS (ISO 3471 - 2008)
FOPS	FOPS (ISO 3449 - 2005)

### HYDRAULICS

	TD-25M LA Extra
Type	Open-center hydraulic system with fixed-displacement multiple-pump vane type
Pump displacement	313.5 l/min (82,8 gpm)
System relief pressure	blade lift & ripper 17.2 MPa (2500 psi) blade tilt 18.4 MPa (2670 psi)
Control	Single joystick lever
Cylinders, bore and stroke	
lift	127 x 1460 mm (5.0" x 57.5")
tilt	200 x 130 mm (7.9" x 5.1")
tilt/pitch	185 /200 x 130 mm (7.3"/7.9" x 5.1")

### UNDERCARRIAGE

	TD-25M LA Extra
Suspension	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
Track gauge	2140 mm (7 ft)
Track shoe width	560 mm (22 in)
Chain	Sealed and lubricated
Shoes, each side	38
Track rollers, each side	7
Track length on ground	3150 mm (10 ft 4 in)
Ground Contact Area -560 mm shoes	35000 cm <sup>2</sup> (5456 sq. in)
Ground pressure	105 kPa (15 psi)
Track pitch	250 mm (9.86 in)
Sprocket sements, each side	8

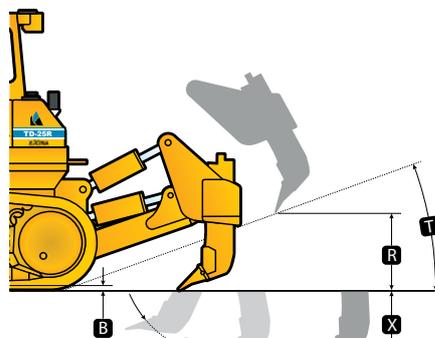
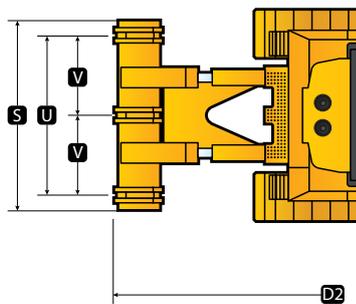
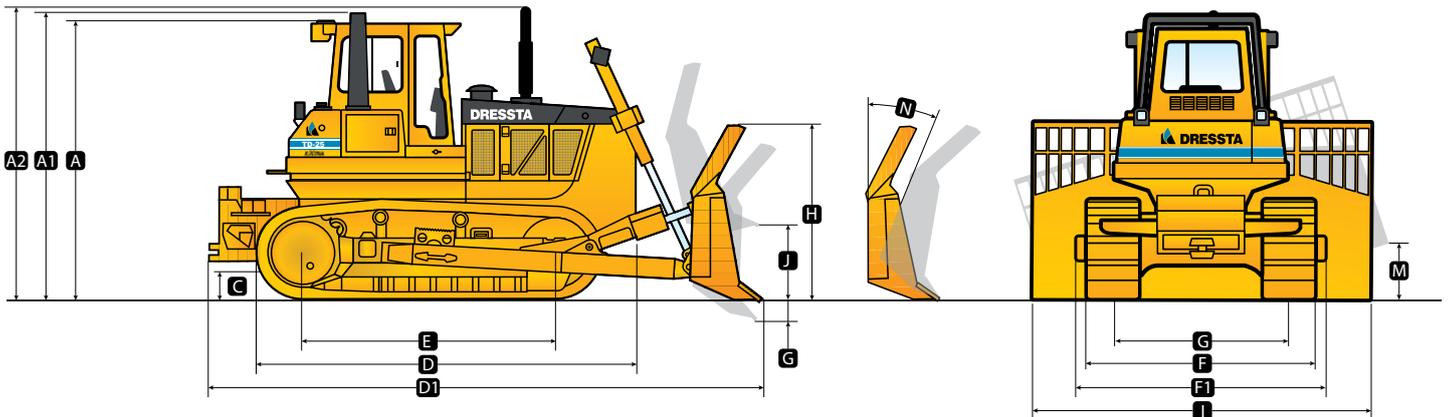
### ELECTRICAL

	TD-25M LA Extra
Voltage	24 V
Number of batteries	4
Battery capacity	960 CCA
Alternator rating	100A
Lights	8 total; cab mounted (2F& 2R), 2F lift cylinders and 2R fuel tank mounted

# MACHINE DIMENSIONS

## TD-25M LA Extra

Type	Semi-U w/trash rack	Full-U w/trash rack
<b>A</b> Overall height - FOPS Cab	3670 mm (12 ft)	3670 mm (12 ft)
<b>A1</b> Overall height - ROPS	3800 mm (12 ft 6 in)	3800 mm (12 ft 6 in)
<b>A2</b> Overall height - end of exhaust pipe	3930 mm (12 ft 11 in)	3930 mm (12 ft 11 in)
<b>B</b> Grouser height	76 mm (3 in)	76 mm (3 in)
<b>C</b> Ground clearance	575 mm (22.6 in)	575 mm (22.6 in)
<b>D</b> Overall length, base machine	5070 mm (16 ft 7 in)	5070 mm (16 ft 7 in)
<b>D1</b> D1 Length with Blade, counter-weight & striker bars	7030 mm (23 ft 1 in)	7320 mm (24 ft)
<b>D2</b> D2 Length with Blade and 1-shank /3-shank Ripper & striker bars	8940 mm /8380 mm (29 ft 4 in /27 ft 6 in)	9210 mm /8650 m (29 ft 4 in /27 ft 6 in)
<b>E</b> Track length on ground	3150 mm (10 ft 4 in)	3150 mm (10 ft 4 in)
<b>F</b> Width over track	2700 mm (8 ft 10 in)	2700 mm (8 ft 10 in)
<b>F1</b> Width over trunnions	3210 mm (10 ft 6 in)	3210 mm (10 ft 6 in)
<b>G</b> Track gauge	2140 mm (7 ft)	2140 mm (7 ft)



## BLADE SPECS

### TD-25M LA Extra

Type	Semi-U w/trash rack	Full-U w/trash rack
SAE capacity	20.6 m <sup>3</sup> (26.9 cu yd)	25.5 m <sup>3</sup> (33.4 cu yd)
<b>H</b> Blade height	2500 mm (8 ft 2.4 in)	2560 mm (8 ft 4.8 in)
<b>I</b> Blade width	4050 mm (13 ft 3 in)	4350 mm (14 ft 3 in)
<b>J</b> Blade lift height	1270 mm (4 ft 2 in)	1270 mm (4 ft 2 in)
<b>L</b> Blade digging depth	600 mm (23.6 in)	600 mm (23.6 in)
<b>M</b> Maximum tilt	880 mm (34.6 in)	945 mm (37.2 in)
<b>N</b> Maximum blade pitch adjustment	10 deg	10 deg

## RIPPER

### TD-25M LA Extra

Type	Parallelogram ripper with hydraulic pitch adjustment		
	Single-shank (Standard)	Single-shank (Deep Dig)	Multi-shank (3-shank)
<b>R</b> Maximum clearance under tip (raised)	770 mm (30.3 in)	760 mm (29.9 in)	868 mm (34.2 in)
<b>S</b> Overall beam width	1450 mm (57 in)	1450 mm (57 in)	2485 mm (98 in)
<b>T</b> Slope angle (full raise)	30.8 deg	30.8 deg	30.8 deg
<b>U</b> Ripping width	-	-	2134 mm (84 in)
<b>V</b> Spacing center to center	-	-	1067 mm (42 in)
<b>X</b> Maximum penetration	1250 mm (49.2 in)	1700 mm (66.9 in)	760 mm (29.9 in)
<b>Z</b> Maximum pitch adjustment	25.1 deg	25.1 deg	25.1 deg
Penetration force	132.5 kN (29,768 lb)	132.5 kN (29,768 lb)	131.2 kN (29,494 lb)
Pryout force	377.7 kN (84,907 lb)	377.7 kN (84,907 lb)	353.5 kN (79,467 lb)
Shank positions (vertical)	4	6	2
Weight of ripper incl. shank(s)	5280 kg (11,630 lb)	5370 kg (11,840 lb)	5736 kg (12,646 lb)
Weight of shank	540 kg (1,190 lb)	634 kg (1,397 lb)	318 kg (700 lb)

## OPERATING WEIGHTS

### TD-25M LA Extra

Base Weight with Semi-U blade w/trash rack, counterweight, standard landfill equipment, Cab ROPS/FOPS, full fuel tank, and 79-kg (175 lb) operator	42010 kg (92615 lb)
<b>Optional components</b>	
Full-U Blade 25.5 m <sup>3</sup>	660 kg (1455 lb)
Ripper w/3 shanks	3650 kg (8047 lb)
<b>Track shoes w/cleanout holes</b>	
610 mm (24 in)	+ 225 kg (495 lb)
660 mm (26 in)	+ 474 kg (1045 lb)
711 mm (28 in)	+ 655 kg (1445 lb)

## SERVICEABILITY

### TD-25M LA Extra

Refill capacities	
Fuel tank	825 l (218 US gal)
Cooling system	56 l (15 US gal)
Engine oil	49 l (13 US gal)
Transmission system	240 l (63 US gal)
Final drive, each side	64 l (16.9 US gal)
Hydraulic reservoir	130 l (34 US gal)

# POWERTRAIN

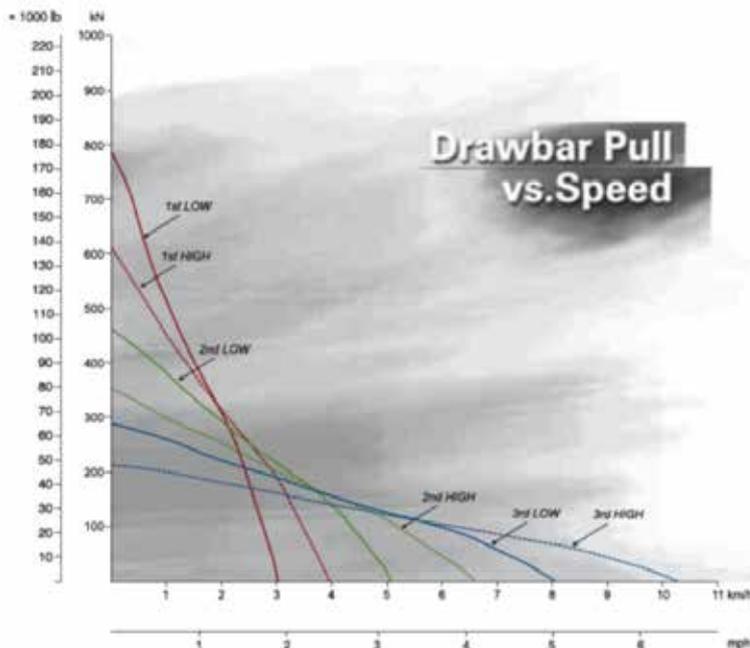
## TD-25M LA Extra

Transmission	Single stage 415 mm (16 in) torque converter with a 2.45:1 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 planetary type final drives mounted independently of track frames and dozer push arms for isolation from shock loads		
Total ratio	25.5 to 1		
Travel speeds			
	Range	Forward	Reverse
1st	Low	3.0 km/h (1.9 mph)	3.7 km/h (2.3 mph)
	High	3.9 km/h (2.4 mph)	4.7 km/h (2.9 mph)
2nd	Low	5.1 km/h (3.2 mph)	6.1 km/h (3.8 mph)
	High	6.6 km/h (4.1 mph)	7.9 km/h (4.9 mph)
3rd	Low	8.0 km/h (5.0 mph)	9.6 km/h (6.0 mph)
	High	10.3 km/h (6.4 mph)	12.3 km/h (7.6 mph)

Maximum drawbar pull	794 kN (178,498 lb)	
Drawbar Pull - Speed 1	kN (lbf)	791 (177824) - 1st Low
Drawbar Pull - Speed 1	'000 kgf ('000 lbf)	80.66 (177.82) - 1st Low
Drawbar Pull - Speed 2	kN (lbf)	606 (136234) - 1st High
Drawbar Pull - Speed 2	'000 kgf ('000 lbf)	61.79 (136.23) - 1st High
Drawbar Pull - Speed 3	kN (lbf)	465 (104536) - 2nd Low
Drawbar Pull - Speed 3	'000 kgf ('000 lbf)	47.42 (104.53) - 2nd Low
Drawbar Pull - Speed 4	kN (lbf)	344 (77334) - 2nd High
Drawbar Pull - Speed 4	'000 kgf ('000 lbf)	35.08 (77.33) - 2nd High
Drawbar Pull - Speed 5	kN (lbf)	281 (63171) - 3rd Low
Drawbar Pull - Speed 5	'000 kgf ('000 lbf)	28.65 (63.17) - 3rd Low
Drawbar Pull - Speed 6	kN (lbf)	207 (46535) - 3rd High
Drawbar Pull - Speed 6	'000 kgf ('000 lbf)	21.11 (46.53) - 3rd High

### 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.



# STANDARD EQUIPMENT TD-25M LA Extra

## ENGINE

Engine, Cummins QSX15, Tier 3, emission certified, turbocharged, direct start, direct injection, 246 kW (330 fwhp)

Air cleaner, dry type, with exhaust aspirated primary, safety elements and service indicator. Includes turbine type precleaner with debris guard

Antifreeze, -34°F (-37°C)

Cooling module; includes radiator, transmission oil cooler, hydraulic oil/fan drive oil cooler, fuel cooler, charge air cooler (CAC); isolation mounted, steel debris deflector bars, below engine side doors

Coolant filter conditioner

Exhaust resonator with elbow

Fan, hydraulically driven, suction type, variable speed, variable blade pitch system, airflow reversible

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

Brakes, foot, spring applied, hydraulically released

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

## OPERATOR'S ENVIRONMENT

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

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, torque converter oil temperature, voltmeter, hourmeter, tachometer

Warning lights: air cleaner filter, transmission oil filters, hydraulic oil filters, transmission/clutch oil, oil high temperature, fan drive oil filter

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

## ELECTRICAL

Alarm, back-up

Alternator 100 A

Batteries (4) 12 V, 1920 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

Portable lamp receptacle, 24 V

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, 38 links

Track chain guides, integral

Track frame, 7 roller, 2140 mm (84") gauge, oscillating type, lifespan lubricated rollers and idlers

Track shoes, 560 mm (22"), grouser type, with clean out holes

## GUARDS

Crankcase, hinged with electrical winch for lowering, 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 doors, louvered, two-piece, hinged

## HYDRAULIC CONTROLS

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

## OTHER STANDARD EQUIPMENT

Cylinders, lift, with quick drop valve

Diagnostic centers for power train and equipment hydraulic pressures

Drawbar, fixed

Ecological drains for engine oil, radiator coolant and hydraulic oil

Manuals, parts and operator's

Rear access platform

Striker bars, front (LH&RH)

Striker bars, rear (LH&RH) include rigid drawbar, provide handy storage space for counterweight (6 vertical plates) include 3 plates

# OPTIONAL EQUIPMENT TD-25M LA Extra

## BLADE EQUIPMENT

Cylinders, lift, with quick drop valve  
Diagnostic centers for power train and equipment hydraulic pressures  
Drawbar, fixed  
Ecological drains for engine oil, radiator coolant and hydraulic oil  
Manuals, parts and operator's  
Rear access platform  
Striker bars, front (LH&RH)  
Striker bars, rear (LH&RH) include rigid drawbar, provide handy storage space for counterweight (6 vertical plates) include 3plates

## REAR MOUNTED EQUIPMENT

\* Drawbar, counterweight, 1860 kg (4100 lbs)  
\* Additional counterweight (cast), 2004 kg (4410 lbs); recommended for use with large coal or landfill blades  
\* Ripper, multi-shank with three shanks, partially mounted, with hydraulic pitch, includes deduct for drawbar, with rear strikes bars  
\* Ripper single-shank beam, with hydraulic pitch, standard or deep dig, with hydraulic pin puller and shank, partially mounted, includes deduct for drawbar, with rear strike bars

## TRACK SHOES

610 mm (24") shoes, with clean out holes  
660 mm (26") shoes, with clean out holes  
711 mm (28") shoes, with clean out holes,  
(not recommended for use with ripper)

## 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
- Mirrors, 2 pcs, exterior
- Sun visors (2), additional, for side door windows
- Lights, 2 additional, ROPS mounted
- Lights, additional, ROPS mounted, 2 front, 2 rear or side

### Canopy ROPS/FOPS

Includes vinyl seat, operator platform covers, instrument panel guard and lights, 2 front, 2 rear.

### ROPS structure for use with sweeps

Includes vinyl seat, operator platform covers and instrument panel guard

## SCREENS

Sweeps, forestry, front and rear, for standard cab with ROPS or open ROPS machine; 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 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)  
Screens for ROPS mounted lights, (2 front)

## GUARDS

Final drive rock guard  
Track roller guards, full length  
Transmission and engine crankcase guards, severe service  
Engine hood, perforated  
Tank guard, bolted (0.5" plate protects fuel tank and hydraulic reservoir)

## ADDITIONAL OPTIONS

Sound suppression package, for use with std solid hood or with perforated hood, includes sound suppressed radiator guard doors  
Inspection lamp, 24 V, portable, with 6 m (20') cable  
Starting/charging receptacle plug assembly (required to jump start or charge batteries) with 15 ft cable  
Vandalism protection for use with engine enclosures  
Maintenance tool kit, 17 items in a metal box  
1000 h maintenance package (filters)  
2000 h maintenance package (filters)  
2000 h maintenance package (filters)  
4000 h maintenance package (filters)

## EXPORT PACKING

Export packing, drive-on/drive-off, machine on the trailer, cab crated  
Export packing, drive-on/drive-off, machine on the railway wagon

## SFRs

Centralized Lubricating System  
Trimble Ready Option, factory preinstalled hydraulics, harness and brackets for the Trimble Grade Control System components

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