



# TD-10M

CRAWLER DOZER  
STD & LGP



■ **Net Horsepower**  
76 kW (101 hp)

■ **Blade Capacity**  
2.04 m<sup>3</sup> (2.66 yd<sup>3</sup>)

■ **Operating Weight**  
8797 kg (19,395 lb) STD  
8910 kg (19,645 lb) LGP

# TD-10M

## STD & LGP

- Full power shift transmission
- Highly efficient torque converter
- Wet-type steering clutches and brakes
- Lubricated track system
- Hydraulic lift, tilt & angle blade
- Left joystick for transmission and steering control



### ENGINE

- \* Make and model ..... CUMMINS QSB4.5
- Type ..... 4-cycle diesel turbocharged, ECM, direct start, direct injection
- \*\* Gross Horsepower @ 2500 rpm ..... 82 kW (110 hp)
- \*\*\* Net Flywheel power @ 2500 rpm ..... 76 kW (101 hp)
- Maximum torque @1500 rpm ..... 414 Nm (305 ft lb)
- Number of cylinders ..... 4
- Displacement ..... 4.5 l (275 in<sup>3</sup>)
- Bore and stroke ..... 102 x 137.7 mm (4.02" x 5.42")
- Lubrication, full flow filtering..... full pressure
- Number of main bearings ..... 5
- Electrical system ..... 12 V
- Air cleaner ..... two stage, dry type with service indicator

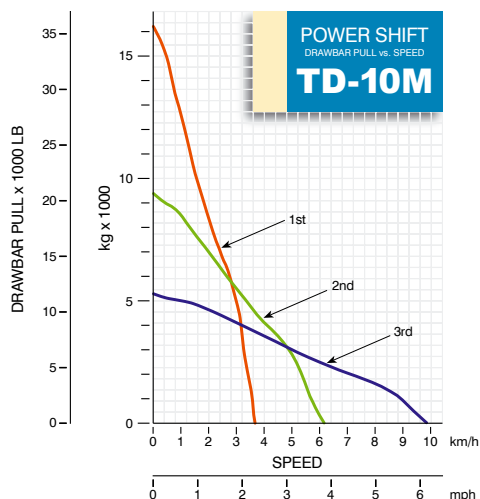
\* Meets EU Stage II and EPA Tier 2 emission regulations  
 \*\* Output of complete engine operating under SAE J1995 conditions  
 \*\*\* Flywheel power-output of standard engine complete with fan, air cleaner, alternator (not charging), water pump, lubricating oil pump and fuel pump, per SAE J1349

### TRANSMISSION & TORQUE CONVERTER

Modular countershaft type full power shift, electro-hydraulically actuated with 3 speeds forward, 3 reverse. Joystick control valve has electric transmission range shift control for up and down shifting. Single stage 280 mm (11") torque converter with 2.16:1 stall ratio drives to transmission through a permanently lubricated double universal joint.

### TRAVEL SPEEDS

Gear	Forward		Reverse	
	km/h	(mph)	km/h	(mph)
1 st	3.7	(2.3)	4.3	(2.7)
2 nd	6.1	(3.8)	7.2	(4.5)
3 rd	10.0	(6.2)	11.9	(7.4)



### STEERING & BRAKING

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. The left hand joystick controls transmission and steering drive. Right foot pedal applies decelerator, center pedal applies disc brakes for downhill speed control and parking. Brakes are spring applied and hydraulically released. Parking brake is also applied by safety lever.

### FINAL DRIVES

Single stage spur-gear drive to sprockets 8.1:1 reduction ratio. Final drive has metal face seals. Operates in oil for long life. Sprockets are replaceable without removing track frames.

### TRACK FRAME

Heavy steel box section, rigid mount.

	STD	LGP
Track rollers each side	6	6
Top idlers each side	1	1
Front idlers (disc type)	casting	casting
All rollers and idlers	lifespan lubricated	

### TRACKS

Lubricated Track System virtually eliminates internal pin and bushing wear.

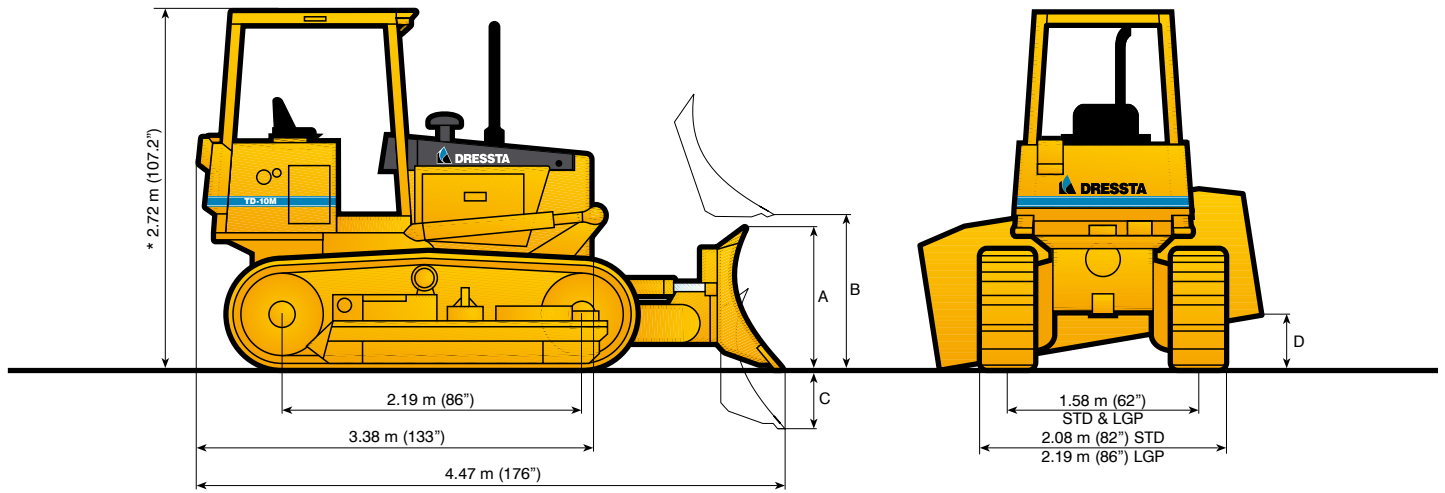
	STD	LGP
Track shoe width	508 mm (20")	610 mm (24")
Track shoes, each side	39	39
Ground contact area	2.22 m <sup>2</sup> (3,440 in <sup>2</sup> )	2.66 m <sup>2</sup> (4,128 in <sup>2</sup> )
Ground pressure	38.6 kPa (5.6 psi)	32.4 kPa (4.7 psi)
Strutted track link pitch	165 mm (6.5")	
Height of grouser	53.6 mm (2.11")	
Track adjustment	full hydraulic	
Minimum ground clearance		
from bottom face of shoe	381 mm (15")	
Recovery hitch-height		
from ground to centerline of clevis	536 mm (21.1")	

### REFILL CAPACITIES

	Liter	(US gal)
Fuel tank	170	(45)
Cooling system	24.9	(6.6)
Crankcase	10.4	(2.7)
Transmission & steering drive	70	(18.5)
Final drive, each side	15.1	(4.0)

### OPERATING WEIGHT

Includes ROPS, hydraulic angle blade, standard equipment and full fuel.	
STD	8797 kg (19,395 lb)
LGP	8910 kg (19,645 lb)



\* Dimension includes 53.6 mm (2.11") grouser height  
 Overall height with Cab ROPS – 2.76 m (108.5")

### OVERALL DIMENSIONS WITH EQUIPMENT

Length with blade and ripper .....	4.80 m (15'9")	Width, blade straight .....	2.82 m (9'3")
Width, blade angled .....	2.57 m (8'5")		

### BLADE SPECIFICATION

Blade capacity, SAE J1265 .....	2.04 m <sup>3</sup> (2.66 yd <sup>3</sup> )	Max. lift, straight	B .....	0.87 m (34.3")
Max. usable track shoe width .....	610 mm (24")	Max. drop below ground level	C .....	0.42 m (16.5")
Blade dimensions:		Max. tilt adjustment	D .....	0.42 m (16.4")
– width over end bits .....	2.82 m (9'3")	Blade angle, either side .....		25°
– height, struts centered	A .....			
	0.99 m (3'3")			

### RIPPER SPECIFICATION

Type .....	Multi-Shank	Shanks	
Tool Beam		Number of shanks per ripper, max. ....	5
Overall width .....	1.44 m (4'9")	Spacing center to center .....	343 mm (13.5")
Cross section, height x width .....	165 x 165 mm (6.5" x 6.5")	Penetration, max. ....	305 mm (12.0")
Ground clearance under tool beam .....	716 mm (28.2")	Ground clearance, max. raised .....	422 mm (16.6")
Weight		Shank positions (vertical) .....	2
Complete, including three shanks .....	510 kg (1,120 lb)		
Each additional shank .....	9 kg (20 lb)		

### HYDRAULIC CONTROL SYSTEM

Pump, tandem gear.		Cylinders, bore and stroke	
Output @ 3.45 MPa (500 psi)		Lift (2) .....	89 x 449 mm (3.5" x 17.7")
& rated engine rpm .....	75.2 l/min (19.9 gpm)	Angle (2) .....	89 x 352 mm (3.5" x 13.9")
Relief valve setting		Tilt (1) .....	89 x 144 mm (3.5" x 5.7")
Blade lift & ripper .....	15 512 kPa (2,250 psi)	Reservoir with sight gauge, system capacity, right fender mounted,	
Tilt .....	15 512 kPa (2,250 psi)	includes cylinders & lines .....	51 l (13.5 gal)

#### STANDARD EQUIPMENT

- Air cleaner, dry type, with primary and safety elements and service indicator
- Alarm, back-up, 2 level sound
- Alternator, 105 A
- Antifreeze, -37°C (-34°F)
- Battery, (1) 12 V, 815 CCA, maintenance free
- Canopy ROPS (SAE J1040) with roof extension, roof headliner, mirror
- Cooling module; includes radiator and transmission oil cooler (side-by-side); isolation mounted
- Counterweights, front idler
- Decelerator – right pedal and brake – left pedal with safety lock, foot operated
- Engine hood, solid
- Engine side doors, perforated
- Fan, blower
- Filters, with “spin-on” elements: engine oil, fuel, power train, equip. hyd.
- Guards: crankcase with pull hook, instrument panel, lights, radiator, transmission, rock deflector, fan, fuel tank bottom and back-up alarm
- Hitch, retrieval
- Horn
- Hydraulics, 3-spool valve, “T” control
- Instruments:
  - Gauges: hourmeter, coolant temperature, engine oil pressure, power train oil temperature, voltmeter, fuel
  - Warning lights: transmission filter service indicator, air filter and hydraulic filter service indicator
- Lights, 2 front, 1 rear, halogen type
- Muffler, underhood with exhaust pipe and elbow
- Power train diagnostic check panel w/brake release port
- Protection guard for fuel tank and filler
- Radiator guard door, louvered
- Seat belt (SAE J386) – 3” wide, retractable
- Seat, suspension type with adjustable arm rests
- Starting aid – air grid heater
- Starting, 12 V
- Steering & transmission, left hand single lever control, joystick w/safety lever
- Strainer, fuel
- Throttle control, L.H. location
- Tools compartment
- Torque converter, single stage
- Track adjusters, hydraulic
- Track chains, sealed & lubricated (LTS) with split master links, 39 links
- Track frame, 6 rollers, 1.58 m (62”) gauge, rigid type, lifespan lubricated rollers and idlers, front and rear chain guides
- Track frame covers
- Track shoes, 508 mm (20”)
- Transmission, full power shift, 3 speeds forward, 3 reverse
- Water separator, fuel system

#### OPTIONAL ATTACHMENTS

- Air conditioner/heater/pressurizer/defroster
- Angle dozer 2.04 cu.m (2.66 cu.yd), inside arm w/hyd. tilt & angle
- Battery, cold start, 12 V, 960 CCA
- Cab, ROPS with sound suppression, wipers (4) and washers, mirror, dome light & tinted safety glass
- Defroster fan (for use w/cab)
- Exhaust pipe, forestry (for use w/sweeps)
- Fan, reversible
- Guards
  - track roller, standard strength
  - track roller, full length, heavy duty type
- Heater/pressurizer/defroster
- Hood, perforated (blower fan recommended)
- Hydraulics, 4-spool valve w/2 levers (“T” + single), for use w/ripper or auxiliary attachments
- Limb risers, straight (not for use w/cab)
- Mirrors, 2 pcs (for use w/cab)
- Resonator, exhaust
- Ripper, multi-shank w/3 teeth (provision for 5 teeth)
- Screening package, black painted (Canopy ROPS for screens installation must be ordered)
  - screens, front
  - screen, rear
  - doors and side screens w/third post
  - screen, overhead, for upper front lights protection
- Sweeps, front (not for use w/cab)
- Track shoes, 610 mm (24”)
- Vandalism protection

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

NOTE: Low Ground Pressure (LGP) tractors are designed for use in mud, snow and other soft ground applications.

Use in hard or rocky conditions will reduce undercarriage life and can cause damage to components.

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