



# CRAWLER DOZERS

**TD-7R TD-8R TD-9R TD-10R**



# The Dresst

Represents significant and me

Non-reflective paint on hood, radiator guard and ROPS/Cab hood

Heavy duty louvered radiator guard door

Efficient cooling module with radiator, power train cooler and charge air cooler

Steps and handrails provide easier entry

Modern styled square shaped ROPS Canopy w/headlining and mirror

Cab equipped machines offer an optional air conditioner/heater/pressurizer. A/C condenser behind roof mounted for added serviceability

Cummins engines meet Tier 3 emission requirements



## TD-7R

## TD-8R

Reliable and pro



# ta R-series

meaningful improvements



Single lever joystick controls all machine motion functions

Comfortable suspension seat w/lumbar support. Arm rests are adjustable for height without needing tools

Safety lever neutralizes joystick function and also applies parking brakes

Brakes are spring applied and hydraulic released

Rear fuel tank guard included as standard, on all models

Power train diagnostic service panel, also includes brake release ports

## TD-9R TD-10R

productive dozers

# Operator's e

**Roomy, comfortable and ergonomically  
assures maximum productivity**

- The suspension seat with adjustable arm rests provides the best position and maximum comfort.
- Efficient and operator-friendly left hand joystick controls all machine motion functions.
- The instrument panel includes a full complement of gauges and indicator lights that provide the operator the information necessary to operate efficiently and effectively.
- The right foot pedal controls engine deceleration and brake for stopping or holding the machine. The left foot pedal provides braking.
- The combination of the ergonomically designed joystick and well located foot pedal controls provides the operator unsurpassed operating ease.



**TD-7R TD-8R**

# environment

ully organized operator compartment  
by reducing operator's fatigue



## **ROPS system**

Excellent operator protection is provided by the four post ROPS with extension of the front roof and sound absorbing pad. Forestry sweeps and screening packages are designed to provide operator protection in various types of forestry applications.

## **Cab**

An optional hexagonal, sound suppressed cab provides an unsurpassed work environment for the operator. It can be also equipped with air conditioner/heater/pressurizer.

## **Lighting**

Three halogen lights are offered as standard equipment. Front lights are protected by the roof overhang.

**TD-9R TD-10R**



## Power train



- Rugged and powerful Cummins engine provides outstanding power, easy service and high reliability.
- A torque converter helps operator to perform complicated tasks with greater ease.
- Full power shift, countershaft type, electro-hydraulically actuated transmission provides smooth, low shock shifting.
- Proven and well accepted clutch-brake steering system provides excellent steering modulation and long life.
- Final drives employ a pinion and bull gear speed reduction.

**TD-7R**

**TD-8R**

# ability

## Dependable undercarriage

- The track frames incorporate high strength steel full box section side members welded together into a rigid foundation.
- Standard Lubricated Track System (LTS) virtually eliminates internal pin and bushing wear.
- Split Master Link reduces installation time and simplifies repairs.
- The top idlers incorporate long-life heavy duty tapered roller bearings for added reliability and durability.
- Metal-to-metal seal of track rollers keep lubrication in and dirt out.



**TD-9R TD-10R**



# Product

## Outstanding performance

Unique power train, designed for small crawler applications, provides the customer with outstanding performance in all aspects of working capabilities:

- Fine machine control
- Slow turns
- Quick pivoting turns
- Operating at full power pushing heavy loads
- Finish grading



**TD-7R**

**TD-8R**



# ctivity

## Six-Way Blade



The six-way hydraulic Power Angle Tilt (PAT) blade system is designed to improve performance, provide better wear resistance, increase strength and serviceability. This system also reduces maintenance, allows transport within 8'6" widths limits and provides long wear.

The cutting edge angles and blade moldboard geometry are designed to provide an exceptional balance between fine-light dozing and aggressive heavy material movement, enabling R-Series dozers to perform better over a broader variety of dirtmoving applications.

A single lever T-type control operates the equipment control valve and is shaped to fit comfortably into the operator's right hand.

The blade responds quickly, giving the operator a true feel for the blade and provides precise grading efficiency.



**TD-9R TD-10R**

# Service

Low main



**TD-7R**

**TD-8R**



# Availability

## Maintenance



The design philosophy of the R-series has been to reduce daily and weekly maintenance and increase uptime.

Furthermore, sight gauges and ground level access dipstick make fluid level checks quick and effortless.

- Blade equipment service requirements are minimized through sealed, permanently lubricated, non-metallic bushings and chrome plated pins at all cylinder pivot connections. There are only two lubrication points on the blade system.
- A hydraulic reservoir with sight gauge which is visible from the side for daily walk around inspections.
- A large, single top hood door provides ready access to the radiator fill, engine oil fill and check or reversible fan blades (optional).
- No tools are required for access to the power train spin-on filter located in the left-hand compartment next to the operator's seat. This location also contains power train diagnostic center, the battery, storage area and steering and transmission control valve assembly.
- The right side of reservoir housing features an area for the spin-on equipment hydraulic oil filter, hydraulic system pressure check port, hydraulic oil fill port and the power train oil level dipstick and fill ports.
- Both doors, left and right, are hinged and lockable.



**TD-9R TD-10R**

# Specification

## ENGINES

	<b>TD-7R</b>	<b>TD-8R</b>	<b>TD-9R</b>	<b>TD-10R</b>
Power (SAE Net)	74 hp @ 2200 rpm	78 hp @ 2600 rpm	93 hp @ 2200 rpm	101 hp @ 2500 rpm
Model	Cummins QSB3.3	Cummins QSB3.3	Cummins QSB3.3	Cummins QSB4.5
Aspiration	Turbocharged and CAC	Turbocharged and CAC	Turbocharged and CAC	Turbocharged and CAC
Displacement	199 cu. in	199 cu. in	199 cu. in	275 cu. in
Bore and stroke	3.74" x 4.53"	3.74" x 4.53"	3.74" x 4.53"	4.02" x 5.42"
Max. torque	274 lb.ft @ 1400 rpm	274 lb.ft @ 1400 rpm	306 lb.ft @ 1600 rpm	360 lb.ft @ 1500 rpm

Meet EPA Tier 3 emission regulations

## TRANSMISSION & TORQUE CONVERTER

Countershaft type, full power shift, electro-hydraulically actuated transmission with 3 speeds forward and 3 reverse. Joystick control valve has electric transmission range shift control for up and down shifting.

Single stage, 11 inch torque converter drives to transmission through a permanently lubricated double universal joint.

## FINAL DRIVES

Single stage final drives employ a pinion and bull gear speed reduction to increase torque for high drawbar pull.

Reduction ratios: 5.08:1 (TD-7R), 5.66:1 (TD-8R) and 8.1:1 (TD-9R and TD-10R).

## STEERING AND BRAKING

DRESSTA caliper type clutch/brake system provides excellent steering modulation over any range of quick or broad steering changes.

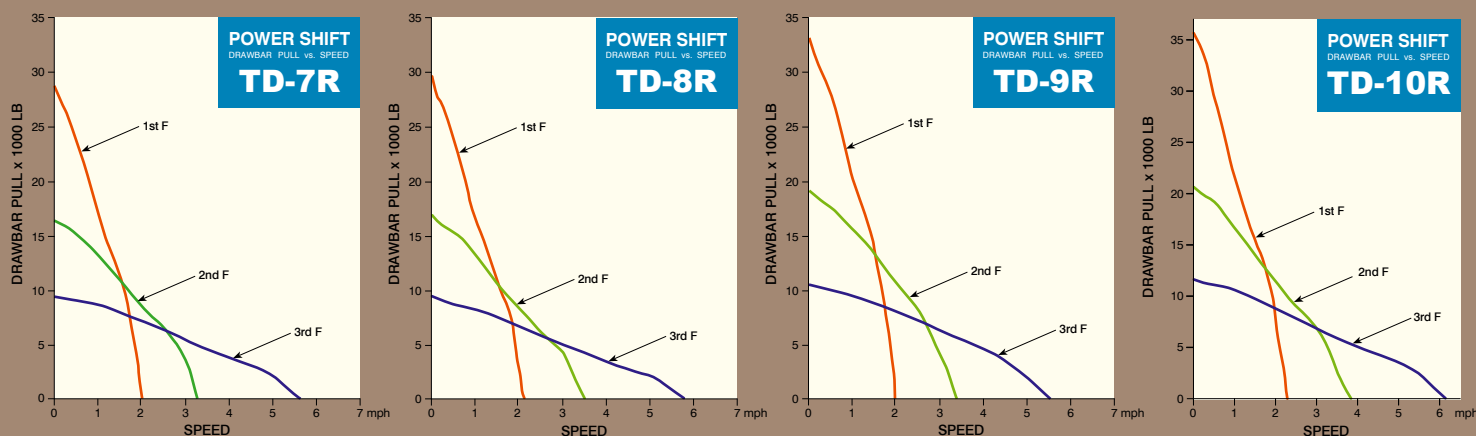
The left hand joystick controls transmission and steering drive.

Right foot pedal applies decelerator and brake for parking, left pedal applies disc brakes for downhill speed control.

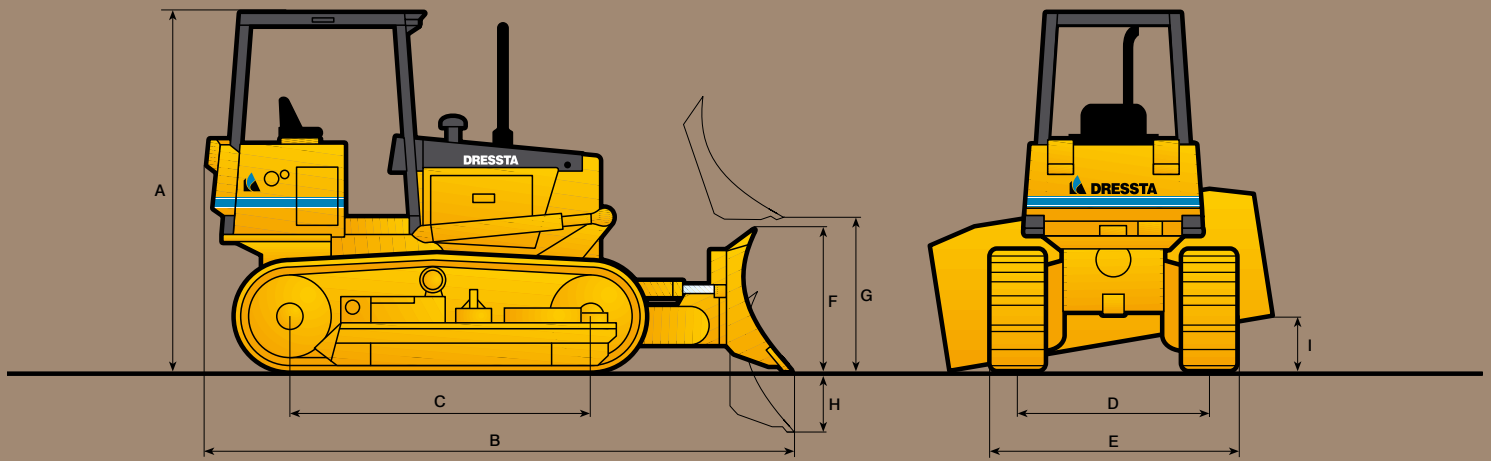
## CAPACITIES

	<b>TD-7R-8R-9R</b>	<b>TD-10R</b>	<b>TD-7R-8R-9R</b>	<b>TD-10R</b>
Fuel tank .....	45 gal	45 gal	Transmission & steering drive .....	17.2 gal
Cooling system .....	4.0 gal	4.9 gal	Final drive, each side .....	2.5 gal
Crankcase .....	1.8 gal	2.9 gal	Hydraulic reservoir .....	13.5 gal

## DRAWBAR PULL







## TD-7R

## TD-8R

### DIMENSIONS

	STD	LT	LGP	STD	LGP
A Overall height with ROPS	104.9 in.	104.9 in.	104.9 in.	104.9 in.	104.9 in.
Overall height with Cab	106.2 in.	106.2 in.	106.2 in.	106.2 in.	106.2 in.
B Overall length w/blade	141.3 in.	158.3 in.	158.3 in.	170 in.	170 in.
C Track on ground	72 in.	82 in.	82 in.	82 in.	82 in.
D Gauge	54 in.	54 in.	61 in.	54 in.	61 in.
E Width over tracks	69 in.	69 in.	85 in.	69 in.	85 in.

### BLADE SPECIFICATIONS

Blade capacity (SAE)	1.81 cu.yd	1.81 cu.yd	1.90 cu.yd	2.20 cu.yd	1.90 cu.yd
F Height	33 in.	33 in.	33 in.	37 in.	33 in.
Width	103 in.	103 in.	111 in.	103 in.	111 in.
G Max lift	37 in.	35 in.	35 in.	35 in.	35 in.
H Digging depth	17.7 in.	17.3 in.	17.3 in.	17.3 in.	17.3 in.
I Tilt adjustment	15.2 in.	15.2 in.	16.4 in.	15.2 in.	16.4 in.
Blade angle	25°	25°	25°	25°	25°

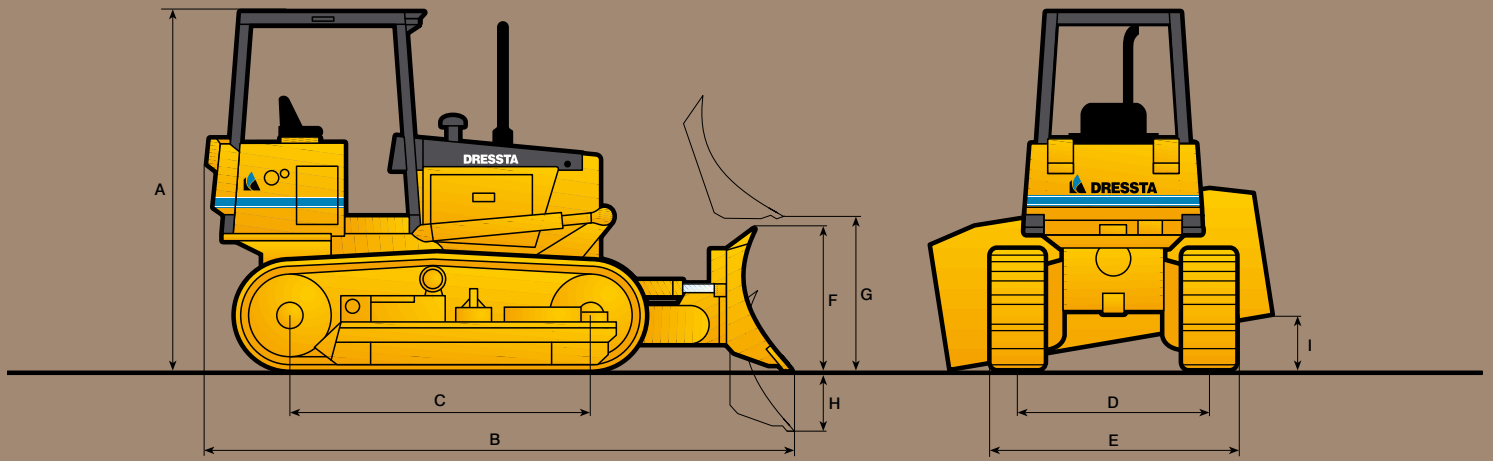
### UNDERCARRIAGE

	STD	LT	LGP	STD	LGP
Track shoe width	15 in.	15 in.	24 in.	15 in.	24 in.
Track shoes (each side)	34	37	37	37	37
Ground contact area	2,160 sq.in.	2,460 sq.in.	3,936 sq.in.	2,460 sq.in.	3,936 sq.in.
Ground pressure	7.84 psi	7.20 psi	4.67 psi	7.33 psi	4.77 psi
Track rollers (each side)	5	6	6	6	6
Strutted track link pitch	6.5 in.	6.5 in.	6.5 in.	6.5 in.	6.5 in.
Height of grouser	2.11 in.	2.11 in.	2.11 in.	2.11 in.	2.11 in.
Minimum ground clearance	12.7 in.	12.7 in.	12.7 in.	12.7 in.	12.7 in.

### Operating Weight

Includes standard equipment, blade and full fuel.

Canopy ROPS/FOPS	16,942 lb	17,712 lb	18,373 lb	18,034 lb	18,774 lb
Cab ROPS/FOPS	17,593 lb	18,362 lb	19,023 lb	18,684 lb	19,425 lb



## DIMENSIONS

### TD-9R

### TD-10R

	STD	LGP	STD	LGP
A Overall height with ROPS	107.2 in.	107.2 in.	107.2 in.	107.2 in.
Overall height with Cab	108.5 in.	108.5 in.	108.5 in.	108.5 in.
B Overall length w/blade	174 in.	174 in.	176.4 in.	176.4 in.
C Track on ground	86 in.	86 in.	86 in.	89 in.
D Gauge	62 in.	62 in.	66 in.	66 in.
E Width over tracks	80 in.	86 in.	86 in.	90 in.

## BLADE SPECIFICATIONS

	STD	LGP	STD	LGP
Blade capacity (SAE)	2.45 cu.yd	2.30 cu.yd	2.81 cu.yd	2.89 cu.yd
F Height	39 in.	37 in.	39 in.	39 in.
Width	106 in.	111 in.	117 in.	120 in.
G Max lift	34.3 in.	34.3 in.	34.3 in.	34.3 in.
H Digging depth	16.5 in.	16.5 in.	16.5 in.	16.5 in.
I Tilt adjustment	15.7 in.	16.4 in.	17.3 in.	17.7 in.
Blade angle	25°	25°	25°	25°

## UNDERCARRIAGE

	STD	LGP	STD	LGP
Track shoe width	18 in.	24 in.	20 in.	24 in.
Track shoes (each side)	39	39	39	40
Ground contact area	3,096 sq.in.	4,128 sq.in.	3,440 sq.in.	4,294 sq.in.
Ground pressure	6.49 psi	4.96 psi	5.9 psi	4.8 psi
Track rollers (each side)	6	6	6	6
Strutted track link pitch	6.5 in.	6.5 in.	6.5 in.	6.5 in.
Height of grouser	2.11 in.	2.11 in.	2.11 in.	2.11 in.
Minimum ground clearance	15 in.	15 in.	15 in.	15 in.

## Operating Weight

Includes standard equipment, blade and full fuel.

Canopy ROPS/FOPS	20,095 lb	20,483 lb	20,348 lb	20,598 lb
Cab ROPS/FOPS	20,745 lb	21,133 lb	21,000 lb	21,248 lb



7R 8R 9R 10R

**Engine**

- Meets EPA Tier 3 emission regulations
- Turbocharged and CAC, direct injection
- Water separator, fuel system
- Engine coolant radiator
- Engine coolant, to -34°F
- Starting aid – air grid heater
- Fan, blower type
- Fan, reversible
- Muffler, underhood
- Exhaust pipe and elbow
- Exhaust pipe, forestry
- Exhaust resonator
- Air cleaner, dry type
- Spin-on engine oil and fuel filters
- Fuel strainer
- Engine speed control knob

**Power Train**

- Torque converter, single stage
- Transmission, full power shift, 3F – 3R
- Steering, single stage, planetary
- Single lever control, left joystick w/safety lever
- Final drive, single stage, spur-gear
- Transmission oil cooler, air-to-oil
- Diagnostic check panel with brake release port
- Decelerator/brake, right pedal, brake pedal lock button
- Brake, left pedal

**Electrical**

- 12 V system
- Battery, 815 CCA, maintenance free
- Battery, 960 CCA, cold start
- Alternator 105/120 A
- Horn
- Alarm back-up, with guard, 2-level sound
- Lights with guards, halogen type, 2F – 1R

**Hydraulic system**

- Hydraulic reservoir with sight gauge
- Oil filter service indicator
- 3-spool valve, low-effort "T" control
- 4-spool valve, 2 levers

**Undercarriage**

- Track frame, rigid type, STD
- Track frame, rigid type, LT
- Track frame, rigid type, LGP
- Front and rear chain guides

7R 8R 9R 10R

**Undercarriage**

- Track frame covers
- Track chains, sealed and lubricated (LTS)
- Track adjusters, hydraulic
- Rollers and idlers, lifespan lubricated
- Split master links
- Rock deflector
- Track shoes, standard: 15" (TD-7R & TD-8R), 18" (TD-9R), 20" (TD-10R)
- Track shoes, optional
- Track roller guards

**Operator's station**

- Canopy ROPS/FOPS (SAE J1040, J231) with roof extension and roof headliner
- Cab ROPS/FOPS (SAE J1040, J231) with sound suppression
- Air conditioner/heater/pressurizer/defroster
- Heater/pressurizer/defroster
- Seat, suspension type, adjustable with arm rests
- Seat belt (SAE J386), 3 inch, retractable
- Instrument panel
- Gauges and warnings lights
- Footrests
- Rear view mirror
- Mirrors, 2 pcs, for use with cab

**Protection**

- Sweeps front
- Screen rear
- Screening package for forestry applications
- Vandalism protection

**Blade equipment and attachments**

- Angle dozer inside arm with hydraulic tilt & angle (Six-way)
- Angle dozer (Six-way), wide (LGP)
- Ripper, multi-shank (provision for 5 teeth)
- Hitch, retrieval

**Overall tractor**

- Heavy duty, louvered radiator guard door
- Protection guard for fuel tank and filler
- Engine hood, solid
- Engine side doors, perforated
- Engine hood, perforated
- Fuel tank bottom guard
- Crankcase guard with pull hook
- Radiator, fan and transmission guards

Note:  Standard equipment  Optional attachments



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