

LT & LGP



Construction

Rental

Landscaping

Forestry

Ship Trimming

TD-85 / TD-95

COMPACT CRAWLER DOZERS

Hydrostatic Drive

S Series

ENGINE

	TD-8S LT / TD-8S LGP	TD-9S LT & TD-9S LGP
Make and model	Cummins QSF3.8	Cummins QSF3.8
Emissions standard	EPA Tier 4f/EU Stage IV	EPA Tier 4f/EU Stage IV
Displacement	3.8 L (229 in ³)	3.8 L (229 in ³)
Bore and stroke	107 x 115 mm (4.2 in. x 4.53 in.)	107 x 115 mm (4.2 in. x 4.53 in.)
Horsepower		
SAE J1995	Gross 75 kW (100 hp)	Gross 89 kW (120 hp)
SAE J1349 / ISO 9249	Net 70 kW (94 hp)	Net 84 kW (113 hp)
Rated RPM	2,200 rpm	2,200 rpm
Max. torque	414 Nm (305 ft-lb) @ 1,600 rpm	448 Nm (360 ft-lb) @ 1,600 rpm
Air cleaner	2-stage, dry type with service indicator	2-stage, dry type with service indicator

COOLING

	TD-8S LT / TD-8S LGP / TD-9S LT & TD-9S LGP
Type	Variable-speed fan with viscous fan clutch
Engine coolant rating	-37° C (-34° F)

HYDRAULICS

	TD-8S LT / TD-8S LGP / TD-9S LT & TD-9S LGP
Type	Open-center hydraulic system with fixed-displacement tandem gear pump
Pump displacement	69.6 L/min (18.4 gpm)
System relief pressure	20,000 kPa (2,900 psi)
Control	3-function direct-acting T-bar joystick

ELECTRICAL

	TD-8S LT / TD-8S LGP / TD-9S LT & TD-9S LGP
Voltage	12 volts
Battery capacity	815 CCA
Reserve capacity	170 min.
Alternator rating	120 amp
Lights	Front: ROPS or cab (2). Rear: (1)

OPERATOR STATION

	TD-8S LT / TD-8S LGP / TD-9S LT & TD-9S LGP
ROPS (ISO 3471 - 2008) and FOPS (ISO 3449 - 2005)	

POWERTRAIN

	TD-8S LT / TD-8S LGP	TD-9S LT & TD-9S LGP
Transmission	Automatic, dual path, Hydrostatic Drive.	Automatic, dual path, Hydrostatic Drive.
System relief pressure	45,000 kPa (6,526.7 psi)	45,000 kPa (6,526.7 psi)
Maximum travel speeds	10.5 km/h (6.5 mph)	10.5 km/h (6.5 mph)
Steering	Single-lever steering, speed, direction control, and counter rotation.	Single-lever steering, speed, direction control, and counter rotation.
Final drives	Double-reduction final drives mounted independently of track frames and dozer push frames for isolation from shock loads.	Double-reduction final drives mounted independently of track frames and dozer push frames for isolation from shock loads.
Total ratio	48 to 1	48 to 1
Maximum drawbar pull	168 kN (37,768 lb)	181 kN (40,690 lb)
Brakes		
Service	Hydrostatic (dynamic) braking.	Hydrostatic (dynamic) braking.
Parking	Independent spring-applied, hydraulically released park brake feature engages wet, multiple-disc brakes.	Independent spring-applied, hydraulically released park brake feature engages wet, multiple-disc brakes.

UNDERCARRIAGE

	TD-8S LT	TD-9S LT
Blade type	6-way	6-way
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	1,575 mm (62 in.)	1,640 mm (65 in.)
Track shoe width	406 mm (16 in.)	457 mm (18 in.)
Chain	Sealed and lubricated	Sealed and lubricated
Shoes, each side	40	42
Track rollers, each side	7	7
Track length on ground	2,333 mm (91.7 in.)	2,432 mm (95.7 in.)
Ground contact area	18,943 cm ² (2,936 sq. in.)	22,374 cm ² (3,468 sq. in.)
Ground pressure	51 kPa (7.4 psi)	48 kPa (6.7 psi)
Track pitch	165 mm (6.5 in.)	165 mm (6.5 in.)

	TD-8S LGP	TD-9S LGP
Blade type	6-way	6-way
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	1,725 mm (68 in.)	1,790 mm (70 in.)
Track shoe width	660 mm (26 in.)	710 mm (28 in.)
Chain	Sealed and lubricated	Sealed and lubricated
Shoes, each side	40	42
Track rollers, each side	7	7
Track length on ground	2,333 mm (91.7 in.)	2,432 mm (95.7 in.)
Ground contact area	30,795 cm ² (4,773 sq. in.)	34,534 cm ² (5,353 sq. in.)
Ground pressure	33 kPa (4.7 psi)	31 kPa (4.5 psi)
Track pitch	165 mm (6.5 in.)	165 mm (6.5 in.)

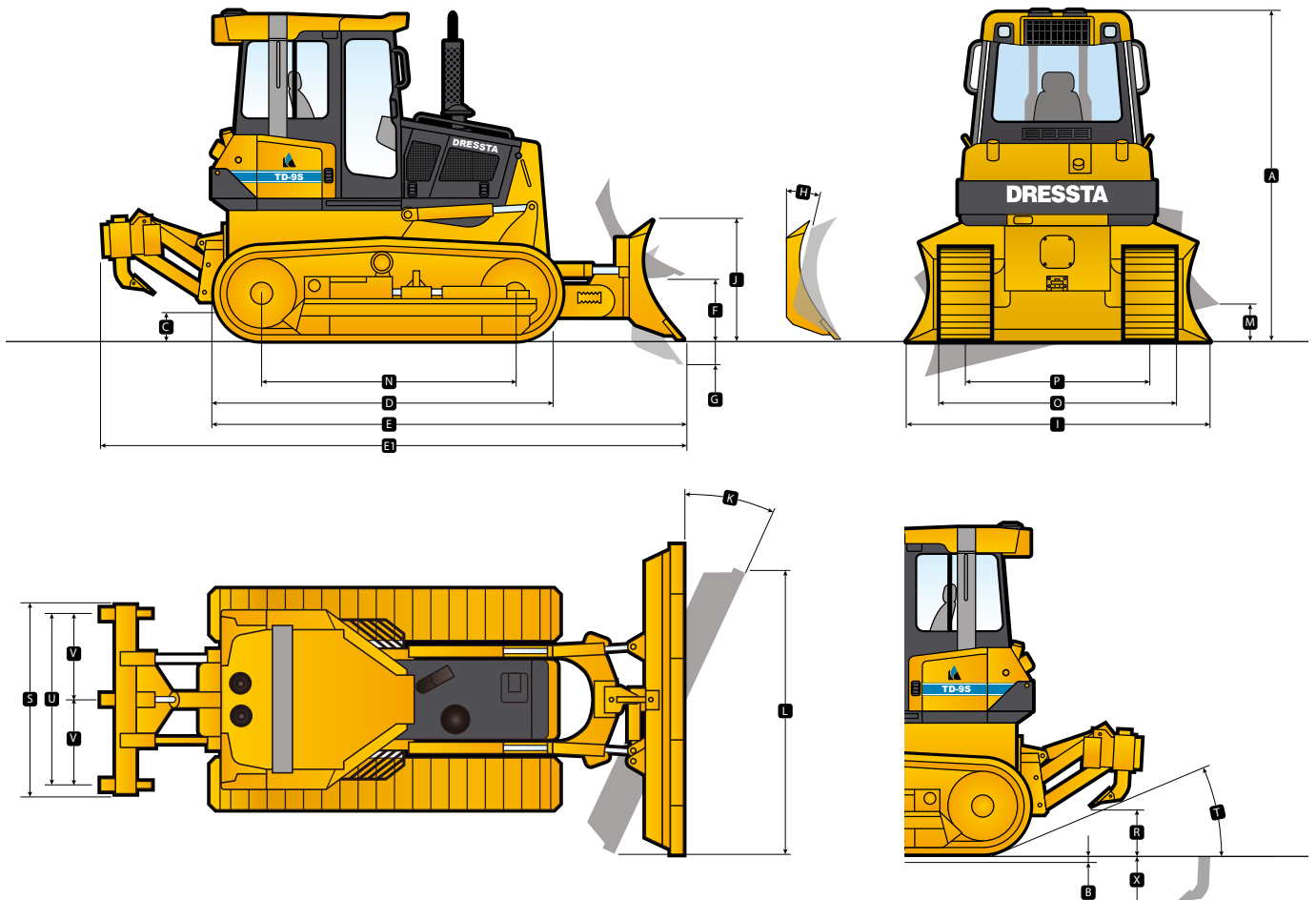
SERVICEABILITY

TD-8S LT / TD-8S LGP / TD-9S LT & TD-9S LGP

Refill capacities	
Fuel tank	185L (48 US gal.)
Cooling system	23 L (6 US gal.)
Engine oil	11 L (2.7 US gal.)
Hydraulic reservoir	116 L (30.6 US gal.)
Final drive, each side	18.5 L (4.8 US gal.)

OPERATING WEIGHTS

	TD-8S LT	TD-8S LGP	TD-9S LT	TD-9S LGP
Blade type	6-way	6-way	6-way	6-way
Base weight with 6-way blade, standard equipment, cab ROPS/FOPS, full fuel tank and 79 kg (175 lb.) operator	10,000 kg (22,046 lb.)	10,300 kg (22,707 lb.)	11,000 kg (24,251 lb.)	11,300 kg (24,912 lb.)
Optional components				
Ripper w/3 shanks	510 kg (1,120 lb.)	510 kg (1,120 lb.)	850 kg (1,874 lb.)	850 kg (1,874 lb.)
Track shoes				
381 mm (15 in.)	-34 kg (-74 lb.)	-	-	-
432 mm (17 in.)	77 kg (170 lb.)	-	-	-
508 mm (20 in.)	-	-	74 kg (164 lb.)	-
610 mm (24 in.)	-	262 kg (577 lb.)	-	156 kg (343 lb.)



MACHINE DIMENSIONS

	TD-8S LT	TD-8S LGP	TD-9S LT	TD-9S LGP
Blade type	6-way	6-way	6-way	6-way
A Overall height – cab ROPS/FOPS	2.87 m (9 ft. 5 in.)	2.87 m (9 ft. 5 in.)	2,851 mm (9 ft. 4.2 in.)	2,851 mm (9 ft. 4.2 in.)
B Grouser height	53.6 mm (2.11 in.)	53.6 mm (2.11 in.)	53.6 mm (2.11 in.)	53.6 mm (2.11 in.)
C Ground clearance	367 mm (14.4 in.)	367 mm (14.4 in.)	426 mm (16.7 in.)	426 mm (16.7 in.)
D Overall length, base machine	3.08 m (10 ft. 1.2 in.)	3.08 m (10 ft. 1.2 in.)	3.22 m (10 ft. 6.7 in.)	3.22 m (10 ft. 6.7 in.)
E Length with blade	4.36 m (14 ft. 3.6 in.)	4.36 m (14 ft. 3.6 in.)	4.38 m (14 ft. 4.5 in.)	4.38 m (14 ft. 4.5 in.)
E1 Length with blade and ripper	5.23 m (17 ft. 2 in.)	5.23 m (17 ft. 2 in.)	5.5 m (18 ft. 1 in.)	5.5 m (18 ft. 1 in.)
F Blade lift height	0.82 m (32.3 in.)	0.82 m (32.3 in.)	0.85 m (33.5 in.)	0.85 m (33.5 in.)
G Blade digging depth	0.47 m (18.5 in.)	0.47 m (18.5 in.)	0.45 m (17.7 in.)	0.45 m (17.7 in.)
H Blade cutting-edge angle, adjustable	8 deg (52 to 60 deg.)	8 deg (52 to 60 deg.)	8 deg (52 to 60 deg.)	8 deg (52 to 60 deg.)
I Blade width	2,733 mm (8 ft. 11 in.)	2,974 mm (9 ft. 9 in.)	2,885 mm (9 ft. 5.4 in.)	3,342 mm (10 ft. 11.5 in.)
J Blade height	950 mm (3 ft. 2 in.)	950 mm (3 ft. 2 in.)	1,020 mm (3 ft. 4.2 in.)	990 mm (3 ft. 3 in.)
SAE Capacity	1.84 m ³ (2.4 yd ³)	2.0 m ³ (2.6 yd ³)	2.2 m ³ (2.9 yd ³)	2.4 m ³ (3.1 yd ³)
K Blade angle	25 deg.	25 deg.	25 deg.	25 deg.
L Overall width with blade angled	2.51 m (8 ft. 3 in.)	2.72 m (8 ft. 11 in.)	2.64 m (8 ft. 8 in.)	3.06 m (10 ft. 1 in.)
M Blade tilt	0.33 m (13 in.)	0.33 m (13 in.)	0.35 m (13.8 in.)	0.4 m (15.7 in.)
N Track length on ground	2,333 mm (91.7 in.)	2,333 mm (91.7 in.)	2,432 mm (95.7 in.)	2,432 mm (95.7 in.)
O Width over track	1,981 mm (6 ft. 6 in.)	2,385 mm (7 ft. 9.7 in.)	2,097 mm (6 ft. 10.6 in.)	2,500 mm (8 ft. 2.4 in.)
P Track gauge	1,575 mm (61 in.)	1,725 mm (69 in.)	1,640 mm (64.6 in.)	1,790 mm (70.5 in.)

RIPPER

Heavy-duty parallelogram 3-shank ripper	TD-8S LT / TD-8S LGP	TD-9S LT & TD-9S LGP
Weight, complete	510 kg (1,120 lb.)	850 kg (1,874 lb.)
Weight of shank	14 kg (30.9 lb.)	47 kg (103.6 lb.)
Shank positions (vertical)	2	2
Q Maximum penetration	378 mm (14.9 in.)	500 mm (19.7 in.)
R Maximum clearance under tip	396 mm (15.6 in.)	460 mm (18.1 in.)
S Overall beam width	1.57 m (5 ft. 2 in.)	1.81 m (5 ft. 11 in.)
T Slope angle (full raise)	34 deg.	34 deg.
U Ripping width	1,029 mm (3 ft. 4.5 in.)	1,600 mm (5 ft. 3 in.)
V Spacing center to center	343 mm (13.5 in.)	800 mm (31.5 in.)