

TD-15R Extra

CRAWLER DOZERS

EPA Tier 4f / EU Stage IV
STANDARD, LT, WT, LGP*

ENGINE

	TD-15R Extra
Make and model	Cummins QSB6.7
Emissions standard	EPA Tier 4f/EU Stage IV
Displacement	6.7 l (409 in ³)
Bore and stroke	107 x 124 mm (4.21 x 4.48 in)
Gross horsepower, SAE J1995	168 kW (225 hp)
Net horsepower, SAE J1349/ ISO 9249	154 kW (206 hp)
Rated rpm	2000
Max. torque	949 Nm (700 lb-ft) @ 1500 rpm
Air cleaner	Cummins Filtration Direct Flow™, dry type, exhaust aspiration, with dash-mounted electronic service indicator
Cold-starting aid	intake- mounted air -inlet grid heater
Slope operation, max. angle	45 deg

COOLING

	TD-15R Extra
Type	Suction- type variable-speed fan, hydraulically driven with perforated engine side sheets and heavy duty louvered front grill
Engine cooling rating	-37 deg C (-34 deg F)

OPERATOR STATION

	TD-15R Extra
ROPS	ROPS (ISO 3471 - 2008)
FOPS	FOPS (ISO 3449 - 2005)

HYDRAULICS

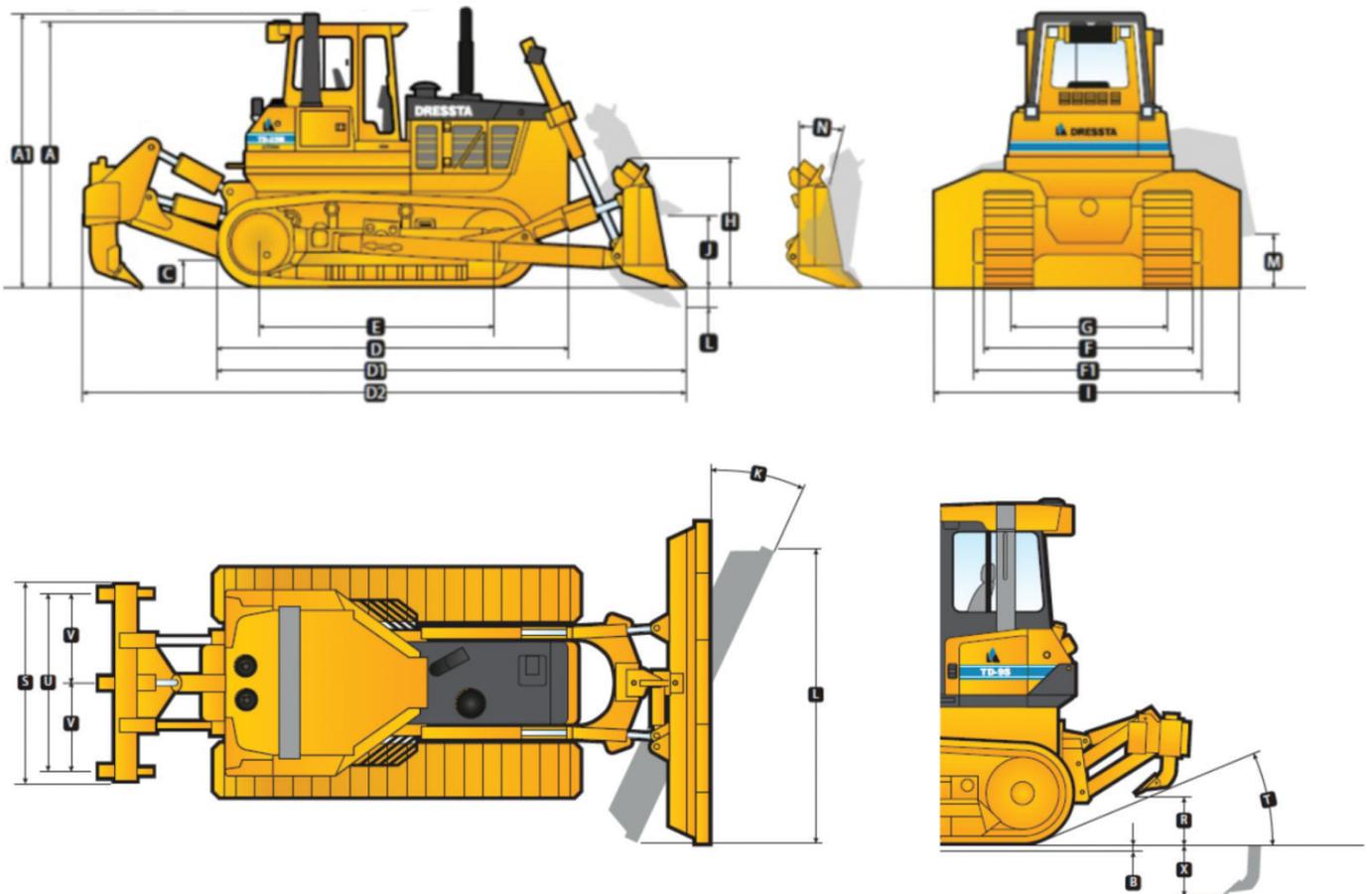
	TD-15R Extra
Type	Open-center hydraulic system with fixed-displacement multiple pump vane type
Pump displacement	204 l/min (53.9 gpm)
System relief pressure	17.2 MPa (2500 psi)
Control	single joystick lever
Cylinders, bore and stroke	
lift (STD)	101.6 x 1233.5 mm (4" x 48.6")
lift (LT,WT,LGP)	101.6 x 1095 mm (4" x 43.1")
tilt	139.7 x 147 mm (5.5" x 5.8")
tilt/pitch	139.7 /152.4 x 147 mm (5.5"/6" x 5.8")

ELECTRICAL

	TD-15R Extra
Voltage	24 V
Number of batteries	2
Battery capacity	815 CCA
Alternator rating	50 A
Lights	8 total; cab mounted (2F& 2R), 2F lift cylinders and 2R fuel tank mounted

MACHINE DIMENSIONS

Type	TD-15R Extra (STD & LT)		TD-15R Extra WT		TD-15R Extra LGP	
	Semi-U	Angle	Semi-U	6-way	Straight	6-way
A Overall height - FOPS Cab	3350 mm (132 in)	3350 mm (132 in)	3350 mm (132 in)	3350 mm (132 in)	3350 mm (132 in)	3350 mm (132 in)
A1 Overall height - ROPS	3450 mm (136 in)	3450 mm (136 in)	3450 mm (136 in)	3450 mm (136 in)	3450 mm (136 in)	3450 mm (136 in)
B Grouser height	64 mm (2.52 in)	64 mm (2.52 in)	64 mm (2.52 in)	64 mm (2.52 in)	64 mm (2.52 in)	64 mm (2.52 in)
C Ground clearance	445 mm (17.5 in)	445 mm (17.5 in)	445 mm (17.5 in)	445 mm (17.5 in)	445 mm (17.5 in)	445 mm (17.5 in)
D Overall length, base machine	STD 4050 mm (13 ft 3.3 in), LT 4220 mm (13 ft 10 in)	4220 mm (13 ft 10 in)	4220 mm (13 ft 10 in)	4220 mm (13 ft 10 in)	4220 mm (13 ft 10 in)	4220 mm (13 ft 10 in)
D1 Length with blade	STD 5230 mm (17 ft 2 in), LT 5670 mm (18 ft 7 in)	STD 5390 mm (17 ft 8 in), LT 5830 mm (19 ft 2 in)	5670 (18 ft 7 in)	5870 (19 ft 3 in)	5520 (18 ft 1 in)	5870 (19 ft 3 in)
D2 Length with blade and 1-shank / 3-shank ripper	STD 6250 mm /6480 mm (20 ft 6 in /21 ft 3 in), LT 6760 mm/6910 mm (22 ft 2 in/22 ft 8 in)	STD 6400 mm /6550 mm (21 ft /21 ft 6 in), LT 6840 mm/6990 mm (22 ft 5 in/22 ft 11 in)	6790 mm /6940 mm (22 ft 3 in/22 ft 9 in)	6880 mm /7030 mm (22 ft 7 in/23 ft 1 in)		
E Track length on ground	STD 2640 mm (104 in), LT 3050 mm (120 in)	3050 mm (120 in)	3050 mm (120 in)	3050 mm (120 in)	3050 mm (120 in)	3050 mm (120 in)
F Width over track	2440 mm (96 in)	2440 mm (96 in)	2790 mm (110 in)	2790 mm (110 in)	3100 mm (122 in)	3100 mm (122 in)
F1 Width over trunnions	2810 mm (110.6 in)	2810 mm (110.6 in)	2910 mm (114.5 in)		3340 mm (131.5 in)	
G Track gauge	1930 mm (76 in)	1930 mm (76 in)	2030 mm (80 in)	2030 mm (80 in)	2160 mm (85 in)	2160 mm (85 in)



BLADE SPECS

Type	TD-15 (STD & LT)		TD-15 WT		TD-15 LGP	
	Semi-U	Angle	Semi-U	6-way	Straight	6-way
SAE capacity	5.7 m ³ (7.45 cu yd)	3.8 m ³ (5.0 cu yd)	5.95 m ³ (7.8 cu yd)	3.8 m ³ (5.0 cu yd)	3.6 m ³ (4.7 cu yd)	4.0 m ³ (5.2 cu yd)
H Blade height	1460 mm (4 ft 10 in)	1120 mm (3 ft 8 in)	1460 mm (4 ft 10 in)	1360 mm (4 ft 7 in)	1100 mm (43 in)	1360 mm (53.5 in)
I Blade width	3440 mm (11 ft 3 in)	4130 mm (13 ft 7 in)	3590 mm (11 ft 9 in)	3680 mm (12 ft 1 in)	3860 mm (12 ft 8 in)	3830 mm (12 ft 7 in)
J Blade lift height	STD 1104 mm (43.5 in), LT 1102 mm (43.4 in)	STD 1102 mm (43.4 in), LT 1119 mm (44 in)	1102 mm (43.4 in)	1280 mm (50.4 in)	1240 mm (49 in)	1280 mm (50.4 in)
K Blade angle	-	25 deg	-	23.5 deg	-	23.5 deg
L Blade digging depth	463 mm (18.2 in)	STD 552 mm (21.7 in), LT 542 mm (21.3 in)	463 mm (18.2 in)	692 mm (27 in)	455 mm (18 in)	692 mm (27 in)
M Maximum tilt	742 mm (28.2 in)	385 mm (15.2 in)	782 mm (30.8 in)	450 mm (18 in)	698 mm (27.5 in)	466 mm (18.3 in)
N Maximum blade pitch adjustment	9 deg	-	9 deg	8 deg	10 deg	8 deg
O Overall width with blade angled	-	3750 mm (12 ft 4 in)	-	STD 3330 mm (10 ft 11 in)	-	3510 mm (11 ft 6 in)

RIPPER

TD-15R Extra

Type	Parallelogram ripper with hydraulic pitch adjustment	
	Single-shank	Multi-shank (3-shank)
R Maximum clearance under tip (raised)	485 mm (19 in)	455 mm (17.9 in)
S Overall beam width	1100 mm (43 in)	2230 mm (88 in)
T Slope angle (full raise)	25 deg	25 deg
U Ripping width	-	2030 mm (6 ft 8 in)
V Spacing center to center	-	1015 mm (3 ft 4 in)
X Maximum penetration	713 mm (28 in)	600 mm (24 in)
Penetration force	71.04 kN (15970 lb)	64 kN (14387 lb)
Pryout force	390.9 kN (87874 lb)	268.7 kN (60404 lb)
Shank positions (vertical)	2	2
Weight of ripper incl. shank(s)	1546 kg (3408 lb)	1743 kg (3843 lb)
Weight of shank	197 kg (434 lb)	94.5 kg (208 lb)

SERVICEABILITY

TD-15R Extra

Refill capacities

Fuel tank	330 l (87.2 US gal)
Cooling system	27 l (7.1 US gal)
Engine oil	18.5 l (4.9 US gal)
Transmission system	153 l (40.4 US gal)
Final drive, each side	40 l (10.6 US gal)
Hydraulic reservoir	60 l (16 US gal)
Diesel Exhaust Fluid (DEF) tank	20 l (5.3 US gal)

OPERATING WEIGHTS

	TD-15R Extra (STD & LT)	TD-15R Extra WT	TD-15R Extra LGP
Base Weight with Semi-U blade w/tilt, drawbar, standard equipment, Cab ROPS/FOPS, full fuel tank, and 79-kg (175 lb) operator	STD 20760kg (45768 lb) LT 20 910kg (46099 lb)	21415 kg (47212 lb)	21720 kg (47884 lb)
Optional components			
Ripper			
Single-shank type	+ 1605 kg (3538 lb)		
3-shank type	+ 1743 kg (3843 lb)		
Track shoes			
508 mm (20 in)	-	-877 kg (1933 lb)	
560 mm (22 in)	+ 125 kg (276 lb)	-740 kg (1631 lb)	
610 mm (24 in)	+ 265 kg (584 lb)	-585 kg (1290 lb)	
660 mm (26 in)	+ 406 kg (895 lb)	-430 kg (948 lb)	-1100 kg (2425 lb)

UNDERCARRIAGE

	TD-15R Extra (STD & LT)	TD-15R Extra WT	TD-15R Extra LGP
Suspension	Oscillation-type with equalizer bar and forward mounted pivot shafts	Oscillation-type with equalizer bar and forward mounted pivot shafts	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	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	1930 mm (76 in)	2030 mm (80 in)	2160 mm (85 in)
Track shoe width	508 mm (20 in)	762 mm (30 in)	940 mm (37 in)
Chain	Sealed and lubricated	Sealed and lubricated	Sealed and lubricated
Shoes, each side	STD 39 LT 43	43	43
Track rollers, each side	STD 6 LT 8	8	8
Track length on ground	STD 2640 mm (104 in) LT 3050 mm (120 in)	3050 mm (120 in)	3050 mm (120 in)
Ground contact area	STD 27000 cm ² (4160 in ²) LT 31000 cm ² (4800 in ²)	46000 cm ² (7200 in ²)	57000 cm ² (8880 in ²)
Ground pressure	STD 75.4 kPa (10.9 psi) LT 66.2 kPa (9.6 psi)	45.7 kPa (6.7 psi)	37.4 kPa (5.5 psi)
Track pitch	215.9 mm (8.5 in)		215.9 mm (8.5 in)
Sprocket sements, each side	1	1	1

POWERTRAIN

TD-15R Extra

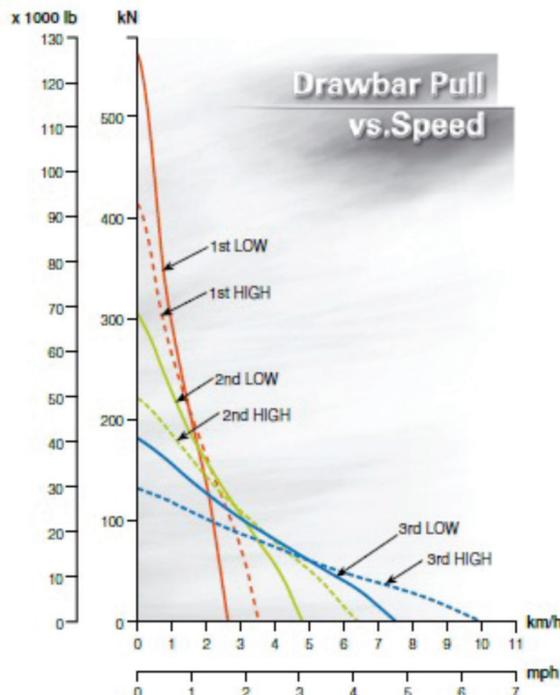
Transmission	Single stage 370 mm (14.6 in) torque converter with a 2:3:1 stall ratio drives to transmission through a double universal joint. Modular, countershaft type power shift transmission, electro-hydraulic control. Preset travel speed and auto-downshift
Steering	Exclusive 2-speed geared steering 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 final drives mounted independently of track frames and dozer push arms for isolation from shock loads
Total ratio	12.1 to 1

Gear	Range	Travel speeds	
		Forward	Reverse
		km/h (mph)	km/h (mph)
1st	Low	2.8 (1.7)	3.3 (2.1)
	High	3.8 (2.4)	4.5 (2.8)
2nd	Low	5.0 (3.1)	6.0 (3.7)
	High	6.7 (4.2)	8.0 (5.0)
3rd	Low	8.0 (5.0)	9.3 (5.8)
	High	10.5 (6.5)	12.3 (7.6)

Maximum drawbar pull	535.3 kN (118,688 lb)	
Drawbar Pull - Speed 1	kN (lbf)	535.3 (118688) - 1st Low
Drawbar Pull - Speed 1	'000 kgf ('000 lbf)	54.58 (118.68) - 1st Low
Drawbar Pull - Speed 2	kN (lbf)	390.0 (87675) - 1st High
Drawbar Pull - Speed 2	'000 kgf ('000 lbf)	39.77 (87.65) - 1st High
Drawbar Pull - Speed 3	kN (lbf)	283.5 (63733) - 2nd Low
Drawbar Pull - Speed 3	'000 kgf ('000 lbf)	28.91 (63.73) - 2nd Low
Drawbar Pull - Speed 4	kN (lbf)	199.6 (48872) - 2nd High
Drawbar Pull - Speed 4	'000 kgf ('000 lbf)	20.35 (48.87) - 2nd High
Drawbar Pull - Speed 5	kN (lbf)	`
Drawbar Pull - Speed 5	'000 kgf ('000 lbf)	16.55 (36.48) - 3rd Low
Drawbar Pull - Speed 6	kN (lbf)	116.3 (26.145) - 3rd High
Drawbar Pull - Speed 6	'000 kgf ('000 lbf)	11.86 (26.14) - 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-15R Extra

ENGINE

Engine, Cummins QSB6.7, Tier 4 Final, emission certified, turbocharged, High Pressure Common Rail (HPCR), Diesel Oxidation Catalyst (DOC) + Selective Catalytic Reduction (SCR), Electronic Controls (ECM), 154 kW (205 fwhp)

Air cleaner, Cummins Filtration Direct Flow™, dry type with precleaner, dust ejector system, exhaust aspiration and electronic service indicator Antifreeze, -34°F (-37°C)

Cooling module; includes radiator, transmission oil cooler, charge air cooler (CAC); isolation mounted

Coolant filter conditioner

Fan, hydraulically driven blower

Filters, engine oil, full flow and by-pass with replaceable "spin-on" elements

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)

OPERATOR'S ENVIRONMENT

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

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

Electronic Monitoring System, LCD display:

Normal and diagnostic operating modes for engine and drive train, houmeter, gear, range

Gauges: voltmeter (battery charge), drive train oil temperature, fuel level, coolant temperature, tachometer (engine rpm), AdBlue® tank level

Engine and drive train diagnostics program indicator lights

Engine intake air heating (grid heater) indicator light

Warning lights: engine ECM status, high drive train oil temperature, low coolant level, low engine oil pressure, high coolant temperature, low fuel level, high exhaust system temperature, AdBlue® tank low level, battery charge level, low transmission/clutch oil pressure

Warning lights - filters: air cleaner filter, exhaust system (SCR) filter, fan drive system filter, hydraulic oil filters, drive train pressure filter

Audible alarm for low coolant level, low engine oil pressure, high coolant temperature

ELECTRICAL

Alarm, back-up

Alternator 110 A

Dual batteries 12 V, 960 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

Receptacle, starting/charging plug

Starting, 24 V

Starting aid - air grid heater

GUARDS

Crankcase, hinged, 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 door, louvered, hinged

UNDERCARRIAGE (STD)

Track adjusters, hydraulic

Track chain, sealed and lubricated (LTS) with split master link, 43 links

Track chain end guides, integral

Track frame, 6 roller, 1930 mm (76") gauge, oscillating type, lifespan lubricated rollers and idlers

Track shoes, 508 mm (20") severe service

UNDERCARRIAGE (LT)

Track adjusters, hydraulic

Track chain, sealed and lubricated (LTS) with split master link, 39 links

Track chain center guides

Track chain end guides, integral

Track frame, 8 roller, 1930 mm (76") gauge, oscillating type, lifespan lubricated rollers and idlers

Track shoes, 508 mm (20") severe service

UNDERCARRIAGE (WT)

Track adjusters, hydraulic

Track chain, sealed and lubricated (LTS) with split master link, 43 links

Track chain center guides

Track chain end guides, integral

Track frame, 8 roller, 2030 mm (80") gauge, oscillating type, lifespan lubricated rollers and idlers

Track shoes, 762 mm (30") severe service

UNDERCARRIAGE (LGP)

Track adjusters, hydraulic

Track chain, sealed and lubricated (LTS) with split master link, 43 links

Track chain center guides

Track chain end guides, integral

Track frame, 8 roller, 2160 mm (85") gauge, oscillating type, lifespan lubricated rollers and idlers

Track shoes, 940 mm (37") extreme clipped corner with bolt holes for 3rd rail track

HYDRAULIC CONTROLS

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

OTHER STANDARD EQUIPMENT

Diagnostic centers for power train and equipment hydraulic pressures

Ecological drains for engine oil, radiator coolant and hydraulic oil

Filters, power train, equipment hydraulics, fuel

Hitch, retrieval

Manuals, parts and operator's

Rear access platform

OPTIONAL EQUIPMENT TD-15R Extra

BLADE EQUIPMENT (STD & LT)

Semi-U, 5.70 m³ (7.45 yd³), complete with all blade components, includes hydraulic tilt and manual pitch or hydraulic tilt/pitch

Angle (manual angle), 3.8 m³ (5.0 yd³), complete with all blade components, includes heavy duty struts, with or without hydraulic tilt

BLADE EQUIPMENT (WT)

Semi-U, 5.95 m³ (7.78 yd³), complete with all blade components, includes hydraulic tilt and manual pitch or hydraulic tilt/pitch

Angle (6-way), 3.8 m³ (5.0 yd³), full hydraulic, inside arm with hydraulic tilt and angle and manual pitch, complete with all blade components and steps on track frame

BLADE EQUIPMENT (LGP)

Straight, 3.6 m³ (4.7 yd³), complete with all blade components, includes hydraulic tilt and manual pitch

Angle (6-way), 4.0 m³ (5.2 yd³), full hydraulic, inside arm with hydraulic tilt and angle and manual pitch, complete with all blade components and steps on track frame

REAR MOUNTED EQUIPMENT (STD & LT)(WT)

Fixed drawbar

Replaces the standard retrieval hitch

Ripper, multi-shank beam, with three shanks, partially mounted, includes deduct for standard hitch

Ripper, single-shank beam, with shank, partially mounted, includes deduct for standard hitch

Rear mounted equipment (LGP)

Fixed drawbar

TRACK SHOES (STD)

560 mm (22") shoes, severe service

610 mm (24") shoes, severe service

660 mm (26") shoes, severe service

TRACK SHOES (WT)

508 mm (20") shoes, square corner, severe service

560 mm (22") shoes, square corner, severe service

610 mm (24") shoes, square corner, severe service

660 mm (26") shoes, square corner, severe service

TRACK SHOES (LT)

560 mm (22") shoes, square corner, severe service

610 mm (24") shoes, square corner, severe service

660 mm (26") shoes, square corner, severe service

TRACK SHOES (LGP)

660 mm (26") shoes, square corner, severe service

Std 940 mm (37") shoes with third rail track system (adds half chain assembly to outer ends of 37" shoes)

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 front, ROPS mounted

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.

GUARDS

Engine hood, perforated

Final drive rock guard

Track roller guard, full length

Transmission and engine crankcase guards, severe service crankcase guard with front pull hook

Tank guard, bolted (0.5" plate protects fuel tank and hydraulic reservoir)

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 all 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)

ADDITIONAL OPTIONS

Sound suppression package, for use with std solid hood or with perforated hood, includes sound suppressed radiator guard doors

Starting/charging receptacle plug assembly (required to jump-start or charge batteries)

Vandalism protection for use with engine enclosures

Maintenance tool kit, 17 items in a metal box

1000 h maintenance package (filters)

1500 h maintenance package (filters)

2000 h maintenance package (filters)

EXPORT PACKING

Export packing, drive on / drive off, machine on the trailer

Export packing, drive on / drive off, machine on the railway wagon

SFRs

Centralized Lubricating System for machine with or without ripper

Trimble Ready Option

Factory preinstalled hydraulics, harness and brackets for the Trimble Grade Control System components

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info@dressta.com
www.dressta.com

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