

TD-15M Extra

CRAWLER DOZERS

EPA Tier 3/EU Stage IIIA
STANDARD, LT, WT, LGP*

ENGINE

	TD-15R Extra
Make and model	Cummins QSC 8.3
Emissions standard	EPA Tier 3/EU Stage IIIA
Displacement	8.3l (505 in3)
Bore and stroke	114x135 mm (4.49 x 5.32 in)
Gross horsepower, SAE J1995	153 kW (205 hp)
Net horsepower, SAE J1349/ ISO 9249	142 kW (190 hp)
Rated rpm	1950
Max. torque	1010 Nm (745 lb-ft) @ 1450 rpm
Air cleaner	2-stage, dry type , with dash mounted electronic service indicator
Cold-starting aid	intake- mounted air -inlet grid hater
Slope operation, max. angle	45 deg

COOLING

	TD-15M Extra
Type	suction- type fan, belt driven with perforated engine side sheets and heavy duty louvered front grill
Engine cooling rating	-37 deg C (-34 deg F)

OPERATOR STATION

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

HYDRAULICS

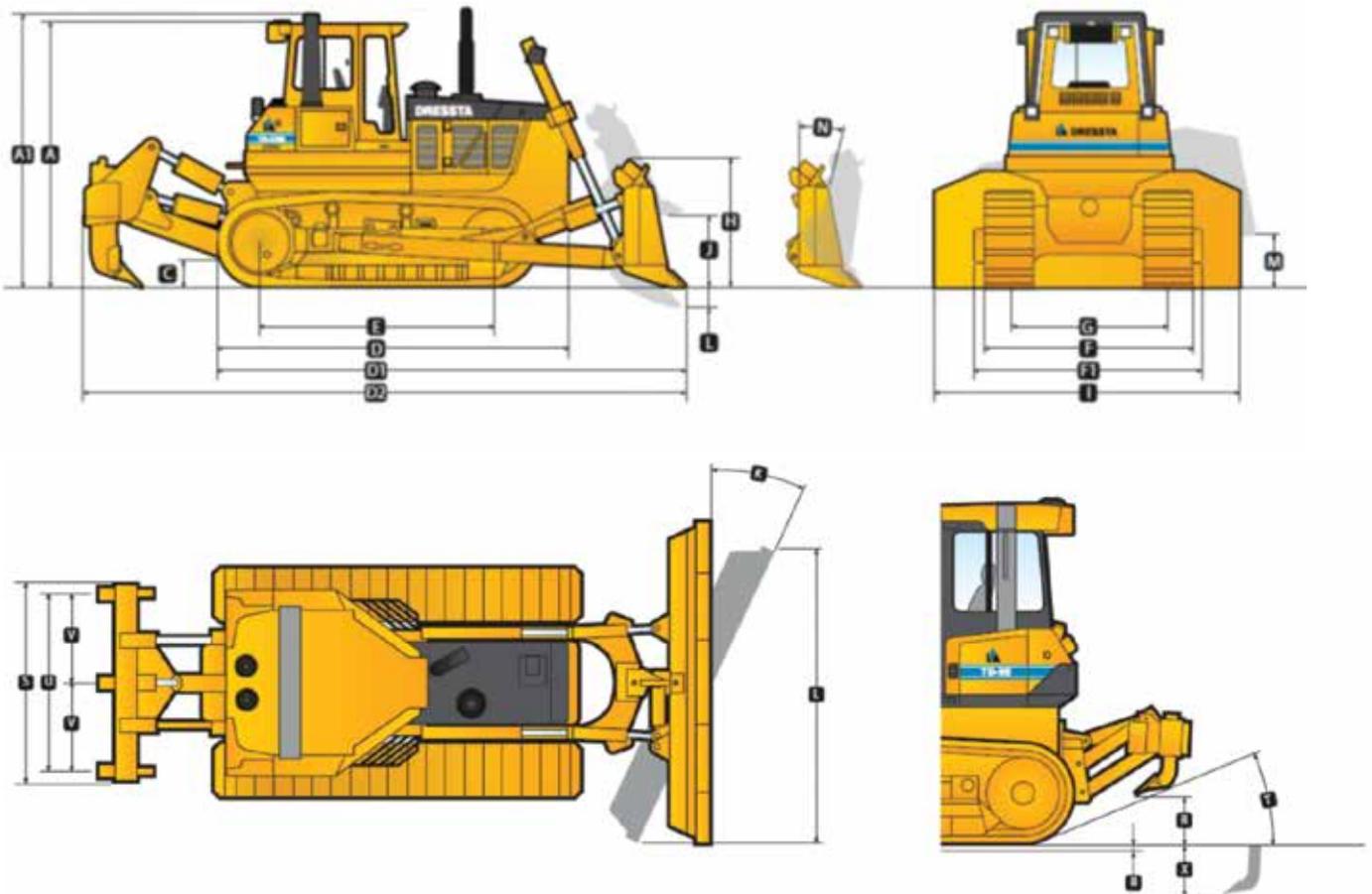
	TD-15R Extra
Type	Open-center hydraulic system with fixed-displacement multiple pump vane type
Pump displacement	173 l/min (46 gpm)
System relief pressure	17.2 MPa (2500 psi)
Control	single joystick lever
Cylinders,bore and stroke	
lift (STD)	101.6 x 1233.5 mm (4" x 48.6")
lift (LT,WT,LGP)	101.6 x 1095 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-15M 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-15M Extra (STD & LT)		TD-15M Extra WT		TD-15M 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 mm (18 ft 7 in)	5870 mm (19 ft 3 in)	5520 mm (18 ft 1 in)	5870 mm (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-15M Extra (STD & LT)		TD-15M Extra WT		TD-15M Extra LGP	
	Semi-U	Angle	Semi-U	6-way	Straight	6-way
SAE capacity	7.04 m ³ (9.2 cu yd)	3.88 m ³ (5.1 cu yd)	7.04 m ³ (9.2 cu yd)	3.88 m ³ (5.1 cu yd)	6.03 m ³ (7.9 cu yd)	3.88 m ³ (5.1 cu yd)
H Blade height	1600 mm (5 ft 3 in)	1090 mm (43 in)	1600 mm (5 ft 3 in)	1090 mm (43 in)	1360 mm (54 in)	1090 mm (43 in)
I Blade width	3500 mm (11 ft 6 in)	4410 mm (174 in)	3500 mm (11 ft 6 in)	4410 mm (174 in)	4370 mm (172 in)	4410 mm (174 in)
J Blade lift height	STD 1150 mm (45 in), LT 1220 mm (48 in)	STD 1160 mm (46 in), LT 1230 mm (48.4 in)	STD 1150 mm (45 in), LT 1220 mm (48 in)	STD 1160 mm (46 in), LT 1230 mm (48.4 in)	1210 mm (47.6 in)	STD 1160 mm (46 in), LT 1230 mm (48.4 in)
K Blade angle	-	25 deg	-	23.5 deg	-	23.5 deg
L Blade digging depth	STD 505 mm (19.9 in), LT 532mm (20.9 in)	STD 615 mm (24.2 in), LT 647mm (25.5 in)	STD 505 mm (19.9 in), LT 532mm (20.9 in)	STD 615 mm (24.2 in), LT 647mm (25.5 in)	522 mm (20.6 in)	STD 615 mm (24.2 in), LT 647mm (25.5 in)
M Maximum tilt	670 mm (26.3 in)	480 mm (19 in)	670 mm (26.3 in)	480 mm (19 in)	660 mm (26 in)	480 mm (19 in)
N Maximum blade pitch adjustment	10 deg	-	10 deg	-	10 deg	-
O Overall width with blade angled	-	STD 5770 mm (18 ft 11 in), LT 5990 mm (19ft 8in)	-	STD 5770 mm (18 ft 11 in), LT 5990 mm (19 ft 8 in)	-	STD 5770 mm (18 ft 11 in), LT 5990 mm (19 ft 8 in)

RIPPER

Type	TD-15M Extra	
	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)	1734 kg (3843 lb)
Weight of shank	197 kg (434 lb)	94.5 kg (208 lb)

SERVICEABILITY

TD-15M Extra	
Refill capacities	
Fuel tank	388 l (102.5 US gal)
Cooling system	50 l (13.2 US gal)
Engine oil	23 l (6.1 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)

OPERATING WEIGHTS

	TD-15W Extra (STD & LT)	TD-15W Extra WT	TD-15W 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 20 660 kg (45 547 lb) LT 20 810kg (45 878 lb)	21 315 kg (46 991 lb)	21 620 kg (47 663 lb)
Optional components			
Ripper			
Single-shank type	+ 1546 kg (3408 lb)	+ 1546 kg (3408 lb)	
3-shank type	+ 1743 kg (3843 lb)	+ 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-15M Extra (STD & LT)	TD-15M Extra WT	TD-15M 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 75.4kPa (10.9 psi) LT 65.8 kPa (9.5 psi)	44.9 kPa (6.5 psi)	36.9 kPa (5.4 psi)
Track pitch	215.9 mm (8.5 in)		215.9 mm (8.5 in)
Sprocket sements, each side	1	1	1

POWERTRAIN

TD-15M Extra

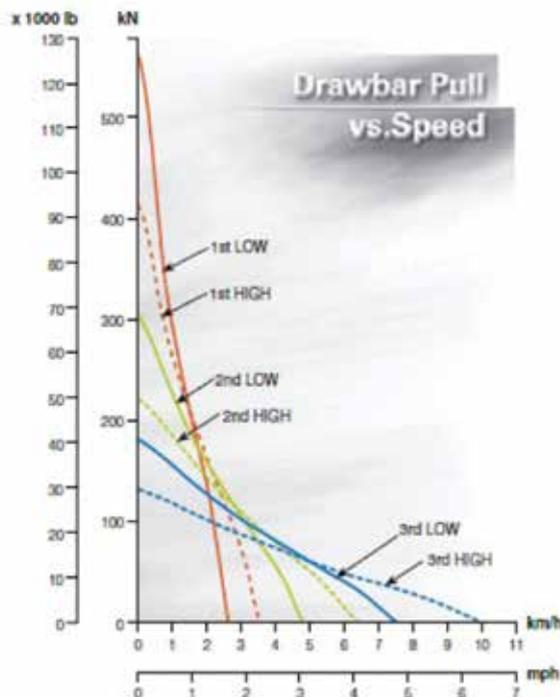
Transmission	Single stage 370 mm (14.6 in) torque converter with a 2:3:1 stall ratio drives to transmission through a double universal joint. Modular, countershaft type power shift transmission, electro-hydraulic control. Preset travel speed and auto-downshift
Steering	Exclusive 2-speed geared steering 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	Forward	Reverse
		km/h (mph)	km/h (mph)
1st	Low	2.7 (1.7)	3.2 (2.0)
	High	3.6 (2.2)	4.3 (2.7)
2nd	Low	4.9 (3.0)	5.7 (3.5)
	High	6.5 (4.0)	7.6 (4.7)
3rd	Low	7.7 (4.8)	9.0 (5.6)
	High	10.2 (6.3)	11.9 (7.4)

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-15M Extra

ENGINE

Engine, Cummins QSC8.3, Tier 3, emission certified, turbocharged, direct start, direct injection, 142 kW (190 fwhp)
Air cleaner, dry type with exhaust aspirated primary, safety elements and service indicator
Antifreeze, -34°F (-37°C)
Cooling module; includes radiator, transmission oil cooler, charge air cooler; isolation mounted
Coolant filter conditioner
Exhaust pipe extension with elbow
Fan belt-driven, blower
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
Final drive, 2-stage

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

Gauges: fuel level, engine coolant temperature, engine oil pressure, torque converter oil temp., voltmeter, hourmeter, joystick control display
Warning lights: air cleaner filter, transmission oil filter, hydraulic oil filter, transmission/clutch oil low pressure
Audible & visual warning system: low engine coolant level, low engine oil pressure

ELECTRICAL

Alarm, back-up
Alternator 50 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, 39 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, 43 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
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
Hitch, retrieval
Manuals, parts and operator's
Rear access platform
Fuel strainer and hydraulic tank

OPTIONAL EQUIPMENT TD-15M 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/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/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)

S-2 Straight Dozer, complete with all blade components, includes hydraulic tilt and manual pitch

Angle Dozer (6-way), 4.0 cu m (5.2 cu yd), 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

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 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

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)

Inspection lamp, portable

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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