





Specification

ENGINE

- * Meets EU Stage IIIB and US EPA Tier 4 Interim emission standards The engine requires to use Ultra Low Sulfur Diesel (ULSD) fuel
- **Net Horsepower at the minimum speed of hydraulic fan 202 kW (271 hp)

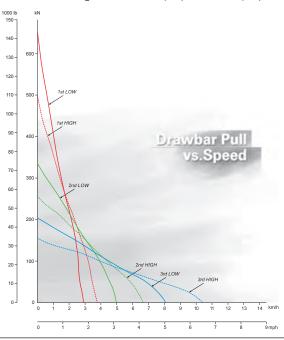
TRANSMISSION & TORQUE CONVERTER

Modular, countershaft type power shift, electro-hydraulic control. Preset travel speed selection and auto-downshift.

Single stage 370 mm (14.6") torque converter with a 2.3:1 stall ratio drives to transmission through a double universal joint.

TRAVEL SPEEDS

Gear	Range	Forward	Reverse
		km/h (mph) km/h (mph)
1 st	Low	2.9 (1.8)	3.4 (2.1)
	High	3.7 (2.3)	4.4 (2.7)
2 nd	Low	5.2 (3.2)	6.1 (3.8)
	High	6.7 (4.1)	7.9 (4.9)
3 rd	Low	8.2 (5.1)	9.6 (6.0)
	High	10.5 (6.5)	12.2 (7.6)



STEERING & BRAKING

Two-speed geared steering module provides gradual turns while maintaining full power to both tracks plus conventional clutch-brake performance for tight or pivot turns. This type of steering system offers superior traction in all types of operations and terrain.

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 geared turn.

Foot pedal applies both brakes for parking and downhill control. Brakes are spring applied and hydraulically released.

FINAL DRIVES

Double-reduction with outboard planetary final drive stage provides desired gear reduction at the sprocket. Ring-type sprocket distributes wear evenly over track bushings letting every tooth ride free one-half of the time to reduce wear. Final drives or sprockets are replaceable without removing track frames.

TRACK FRAME

All-welded heavy box section track frame is kept in alignment with track frame guides providing true vertical oscillation.

Track rollers, each side STD (LT, LGP) 6	
Top idlers, each side	Ž
Front idlers (drum type)	1
All rollers and idlers lifespan lubrication	ed
Oscillation at center of front idler (STD)	3")
Oscillation at center of front idler (LT, LGP) 328 mm (12.9)	

TRACKS

Lubricated Track System (LTS) virtually eliminates internal pin and bushing wear through use of a patented seal assembly. The split master link reduces chain removal and installation time.

Track shoe width, std.	STD 560 mm (22")	LT 560 mm (22")	LGP 864 mm (34")
Track shoes, each side	40	42	42
Ground contact area	3.2 m ² (4,972 in ²)	3.4 m ² (5,324 in ²)	5.3 m ² (8,228 in ²)
Ground pressure (w/standard equipment)	73.5 kPa (10.6 psi)	70.8 kPa (10.3 psi)	46.3 kPa (6.7 psi)
Height of grouser			

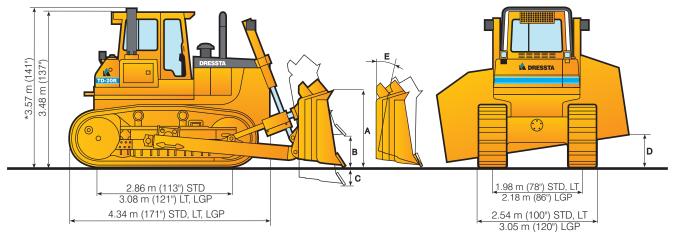
REFILL CAPACITIES

	Liter	(US gal)
Fuel tank	490	(130)
Cooling system	37	(9.8)
Crankcase	22.5	(6.0)
Transmission system	173	(45.8)
Final drive, each side	38	(10)
Hvdraulic reservoir	115	(30.4)

OPERATING WEIGHT

Includes standard equipment with blade and full fuel.

	STD	LT	LGP
Type of blade	Semi-U	Semi-U	Straight
Cab ROPS	23990 kg	24550 kg	25020 kg
	(52,890 lb)	(54,125 lb)	(55,159 lb)
Canopy ROPS	23440 kg	24000 kg	24470 kg
	(51,676 lb)	(52,910 lb)	(53,947 lb)



^{*} OVERALL HEIGHT w/Canopy ROPS/FOPS - 3.62m (142.5") VERTICAL DIMENSIONS INCLUDE 67 mm (2.63") GROUSER HEIGHT

OVERALL DIMENSIONS WITH EQUIPMENT

BLADE SELECTION		SEMI-U	FULL-U	ANGLE	STRAIGHT
Length with blade and drawbar	STD LT LGP	5.69 m (18'8") 5.91 m (19'5") –	5.93 m (19'5") 6.15 m (20'2")	5.77 m (18'11") 5.99 m (19'8") –	- - 5.73 m (18'10")
Length with blade and multi-shank ripper	STD LT	6.89 m (22'7") 7.11 m (23'4")	7.13 m (23'5") 7.35 m (24'1")	6.97 m (22'10") 7.19 m (23'7")	
Length with blade and single-shank ripper	STD LT	7.05 m (23'2") 7.27 m (23'10")	7.29 m (23'11") 7.51 m (24'8")	7.13 m (23'5") 7.35 m (24'1")	-
Width, blade angled		-	-	4.00 m (13'2")	-
Width over trunnions		2.89 m (9'6")	2.89 m (9'6")	2.89 m (9'6")	3.32 m (10'11")
Width over "C" frame		_	_	3.17 m (10'5")	_

BLADE SPECIFICATIONS

BLADE SELECTION		SEMI-U	FULL-U	ANGLE	STRAIGHT
UNDERCARRIAGE		STD & LT	STD & LT	STD & LT	LGP
Blade Capacity, SAE J1265		7.04 m ³ (9.2 yd ³)	8.45 m ³ (11.1 yd ³)	3.88 m ³ (5.1 yd ³)	6.03 m ³ (7.9 yd ³)
Blade dimensions: – width over end bits – height	А	3.5 m (138") 1.6 m (63")	3.86 m (152") 1.6 m (63")	4.41 m (174") 1.09 m (43")	4.37 m (172") 1.36 m (54")
Max. lift, straight	В	STD 1150 mm (45") LT 1220 mm (48")	STD 1150 mm (45") LT 1220 mm (48")	STD 1160 mm (46") LT 1230 mm (48.4")	1210 mm (47.6")
Max. drop below ground level	С	STD 505 mm (19.9") LT 532 mm (20.9")	STD 505 mm (19.9") LT 532 mm (20.9")	STD 615 mm (24.2") LT 647 mm (25.5")	522 mm (20.6")
Max. tilt adjustment	D	670 mm (26.3")	720 mm (28.3")	480 mm (19")	660 mm (26")
Blade angle, either side		_	-	25°	-
Max. pitch adjustment	Е	10°	10°	_	_
Weight of blade equipment		3420 kg (7,540 lb)	3800 kg (8,377 lb)	3230 kg (7,120 lb)	2756 kg (6,076 lb)

RIPPER SPECIFICATIONS

RIPPER SELECTION	MULTI-SHANK	SINGLE-SHANK	
Tool Beam			
Overall width	2130 mm (84")	1383 mm (54")	
Cross section (height x width)	305 x 381 mm (12" x 15")	330 x 478 mm (13" x 18.8")	
Ground clearance under tool beam:			
- ripper raised	1295 mm (51")	1217 mm (48")	
- ripper lowered	178 mm (7")	100 mm (3.9")	
Shanks			
Number of shanks per ripper, max.	3	1	
Spacing center to center	991 mm (39")	-	
Penetration, max.	700 mm (27.6")	834 mm (32.8")	
Ground clearance, max. raised	596 mm (23.5")	538 mm (21.2")	
Shank positions (vertical)	2	2	
Weight			
Complete, including one shank	2900 kg (6,400 lb)	2845 kg (6,272 lb)	
Each additional shank	196 kg (432 lb)	-	
Penetration Force	91.1 kN (20,479 lb)	89.99 kN (20,230 lb)	
Pryout Force	282.2 kN (63,439 lb)	272.3 kN (61,213 lb)	

TD-20R RAWLER DOZER STD-LT-LGP



HYDRAULIC CONTROL SYSTEM

Multiple gear pumps, driven from torque converter. Output @ 6.89 MPa (1,000 psi) and 2330 rpm: 1 st pump - 142 l/min (37.5 gpm)

2 nd pump - 62.5 l/min (16.5 gpm)

and pilot pump output @ 2.07 MPa (300psi) - 35.2 l/min (9.3 gpm)

Relief valve setting: blade lift & ripper... Cylinders, bore and stroke: 110 x 1300 mm (4.33" x 51.18") tilt 180 x 146.5 mm (7,09" x 5.73") . 180/165.1 x 146.5 mm (7.09"/6.5" x 5.73")

STANDARD EQUIPMENT

- Air cleaner, dry type, dust pre-separation block with exhaust aspirated primary, filter elements and service indicator
- Alarm, back-up
- Alternator, 50 A
- Antifreeze, -37°C (-34°F) Batteries, (2) 12 V, 960 CCA, cold start, maintenance free

- Brakes, foot, spring applied, hydraulically released Cab and ROPS Equipment:

 Air conditioner/heater/pressurizer/defroster, underseat mounted, A/C condenser behind roof
- Cab w/sound suppression, air recirculation system, 4 wipers w/washers, inside mirror, dome light and tinted safety glass 2 post ROPS for cab and/or forestry attachment

- Seat belt (SAE J386) 3" wide, retractable
 Seat, air suspension type, fabric cover, adjustable with arm rests, swivel 14° to right
 Sun visor, front cab window
- Coolant filter conditioner
- Cooling module; includes radiator, transmission oil cooler, hydraulic oil/fan drive oil cooler and charge air cooler; isolation mounted
- Decelerator right foot pedal and brake center foot
- pedal Diagnostic centers for power train

- and equipment hydraulic pressures
 Diesel Particulate Filter with catalyst (DPF)
 Drawbar, rigid (STD, LT)
 Ecological drains for engine oil, radiator coolant and hydraulic oil
- Engine hood, solid, sloped Engine side doors, hinged, perforated type Exhaust pipe extension with elbow
- · Fan, hydraulically driven, suction type, variable speed

- Filters, engine oil, full flow and by-pass with replaceable "spin-on" elements
- Filters, power train and equipment hydraulics, "spin-on" micro glass type Final drive seal guard
- Guards: crankcase, hinged, with front pull hook, transmission, fan, radiator, sprocket rock and dirt deflector
- Hitch, retrieval (LGP)
- Horn, electric
- Hydraulic controls, 3-spool valve, 1 lever with pilot operated blade control (lift/tilt), ready for ripper
- Engine ECM failure warning lights and switches
 Gear, range, drive train and engine diagnostic
- Gauges: fuel level, engine coolant temperature, engine oil pressure, drive train system oil temperature, voltmeter, hourmeter, tachometer
- Warning lights: air cleaner filter, drive train oil filters, hydraulic oil filters, transmission/clutch oil low pressure, coolant high temperature, drive train oil high temperature, fan drive oil filter, engine inlet air
- Audible & visual warning system: low engine coolant level, low engine oil pressure
- Lights for cab, 2F-2R
- Lights with guards, 2F lift cylinders mounted, 2R fuel tank mounted
- Radiator guard door, two-piece, louvered, hinged Rear access platform
- Receptacle, starting/charging
- Starting, 24 V
- Starting aid air grid heater
- Steering, planetary type, 2-speed, left hand single lever control (joystick)

- Strainers, fuel and hydraulic tanks
- Tools compartment
- · Torque converter, single stage
- · Transmission, power shift, 3 speeds forward, 3 reverse, combined with 2 speed steering provides 6 speeds forward and 6 reverse, preset travel speed selection and auto-downshift
- UNDERCARRIAGE

Track frames, oscillating type, lifespan lubricated rollers and idlers

Track adjusters, hydraulic

Track chain end guides, integral

- STANDARD (STD) Track chain, sealed and lubricated (LTS) with split master link, 40 links
- Track frame, 6 roller, 1981 mm (78") gauge Track shoes, 560 mm (22"), grouser type
- LONG TRACK (LT)
- Track chain, sealed and lubricated (LTS) with split master link, 42 links
- Track chain center guides
- Track frame, 7 roller, 1981 mm (78") gauge Track shoes, 560 mm (22"), grouser type
- LOW GROUND PRESSURE (LGP)
- Track chain, sealed and lubricated (LTS) with split master link, 42 links
- Track chain center guides
- Track frame, 7 roller, 2180 mm (86") gauge
- Track shoes, 864 mm (34"), extreme clipped corner, grouser type
- Water separator fuel system

OPTIONAL ATTACHMENTS

- AM/FM CD radio
- AM/FM CD radio
 Blade Equipment:

 Full-U, whilt or tilt/pitch, 8.45 cu.m (11.1 cu.yd)

 Semi-U, whilt or tilt/pitch, 7.04 cu.m (9.2 cu.yd)

 Angle dozer, with tilt, 3.88 cu.m (5.1 cu.yd)

 Straight blade (LGP) whilt, 6.03 cu.m (7.9 cu.yd)

 Canopy, 2 post ROPS/FOPS (SAE J1040, J231)

 Drawbar, heavy duty, counterweight

 Engine enclosures: perforated hood and perforated side doors

 Exhaust extension with guard

 (for use with forestry sweeps)

- (for use with forestry sweeps)
 Guards:

- Judius:
 Crankcase, severe service w/hook
 Track roller, full length (LT & LGP)
 Track roller, full length (STD)
 Transmission, severe service
 Tank guard, bolted (includes deduct for rear access platform)

- Heater/pressurizer/defroster
- Inspection lamp, 24 V, portable with 6 m (20') cable

- Instrument panel guard
 (for use w/Canopy ROPS/FOPS)
 Lights for Canopy ROPS/FOPS, 2F-2R
 Lights, 2F, ROPS mounted, for use w/cab (not for use with sweeps)
- · Lights, 2F, sweeps mounted (instead of standard 2F lift cylinder mounted lights)
- Mirrors, 2 pcs, exteriorRipper, multi-shank beam
- Hydraulic pitch for ripper beam
- Ripper shank w/pin, max. 3 Ripper, single-shank beam
- Hydraulic pitch for ripper beam
- Pin puller, hydraulic Ripper shank

- Screening package; cab for screens
- Screening package, cab for screens installation must be ordered
 Screens for cab windows (front, rear, side and doors)
 Screen sor tractor and cab lights
 Screen rear (includes deduct for standard rear access platform)
- Screen rear (includes deduct for standard rear access platform)
 Seat, air suspension, vinyl cover (for use w/canopy ROPS/FOPS)
 Starting/charging receptacle plug assembly with 4,6 m (15) cable
 Sun visor for side door windows
 Sweeps, forestry, front and rear
 Tools in metal box
 Track shoes, set of 80, clipped corner (STD) 610 mm (24"), 660 mm (26")
 Track shoes, set of 84, clipped corner (LT) 610 mm (24"), 660 mm (26")
 Vandalism protection

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

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