

TD-40R Extra

CRAWLER DOZERS

EPA Tier 4f / EU Stage IV
STANDARD

ENGINE

	TD-40R Extra
Make and model	Perkins 2806F
Emissions standard	EPA Tier 4f / EU Stage IV
Displacement	18.1 L (912 in ³)
Bore and stroke	145 x 183 mm (5.71 in x 7.20 in)
Gross horsepower, SAE J1995	429 kW (575 Hp)
Net horsepower, SAE J1349/ ISO 9249	397 kW (532 Hp)
Rated rpm	2000
Max. torque	2694 Nm (1987 lb-ft) @ 1300 rpm
Air cleaner	Dry type, with dash-mounted electronic service indicator
Slope operation, max. angle	45°

COOLING

	TD-40R Extra
Type	Suction-type variable-speed fan, hydraulically driven with perforated engine side sheets and heavy-duty louvered front grill
Engine coolant rating	-37 °C (-34 °F)

OPERATOR STATION

	TD-40R Extra
ROPS	ROPS (ISO 3471 - 2008)
FOPS	FOPS (ISO 3449 - 2005)

HYDRAULICS

	TD-40R Extra
Type	Open-center hydraulic system with fixed-displacement multi-pump vane type
Pump displacement	398 L/min (105 gpm)
System relief pressure	Blade lift & ripper 17 MPa (2,400 psi); blade tilt 18.4 MPa (2,670 psi)
Control	Single joystick lever
Cylinders, bore and stroke	
lift	152.4 x 1760 mm (6.0" x 69.3")
tilt	254 x 175 mm (10" x 6.9")
tilt/pitch	220 /254 x 175 mm (8.6"/10" x 6.9")

UNDERCARRIAGE

	TD-40R Extra
Suspension	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
Track gauge	2500 mm (8' 2")
Track shoe width	610 mm (24 in)
Chain	Sealed and lubricated
Shoes, each side	39
Track rollers, each side	7
Track length on ground	3610 mm (11' 10')
Ground contact area	44,000 cm ² (6,816 in ²)
Ground pressure	151 kPa (21.9 psi)
Track pitch	280 mm (11 in)
Sprocket sements, each side	1

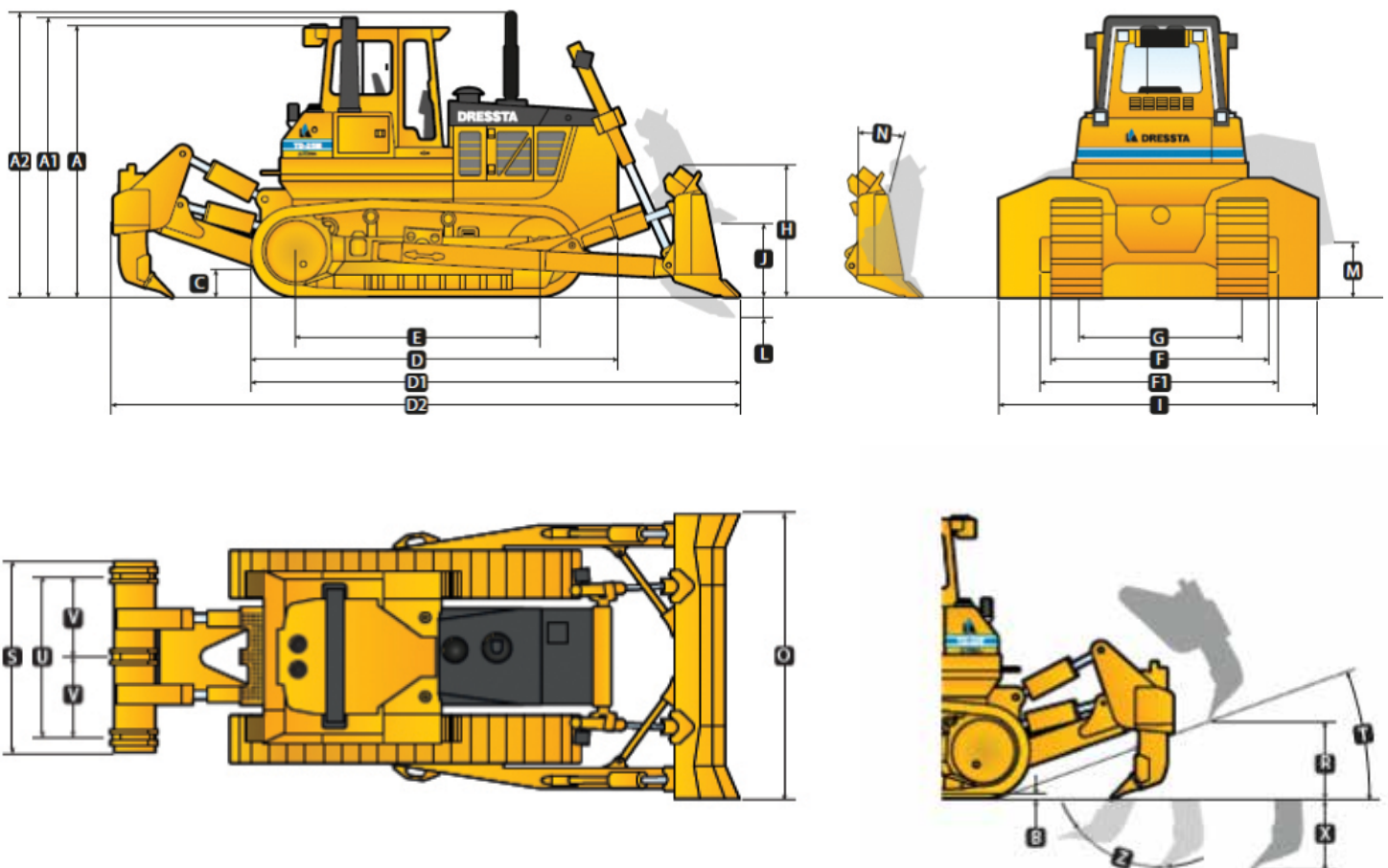
ELECTRICAL

	TD-40R Extra
Voltage	24 V
Number of batteries	4
Battery capacity	960 CCA
Alternator rating	150 A
Lights	8 total; cab mounted (2 front & 2 rear), 2 front lift cylinders and 2 mounted on the rear fuel tank

MACHINE DIMENSIONS

TD-40R Extra

A Overall height - FOPS Cab	4,060 mm (13' 10")
A1 Overall height - ROPS	4,220 mm (13' 10")
A2 Overall height - end of exhaust pipe	4,410 mm (14' 6")
B Grouser height	93 mm (3.66 in)
C Ground clearance	600 mm (23.7 in)
D Overall length, base machine	5,750 mm (18' 10")
D1 Length with blade	6.94 m (22 ft 9.4 in)
D2 Length with blade and 1-shank / 3-shank ripper	10.350 m / 9.76 m (34 ft / 32 ft)
E Track length on ground	3,610 mm (11' 10")
F Width over track	3,110 mm (10' 2")
F1 Width over trunnions	3,730 mm (12' 3")
G Track gauge	2,500 mm (8' 2")



BLADE SPECS

Type	TD-40R Extra		
	Semi-U	Full-U	Coal
SAE capacity	18.6 m ³ (24.3 yd ³)	22.8 m ³ (29.8 yd ³)	39.8 m ³ (52 yd ³)
H Blade height	2,230 mm (7' 4")	2,260 mm (7' 5")	2,500 mm (8' 2")
I Blade width	4,810 mm (15' 9")	5,180 mm (17')	6850 mm (22' 6")
J Blade lift height	1,530 mm (5' 0.2")	1,530 mm (5' 0.2")	1,460 mm (4' 9.5")
K Blade angle	-	-	-
L Blade digging depth	830 mm (32.7 in)	830 mm (32.7 in)	875 mm (34.4 in)
M Maximum tilt	1,150 mm (45.3 in)	1,250 mm (49.2 in)	1,650 mm (65 in)
N Maximum blade pitch adjustment	10°	10°	10°
O Overall width with blade angled	-	-	-

RIPPER

Type	TD-40R Extra		
	Single-shank (Standard)	Single-shank (Deep Dig)	Multi-shank (3-shank)
	Parallelogram ripper with hydraulic pitch adjustment		
R Maximum clearance under tip (raised)	1,000 mm (39 in)	720 mm (28 in)	950 mm (37 in)
S Overall beam width	1,670 mm (65.7 in)	1,670 mm (65.7 in)	2,880 mm (113.5 in)
T Slope angle (full raise)	30.8°	30.8°	30.8°
U Ripping width	-	-	2,380 mm (94 in)
V Spacing center to center	-	-	1,190 mm (47 in)
X Maximum penetration	1,290 mm (51 in)	1,670 mm (66 in)	1,000 mm (39 in)
Z Maximum pitch adjustment	25.1°	25.1°	25.1°
Penetration force	200 kN (44,960 lb)	200 kN (44,960 lb)	205 kN (46,084 lb)
Pryout force	612 kN (137,578 lb)	612 kN (137,578 lb)	622.5 kN (139,938 lb)
Shank positions (vertical)	4	4	2
Weight of ripper incl. shank(s)	8,356 kg (18,422 lb)	8,461 kg (18,653 lb)	8,728 kg (19,242 lb)
Weight of shank	668 kg (1,473 lb)	773 kg (1,704 lb)	570 kg (1,260 lb)

OPERATING WEIGHTS

	TD-40R Extra
Base weight with Semi-U blade w/tilt, single-shank ripper, standard equipment, cab ROPS/FOPS, full fuel tank, and 79 kg [175 lb] operator)	67,850 kg (149,584 lb)
Optional components	
Ripper w/3 shanks	+ 372 kg (820 lb))
Track shoes	
660 mm (26 in)	+ 335 kg (740 lb)
762 mm (30 in)	+ 760 kg (1677 lb)
800 mm (31.5 in)	+ 920 kg (2030 lb)

SERVICEABILITY

	TD-40R Extra
Refill capacities	
Fuel tank	1270 L (340 US gal)
Cooling system	89.5 L (23.6 US gal)
Engine oil	65 L (17.17 US gal)
Transmission system	270 L (71 US gal)
Final drive, each side	85 L (22.5 US gal)
Hydraulic reservoir	184 L (48.6 US gal)
AdBlue (DEF)	44 L (12 US gal)

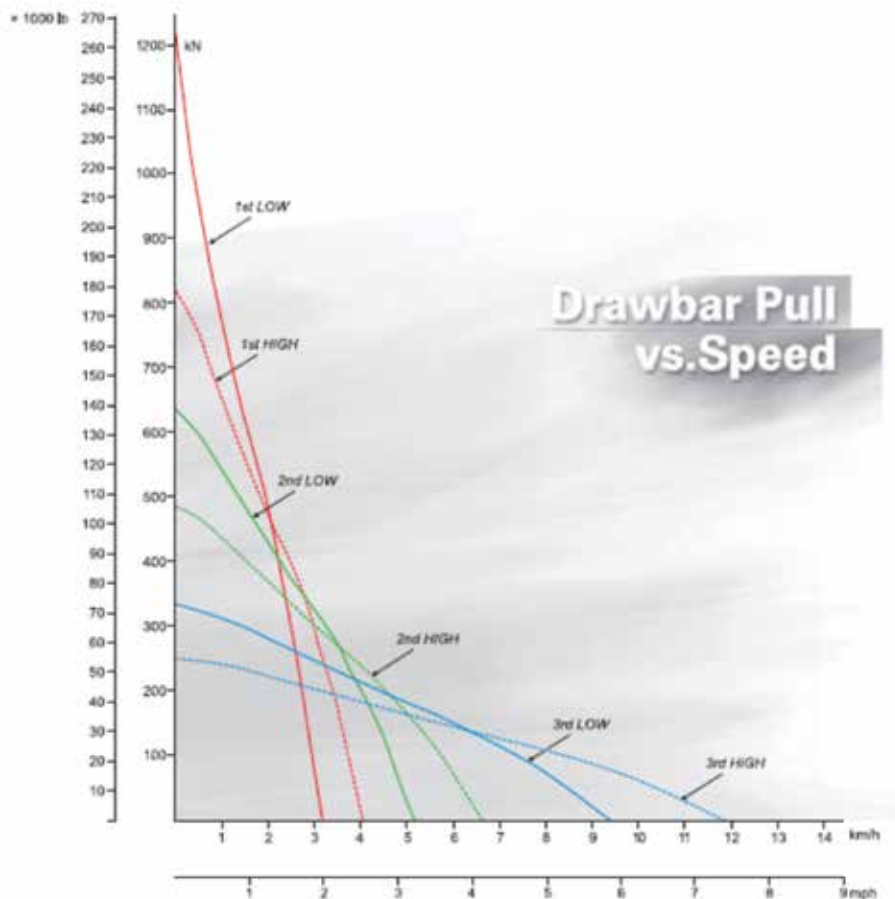
POWERTRAIN

TD-40R Extra

Transmission	Single stage 432 mm (17 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 forward and 6 reverse speeds. The left hand joystick controls transmission and steering drive for up and down gearshifting, steering, high/low selection and LH/RH gradual turn.
Final drives	Double-reduction planetary type final drives mounted independently of track frames and dozer push arms for isolation from shock loads.
Total ratio	28.1 to 1

Travel speeds			
Gear	Range	Forward	Reverse
		km/h (mph)	km/h (mph)
1st	Low	3.2 (2.0)	4.1 (2.5)
	High	4.1 (2.5)	5.2 (3.2)
2nd	Low	5.2 (3.2)	6.5 (4.0)
	High	6.7 (4.2)	8.4 (5.2)
3rd	Low	9.4 (5.8)	11.7 (7.3)
	High	12.0 (7.5)	14.9 (9.3)
Maximum drawbar pull		1225 kN (275391 lb)	

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-40R Extra

ENGINE

Engine, Perkins 2806F, Tier 4 Final, emission certified, turbocharged, with High Pressure Injection (HPI), Selective Catalytic Reduction (SCR), Electronic Controls (ECM) 397 kW (530 fwhp)

Air cleaner, dry type with exhaust aspirated primary, safety elements and service indicator

Antifreeze, -37°C (-34°F)

Cooling module; includes radiator, transmission oil cooler, hydraulic oil/fan drive oil cooler, fuel cooler, charge air cooler (CAC); isolation mounted

Coolant filter conditioner

Exhaust, resonator with elbow

Fan, hydraulically driven, suction type, variable speed

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

Fuel strainer

Starting aid - ether start, automatic

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; brake - center foot pedal

OPERATOR'S ENVIRONMENT

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

AM/FM radio

Cab with 2 post ROPS, 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, front cab window

Tools compartment

INSTRUMENTATION

Electronic Monitoring System, LCD display:

Normal and diagnostic operating modes for engine and drive train, hourmeter, 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

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 150 A

Batteries, 4x 12 V, 1920 CCA, maintenance free, cold start

Horn

Cab lights: 2 front, 2 rear

Lights with guards: 2 front lift-mounted cylinders, 2 rear fuel tank mounted

Receptacle, charging

Starting, 24 V

UNDERCARRIAGE

Track adjusters, hydraulic

Track chain guides, integral

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

Track frame, 7 roller, 2500 mm (98") gauge, oscillating type, lifespan lubricated rollers and idlers

Track shoes, 610 mm (24") severe service grousers

GUARDS

Guards: crankcase (hinged) with front pull hook, transmission, fan, radiator and sprocket rock and dirt deflector

Engine hood, solid, sloped

Engine side doors, hinged, perforated type

Final drive seal guard

Radiator guard doors, louvered, two-piece, hinged

HYDRAULIC CONTROLS

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

OTHER STANDARD EQUIPMENT

Cylinders, lift, with quick drop valve

Diagnostic centers for power train and equipment hydraulic pressures

Drawbar, fixed counterweight, 2900 kg (6400 lbs)

Ecological drains for engine oil, radiator coolant and hydraulic oil

Parts manual and operator's manual

Rear operator platform

OPTIONAL EQUIPMENT TD-40R Extra

BLADE EQUIPMENT

Semi-U, 18.6 m³ (24.3yd³), complete with all blade components, includes hydraulic tilt and manual pitch or hydraulic tilt/pitch; blade includes full width wear liner package

Full-U, 22.8 m³ (29.8 yd³), complete with all blade components, includes hydraulic tilt and manual pitch or hydraulic tilt/pitch; blade includes full width wear liner package

Coal Dozer, 39.8 m³ (52 yd³), complete with all blade components, includes hydraulic tilt and manual pitch or hydraulic tilt/pitch

REAR MOUNTED EQUIPMENT

Standard drawbar with counterweights and additional 4 plates, 3945 kg (8690 lbs)

Additional counterweight (cast), 2004 kg (4410 lbs); recommended for use with large coal or landfill blades

Ripper, multi-shank beam, with three shanks partially mounted, with hydraulic pitch, includes deduct for standard drawbar

Ripper with hydraulic pitch, single-shank beam, standard dig, with hydraulic pin puller and standard dig shank, partially mounted

Ripper with hydraulic pitch, single-shank beam, deep dig, with hydraulic pin puller and deep dig shank, partially mounted

TRACK SHOES

Track rollers, heavy duty

660 mm (26") shoes, severe service

762 mm (30") shoes, severe service

800 mm (31.5") shoes, severe service

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 radio / CD player
- Defroster fans
- Exterior mirrors (2)
- Heated seat
- Sun visors (2), additional
- Lights, 2 additional, ROPS mounted

Canopy ROPS/FOPS

Vinyl seat, operator platform covers and instrument panel guard

GUARDS

Final drive rock guard

Track roller guard

Transmission & engine crankcase guards, severe service

Engine hood, perforated

ADDITIONAL OPTIONS

Fast fill - engine crankcase

Fast fill - fuel tank

Fast fill - hydraulic oil reservoir

Fast fill - power train oil reservoir

Starting/charging receptacle plug assembly (required to jump start or charge batteries) with 15' cable

Vandalism protection for use with cab or canopy

Maintenance tool kit, 17 items in a metal box

Maintenance tool kit, 36 items in 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

SFRs

Centralized lubricating system for machine with/without ripper

Trimble ready option

Factory preinstalled hydraulics, harness and brackets for the Trimble grade control system components

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