







Arctic and hot climate, hot slag and coal handling dozer applications, are designed for increased crawler dozer versatility

Exclusive suspension des while giving the oper

TD-40E Extra - designed



ign provides maximum durability ator a smoother, stable ride Large capacity blades with full width wear liner and double tilt/pitch system, for all types of dozing operations

to deliver optimum performance

Wide track gauge for good side slope stability and increased cooling air flow area **Superior steering** performance DRESST with 2-speed geared steering system Advanced electro-hydraulic motion control system More direct blade lift force with front located lift cylinders Large capacity blades to push large loads Front and rear lights for improved night-time operation

Modular Power Train

Exclusive Undercarriage

Modular Power Train enables easy and efficient removal and replacement of major components: engine, torque converter, powershift transmission, steering drive and final drives with minimum downtime without disturbing other components.

- Simple, rugged, interlocking track guides
- Resilient equalizer bar end cushioned rebound brackets
- Standard sprocket rock guards
 and dirt deflector
 - Simple, single tooth Split Master Link



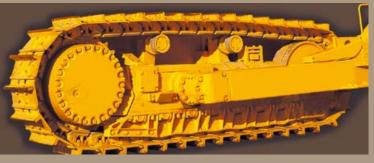


The Tier 3 approved Cummins QSK19 engine with state-of-the-art electronic controls and modular common-rail fuel system ensures clean, efficient performance, minimum maintenance and superior uptime.

Multi-unit modular cooling package
with hydraulically driven, 2-speed fan
improves cooling efficiency.



Advanced Motion Control







The speed ranges, machine direction changes and steering modes are controlled by the left hand joystick.

Buttons control transmission gear selection, while rocker switches select high and/or low steering ranges.

Shift preset function reduces gear shifting frequency and auto-downshift function provides high productivity w/o manual downshifting.

ENGINE

*	Make and model	
	Aspiration	
	Fuel system	
	Gross Horsepower, SAE J1995	
**	Net Flywheel power, SAE J1349/ISO 9	9249 384 kW (515 hp)
	Rated rpm	2000 rpm
	Max. torque @ 1500 rpm	2379 Nm (1,755 lb.ft)
	Displacement	19 I (1,150 in ³)
	Bore x Stroke	159 x 159 mm (6.25" x 6.25")
	Lubrication, full flow filtering	full pressure
	Air cleaner dry type w	th exhaust aspirated primary
	and safety el	ements and service indicator

- * Meets EU Stage IIIA and EPA Tier 3 emission regulations ** Net Horsepower at the minimum speed of hydraulic fan 415 kW (555 hp)

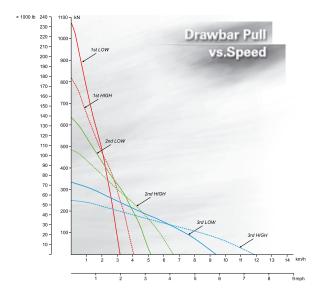
TRANSMISSION & TORQUE CONVERTER

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

Single stage 432 mm (17") torque converter with a 2.3:1 stall ratio drives to transmission through a double universal joint.

TRAVEL SPEEDS

Gear	Range	For	ward	Rev	erse	
		km/h	(mph)	km/h	(mph)	
1 st	Low	3.2	(2.0)	4.1	(2.5)	
	High	4.1	(2.5)	5.2	(3.2)	
2 nd	Low	5.2	(3.2)	6.5	(4.0)	
	High	6.7	(4.2)	8.4	(5.2)	
3 rd	Low	9.4	(5.8)	11.7	(7.3)	
	High	12.0	(7.5)	14.9	(9.3)	



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 modular type, with splash, lubricated pinion and bullgear initial stage and outboard planetary type final stage. Fully machined bolt-on ring-type sprocket rim is replaceable without removing the track frame.

TRACK FRAME

All-welded box section type track frames oscillate on pivot shafts mounted forward and isolated from final drives. A special forward track guiding system joins each of the two track frames to the tractor chassis.

The helical spring front idler recoil system absorbs shocks and limits track tension. Drum type front idlers have steel backed bronze bushings.

Track rollers, each side	7
Top idlers, each side	2
All rollers and idlers	lifespan lubricated
Oscillation at center of front idler	392 mm (15 4")

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.

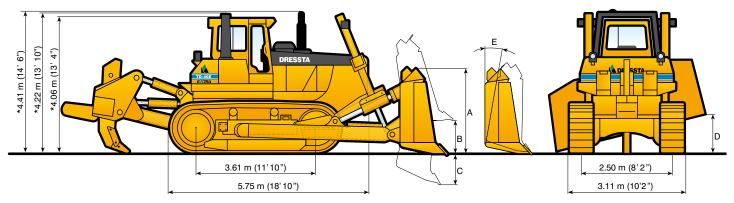
Irack shoe width, standard	610 mm (24")
Strutted track link pitch	
Track shoes, each side	39
Ground contact area with std. shoes	4.4 m ² (6816 in ²)
Ground pressure	137.9 kPa (20 psi)
Height of grouser	93 mm (3.66")
Track adjustment	full hydraulic
Ground clearance	600 mm (23.7")
Fixed drawbar-approx. height from ground	
	700 (00.011)

REFILL CAPACITIES

Liter	(US gal)
1362	(360)
74	(19.6)
68.8	(18.2)
270	(71)
85	(22.5)
169	(45)
	1362 74 68.8 270 85

OPERATING WEIGHT

Includes stdandard equipment	
and Semi-U blade	61920 kg (136,509 lb)



^{*}VERTICAL DIMENSIONS INCLUDE 93 mm (3.66") GROUSER HEIGHT

OVERALL DIMENSIONS WITH EQUIPMENT

BLADE SELECTION	SEMI-U		FULL-U		COAL Blade	
Length, with blade and drawbar	7.93 m	(26')	8.24 m	(27')	8.57 m	(28'1")
Length with blade and single shank ripper	10.35 m	(34')	10.66 m	(35')	11.0 m	(36'1")
Length with blade and multi-shank ripper	9.76 m	(32')	10.12 m	(33'2")	10.4 m	(34'1")
Width over trunnions	3.73 m	(12'3")	3.73 m	(12'3")	3.73 m	(12'3")
	Single Shank		Multi Sh	ank		
Length with ripper only	8.51 m	(27'11")	7.95 m	(26')	_	

BLADE SPECIFICATIONS

BLADE SELECTION		SEMI-U		FULL-U		COAL Blade	
Blade capacity, SAE J1265		18.6 m ³	(24.3 yd³)	22.8 m³	(29.8 yd³)	39.8 m³	(52 yd³)
Blade dimensions:							
 width over end bits 		4.81 m	(15'9")	5.18 m	(17')	6.85 m	(22'6")
 height, struts centered 	Α	2.23 m	(7'4")	2.26 m	(7'5")	2.50 m	(8'2")
Max. lift	В	1.53 m	(60.2")	1.53 m	(60.2")	1.46 m	(57.5")
Max. drop below ground level	С	830 mm	(32.7")	830 mm	(32.7")	875 mm	(34.4")
Max. tilt adjustment	D	1150 mm	(45.3")	1250 mm	(49.2")	1650 mm	(65")
Max. pitch adjustment	Е	10°		10)°	10)°
Weight of blade with full width wear liner package		6770 kg	(14,925 lb)	7458 kg	(16,442 lb)	7820 kg	(17,240 lb)

RIPPER SPECIFICATIONS

DIDDED CELECTION	NALUE TO	MULTI-SHANK		SINGLE SHANK			
RIPPER SELECTION	MULII			Standard		Deep	
Tool Beam							
Overall width	2880 mm	(113.5")	1670 mm	(65.7")	1670 mm	(65.7")	
Cross section (width x height)	550x450 mm	(21.7"x17.7")	610x510 mm	(24"x20")	610x510 mm	(24"x20")	
Ground clearance under tool beam:							
ripper raised	2090 mm	(82.3")	1950 mm	(76.8")	1950 mm	(76.8")	
ripper lowered	350 mm	(13.8")	250 mm	(9.8")	250 mm	(9.8")	
Shank							
Number of shanks per ripper. max		3		1	-	l	
Spacing center-to-center	1190 mm	(47")	-	-	-	-	
Penetration max.	1000 mm	(39")	1290 mm	(51")	1670 mm	(66")	
Ground clearance, max. raised	950 mm	(37")	1000 mm	(39")	720 mm	(28")	
Shank positions (vertical)		2		4		4	
Weight							
Complete, including one shank	7588 kg	(16,729 lb)	8356 kg	(18,422 lb)	8461 kg	(18,653 lb)	
Each additional shank	570 kg	(1,260 lb)	-	-	-	-	
Penetration force	205 kN	(46,084 lb)	200 kN	(44,960 lb)	200 kN	(44,960 lb)	
Pryout force	622.5 kN	(139,938 lb)	612 kN	(137,578 lb)	612 kN	(137,578 lb)	





HYDRAULIC CONTROL SYSTEM

Double gear pump, driven from torque converter.	
Output @ 2368 rpm and 17.0 MPa (2,400 psi):	
1st pump	
2nd pump	Cylinders, bore and stroke:
Relief valve setting:	blade lift
blade lift & ripper	tilt
tilt	tilt/pitch

STANDARD EQUIPMENT

- Air cleaner, dry type with exhaust aspirated primary, safety elements and service indicator
- Air conditioner/heater/pressurizer/defroster: A/C condenser, behind roof mounted
- Alarm, back-up
- Alternator, 80 A
- Antifreeze, -37°C (-34°F)
- Batteries (4) 12V, 1920 CCA, maintenance free, cold start
- Brakes, foot, spring applied, hydraulically released Cab with 2 post ROPS, sound suppression, air recirculation system, 2 F & 2 R lights, 4 wipers w/washers, dome light, inside mirror (approved according to ROPS - SAE J1040 and FOPS - SAE J231)
- Coolant filter conditioner
- Cooling module; includes radiator, transmission oil cooler, hydraulic oil/fan drive oil cooler, charge air cooler; isolation mounted
- Cylinders, lift, with quick drop valve
- Decelerator right foot pedal and brake center foot pedal
- Diagnostic centers for power train and equipment hvdraulic pressures
- Drawbar, fixed counterweight, 2900 kg (6400 lbs)
- Ecological drains for engine oil, radiator coolant and hydraulic oil

- · Engine hood, sloped, partially perforated
- Engine side doors, partially perforated
- Exhaust, resonator with elbow
- Fan, hydraulically driven, suction type, 2-speed
- Filters, engine oil, full flow and by-pass with replaceable, "spin-on" elements
- Filters, power train, equipment hydraulics, "spin-on" micro glass type
- Final drive seal guard
- Fuel strainer
- Guards: crankcase (hinged) with front pull hook, transmission, fan, radiator and sprocket rock and dirt deflector
- Horn, electric
- Hydraulic control, 1 valve, 1 lever with pilot operated blade control (lift)
- Instruments:
 - Gauges: fuel level, engine coolant temperature, engine oil pressure, transmission oil temperature, voltmeter, hourmeter, joystick control display Warning lights: air cleaner filter, transmission oil filter, hydraulic oil filter, transmission/clutch
- oil low pressure, ECM engine diagnostic Audible & visual warning system: low engine coolant level, low engine oil pressure
- Lights w/guards, 2 F lift cylinders mounted, 2 R - fuel tank mounted

- Muffler, under engine hood, insulated
- Radiator guard doors, louvered, two-piece, hinged
- Rear operator platform
- Receptacle, charging
- Seat belt (SAE J386) 3" wide, retractable
- Seat, deluxe, air suspension type, fabric cover, adjustable with arm rests, swivel 14° to right
- Starting, 24 V.
- Steering, planetary type, 2-speed, left hand single lever control (joystick)
- Tools compartment
- Torque converter, single stage
- Track adjusters, hydraulic
- Track chain guides, integral
- Track chains, 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, grouser type
- Transmission, powershift, 3 speeds forward, 3 reverse, combined with 2 speed steering provides 6 speeds forward and 6 reverse; preset travel speed selection and auto-downshift
- · Water separator, fuel system

OPTIONAL ATTACHMENTS

- Air recirculation system with MSHA external filter AM/FM CD radio (for use with cab)
- Blade Equipment:
 - Semi-U with tilt or tilt/pitch, 18.6 cu.m (24.3 cu.yd), full width wear liner package
 - Full-U with tilt or tilt/pitch, 22.8 cu.m (29.8 cu.yd), full width wear liner package
 - Coal blade with tilt or tilt/pitch, 39.8 cu.m (52 cu.yd)
- Canopy ROPS/FOPS (SAE J1040, J231)
- Counterweight 3945 kg (8,690 lbs), additional rear (4 plates)
- Fast fill system: fuel tank, engine crankcase, power train oil reservoir, hydraulic oil reservoir

- Guards:
 - Crankcase, severe service
 - Final drive, rock
 - Track roller
 - Transmission, severe service
- Heater/pressurizer/defroster
- Hydraulic controls, 3-spool valve, 2 lever (for use w/ripper)
- Instrument panel guard
- (for use w/canopy ROPS/FOPS)
- Lights, 2 additional, ROPS mounted
- Mirrors, 2 pcs exterior (for use w/cab)
- Operator platform covers
- (for use w/canopy ROPS/FOPS)
- Ripper multi-shank w/hydraulic pitch
 - ripper shank w/pin, max. 3

- Ripper, single shank w/hydraulic pitch
- ripper shank, standard dig - ripper shank, deep dig
- pin puller, hydraulic
- Seat, air suspension, vinyl cover
- (for use w/Canopy ROPS/FOPS)
- Sound suppression package
- Starting aid, ether
- Starting/charging receptacle plug assembly with 15 ft cable
- Tools metric, in metal box
- Tools inches, in metal box
- Track shoes:
 - 660 mm (26") severe service
- 800 mm (31.5") severe service (not recommended to use with ripper)
- Vandalism protection

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

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