TD-16N CRAWLER DOZERS

TIER 4 FINAL/STAGE V

DRESSTA

ENGINE	TD-16N (TIER 4 FINAL/STAGE V)
Make and model	Cummins B6.7
Emissions standard	Tier 4 Final/Stage V
Displacement	408 in^3 (6.7 l)
Bore and stroke	4.21 x 4.88 in (107 x 124 mm)
Gross horsepower, SAE J1995	173 hp (129 kW)
Net horsepower, SAE J1349/ISO 9249 at the max. speed of hydraulic fan	161 hp (120 kW)
Rated rpm	2200
Max. torque	650 lb-ft (881 Nm) @ 1300 rpm
Air cleaner	2-stage, dry type, with dash-mounted electronic service indicator
Cold-starting aid	intake- mounted air -inlet grid heater
Slope operation, max. angle	45°

COOLING	TD-16N
Type	Blower-type variable-speed reversible fan, hydraulically driven with perforated engine side sheets and heavy duty louvered rear grill
Engine coolant rating	–34°F (–37°C)

OPERATOR STATION	TD-16N
ROPS	ROPS (ISO 3471 - 2008)
FOPS	FOPS (ISO 3449 - 2005)

UNDERCARRIAGE	TD-16N (LPG)	TD-16N (LT)
Type	**Rigid**	
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	126 in (3200 mm)	126 in (3200 mm)
Track shoe width	30 in (762 mm)	22 in (560 mm)
Chain	Sealed and lubricated	
Shoes, each side	44	
Track rollers, each side	7	
Top idlers, each side	2	
Track length on ground	124 in (3140 mm)	
Ground contact area	7420 in^2 (47850 cm^2)	5451 in^2 (35170 cm^2)
Ground pressure	5.1 psi (36.6 kPa)	7.1 psi (49 kPa)
Track pitch	8 in (203.2 mm)	
Sprocket segments, each side	9	

HYDRAULICS	TD-16N LGP (TIER 4 FINAL/STAGE V)
Type	Close-center load sensing hydraulic system with variable-displacement piston pumps
Pump displacement	29.8 gpm (113 l/min)
System relief pressure	3,625 psi (25 MPa)
Control	Single joystick lever
Cylinders, bore and stroke	
Lift	24.53 x 15.6 in (Φ115 x 623 mm)
Tilt	5.1 x 5.75 in (Φ130 x 146 mm)
Pitch	3.9 x 2.7 in (Φ100 x 96 mm)
Angle	4.33 x 20.55 in (Φ110 x 522 mm)

ELECTRICAL	TD-16N LGP (TIER 4 FINAL/STAGE V)
Voltage	24 V
Number of batteries	2
Battery capacity	960 CCA
Alternator rating	120 A
Lights	5 total; cab mounted (3F & 2R)

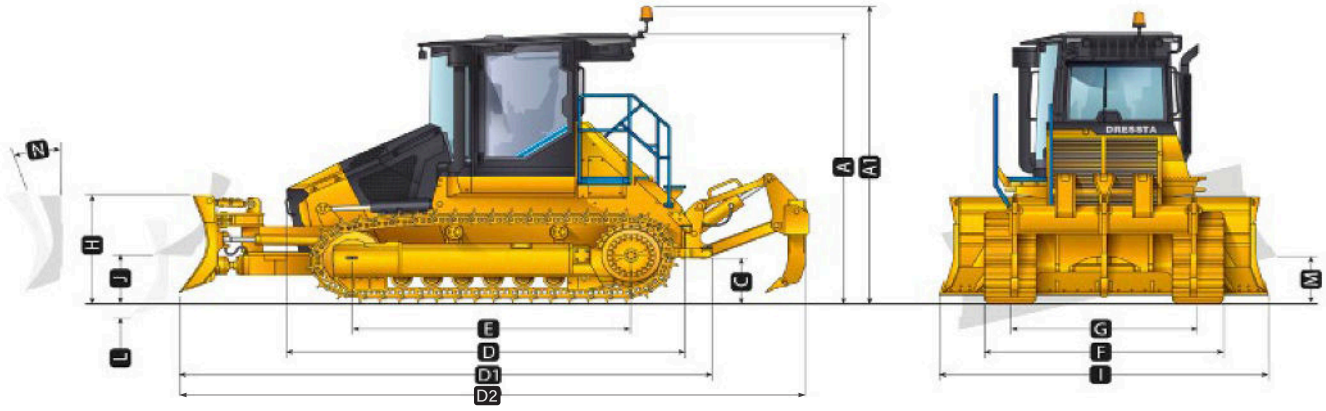
POWERTRAIN	TD-16N LGP (TIER 4 FINAL/STAGE V)
Transmission	Automatic, dual-path, hydrostatic drive
Steering	Single-lever steering, speed, direction control, and counter-rotation
Final drives	Double-reduction final drives mounted directly to the track frames
System relief pressure	6164 psi (42.5 MPa)
Total ratio	54.7 to 1
Travel speeds	6.5 mph (10.5 km/h)
Maximum drawbar pull	68567 lbf (305 kN)
Brakes service	Hydrostatic (dynamic) braking stops the machine whenever direction-control lever is moved to neutral or the decelerator/brake is depressed to the detent
Brakes parking	Exclusive spring-applied, hydraulically released park brake feature engages wet, multiple-disc brakes automatically whenever the engine stops, the operator depresses the decelerator pedal to the brake position, the unit is in neutral for 3 seconds (with no detected motion), or the park-lock lever is in the park position; machine cannot be driven with brake applied, minimizing wear-out or need for adjustment

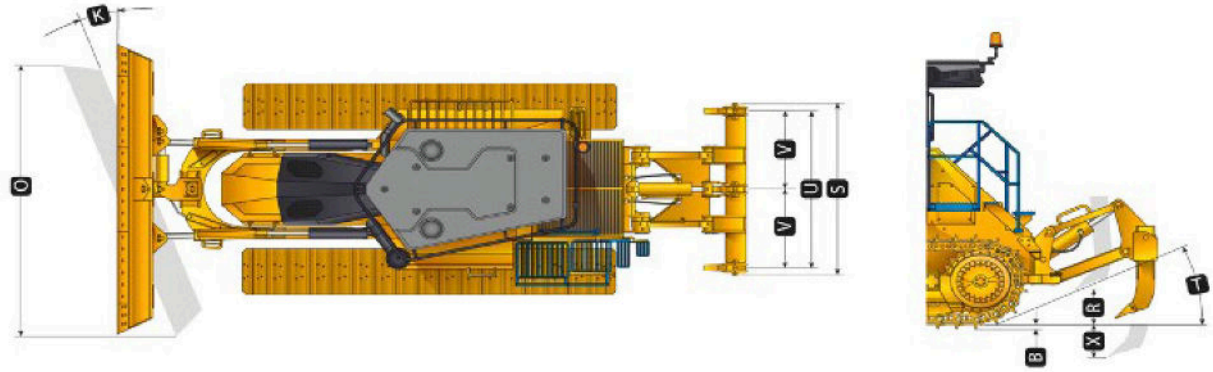
SERVICEABILITY	TD-16N LGP (TIER 4 FINAL/STAGE V)
Refill capacities	
Fuel tank	99 gal (375 l)
Cooling system	12.2 gal (46 l)
Engine oil	4.9 gal (18.5 l)
Final drive, each side	2.5 gal (9.5 l)
Hydraulic reservoir	64.7 gal (245 l)
Adblue (DEF)	7.9 gal (30 l)

DIMENSIONS	TD-16N (LPG)	TD-16N (LT)
Type	**6-way (VPAT)**	**6-way (VPAT)**
A: Overall height - cab	11 ft 1 in (3390 mm)	11 ft 1 in (3390 mm)
A1: Overall height - beacon	12 ft (3658 mm)	12 ft (3658 mm)
B: Grouser height	2.36 in (60 mm)	2.36 in (60 mm)
C: Ground clearance	18.42 in (468 mm)	18.42 in (468 mm)
D: Overall length, base machine	14 ft 10 in (4520 mm)	14 ft 10 in (4520 mm)
D1: Length with blade and draw-bar	18 ft 8 in (5690 mm)	18 ft 8 in (5690 mm)
D2: Length with blade and 3-shank ripper	23 ft 3 in (7090 mm)	23 ft 3 in (7090 mm)
E: Track length on ground	10 ft 4 in (3140 mm)	10 ft 4 in (3140 mm)
F: Width over track	9 ft 5 in (2860 mm)	8 ft 9 in (2660 mm)
G: Track gauge	6 ft 11 in (2100 mm)	6 ft 11 in (2100 mm)

BLADE SPECS	TD-16N (LPG)	TD-16N (LT)
Type	**6-way (VPAT)**	**6-way (VPAT)**
SAE capacity	5.8 yd^3 (4.4 m^3)	5.2 yd^3 (4.0 m^3)
H: Blade height	48.42 in (1230 mm)	48.42 in (1230mm)
I: Blade width/folded blade width	157 in (3988 mm)/ 113.9 in (3531mm)	139 in (3524 mm)/ 113.9 in (2893 mm)
J: Blade lift height	43.3 in (1100 mm)	43.3 in (1100mm)
K: Blade angle	25˚	25˚
L: Blade digging depth	23.6 in (600 mm)	23.6 in (600 mm)
M: Maximum tilt	19.8 in (504 mm)	18.3 in (465 mm)
N: Maximum blade pitch adjustment	7˚	7˚
O: Overall width with blade angled	11 ft 10 in (3606 mm)	11 ft 10 in (3606 mm)

RIPPER	TD-16N
Type	**Multi-shank (3-shank)**
R: Maximum clearance under tip (raised)	23 in (595 mm)
S: Overall beam width	7 ft (2130 mm)
T: Slope angle (full raise)	25˚
U: Ripping width	6 ft 7 in (2000 mm)
V: Spacing center to center	3 ft 3 in (1000 mm)
X: Maximum penetration	28 in (711 mm)
Penetration force	16860 lb (75 kN)
Pryout force	70140 lb (312 kN)
Shank positions (vertical)	2
Weight of ripper incl. shank(s)	3615 lb (1640 kg)
Weight of shank	227 lb (103 kg)





OPERATING WEIGHTS	TD-16N (LPG)	TD-16N (LT)
Base weight with Semi-U blade w/tilt, single-shank ripper, standard equipment, cab ROPS/FOPS, full fuel tank, and 175 lb (79 kg) operator	44555 lb (20210 kg)	43030 lb (19518 kg)
Optional equipment		
Blade		
6-WAY (VPAT) non-folding blade	+ 4895 lb (2221 kg)	+ 4729 lb (2145 kg)
6-WAY (VPAT) folding blade	- 5476 lb (2484 kg)	- 5309 lb (2408 kg)
Ripper w/3 shanks	+ 3660 lb (1660 kg)	
Winch	+ 2813 lb (1276 kg)	
STD counterweight*	- 1973 lb (895 kg)	
HD counterweight*	+ 4354 lb (1975 kg)	
Forestry kit (sweeps + rear guard)**	+ 794 lb (360 kg)	
Cab screens (all round cab glass guards)**	+ 291 lb (132 kg)	
Track shoes		
22 in (560 mm)	N/A	0
24 in (610 mm)	N/A	+ 350 lb (159 kg)
26 in (660 mm)	- 700 lb (318 kg)	N/A
28 in (711 mm)	- 350 lb (159 kg)	N/A
30 in (762 mm)	0	N/A

STANDARD EQUIPMENT

TD-16N RANGE OF DOZERS

- Powered with Cummins – Stage V engine
- Fresh, new, functional styling
- "Right" balance of weight and power
- Designed for easy maintenance and serviceability
- Ground level fuel tank filling

COOLING SYSTEM

- Innovative rear cooling system design
- Industry's largest surface area
- Coolest and cleanest intake air
- Extremely energy efficient (saves fuel)
- Reversing hydraulic driven fan
- Programmable time interval
- Push button for "on demand" cleanout

SUPER-STRUCTURE

- Easy tilting front hood and cab for optimized engine and pump access
- Rear structure bolts on and off the frame together with cartridge style cooling system
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- Armored rear door to protect cooling system from impacts and debris
- Industry's only factory standard "no tracks" cab entry – easy and safe
- Side walkway with slats angles to provide visibility to track corners

CAB

- "Best-in-class" front and rear visibility
- Exhaust mounted on cab A-post for optimum visibility
- Revolutionary 4 post middle mounted cab
- Cab in middle of the tracks – maximum ride comfort (no "bucking")
- Command seat (air suspension, heated, ventilated) with controls mounted to seat
- Best legroom inside the large cab
- Totally flat floor for easiest cleanout
- Minimal cab interior trim and plastic – clean style and better durability
- "Exo-skeleton" cab for easy mounting of guards and other attachments
- Factory designed optional bolt-on guards for mild to extreme protection
- Side entry cab—never need to step on tracks – always 3 points of contact (easy and safe)
- Cab top hand rail /tool bar, 360 degree handrail for safe access when cleaning cab glass
- Also acts as a guard for high level cab impacts and as attachment point for lights, etc.
- Rear tilting cab for easy service access
- Hydraulic jack located on LH side under engine hood
- HVAC mounted in top rear of cab – clean cool air and easy service
- Integrated ROPS/FOPS
- Single cab door – half the locks, latches, hinges, seals. Better reliability and durability
- Improved cab sealing, lower cab noise
- CAB environment similar to what excavator and wheel loaders operators expect

HYDRAULICS

- Field proven Rexroth world-class hydraulic system
- Ergonomically designed 6-way blade electro-hydraulic controls
- Optional auxiliary circuit for attachments
- Fully protected hydraulic plumbing

ELECTRICAL

- "Just enough" electronics for functionality and "not too much" that reliability suffers
- Trimble/Topcon-ready electrical system
- Machine set-up and controls programmable with stored settings for 10 operators
- On-board diagnostics

FRAME

- New "Stepped" frame so the outside of frame and dozer push arms are on the same plane for optimized track to chassis gap
- Counterweights allow customer to optimize the power-to-weight ratio for their application and preference

PRIMARY DRIVELINE

- Field proven Rexroth world-class hydrostatic infinitely variable driveline
- Rugged and proven planetary final drives
- Ergonomically designed ground drive controls

UNDERCARRIAGE

- Long Track, LGP and Super-LGP options available
- Long Track from 6.5 to 7.5 psi ground pressure
- LGP from 4.7 to 4.9 psi ground pressure
- Super-LGP from 3.8 to 4.6 psi ground pressure
- Field-proven undercarriage component design
- Updated and optimized undercarriage structure with sloped profile for minimum mud/dirt packing
- Robust pinned equalizer bar

DOZER BLADE

- 6-way blade for optimum precision and control
- Blade width and height optimized for 6-way blade applications
- Robust, proven structures with a high clearance frame
- Good ground clearance, doesn't "hang up" on dirt, higher than frame bottom when blade is at max lift height

ATTACHMENTS

- Full suite of attachments available from the factory
- Standardized, robust mounting face on frame rear for custom applications

At Dressta, we take pride in innovating to help our customers achieve more in the jobs they do. Our dedicated team of application engineers can customize designs, modify standard equipment and adapt attachments for peak performance in specific application tasks, improving productivity and bottom line results. **Do you have a Special Feature Request? See how Dressta can help you achieve more in the jobs you do.**