
TD35T-5 BULLDOZER



TD35T-5 Standard Bulldozers

Engine model: Cummins NTA855-C360S10

Net Power(kW/HP): 235/320

Dozing capacity (m3): 10(Straight tilt blade);11.7(Semi U blade) ; 6(Angle blade)

Operating weight(kg): 37200

Features

Power system

Chongqing Cummins NTA855-C360S10 engine with the exhaust turbocharger features the

high power, efficiency and energy saving.

The Cummins or Weichai engines are optional depending on user requirements.

Drive system

A highly reliable power shifting gearbox, a stable hydraulic torque converter, and a two-stage straight tooth final drive can all efficiently transmit power, possessing high transmission power and efficient production efficiency.

Hydraulic torque converter can protect the transmission system from sudden torque impact and vibration.

The planetary power shift gearbox has forward and reverse gears, and adopts a large diameter, high capacity, oil cooled clutch with high transmission efficiency.

Ease Of Maintenance And Operation Comfort

The openable side guard offers a spacious area and the reasonable layout of filter elements and hydraulic components facilitate convenient maintenance. The hexahedral cab provides a more spacious interior and wider field of view.

Adaptability To Diverse Working Conditions

The machine is equipped with a straight tilt blade for enhanced cutting force, making it well-suited for diverse materials such as clay and frozen soil. With large ground clearance, the machine demonstrates excellent possibility.

Classification of bulldozers:

1. Classified by walking mode

Bulldozers can be divided into track type and tire type. Crawler bulldozers have high traction force, low ground pressure (0.04-0.13mpa), strong climbing ability, but low driving speed. Tire type bulldozers have the advantages of fast driving speed, strong flexibility, short operation cycle, convenient transportation and transfer, but low traction, making them suitable for construction sites and frequent changes in on-site work.

2. Classified by purpose

It can be divided into general and specialized types. The universal type is produced according to standards and is widely used in earthwork engineering. Specially designed for specific working conditions, there are wetland bulldozers and swamp bulldozers that use triangular wide track plates to reduce ground pressure, amphibious bulldozers, underwater bulldozers, cabin bulldozers, unmanned bulldozers, and bulldozers operating in high-altitude and high humidity conditions.

Bulldozer Series



TD35T-5

Engine model:	Cummins NTA855-C360S10
Rated power:	235 kW/2000 rpm
Operating weight:	37.2 t



Technical parameters of TD35T-5 series bulldozers

Model & type	Cummins NTA855-C360S10; In-line, water-cooled; 4-cycle, overhead valve direct injection, turbocharged diesel		
Rated revolution	2000 rpm		
Rated power	235 kW		
Cylinder number-bore	6—139.7 x 152.4 (mm x stroke)		
Piston displacement	14010 ml		
Min. fuel consumption	245 g/kW·h		
Maximum torque	1440 N·m@1400rpm		
Torque converter	3-element, 1 stage, 1 phase		
Transmission	Planetary gear, multi-disc clutch, power shift, forced lubrication		
Main drive	Spiral bevel gear, splash lubrication, single-stage speed reduction		
Steering clutch	Wet, multi-disc, spring loaded, hydraulically separated, hydraulic control		
Steering brake	Wet, floating band, foot brake with hydraulic booster		
Final drive	2-stage speed reduction of spur gear, splash lubrication		
Gear	1st	2nd	3rd
Forward	0~3.6 km/h	0~6.6 km/h	0~11.5 km/h
Reverse	0~4.4 km/h	0~7.8 km/h	0~13.5 km/h
Type	Swing type of sprayed beam, suspended structure of equalizer bar		
Carrier rollers	2 each side		
Track rollers	7 each side (single flange 5, double flange 2)		
Number of track shoes (per side)	41 each side		
Width of track shoes	560 mm		
Pitch	228.6 mm		
Maximum pressure	14 MPa		
Pump type	Gear pump		
Discharge (at revolution of 2000 rpm)	355 (1795 rpm) L/min		
Bore of working cylinder × no. (double-acting type)	140 mm × 2		
Blade type	Straight-tilt	Angle	Semi-U blade
Dozing capacity	10 m ³	6 m ³	11.9 m ³
Efficiency (Theoretical value 40 m)	580 m ³ /h	350 m ³ /h	690 m ³ /h
Blade width	4130 mm	5000 mm	4130 mm
Blade height	1590 mm	1140 mm	1710 mm
Maximum drop below ground	560 mm	630 mm	560 mm
Maximum tilt adjustment	1000 mm	500 mm	1000 mm
Weight of blade	4520 kg	4932 kg	4924 kg
Maximum digging depth of 3-shank ripper	842 mm		
Maximum lift above ground	883 mm		
Weight of 3-shank ripper	3802 kg		
Maximum digging depth of single ripper	1250 mm		
Maximum lift above ground	965 mm		
Weight of single ripper	3252 kg		

