
TD22T-5 BULLDOZER



TD22T-5 Standard Bulldozers

Engine model: Cummins NT855-C280S10 (Optional Weichai WD12G240E26)

Net Power(kW): 164/220

Dozing capacity (m³): 6.4(Straight tilt blade);7.5(U-blade) ; 7.0(Semi U blade) ; 4.7(Angle blade)

Operating weight(kg): 23400

Power system

- Chongqing Cummins NT855-C280S10 engines feature the high power, efficiency and energy saving.
- The effective supercharger not only improves and widens the effective zones of engine, but also drops the fuel consumption by 12-21g/ kW. H.
- The advanced lubrication system could enable the engine parts to work under the constant oil temperature, the low oil pressure and the varied flow, reducing the engine friction power and thus prolonging the engine service life.

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- The strength material and the newly-structured cylinder body and cylinder cover make the engine more reliable and energy-saving and then realize the sufficient combustion and the lower emission within the wide range of RPM and load.

Drive system

The reliable power-shift transmission, the steady hydraulic torque converter and the stage-II spur-tooth final drive could perform the effective power output and produce the high efficiency.

- Planetary gear type transmission with power shift features the compact structure, steady engagement and high drive efficiency.
- YJ409B hydraulic torque converter has the circular cycle diameter of 409mm, 0.87 of high efficiency, simple structure such as monopole, single phase and three-element, and wide RPM range in high efficiency area.

Chassis system

- The semi-rigid suspension and travel system with the track rollers always in touch with the track could enlarge the ground area of track and thus raise the bulldozer traction.
- The strength king-pin tracks are developed specially for the poor working conditions, suitable for all complicated conditions because of its high reliability and the load-bearing capacity.

Cooling system

This system could guarantee the engine run normally and reliably under any load or hot condition, preventing against the engine overheating.

Electrical system

This system could realize the automatic diagnosis and the whole-course monitor. In addition, the injection instrument panel integrates the A/C, the electric equipments and the instruments, making more beautiful and upscale.

Driving environment

- The cabs have not only the beautiful shapes but also the super-large internal room and the wide vision. In addition, the damping devices could absorb the vibration, providing the more safety and comfort to the operators.
- According to the man-machine engineering, the driver's seat and handle could be easily adjusted upward, downward, forward and backward. In addition, the speed control, the steering wheel and the accelerator are on left side and adopt the cable type. The working equipment is on right side and adopts the servo-control system, realizing the flexible process and relieving the fatigue.

Structure

The main frame of box type adopts the quality material and the strength castings and enjoys the high impact load and torsion. In addition, the quality welding seam could ensure the main frame works in its life cycle.

Accessories for working parts

- The standard straight shovels have the excellent durability due to the high cutting force, high-strength structure and high-performance material and thus are available for all tough environments. In addition, the

shovels of 6.4m³ high-capacity are suitable for all kinds of earthworks and the bulk materials. Besides, the angle shovels, U-shovels and semi U-shovels are available to users.

- Large single-tooth ripper with the adjustable penetration angle is used to loosen the soil layers such as the clay and the frozen soil and to peel off the solid surface such as the gravels and the hardened salt mine. The work efficiency and the super penetration are guaranteed with the strength beam, the frame and the tempered tooth bar and tip.

Safety

- The safe warning lamp, the reversing alarm, the horn, the excellent brake and the distinctive painting could effectively protect the periphery personnel and enhance the safety in all-weather operations. In addition, the seatbelt, the handles and the safe signs give the security protection to the operators.
- The side guard could effectively protect the engine and the radiator from being blocked and damaged due to the foreign particles, making the entire machine more beautiful.
- The standard antifreeze could raise the boiling point and lower the freezing point, effectively preventing against the scales depositing on the engine and the radiator, beneficial to the engine cooling and the protection.
- In addition, the sport bars for litters and others are optional and could protect the operators in emergency.

Maintenance

- The eye-catching signs say accurately when to maintain the machine. In addition, this battery is maintenance-free. In addition, the open-type hood could have the inside parts exposed as much as possible, easily realizing the inspection and the maintenance.
- This maintenance cost is much lower than others due to the reliability and thus the long Mean Time Between Failures (MTBF).
- hantang perfect service network, as well as timely, thoughtful and warmhearted service, could give your assurance to use this machine, satisfying the expectancy for hantang products.

Bulldozer Series



TD22T-5

Engine model:	Cummins NT855-C280S10
Rated power:	162 kW/1800 rpm
Operating weight:	23.4 t



Technical parameters of TD22T-5 series bulldozers

Model & type	Cummins NT855-C280S10; In-line, water cooled 4-cycle, overhead valve direct injection, turbocharged diesel		
Rated power	162 kW		
Number of cylinders	6—139.7 x 152.4 mm (bore x stroke)		
Piston displacement	14.01 L		
Min. fuel consumption	205 g/kW·h		
Maximum torque	1030 N·m@1250rpm		
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	0~6.5 km/h	0~11.2 km/h
Reverse	0~4.3 km/h	0~7.7 km/h	0~13.2 km/h
Type	Swing type of sprayed beam, suspended structure of equalizer bar		
Carrier rollers	2 each side		
Track rollers	6 each side		
Track type	Assembled, single-grouser		
Width of track shoes	560 mm		
Pitch	216 mm		
Maximum pressure	14 MPa		
Pump type	Gear pump		
Discharge	262 L/min		
Bore of working cylinder × no.	120 mm × 2		
Blade type	Straight-tilt	Angle	Semi-U-blade
Dozing capacity	6.4 m ³	4.7 m ³	7.5 m ³
Efficiency (Theoretical value 40 m)	330 m ³ /h	245 m ³ /h	365 m ³ /h
Blade width	3725 mm	4365 mm	3725 mm
Blade height	1315 mm	1055 mm	1374 mm
Maximum drop below ground	538 mm	535 mm	540 mm
Maximum tilt adjustment	>735 mm	>500 mm	>755 mm
Weight of blade	2830 kg	3254 kg	3419 kg
Maximum digging depth of 3-shank ripper	666 mm		
Maximum lift above ground	555 mm		
Weight of 3-shank ripper	2495 kg		
Maximum digging depth of single ripper	695 mm		
Maximum lift above ground	515 mm		
Weight of single ripper	2453 kg		

