

SD32 Bulldozer



Introduction:

1. China “SHANTUI” model SD32 bulldozer is started by a large horsepower. This bulldozer is manufactured with advanced technology introduced from Komatsu, Japan.
2. We select Cummins engine model NTA855-C360 for SD32 bulldozer because of its ample power and high torque structure. The kind of bulldozer has low fuel consumption advantage.
3. The SD32 bulldozer can keep normal working conditions without any adjustment while used in highland with altitude up to 3600m. The capability is ensured by the equipment of exhaust turbocharger. We use hydraulic driving system to control SD32 bulldozer. Our bulldozer uses hydraulic control technology in processing procedure. SD32 bulldozer is well-known for the advanced structure, reliable performance and easy control system.
4. SD32 bulldozer is a kind of spade machine used in construction industry both China and abroad.

Parameters of SD32 Bulldozer:

Operating weight	37200kg (with multi-ripper:40975kg)	
Overall dimension	6880*4130*3275mm (L*W*H)	
Engine	Model	CUMMINS NTA855-C360
	Type	Turbocharged, intercooled,in-line,4-cycle
	Cylinders-bore	139.7*152.4mm (Number 6)
	Piston displacement	14010ml
	Flywheel horsepower	235kw(320HP)
	Rated Revolution	2000r/min
	Max torque	1440N.m,1400r/min
	Fuel consumption	245g/kwh(180g/HPh)
	Start motor	24V, 11Kw

	Alternator	28V, 35A	
	Battery	24V(12V*2)-195AH	
	Fuel system	PT,PT pump head valve, direct injection	
	Speed governor	Centrifugal, all speed	
	Cooling system	Forced circulation by centrifugal pump, fan with busher type	
	Air cleaner	Dry, horizontal type	
Transmission	Torque converter	3-element, 1-stage, 1-phase	
	Cooling method	water-cooled	
Power-shift planetary gear transmission	Type	planetary gear	
		multiple-disc clutch	
		hydraulically connected forced lubrication by gear pump	
Main-drive shaft	spiral bevel gear		
	splash lubrication		
Travel speed		Forward	Reverse
	1st	0~3.6km/h	0~404km/h
	2nd	0~6.6km/h	0~7.8km/h
	3rd	0~11.5km/h	0~13.5km/h
Final drive	Type	2- stage spur gear	
		speed reduction	
		splash lubrication	
Undercarriage system	Suspension	swing type of sprayed beam	
		suspended structure of equalizer bar	
	No. of carrier rollers	2 (each side)	
	No. of track rollers	7 (each side)	
No. of idlers	1 (each side)		
Track shoes	Type	assembled with single tooth	
	Pitch	228.6mm	
	Width	560mm	
	Tooth height	80mm	
	Number	41(each side)	
	Track gauge	2140mm	
	Ground pressure	0.105MPa	
	Operating weight	37200kg	
Hydraulic control system	Max. pressure	14MPa(140kg f/cm)	
	Type	gear pump	
	Displacement	335.5L/min	

	Control valve	guiding valve: Raise/ Hold/ Lower/ Float
	Hydraulic tank	control valve and oil filter, inner-installed
Steering system	Steering clutch	wet type, multiple-disc, spring loaded, hydraulically separated
	Steering brake	wet type, band brake, foot operated (with hydraulic booster, interconnected with clutch)
Coolant and Lubricant capacity	Cooling water	121L
	Fuel tank	600L
	Engine	47L
	Bevel gear case	185L
	Final drive case	55L(each side)
	Hydraulic tank	164L
Working equipment and attachments	Straight-tilt dozer	hydraulically actuated with servo valve
	Blade supporting method	brace type, tilt cylinder on right side
	Width	4130mm
	Height	1590mm
	Max. lift above ground	1560mm
	Max. drop below ground	560mm
	Max. tilt adjustment	1000mm
3-Shank ripper	Max. digging depth	542mm
	Max. lift above ground	883mm
	Max. drop (below ground)	965m
	Max. digging depth (single ripper)	1250mm
	Digging angle (Standard)	45°(variable between 35° and 45°)