

Technical characteristics of SHANGHAI PENGPU PD320Y-1 crawler bulldozer

Engine	
Model	Cummins NT855-C360
Type	Four-stroke, turbocharged, aftercooled
Flywheel power, kW	239
Rated speed, r/min	2000
Number of cylinders - bore x stroke, mm	6- \varnothing 139.7 x 152.4
Starting method	Electric starting 24V, 11kW
Battery	24V (12V x 2), 195 AH
Air cleaner	Dry horizontal type with precleaner
Transmission system	
Torque converter	3-element, single-stage, single-phase
Transmission	Planetary gear, hydraulic actuated, multiple-disc clutch, forced lubrication by gear pump, 3 forward and 3 reverse speeds
Bevel gear	Helical bevel gear, splash lubricated
Steering clutch	Wet, multiple-disc clutch, spring loaded, hydraulically released
Steering brake	Wet, band brake, operated with hydraulic booster
Final drive	Spur gear, double reduction, splash lubricated
Travel speed, km/h	
Forward:	
• 1st	3.6
• 2nd	6.6
• 3rd	11.5
Reverse:	
• 1st	4.4

- 2nd 7.8
- 3rd 13.5

Under carriage

Sprocket	Segmented
Track tension	Hydraulic-adjusted
Number of track shoes, each side	7 (5 single, 2 double)

* Floating seals are used in all track rollers, carrier rollers, sprocket and front idlers

Track

Type	Sealed single grouse
Track pitch, mm	228.6
Track width, mm	560
Number of track shoes, each side	41
Length of track on ground, mm	3150
Ground clearance, mm	500
Track gauge, mm	2140
Ground pressure, MPa	0.094

Hydraulic system of work equipment

Working pressure, MPa	13.7
Rated flow (at 1800 r/min), L/min	335
Pump	CBZ4200 gear pump
Control valve	Hydraulic-operated, plunger, servo controlling
Valve position	Raise, hold, lower, float
Cylinder, Bore x Rod x Stroke, mm	ø140 x ø75 x 1340

Work equipment

Blade type	Semi-U blade	Angle blade
Dimensions, Length x Width x Height, mm	6880 x 4130 x 3640	6880 x 4850 x 3640
Weight, kg	35900	
Blade dimensions, Width x Height, mm	4130 x 1590	4850 x 1140
Max. lift above ground, mm	1560	
Max. drop below ground, mm	560	
Pitch adjustment, °	55±2	
Max. tilt, mm	1000	

Ripper

Type	1 shank
Max. dig below ground, mm	1250
Max. lift above ground, mm	955