

Bulldozer Series

220 HP / SD22W

One tough dozer for mining and more



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ENGINE	
Make	Cummins
Model	NT855-C280S10
Rated Power	162 kW @ 1800 rpm
Maximum Torque	1030 Nm @1250 rpm
Displacement	14.1 L
Cylinder	6 - 139.7 x 152 mm (bore x stroke)
Water cooled	Yes
Direct injection	Yes
Radiator	Enlarged tropical radiator

POWER TRANSMISSION	
Make	SHANTUI
Torque converter	YJ409, 3-element, single-stage, single phase, ratio 2.3 - 2.54
Transmission	Planetary gear type, multi-disc clutch, hydraulically connected, forced lubrication
Main drive	Spiral bevel gear, splash lubrication, single-stage speed reduction, ratio 2.33
Steering clutch	Wet, multi-disc, spring loaded, hydraulically separated, hydraulic control
Steering brake	Wet, floating, direct on-off hydraulic inter-linking operation
Final drive	2-stage speed reduction of spur gear, splash lubrication, ratio 17.19
Number of drive wheel teeth	25

TRAVEL SPEED			
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

UNDERCARRIAGE SYSTEM	
Make	SHANTUI
Type	Swing type of sprayed beam, suspended structure of equalizer
Carrier rollers	2 each side
Track rollers	6 each side
Track type	Assembled, single-grouser track
Track shoe width	560 mm
Grouser height	72 mm
No. of track shoes	38 each side
Pitch	216 mm
Ground pressure	0.077 Mpa

HYDRAULIC CONTROL SYSTEM	
Rated pressure	14 MPa
Pump type	Gear Pump
Flow rate	262 L/min
Blade lift cylinder	Φ120 mm × 2
Blade tilt cylinder	Φ200 mm × 1
Ripper cylinder	Φ150 mm × 2

RIPPER	
Ripper type	Parallelogram adjustable and removable 3-shank ripper
Maximum digging depth	665 mm
Maximum lift above ground	555 mm
Weight	2495 kg

CAB	
ROPS & FOPS	YES
A/C	YES
Adjustable air suspension seat	YES
Seat belt	YES
Strobe light	YES
Fire extinguisher	YES, SABS Standard
Engine oil pressure meter	YES
Hydraulic oil temperature meter	YES
Coolant temperature meter	YES
Hour meter	YES
Voltage meter	YES

DIMENSIONS AND WEIGHT	
Overall length	6790 mm
Overall width	3725 mm
Overall height	3402 mm
Ripper overall width	2227 mm
Machine width (Blade off)	2620 mm
Machine length (Blade off)	5500 mm
Min. ground clearance	405 mm
Min. turning radius	3.3 m
Gradeability	30°
Track Gauge	2000 mm
Operating weight	23.44 ton

ELECTRICAL EQUIPMENT	
Batteries	2 x 12 V-165 Ah
Starter Motor	11 kW
Alternator	35 A

SERVICE	
Fuel tank	450 L
Engine coolant	112.5 L
Engine oil	45 L
Hydraulic tank	110 L
Transmission and steering case	122 L
Final drive case	82 L each side

BLADE			
Type	Straight Tilt	Angle	U-Blade
Dozing capacity	6.8 m ³	4.7 m ³	7.5 m ³
Blade width	3725 mm	4365 mm	3725 mm
Blade height	1315 mm	1055 mm	1374 mm
Maximum drop below ground	540 mm	535 mm	540 mm
Maximum tilt adjustment	735 mm	500 mm	755 mm
Maximum blade angle	N/A	25°	N/A

The specifications are subject to change without notice. The pictures may include options. The actual colour & appearance of the product may differ from what is shown.

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