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XCMG Bulldozer



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TY230

BULLDOZER



Main Specifications

Bulldozer Technical Data Sheet

Items	Specifications	Unit
operation weight	19950	kg
Tracked bulldozer	TY230	
with staight blade towing lever	25740	kg
Running speed	0-3.8	km/h
	Forward 0-6.8	km/h
	0-11.3	km/h
	Reverse 0-4.9	km/h
	0-8.2	km/h
	0-13.6	km/h
Min,turning radius	3.3	m
Max.gradient	30	°

Items	Specifications	Unit	
Overall Dimensions	General	6790	mm
	Overall width	3815	mm
	Overall height	3380	mm
	Track center distance	2000	mm
	Ground Length	2840	mm
	Track Width	610	mm
	Ground Area	34648	cm ²
	Ground pressure	0.076	MPa
	Minimum ground clearance	405	mm
Engine	Model	NT855—C280III	/
	Type	Straight line water cooled ,4-stroke ,direct injection,turbocharged diesel	/
	No.of cylinders –bore×stroke	6-Φ139.7×152.4	mm
	Piston displacement	14.01	L
	Rated horsepower	169	kW
	Rated revolution	2000	r/min
	Max.output torque	1033	N.m
	Maximum torque/speed	1400	r/min
	Tooth depth	1.25	/
NO.of track shoe	209	g/kW.h	



Items	Specifications	Unit	
Torque Converter	Forms	Three components, a 1-phase torque converter	/
	Cooling	Oil cooler (water cooled)	/
Running System	type	Swing type balance beam suspension structure	/
	No.of road Wheels	14	/
	No.of support rollers	2(2 pieces/each side)	/
	Track pitch	216	mm
	Tooth depth	72	mm
	NO.of track shoe	39×2	/
Transmission	Hydraulic torque converter	Single-stage single-phase,three element	/
	Gearbox	Planetary gear ,multi-disc clutch ,hydraulic forced lubrication	/
	Central transmission	Spiral bevel gear ,single stage gear reduction ,spattering lubrication	/
	Steering clutch	Wet multi-disc,spring compression ,hydraulic disengaging	/
	Steering brake	Wet.float type .direct clutching ,hydraulic booster brake	/
	Final drive	Two-stage spur reduction,spattering lubrication	/
Work Device	Blade width	3725	mm
	Blade height	1390	mm
	Maximum lifting height	1210	mm
	Soil depth of maximum shear	540	mm
	Inclination	750	mm
Hydraulic System	Type of cylinder	Gear pump PAL.160	/
	Pump flow	266	L/min
	Max.operation pressuere	13.7	MPa
	Work tank capacity	110	L



TY320

BULLDOZER



Parameters of Complete Machine

Name	Specification	Remarks
Length× width × height (mm)	8916×4130×3708.5 (To height of smoke vent)	Including single-tooth scarifier
Operating mass of complete machine (kg)	36720	Operating mass of main machine
	40490	Including single-tooth scarifier
Structural mass of bulldozer (kg)	34390	Excluding scarifier and anti-rolling device
Maximum drawbar pull (kN)	300	
Maximum pull efficiency	235kn	
Minimum turning radius (m)	3.94	
Maximum gradeability (°)	30	
Minimum ground clearance (mm)	500	
Forward speed (km/h)	3.6/6.6/11.5	
Reversing speed (km/h)	4.4/7.8/13.5	
Ground connection length of track (mm)	3150	
Distance between track centers (mm)	2140	
Fuel tank capacity (L)	600	
Noise	1. Noise near driver is not higher than 92dB (A).	

Chongqing Cummins Engine Corporation

Engine

Name	Specification
Model	NTA855-C360S10
Type	Turbocharging, inter-cooled, vertical type
Number of cylinders- cylinder diameter × stroke (mm)	6 – 139.7×152.4
Piston swept volume (L)	14
Rated power (kW)	235
Rated engine speed (rpm)	2000
Maximum torque (N.m/rpm)	1509/1400
Fuel consumption rate (g/kW.h)	≤213
Start-up mode	Motor starting
Starting motor	24V, 11kW
Alternator	Silicon rectifier 28V, 35A
Storage battery	24V(12×2)-195Ah×2

Drive system

Name	Specification	
Hydraulic torque converter	3-element, 1-stage, 1-phase	
PTO	Counter shaft type, gear drive, pressure lubrication	
Transfer case	Counter shaft type, gear drive, pressure lubrication	
Power shift transmission	Planet gear, multiple-disk clutch, hydraulic + forced lubrication	
Traveling speed (km/h)	Forward gear 1	0-3.6
	Forward gear 2	0-6.6
	Forward gear 3	0-11.5
	Reverse gear 1	0-4.4
	Reverse gear 2	0-7.8
	Reverse gear 3	0-13.5
Main drive	Spiral bevel gear, splash lubrication	
Steering clutch	Wet-type, multiple-disk, spring pressing, hydraulic separation	
Steering brake	Wet-type, belt-type, hydraulic power-assisted braking, forced lubrication for brake belt	
Final drive	Straight gear, double reduction, splash lubrication	
Final drive ratio	First level	45/12=3.75
	Second level	55/12=4.5833

Traveling system

Name	Specification
Suspension mode	Semi-rigid, equalizing beam floating type
Type of driving wheel	Embedded, driving tooth blocks
Type of track	Assembled, single track grouser
Type of chain track	Sealed
Pitch of chain track (mm)	228.6
Track tensioning mechanism	Tensioning cylinder, grease tensioning
Width of standard track shoe (mm)	560
Grouser height (mm)	80
Type of track	Single –row combined
Number of track shoes one side (piece)	41
Number of upper track wheels on one side (piece)	2
Number of thrust wheels on one side (piece)	7

Control system

Name	Specification
Linkage of the throttle	Throttle control handle is linked with foot throttle pedal
Operation of speed variation	Hydraulic power-assisted steering
Operation of brake pedal	Hydraulic power-assisted braking

Working device

Name	Specification	Remark
Dimensions of the blade (mm) W× H	Straight tilting blade 4130×1590	
Weight of straight tilting blade (kg)	5150	
Capacity of the blade (m3)	Straight tilting blade 10.4	
Maximum cutting of the blade (mm)	560	
Maximum lifting of the blade (mm)	1560	
Maximum inclination of the blade (mm)	1000	
Cutting angle (°)	55	
Lifting speed m	0.3	
Free settling amount mm/15min	≤150	
Production efficiency(m3/h)	480	Haul distance of straight tilting blade is 40m
Type of scarifier	Three-tooth, single-tooth	
Teeth space of three-tooth scarifier (mm)	1120 (three-tooth) 2240 (two-tooth)	

Name	Specification	
Three-tooth scarifier	Scarifying depth (mm)	842
	Lifting height (mm)	883
Single-tooth scarifier	Scarifying depth (mm)	1250
	Lifting height (mm)	955
Weight of three-tooth scarifier (kg)	5350	
Weight of single-tooth scarifier (kg)	5000	

Hydraulic system of working device

Name	Specification	
Rated pressure (Mpa)	13.7	
Model of pressure pump	CBZ4200	
Rated flow (L/min)	355	
Type of control valve	Slide valve type	
Lifting cylinder of the blade: Cylinder diameter × rod diameter× stroke (mm)	φ140×φ75×1346	
Tilting cylinder of the blade: Cylinder diameter × rod diameter× stroke (mm)	φ225×φ90×80	
Lifting cylinder of scarifier: Cylinder diameter × rod diameter× stroke (mm)	φ225×φ90×540	
Angle adjusting cylinder of scarifier: Cylinder diameter × rod diameter× stroke (mm)	φ225×φ90×500	Also known as tilting cylinder of scarifier

Hydraulic system of the chassis

Name	Specification
Model of variable speed pump	CBJ40-B45L-B1K
Rated flow (L/min)	90
Rated pressure (Mpa)	2.5
Model of steering pump	CBJ40-B100
Rated flow (L/min)	200
Rated pressure (Mpa)	2.0
Cooling mode for transmission oil	Water-cooled