

TY160

BULLDOZER

TECHNICAL CHARACTERISTICS

- AWARDED THE ISO9001:2000 SYSTEM CERTIFICATE
- ENGINE MODEL: CUMMINS NT855-C280S10/SHANGCHAI SC11CB184G2B1/WEICHAH WD10G178E25"
- FLYWHEEL HORSEPOWER: 160 HP (120 kW)/1850RPM
- OPERATING WEIGHT(STRAIGHT-TILT DOZER): 17400kg
- INTRODUCED KOMATSU D65A-8 BULLDOZER TECHNOLOGY, FEATURING HIGH PERFORMANCE CAPACITY, EFFICIENCY, SAFE AND RELIABLE IN OPERATION.
- WIDELY USED IN BUILDING INFRASTRUCTURE AND INDUSTRY INCLUDING LARGE MINING AREA , PORT, POWER PLANT,ROAD BUILDING ETC.
- OPTIONAL ATTACHMENTS: STRAIGHT-TILT BLADE, ANGLE BALDE, U-BLADE, ROPS CAB,CANOPY ,3-SHANK RIPPER,AIR CONDITIONER,510mm TRACK SHOES,610mm TRACK SHOES.



Main Technical Specification

SPECIFICATION

Specification/Blade type	Straight-tilt	Angle	U-Blade
Operating Weight (kg)	17400	17700	17900
Min.Ground Clearance (mm)	400	400	400
Min.Turning Radius (m)	3.2	3.2	3.2
Ground Pressure (MPa)	0.069	0.070	0.071
Track Gauge (mm)	1880	1880	1880
Max. Pulling Force (KN)	142	142	142
Grade Ability (°)	30	30	30

ENGINE

Specification/Blade type	Straight-tilt	Angle	U-Blade
Model & Type Cummins NT855-C280S10/ Shangchai SC11CB184G2B1/ Weichai WD10G178E25, 6-cylinder, in-line, vertical, water-cooled, 4-stroke-cycle, turbo-charged, over valve directs injection			
Rated Revolution (rpm)	1850		
Flywheel Horsepower (HP)	160		
Cylinder Number-BoreX Stroke(mm)	Cummins : 6-139.7 × 152.4 Shangchai : 6-120.6 × 152.4 Weichai : 6-126 × 130		
Piston Displacement (L)	14	10.5	9.73
Min. Fuel Consumption (g/kW.h)	212	223	223
Max.Torque (Nm/rpm)	877/1250	830/1100	830/1100
Starting Method	Starting motor 24V 7.5KW		

POWER TRANSMISSION SYSTEM

Torque Converter	3-element, 1-stage, 1-phase
Transmission	Bevel gear, constant meshed, forced lubrication, hand-manipulated, 3 forward and 3 reverse speeds
Bevel Gear	Spiral bevel gear, splash lubrication, single-stage speed reduction
Steering Clutch	Wet, multi-disc, spring loaded, hydraulically separated, hydraulic control
Steering Brake	Wet, band type, pedal hydraulic booster, with parking brakes
Final Drive	Double reduction of spur gear, splash lubrication

HYDRAULIC SYSTEM

Pump Type	Gear pump 07441-67503
Working Pressure (MPa)	13.4
System Discharge (L/min)	at revolution of 1850rpm)
Working Cylinder type	Double-acting piston type
Working Cylinder Lift Number-BoreXRodXStroke(mm)	2-110 × 65 × 1026
Working Cylinder Tilt BoreXRodXStroke (mm)	160 × 70 × 140

UNDERCARRIAGE SYSTEM

Type	Swing type of sprayed beam, suspended structure of equalizer bar		
Carrier Rollers	2/(each side)		
Track Rollers	6/each side (4-single flange, 2-double flange)		
Track Type	Sealed, assembled single-grouser		
Number Of Track Shoes	44/(each side)		
Width Of Track Shoes (mm)	510		
Pitch (mm)	203.2		
Length Of Track On Ground (mm)	2430		

WORK EQUIPMENT

Specification/Blade type	Straight-tilt	Angle	U-Blade
Blade Capacity (m³)	4.5	4.3	8.6
Blade WidthxHeight(mm)	3416 × 1145	3970 × 1037	4064 × 1386
Max.Lift (mm)	1110	1095	1095
Max.Depth (mm)	530	545	545
Max.tilt Adjustment (mm)	≥860	≥400	≥400
Pitch Adjustment (°)	55	55	55
Capability(m³/H)(Theoretical value 40m)	247	247	260
Weight Of Blade(kg)	2350	2450	2560

COOLANT AND LUBRICANT CAPACITY

Fuel Tank Capacity (L)	320
Hydraulic Tank Capacity (L)	108
Engine oil Capacity (L)	45
Torque Converter ,Transmission, Bevel Gear ,Steering Clutch Capacity(L)	122
Final Drive Capacity (L)	33

RIPPER(OPTIONAL)

3-Shank Ripper:	
Max.Digging Depth (mm)	572
Max.Lift (mm)	702
Shank Of Distance (mm)	950
Weight (kg)	1700

TRAVEL SPEED

	1st	2nd	3rd
Forward (km/h)	0~3.8	0~6.6	0~10.6
Reverse (km/h)	0~4.9	0~8.5	0~13.6

OVERALL DIMENSIONS

Straight-tilt Blade Dimensions

