TY230 BULLDOZER

TECHNICAL CHARACTERISTICS

- AWARDED THE ISO9001:2000 SYSTEM CERTIFICATE
- ENGINE MODEL:CUMMINS NT855–C280S10
- FLYWHEEL HORSEPOWER: 220 HP (162 kW)/1800RPM
- OPERATING WEIGHT(STRAIGHT–TILT DOZER): 23400kg
- MANUFACTURED BY ADOPTING THE TECHNOLOGY OF KOMATSU D85A–18 BULLDOZER, FEATURING HIGH PERFORMANCE CAPACITY, EFFICIENCY, SAFE AND RELIABLE IN OPERATION.
- WIDELY USED IN INFRASTRUCTURE AND INDUSTRY INCLUDING LARGE MINE ,PORT,POWER PLANT,ROAD BUILDING ETC.
- VARIOUS OPTIONS:ANGLE BALDE,STRAIGHT–TILT BLADE,U–BLADE,ROPS CABIN,CANOPY,3–SHANK RIPPER,SINGLE RIPPER,AIR CONDITIONER,560mm TRACK SHOES,610mm TRACK SHOES.

Main Technical Specification

SPECIFICATION

Specification/Blade type	Straight-tilt	Angle	U-Blade
Operating Weight (kg)	23400	23650	24500
Min.Ground Clearance (mm)	405	405	405
Min.Turning Radius (m)	3.3	3.3	3.3
Ground Pressure (MPa)	0.077	0.077	0.073
Track Gauge (mm)	2000	2000	2000
Max. Pulling Force (KN)	202	202	202
Grade Ability (°)	30	30	30

ENGINE

Model & Type Cummins NT855-C280S10 6-cylinder, In-line, 4-stroke-cycle, water-cooled ,overhead valve direct injection, turbocharged diesel	
Rated Revolution (rpm)	1800
Flywheel Horsepower (HP)	230
Cylinder Number-BoreX Stroke(mm)	6-139.7 × 152.4
Piston Displacement (L)	14
Min. Fuel Consumption (g/kW.h)	212
Max.Torque (Nm/rpm)	1078/1250
Starting Method	Starting motor 24V 11KW

POWER TRANSMISSION SYSTEM

Torque Converter	3-element,1-stage,1-phase
Transmission	Bevel gear, constant meshed, forced lubrication, hand-manipulated,5 forward and 4 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,floating, direct on-off hydraulic inter-linking operation
Final Drive	Double reduction of spur gear, splash lubrication

HYDRAULIC SYSTEM

Pump Type	Gear pump 07444-66103
Working Pressure (MPa)	14
System Discharge (L/min)	262(at revolution of 1800rpm)
Working Cylinder type	Double-acting piston type
Working Cylinder Lift Number-BoreXRodXStroke(mm)	2-120 × 70 × 1043
Working Cylinder Tilt BoreXRodXStroke (mm)	200 × 90 × 130

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	38/(each side)
Width Of Track Shoes (mm)	560
Pitch (mm)	216
Length Of Track On Ground (mm)	2730

WORK EQUIPMENT

Specification/Blade type	Straight-tilt	Angle	U-Blade
Blade Capacity (m^3)	6.4	4.8	7.5
Blade WidthxHeight(mm)	3725 × 1315	4365 × 1055	3800 × 1343
Max.Lift (mm)	1210	1300	1210
Max.Depth (mm)	540	530	540
Max.tilt Adjustment (mm)	⩾735	⩾500	⩾755
Pitch Adjustment (°)	55	53.5	55
Capability(m^3/H)(Theoretical value 40m)	330	245	365
Weight Of Blade(kg)	3630	3850	4200

COOLANT AND LUBRICANT CAPACITY

Fuel Tank Capacity (L)	480
Hydraulic Tank Capacity (L)	110
Engine oil Capacity (L)	45
Torque Converter ,Transmission ,Bevel Gear.,Steering Clutch Capacity(L)	122
Final Drive Capacity (L)	72

RIPPER(OPTIONAL)

	Single Ripper	3-Shank Ripper
Max.Digging Depth (mm)	695	666
Max.Lift (mm)	520	555
Shank Of Distance (mm)	/	1000
Weight (kg)	2453	2495

TRAVEL SPEED

	1st	2nd	3rd
Forward (km/h)	0~3.6	0~6.5	0~11.2
Reverse (km/h)	0~4.3	0~7.7	0~13.2

OVERALL DIMENSIONS

Straight-tilt Blade Dimensions