

• HYDRAULIC CRAWLER • **BULLDOZER** •

EXTRA WORK, EXTRA STRONG



**BEST QUALITY
ENGINE**



**HIGH
PERFORMANCE**



**HEAVY DUTY
CONSTRUCTION**

INDOTARA

BOMAC

エクストラ ワークス エクストラ ストロング

CRAWLER HYDRAULIC BULLDOZER

Type BBD17

**CAPACITY
17.3 TON**



EXTRA WORK, EXTRA STRONG !

- Bomac BTW10 engine gives you more power and reliability you need. Improved fuel economy over the previous model with strong torque output and low fuel consumption gives you excellent overall fluid efficiency.
- The gearbox uses a planetary gear structure that operates the hydraulic control valve to achieve forward, reverse and various shifts. The structure is planetary gear, multi-plate clutch, hydraulic combined with forced lubrication, which is divided into three forward and three reverse.
- The main frame of the full box structure adopts steel plate welded full box type integral structure, which is welded with the rear axle box. It has high impact load bearing capacity and resistance to bending and twisting. High quality weld seam ensures the main frame has a full life cycle.
- Mainstream 14MPa working hydraulic system, can greatly reduce the failure rate of hydraulic components with overload protection function.

TECHNICAL PARAMETERS**OVERALL**

Dimension	5140 x 3388 x 3032 mm
Operating Weight	17300 kg

ENGINE

Model	Bomac BTW10
Type	Water-cooled, in-line, 4 stroke, direct injection
Number of Cylinder	6
Bore x Stroke	Φ126x130 mm
Piston Displacement	9.726 L
Rated Power	131 kW (178) @1850 rpm
Max. Torque	765 N · m @1300 rpm
Fuel Consumption	214 g/kW · h

TRANSMISSION

Torque Converter	3 Element, 1 Stage, 1 Phase
Transmission	Planetary gear type, power-shift, forced lubrication
Central Drive Shaft	Spiral bevel gear, Single stage speed reduction, splash lubrication
Steering Clutch	Wet, multi-disc, spring loaded, hydraulically separated, hydraulic control
Steering brake	Wet type, floating band structure, foot brake with hydraulic booster
Final Drive	2 Stage speed reduction of spur gear, splash lubrication

TRAVEL SPEED

Gear	1st	2nd	3rd
Forward	0~3.29 km/h	0~5.82 km/h	0~9.63 km/h
Reverse	0~4.28 km/h	0~7.59 km/h	0~12.53 km/h

UNDERCARRIAGE SYSTEM

Type	Sprayed beam, suspended structure of equalizer
No. of Carrier Rollers	2 each side
No. of Track Rollers	6 each side
No. of Track Shoes	37 each side
Track Shoe type	Single Grouser
Width of Track shoe	510 mm
Pitch	203.2 mm
Track Gauge	1880 mm
Ground Pressure	0.67 Mpa

HYDRAULIC SYSTEM

Max. Pressure	14 Mpa
Pump Type	Gear Pump
Displacement	243 L/Min
Bore of Working Cylinder	110 mm x 2

BLADE

Blade Type	Straight-tilt Blade	Angle Blade	Semi U blade
Blade Capacity	4.5 m ³	4.3 m ³	5 m ³
Blade Width	3388 mm	3970 mm	3556 mm
Blade Height	1150 mm	1040 mm	1120 mm
Max Drop Below Groud	540 mm	540 mm	530 mm
Max Tilt Adjustment	400 mm	-	400 mm

THREE SHANK RIPPER

Max. Digging Depth	572 mm
Max. Lift Above Ground	592 mm
Weight of 3-shank Ripper	1667 kg

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CRAWLER HYDRAULIC BULLDOZER

Type **BBD23**

**CAPACITY
23.8 TON**



EXTRA WORK, EXTRA STRONG !

- A CUMMINS NT855-C280S10 engine gives you more power and reliability you need. Improved fuel economy over the previous model with strong torque output and low fuel consumption gives you excellent overall fluid efficiency.
- The highly reliable power shift transmission, stable torque converter and the two-stage straight-tooth structure's final drive can transmit power efficiently.
- It can realize automatic fault diagnosis and full monitoring. The overall cast instrument panel integrates air conditioning, electrical appliances and instruments into one, which is more convenient and luxury.
- According to the ergonomic design, the driver's seat and armrest can be adjusted up and down, the shifting, steering and throttle are placed on the left side, and the soft shaft structure is adopted. The working device is operated on the right side, and the servo control system is used to make the operation process more light and flexible.

TECHNICAL PARAMETERS**OVERALL**

Dimension	5140 x 3388 x 3032 mm
Operating Weight	23800 kg

ENGINE

Model	Cummins NT855-C280S10 / QSNT-C235
Type	Water-cooled, in-line, 4 stroke, direct injection
Number of Cylinder	6
Bore x Stroke	Φ139.7 x 152.4 mm
Piston Displacement	14.01 L
Rated Power	175 kW (238HP) @1800 rpm
Max. Torque	1030 N · m @1300 rpm
Fuel Consumption	205 g/kW · h

TRANSMISSION

Torque Converter	3 Element, 1 Stage, 1 Phase
Transmission	Planetary gear type, power-shift, forced lubrication
Central Drive Shaft	Spiral bevel gear, Single stage speed reduction, splash lubrication
Steering Clutch	Wet, multi-disc, spring loaded, hydraulically separated, hydraulic control
Steering brake	Wet type, floating band structure, foot brake with hydraulic booster
Final Drive	2 Stage speed reduction of spur gear, splash lubrication

TRAVEL SPEED

Gear	1st	2nd	3rd
Forward	0~3.6 km/h	0~6.5 km/h	0~11.2 km/h
Reverse	0~4.28 km/h	0~7.7 km/h	0~13.2 km/h

UNDERCARRIAGE SYSTEM

Type	Sprayed beam, suspended structure of equalizer
No. of Carrier Rollers	2 each side
No. of Track Rollers	6 each side
No. of Track Shoes	38 each side
Track Shoe type	Single Grouser
Width of Track shoe	560 mm
Pitch	216 mm
Track Gauge	2000 mm
Ground Pressure	0.07 Mpa

HYDRAULIC SYSTEM

Max. Pressure	14 Mpa
Pump Type	Gear Pump
Displacement	243 L/Min
Bore of Working Cylinder	110 mm x 2

BLADE

Blade Type	Straight-tilt Blade	Angle Blade	Semi U blade
Blade Capacity	6.4 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
Max Drop Below Groud	538 mm	535 mm	540 mm
Max Tilt Adjustment	>735 mm	>500 mm	>755 mm

THREE SHANK RIPPER**SINGLE SHANK RIPPER**

Max. Digging Depth	666 mm	Max. Digging Depth	695 mm
Max. Lift Above Ground	555 mm	Max. Lift Above Ground	515 mm
Weight of 3-shank Ripper	2495 kg	Weight of 1-shank Ripper	2453 kg

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CRAWLER HYDRAULIC BULLDOZER

Type **BBD37**

**CAPACITY
37.5 TON**



EXTRA WORK, EXTRA STRONG !

- A CUMMINS NTA855-C360S10 engine gives you more power and reliability you need. With exhaust turbocharger, it can still work normally at altitude of 4.300 meters.
- The highly reliable power shift transmission, stable torque converter and the two-stage straight-tooth structure final drive transmit power efficiently.
- With independent engine cooling water tank, chassis oil cooler, water and air intercooler provides excellent cooling performance and simple maintenance operation to ensure continuous operation of the machine.
- The final drive is driven low and provides more powerful driving force and efficient gradeability.
- The standard straight tilt blade features powerful cutting force and the heavy single-shank ripper can be equipped for the ripping of clay and frozen earth, featuring high working efficiency and super-strong penetrating force.

TECHNICAL PARAMETERS**OVERALL**

Dimension	6880 x 4130 x 3725 mm
Operating Weight	37500 kg

ENGINE

Model	Cummins NT855-C360S10 / QSNT-C345S30
Type	Water-cooled, in-line, Overhead valve direct injection, turbocharged diesel
Number of Cylinder	6
Bore x Stroke	Ø139.7 x 152.4 mm
Piston Displacement	14.01 L
Rated Power	275 kW (238HP) @2000 rpm
Max. Torque	1440 N·m @1400 rpm
Fuel Consumption	245 g/kW·h

TRANSMISSION

Torque Converter	3 Element, 1 Stage, 1 Phase
Transmission	Planetary gear type, power-shift, forced lubrication
Central Drive Shaft	Spiral bevel gear, Single stage speed reduction, splash lubrication
Steering Clutch	Wet, multi-disc, spring loaded, hydraulically separated, hydraulic control
Steering brake	Wet type, floating band structure, foot brake with hydraulic booster
Final Drive	2 Stage speed reduction of spur gear, splash lubrication

TRAVEL SPEED

Gear	1st	2nd	3rd
Forward	0~3.6 km/h	0~6.6 km/h	0~11.5 km/h
Reverse	0~4.4 km/h	0~7.8 km/h	0~13.5 km/h

UNDERCARRIAGE SYSTEM

Type	Sprayed beam, suspended structure of equalizer
No. of Carrier Rollers	2 each side
No. of Track Rollers	7 each side
No. of Track Shoes	41 each side
Track Shoe type	Single Grouser
Width of Track shoe	560 mm
Pitch	228.6 mm
Track Gauge	2140 mm
Ground Pressure	0.105 Mpa

HYDRAULIC SYSTEM

Max. Pressure	14 Mpa
Pump Type	Gear Pump
Displacement	355 L/Min
Bore of Working Cylinder	140 mm x 2

BLADE

Blade Type	Straight-tilt Blade	Angle Blade	Semi U blade
Blade Capacity	10 m ³	6 m ³	11.9 m ³
Blade Width	4130 mm	5000 mm	4130 mm
Blade Height	1590 mm	1140 mm	1710 mm
Max Drop Below Groud	560 mm	630 mm	560 mm
Max Tilt Adjustment	1000 mm	500 mm	1000 mm

THREE SHANK RIPPER**SINGLE SHANK RIPPER**

Max. Digging Depth	842 mm	Max. Digging Depth	1250 mm
Max. Lift Above Ground	883 mm	Max. Lift Above Ground	965 mm
Weight of 3-shank Ripper	3802 kg	Weight of 1-shank Ripper	3252 kg



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