



**ULEE INTERNATIONAL LTD**

13/F, Caijiang Mansion, 223 South Caihong Road, Ningbo, China

Tel + 86 139 678 11463 Fax: +1 206 337 1581

France Office: +33 556 76 18 31 or +33 642 80 20 67

E-mail: uleeinternational@ymail.com

## BULLDOZER MD32

CUMMINS TECHNOLOGY



Operation weight	35900kg
Max.drawbar pull	380Kn
Grade ability	30%
Ground pressure	105 Kpa
Track gauge	2140mm
Width of track shoe	560mm
Ground clearance	500mm
System pressure	13.7Mpa
Engine Cummins	NTA855-C360
Rated power	239kw/2000rpm
Travel speed	F3/R3
Blade width	4130mm
Fuel tank capacity	753L
Overall dimension	6880x4130x3640mm

### MD32

- \* Cummins engine
- \* 320HP
- \* Hydraulic control
- \* S-balde
- \* Cabin
- \* Weight 35.9 ton
- \* Ripper as optional

**Bulldozers MD32**

**USD 211 500/set FOB Shanghai**



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### SD7

\* Under Caterpillar license (D6 – D7)

\* Cummins engine  
\* 230hp

\* High Track

\* S-balde

\* Cabin

## Main specifications

Operating weight (not including ripper)	23800 kg
Ripper weight	3900 kg
Engine flywheel power	162 k W
Ground pressure (without ripper)	71.9 kPa
Ground clearance	404 mm
Ground contact length	2890 mm
Track center distance	1980 mm
Overall dimensions (L x W x H) : (with single shank ripper)	7604 x 3823 x 3402(with straight tilting blade)
Grade ability	Latitude 30 ° Transverse 25 °
Theory travel speed (km/h)	
1st gear forward 0-3.9	1st gear backward 0-4.8
2nd gear forward 0-6.5	2nd gear backward 0-8.2
3rd gear forward 0-10.9	3rd gear backward 0-13.2
Dozing operation rate (moving distance 40m)	350m 3 /h

## Diesel engine specifications

Model	NT855-C280 (Cummins)
Type	water cooled, single line, vertical, four strokes, turbocharged, 6-cylinders, diameter 140mm
Rated speed	2100 RPM
Flywheel power (speed at 2100 rpm)	162 kW
Starting mode	24V electric starting

## Torque converter

Torque converter used in SD7 bulldozer is power separating hydraulic-mechanic type.

## Transmission assembly

It integrates center drive, transmission and speed changing control valve into one component. It can be assembled or disassembled as a assembly or as a part. It is very convenient to service. Transmission is multi-stage planetary gear drive to realize modular assembling and disassembling. The shift can be changed among 1st gear, 2nd gear, 3rd gear forward or reverse rapidly, through multi-functional control valve.

## Steering and braking clutch

Steering clutch and braking clutch are adjustment free, oil-type, multi-disc clutch. The braking clutch is pressed by spring, separated hydraulically, constant meshed type. Steering clutch is hydraulic pressed, non-constant engaged clutch. The action of steering and braking is combined, operation manually to realize steering slowly, sharply and braking. The braking of entire machine can be realized through the pedal. Parking braking rod is designed to keep the undercarriage system in braking condition when starting the engine and guarantee the machine not to slip on slope when starting the engine.

## Final drive

Final drive is two-stage planetary reduction gear mechanism. It is mounted at outside of steering and braking clutch. Combined sprocket segment is very convenient for assembling, disassembling and service.

## Hydraulic system of the machine

It is composed of oil pump, transmission control valve, steering and braking control valve, sequence valve, relief valve at torque convertor outlet, filter and lines.

Main pump	Gear pump
Oil flow	160 L/min
Working pressure	3.1 MPa

## Rops with air conditioner cab

The cab is hexagonal thin wall box-type structure. Glass is mounted at six sides with wide viewing area. Pulling and pushing glass is installed at back side. Air conditioner is top-mounted with functions of cooling and heating. The structure of Rop is rigid. It can protect the driver efficiently when the bulldozer is in special condition.

## Implement hydraulic system

Implement hydraulic system can control lifting, lowering and tilting of the blade. It also can control lifting, lowering of the ripper. It mainly consists of oil pump, cylinder, inlet valve group diverter valve group, oil tank line and controlling parts.

Main pump High pressure	Gear pump
Oil flow	194 L/min
System working pressure	18.6 MPa

## Left and right undercarriage system

The track is triangle shape. The sprocket is elevated. There are two idlers in front and at rear of the frame and seven track roller. Recoil spring and cylinder adjuster is mounted at the undercarriage. The rear end of undercarriage frame is supported on the pivot. The front end is articulated with the equalizer bar. Choosing different undercarriage system according to different implement. The customer is required can guarantee center gravity of the machine to be at best efficient position. Choosing different width of track shoe can ensure the bulldozer developing its optimum traction efficiency.

## Maintenance filling capacity

Fuel tank	450L
Water tank of cooling system	118L
Camshaft box of the engine	20L

Bevel gear case	150L
Implement oil tank	100L
Pivot lubricating tank	15L
Final drive	15L

### Optional implement and components (\* ordinary)

#### 1) cab

A 、 Rops with air conditioner cab \*

B 、 Rops cab

C 、 Rops canopy

#### 2) Front mounted implement

A 、 straight tilting blade \*

B 、 Angle blade

C 、 U-type blade

#### 3) Rear mounted implement

A 、 single shank ripper \*

B 、 three shanks ripper

C 、 back drawing mechanism

#### 4) Track shoe of undercarriage

Optional track shoe width

A 、 510mm B 、 560mm \*

C 、 660mm D 、 914mm

5) winch dozer used in forest, desert dozer, LGP dozer ,HW dozer can be chosen according to special requirements of customer.

Blade type	Track ground contact length(A)	Length of machine (B)	Blade height C	Overall height (D)	Blade width E	Track center distance (F)	Digging depth	Lifting height	Blade capacity
Straight tilting Blade	2895	7604	1280	3402	3823	1980	500	1170	6.3
Coal pushing blade	2895	7880	1350	3402	4428	1980	670	1115	8.1
Angle blade	2895	7571	1100	3402	4253	1980	670	1115	5.2
LGP blade	3 185	7 190	1150	3482	4 382	2235	635		

Prix unitaire FOB Port de Shanghai : 142 800 Euros



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## SD8

- \* Under Caterpillar License (D9 – D10)
- \* Cummins engine
- \* 330hp
- \* High Track
- \* S-balde
- \* Cabin

## Main specifications

Operating weight (not including ripper)	40000 kg
Ripper weight	4300 kg
Engine flywheel power/RPM	246 kw(335HP)/1900r/min
Track ground contact length	3280 mm
Ground pressure (without ripper)	105 kPa
Track contact length	2200 mm
Overall dimensions (L x W x H)	8090 x 4172 x 3952(with single shank ripper)
Grade ability	latitude30 °transverse 25 °
Ground clearance	485mm
Theory travel speed (km/h)	1st gear forward 0-3.9 1st gear backward 0-4.8 2nd gear forward 0-6.8 2nd gear backward 0-8.4 3rd gear forward 0-11.9 3rd gear backward 0-14.8
Dozing operating rate (moving distance 40m)	452m 3 /h

## Diesel engine specifications

Model NTA855-C400 (BC III)	Type water cooled, single line, four strokes, turbocharged, 6-cylinders, diameter 140mm
Rated speed	1900r/min
Flywheel power	246kw (335HP)
Torque storage coefficient	24.5%
Start mode	24v electric starting

## Torque converter

Power separating, hydraulic-mechanic drive, single stage torque converter is used in SD8 elevate sprocket bulldozer.

## **Transmission assembly**

It integrates center drive, transmission and speed changing control valve into one component. It can be assembled or disassembled as assembly or as a part. It is very convenient to service. Transmission is multi-stage planetary drive to realize modular assembling and disassembling. Gear the shift can be changed among 1st gear, 2nd gear, 3rd gear forward or reverse rapidly, through multi-functional control valve.

## **Steering and braking clutch**

Steering and braking clutch are adjustment-free, oil-type, multi-disc clutch. The braking clutch is pressed by spring, separated hydraulically, constant meshed type. Steering clutch is hydraulic pressed, non-constant engaged clutch. Steering and braking acts simultaneously, operated manually to realize steering slowly, sharply and braking. The braking of entire machine can be realized through the pedal. Braking rod is designed to keep the undercarriage system in braking condition and guarantee the machine not to slip on slope when starting the engine.

## **Final drive**

Final drive is two-stage planetary reduction gear mechanism. It is mounted at outside of steering and braking clutch. Combined sprocket segment is very convenient for assembling, disassembling and service.

## **Undercarriage system**

SD8 dozer utilizes elastic-mounted undercarriage. The track is triangle shape. The sprocket is elevated. Through floating function of continuous auxiliary suspension device, the machine can travel near obstacle on the ground to improve travelling stability and comfortable of the driver. Ground contact area is increased. Performance of travelling and traction is raised.

## **R.o.p.s cab**

The cab is hexagonal thin wall box-type structure. Glass is mounted at six sides with wide viewing range. Pulling and pushing glass is mounted at back side. Air conditioner can be installed according to the requirement of customer. The structure of Rops is rigid. It can protect the driver efficiently when the bulldozer is in special condition. Adjustable operator's seat bias to right 15 ° and fuel tank, engine hood, track are tilting, the driver can has a good front and rear sighting range.

## **Implement hydraulic system**

Implement hydraulic system can control lifting, lowering and tilting of the blade. It also can control the moving of ripper. It mainly consists of oil pump, cylinder, valve group, oil tank line and controlling parts. Implement pump is two group vane type pump. The main specification is as following:

Front pump Displacement 129ml/r

Rated pressure 21MPa

Rated speed 2000r/min

Rear pump Displacement 56ml/r

Rated pressure 21MPa

Rated speed 2000r/min

Rated operation pressure of blade lifting system 17.5MPa

Rated operation pressure of tilting system 18.3MPa

## **Hydraulic system of tractor**

It is composed of oil pump, transmission control valve, steering and braking control valve, sequence valve, torque converter outlet relief valve, filler and oil line, etc. Main pump is three group gear pump.

The main performance is as following:

Lubricating pump Rated displacement	90 ml/r
Rated pressure	0.4 MPa
Rated speed	2000 r/min
Working pump Rated displacement	115 ml/r
Rated pressure	3.1 MPa
Rated speed	2000 r/min
Oil draining pump Rated displacement	160 m/r
Rated pressure	0.5 MPa
Rated speed	2000 r/min

### Maintenance filling capacity

Fuel tank	753L
Water tank and diesel engine cooling water	125L
Camshaft case of diesel engine	47L
Bevel gear case hydraulic system of tractor	167L
Final drive (one side)	23L
Rear seat buffer spring case (each side)	30L
Pivot lubricating	13L
Implement system oil tank	89L

### Blade

Type	Height	Width	Capacity
s-blade	1765mm	4172 mm	13.0 m <sup>3</sup>

### Ripper

Type single, adjustable hydraulic ripper	
Rippering angle	45 °
Max. penetration	1150mm
Max. lifting height	830mm

<i>Blade type</i>	<i>Ground contact length (A)</i>	<i>Overall Length (B)</i>	<i>Blade height (C)</i>	<i>Overall height (D)</i>	<i>Blade width (E)</i>	<i>Track center distance (F)</i>	<i>Penetrating length</i>	<i>Lifting height</i>	<i>Blade capacity</i>
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Straight

tilting blade (s-blade)	3280	8090	1765	3952	4172	2200	614	1288	13.0
Straight tilting blade (S-blade)	3280	6755	1765	3952	4172	2200	614	1288	13

(with traction mechanism)

Prix unitaire FOB port de Shanghai : 267 600 €uros