



Motor
Net Beygirgücü
Çalışma Ağırlığı
Bıçak Kapasitesi

Cummins QSL 9.3
140 kW (187 hp / 190 ps) @ 2,000 rpm
17,500/20,000 kg
4.5 – 11.8 m³

LD20D **BULDOZER**

ÇETİN BİR DÜNYA, GÜÇLÜ BİR EKİPMAN.

İnşaat dünyası sizin gerçeğiniz, onu her gün yaşıyorsunuz ve para kazanmanın ne kadar zor olduğunu biliyorsunuz. Yükselen maliyetler, sürekli değişen mevzuat ve artan rekabet ortamı işinizi her geçen gün zorlaştırmakta. Biz bunu çok iyi anlıyoruz ve bu anlayışı, çok beğeneceğiniz yeni Buldozerimiz ile hayata geçiriyoruz.

YENİ LD20D CİDDİ BİR TAVİZ YOK, SADECE İSTEDİĞİNİZ HER ŞEY VE İSTEMEDİĞİNİZ HİÇ BİR ŞEY

İş makineleri sektöründe gereğinden fazla teknik ürünlere yönelik pahalı bir eğilim gözlenmektedir. Bazı imalatçılar, maliyet artırımının müşteri gözünde ürüne değer kattığına samimiyetle inanmaktadır.

BİZE FARKLI BİR HİKAYE ANLATMIŞTINIZ

Güçlü olduğu kadar hassas, sektörde öncülük yapacak bir performans, kontrol kolaylığı ve operatör konforu sunan bir buldozer istemiştiniz.

SIKI ÇALIŞAN VE 4 TEMEL İHTİYACI KARŞILAYAN BİR BULDOZER İSTEMİŞTİNİZ

- VERİMLİ GÜÇ
- HASSAS KONTROL
- İYİLEŞTİRİLMİŞ OPERATÖR ORTAMI
- BASİT & DÜŞÜK-MALİYETLİ BAKIM



Yeni LD20D ile, meydan okumanızı gördük ve size istediğiniz her şeyi verdik - hem de tavizsiz.

ZOR DURUM? Kendiniz karar verin.

DESIGN IN ACTION

Take a walk around the new LD20D and you can see that it has been designed to perfectly match your needs. **It's a tough machine, inspired by you.**

1 FUEL EFFICIENT

- | Cummins QSL 9.3 engine provides a rated power output of 154 kW.
- | Low emission certified
- | Three work modes: Power, Standard and Economy reduce fuel consumption by 20–25%

2 PREVENTATIVE MAINTENANCE

- | “One stop” maintenance concept for engine, hydraulics and electrical systems
- | Modular power train design
- | Grouped oil pressure checking points

3 SENSITIVE CONTROL

- | Finger tip control with one button gear shifting and 3 performance pre-sets
- | Pilot control joysticks

4 MODULAR DRIVETRAIN

- | Sets new standards for operational performance
- | Improves reliability
- | Easy maintenance

5 HEAVY DUTY UNDERCARRIAGE

- | The low-drive, long-track undercarriage delivers improved balance and stability
- | Tough undercarriage components are designed for extended wear in tough terrain
- | One-piece main frame

6 TRACK SHOES

- | A wide range of track shoe options helps perfectly match our bulldozers to all types of ground conditions

7 HIGH VISIBILITY CAB

- | Spacious pressurised cab
- | 10% reduction in cab noise
- | 10% overall improvement in visibility

8 LARGE BLADE CAPACITY

- | 4.5 m³ Straight blade
- | 11.8 m³ R blade



SPECIFICATIONS

OPERATING WEIGHT

Base weight with straight blade, standard equipment, cab, full fuel tank, all fluids at required level and a 75 kg operator.

LD20D/LD20DL	17,500 kg/20,000 kg
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ENGINE

Description

Guangxi Cummins Stage III, 6-cylinder straight, turbocharged, high pressure common rail, electronically controlled direct injection engine with dual curve control.

Three work modes: Standard/Economy/Heavy duty. Increased work efficiency by 25-30%.

Model	Cummins QSL9.3
Emission standard	EPA Tier 3/EU Stage III
Displacement	9.3 L
Number of Cylinder	6
Rated power	154 kW (206 hp / 209 ps) @ 2,000 rpm
Rated speed	2,000 rpm
Max. torque	1,000 Ncm @ 1,200 rpm
Air cleaner	Cummins filtration direct flow, dry type, with dash-mounted electronic service indicator.
Aspiration	EFI turbocharged, 4-stroke, air-to-air intercooled

ELECTRICAL SYSTEM

Voltage	24 V
Batteries	6-QW-120T
Battery Capacity	120 Ah
Starter Motor Output	5.4 kW

SOUND & ENVIRONMENT

Outdoor	112 dB (A)
Indoor	85 dB (A)
Air Conditioning	4 kW
Heating Capacity	5 kW

CAB

Description

Instrumentation: All important information is centrally located in the central instrument panel and operator's field of vision.

Pressurized cab with 10% lower interior noise. 4 point silicone oil shock absorption.

The cab is tested and approved according to ROPS (ISO3471) and FOPS (ISO 3449).

UNDERCARRIAGE

Suspension

Oscillation-type with equalizer bar and forward-mounted pivot shafts.

Tracks

Large deep-heat-treated, sealed, and lubricated track links and through-hardened, sealed, and lubricated rollers for maximum wear resistance.

Track gauge	1,880/2,300 mm
Track shoe width	LD20D 510/610 mm LD20DL 950/1,100 mm
Chain	Sealed and lubricated
Shoes, each side	39/44
Track rollers, each side	6
Track length on ground	2,640/3,140 mm
Ground pressure	63.7/28.4 kPa
Track pitch	203 mm
Track tension adjustment	Grease
Traction frame height	530 mm

HYDRAULIC SYSTEM

Description

Tandem gear pumps for both work hydraulics-blade lifting/tilting, and drive train control. Use of pilot control joysticks for work and travel systems improve the work efficiency and driving experience.

Main Pump Type	Gear
Main Relief Pressure	17.5±0.5 MPa
Control Valve Flow	178 L/min

POWERTRAIN

Transmission

Single-stage single-phase torque converter drives to transmission.

Counter-shaft type power shift transmission with multi-plate clutch, hydraulic engaging. Pre-set travel speed selection according to job applications.

Joystick controls for up- and down-shifting.

Steering

Geared steering module provides gradual turns while maintaining full power to both tracks plus conventional clutch-brake performance for tight or pivot turns.

Min. turning radius	3,200 mm
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Final drive

Double-reduction planetary-type final drives mounted independently of track frames and dozer push frames for isolation from shock loads.

Maximum drawbar	160 kN
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Travel speed

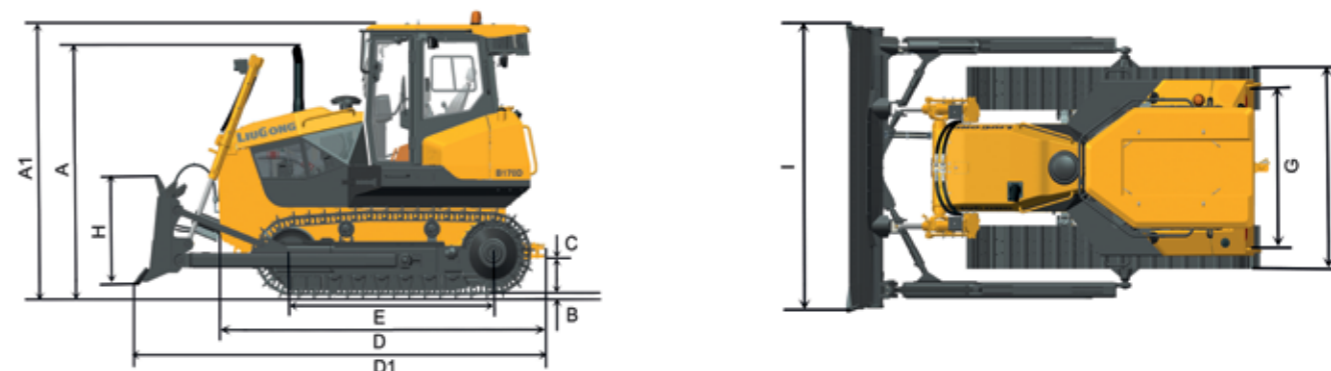
	Forward	Reverse
1st	3.6 km/h	4.3 km/h
2nd	6.6 km/h	7.8 km/h
3rd	10.6 km/h	12.6 km/h

Brakes Spring applied hydraulically released multi-disc wet brakes.

SERVICE REFILL CAPACITIES

Fuel Tank	420 L
Engine Oil	24 L
Cooling System	45 L
Hydraulic Reservoir	100 L
Transmission and Torque Converter	110 L
Final Drive, Each	40/45 L

DIMENSIONS



DIMENSIONS

	LD20D	LD20DL
A Overall height – end of exhaust pipe	3,312 mm	3,372 mm
A1 Overall height – ROPS	3,060 mm	3,060 mm
B Spines height	60 mm	110 mm
C Ground clearance	400 mm	400 mm
D Overall length, base machine	4,270 mm	4,270 mm
D1 Length with blade and drawbar	5,370 mm	5,535 mm
E Track length on ground	2,640 mm	3,140 mm
F Width over track	2,390 mm	3,400 mm
G Track gauge	1,880 mm	2,300 mm
Shoe width	510 mm (560/610 mm option)	950 mm (1,100 mm option)
Overall width with blade angled	3,422 mm	4,150 mm
Turning radius, track	3,200 mm	3,600 mm
Turning radius, outside blade tips	4,350 mm	4,550 mm

ATAŞMANLAR

BIÇAK ÖZELLİKLERİ

Tipi	Düz LD20D (LD20DL)	R Bıçak	Tolerans
Bıçak kapasitesi (referans alınan)	4.5 m ³	10.4 m ³	
H Bıçak yüksekliği	1,130 mm (1,050 mm)	1,665 mm	±20 mm
I Bıçak genişliği	3,422 mm (4,270 mm)	4,270 mm	±50 mm
Bıçak kaldırma yüksekliği	1,100 mm	1,100 mm	±50 mm
Bıçak açısı, sola	6.8°	6.8°	
Bıçak kazma derinliği	510 mm (1,100 mm)	1,100 mm	±50 mm
Minimum bıçak açısı ayarı	13°	13°	
Bıçak tilt mesafesi	445/470 mm	445/470 mm	±35 mm
Kaldırma hızı	0.5 m/s	0.5 m/s	

RİPER

Ripper type	Multi-shank ripper
Maximum penetration	572 mm
Maximum clearance under tip (raised)	592 mm
No. of ripper shanks	3
Weight of ripper	1,710 kg

VİNÇ

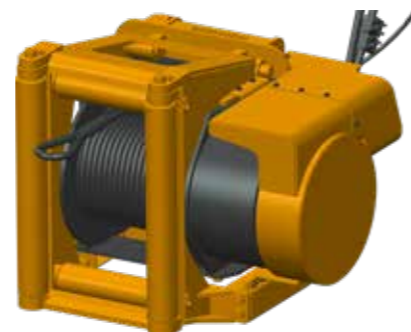
Second Layer Tension	136 kN
System pressure	16 MPa
Diameter of steel rope	26 mm
Rope winding layer	2/3
Rope capacity of steel cylinder	55 m/90 m
Weight	1,800 kg



R-BLADE



MULTI-SHANK RIPPER



WINCH

STANDARD EQUIPMENT

ENGINE

- Cummins QSL9.3 Engine, EPA Tier 3 / EU Stage III Engine output net 140 kW (187 hp / 190 ps), air-to-air intercooled, 6 cylinders, 4 stroke
- Electronically controlled high voltage common rail and turbocharger
- Pre-filter with water separator
- Fuel filter

TRANSMISSION

- LiuGong countershaft power shift transmission
- F3/R3
- pilot control

UNDERCARRIAGE SYSTEM

- Pivot semi-steel trolley chassis
- Crawler-type track
- Articulated equalizing beam

HYDRAULIC SYSTEM

- Double acting piston cylinder
- Gear pumps
- Pilot relief valve, control valve

STEERING SYSTEM

- Steering clutch - single stage, wet type, friction disc

BRAKING SYSTEM

- Single-stage wet friction brake

TRAVEL SYSTEM

- 6 track rollers each side for standard track / 7 track rollers each side for LGP (Low Ground Pressure track)
- 2 carrier rollers each side
- Idler
- Pilot joystick

TRACK

- 510 mm (LD20D)
- 950 mm (LD20DL)

ELECTRIC SYSTEM

- Six lights - 4 front, 2 rear
- Two lights on lifting cylinder
- 2x12V Battery
- 7 inch LCD screen
- Hour meter gauge
- Back-up alarm
- Radio/player with USB port
- Negative terminal switch
- 5 warning lights for low drive train pressure, low engine oil pressure, battery charge, filter clogging, diesel oil level

GAUGE GROUP

- Engine coolant temperature
- Transmission oil temperature
- Fuel level
- Hour meter
- Voltage
- Brake oil pressure
- Voltage
- Brake oil pressure

INDICATOR GROUP

- Engine oil pressure gauge
- Engine water temperature gauge
- Drive line oil temperature gauge
- Fuel tank oil level gauge

CAB

- Seat - mechanical suspension with 2 inch seat belt
- Wiper - front and back
- Interior view mirror
- Side windows slide
- Anti slip, washable floor mat, with company logo
- Air conditioner

OPTIONAL EQUIPMENT

ENGINE

- Fuel heater

TRACK

- 560/610 mm (LD20D)
- 1,100 mm (LD20DL)

CAB

- ROPS/ FOPS
- Air filtration
- Sunshade
- Small fan in cab
- Rear view mirror
- Rotating beacon

ATTACHMENTS

- Ripper
- Winch
- Centralization lubrication
- Angle Blade/Landfill Blade/Coal Blade

OTHERS

- Self-leveling system



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