WUHAN MACHINE EQUIPMENT CO LTD
2F, BLOCK#7, SBI STREET, GUANG GU, WUHAN, CHINA
WEB: www.wme.cn EMAIL: info@wme.cn FAX: +86-21-23 010 666

Bulldozer D7LGP

Bulldozer D7LGP is 230 horsepower track-type dozer with elevated sprocket, hydraulic direct drive, semi-rigid suspended and hydraulic controls. It can be equipped with straight tilting blade, angle blade, coal pushing blade, single shank ripper, three shanks ripper. The cab is Rops with air conditioner.

D7LGP-230 horsepower, elevated sprocket bulldozer integrate modern science into it, its new structure, good performance, high working efficiency, safety and comfortable operation condition, reliable entire quality, excellent service is your wise choosing.

Main specifications

Operating weight(not including ripper) 24700kg
Ripper weight 3900kg
Engine flywheel power 169kw
Ground pressure(without ripper) 45.5kPa
Ground clearance 404mm

Ground contact length 2890mm

Track center distance 2235mm

Overall dimensions(L×W×H) : (with single shank ripper) 7190×4382×3402(with straight tilting blade)

Grade ability Latitude30 ° 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) 169 kW

Starting mode 24V electric starting

Torque converter

Torque converter used in D7LGP 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 converter outlet, filter and lines.

Main pump Gear pump

Oil flow 160 L/min

Working pressure 3.1 MPa

Rops 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. 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, lowing and tilting of the blade. It also can control lifting, lowing 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

D、914mm

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	1580	3402	3500	1980	500	1170	6.3
Angle blade	2895	7571	1100	3402	4253	1980	670	1115	5.2
LGP blade	**3185**	**7190**	**1150**	**3482**	**4382**	**2235**	**635**		

Note: All dimensions are approximate. Specifications are subject to change without notice.