



947H WHEEL LOADER SPECIFICATIONS

- Equipped with Dongfeng Cummins engine
- Luxury cabin decoration and A/C provide operator comfort
- **5 forward & 3 reverse power shift transmission**
- Combined seal cylinder obtains high seal performance and more reliability

• Overall Dimension 整机尺寸		
1	Length(with bucket on ground)整机长度	7070(mm)
2	Width(to outside of wheels)整机宽度 (到轮胎外侧)	2570(mm)
3	Bucket width 铲斗宽度	2685(mm)
4	Height(To the top of the cab)高度 (到驾驶室顶部)	3390(mm)
5	Wheel base 轴距	2900(mm)

6	Tread 轮距	2050(mm)
7	Min. ground clearance 最小离地间隙	410(mm)
Main Technical Specification 主要技术参数		
1	Rated load 额定载荷	4000(Kg)
2	Operating weight 整机操作重量	12850KG
3	Rated bucket capacity 额定斗容	2.3(m ³) , 可选 1.8-3(m ³)
4	Max. breakout force 最大崛起力	134kN
5	Max. dump clearance 最大卸载高度	2815(mm)
6	Dump reach 卸载距离	1050(mm)
7	Dump angle at any position 在任意位置卸载角	≥45 ⁰
8	Digging depth(with bucket bottom horizontal)挖掘深度	190(mm)
9	Max. turning radius 最大转弯半径	
	(1) Outside of bucket 铲斗外侧	6120(mm)
	(2) Outside of rear wheel 后轮外侧	5500(mm)
10	Pivot angle frame 转向角	38±1 ⁰

11	Oscillating angle of rear axle 后桥摆动角	$\pm 11^{\circ}$
12	Lifting time of bucket 铲斗提升时间	$\leq 6.2(\text{sec.})$
13	Lowering time of bucket 铲斗下降时间	$\leq 3.8(\text{sec.})$
14	Dumping time 翻斗时间	$\leq 1.8(\text{sec.})$
15	Traveling speed(Km/h) , 5 forward and 3 reverse 行驶速度 , 5 前进档 , 3 后退档	
	(1) 1st gear forward 前进一档	5.9
	(2) 2nd gear forward 前进二档	9.4
	(3) 3rd gear forward 前进三档	15.8
	(4) 4th gear forward 前进四档	22.4
	(5) 5th gear forward 前进五档	35
	(6) 1st gear reverse 后退一档	5.9
	(7) 2nd gear reverse 后退二档	9.4
	(8) 3rd gear reverse 后退三档	22.4
Diesel engine 发动机		
1	Model 型号	Dongfeng Cummins engine 东风康明斯 6BTA5.9-C180

	Type 形式	Direct injection. Turbocharged. Water cooling 直喷式，涡轮增压，水冷
3	Rated output 额定功率	132(kW)
4	Inter-bore of cylinder/stroke 缸径/行程	102X120 (mm)
5	Total exhaust of cylinder 排气量	5.9 (L)
6	Current of Alternator 发电机电流	70(A)
7	Power of start motor 启动马达的功率	6(KW)
8	Voltage of starting motor 启动马达的电压	24(V)
9	Rated speed 额定转速	2200(r/min)
10	Max. Torque 最大扭矩	750(N.M)/1300rpm
11	Starting type 启动方式	Electric
12	Min. specific fuel consumption 最小燃油消耗率	206(g/Kw.h)
13	Engine specific oil consumption 机油消耗率	0.9-1.6(g/Kw.h)
14	Net weight 净重	453(kg)
Transmission System 变速系统		
(-) Torque Converter 变矩器		

1	Model 型号	ZF 5WG158
2	Cooling type 冷却方式	Pressure oil circulating 循环压力油
(二)、Transmission case 变速箱		
1	Model 型号	ZF 5WG158
2	Gear shift position 换档位置	5 Forward and 3 reverse gears
(三)、Axle and Tire 桥和轮胎		
1	Type of main reducer 主传动形式	spiral bevel gear, single stage 螺旋伞齿轮、 单级
2	Gear ratio of main reducer 主传动速比	5.286
3	Type of final reducer 轮边减速的形式	Single stage planetary 单级行星轮式
4	Gear of ratio of final reducer 轮边减速 速比	4.4
5	Total ratios 总速比	23.258
6	Max. drawing force 最大牵引力	125kN
7	Size of tire 轮胎尺寸	20.5-25-16PR

Working Device Hydraulic System 工作液压系统		
1	Model of oil pump 油泵型号	CBGj 3125C
2	System pressure 系统压力	180(kgf/cm ²)
3	Model of Multi-way directional valve 多路换向阀型号	D32II
4	Pilot valve 先导阀型号	DXS-00
5	(D*L)Dimension of lifting cylinder 提升油缸尺寸	Φ150*80*695(mm)
6	(D*L)Dimension of tilting cylinder 翻斗油缸尺寸	Φ180*90*468(mm)
Steering System 转向系统		
1	Type 型式	Middle articulated frame. Full-hydraulic flow amp. Steering 中间铰接，流量放大全液压转向
2	Model of steering pump 转向泵型号	CBGj 2063/1016-XF
3	Model of redirector 转向器型号	BZZ1-E630C+FKA-146020
4	Model of distribution valve 分流阀型号	FLD-F48W
5	System pressure 系统压力	14MPa
6	Dimension of steering cylinder 转向油缸尺寸	Φ70*40*460(mm)
Brake System 制动系统		

1	Type of traveling brake 行车制动形式	Air over oil activate 4 wheel brake with capliar disc brake 气顶油作用 4 轮钳盘式制动器
2	Air pressure 气压	6-8(kgf/cm ²)
3	Type of emergency brake 紧急制动	Automatic cutting air brake 自动断气制动
4	Type of parking brake 停车制动形式	Drum brake 鼓式制动 Manual control cutting-off air brake 手动控制断气制动
Oil Capacity 油量		
1	Fuel(diesel)柴油	200(L)
2	Engine lubricating oil 机油	16.3(L)
3	Oil for converter and gear box 双变用油	28(L)
4	Oil for hydraulic system 液压系统用油	160(L)
5	Oil for driving axles (F/R) 前后桥用油	24/24(L)
6	Oil for brake 刹车油	2X1.0(L)