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SINOMACH WHEEL LOADER 947H



Transmission System (-)Torque Converter

Model.....**710(kg)**
Type.....4-elements. double stage
Torque ratio.....4
Cooling type.....Pressure oil circulating

Transmission Case

Model.....**4WG180**
Type.....Electronic control gear shift
Gear shift position.....4Forward and 3 reverse gears

Axle and Tire

Type of main reducer.....spiral bevel gear, single stage
Gear ratio of main reducer.....5.286
Type of final reducer.....Single stage planetary
Gear of ratio of final reducer.....4.26
Total ratios.....22.52
Max. drawing force.....120kN
Size of tire.....20.5-25-16PR

Working Device Hydraulic System

Model of oil pump.....HGP2063-1010RC
System pressure.....180(kgf/cm²)
Model of Multi-way directional valve.....D32II
Pilot valve.....DXS-00
(D*L)Dimension of lifting
cylinder.....Φ125*70*771(mm)
(D*L)Dimension of tilting
cylinder.....Φ188*90*502(mm)

Overall Dimension

Length (with bucket on ground).....7670(mm)
Width (to outside of wheels).....2570(mm)
Bucket width.....2680(mm)
Height (to the top of the cab).....3375(mm)
Wheel base.....3067(mm)
Tread.....1860(mm)
Min. ground clearance.....460(mm)

Main Technical Specification

Rated load.....4000(Kg)
Operating weight.....12300KG
Rated bucket capacity.....5 (m³)
Max. breakout force.....130kN
Max. dump clearance.....3176(mm)
Dump reach.....1095(mm)
Dump angle at any position.....≥45°
Digging depth(with bucket bottom horizontal).....190(mm)

Min. turning radius

Outside of bucket.....6300(mm)
Outside of rear wheel.....6052(mm)
Pivot angle frame.....38+10
Oscillating angle of rear axle.....+11°
Lifting time of bucket.....≤5.5(sec.)
Lowering time of bucket.....≤3.2(sec.)
Dumping time.....≤1.1(sec.)

Traveling speed(Km/h), 4 forward and 3 reverse

(1) 1st gear forward.....6.5
(2) 2nd gear forward.....12
(3) 3rd gear forward.....25
(4) 4th gear forward.....35
(3) 1st gear reverse.....6.5
(3) 2nd gear reverse.....12
(3) 3rd gear reverse.....25

Diesel Engine

Model.....**Dongfeng Cummins engine** 6BTA5.9-C180
Type.....Direct injection. Turbocharged. Water cooling
Rated output.....132 (kW)
Inter-bore of cylinder/stroke.....102X120 (mm)
Total exhaust of cylinder.....5.9 (L)
Current of Alternator.....70(A)
Power of start motor.....6(KW)
Inter-bore of cylinder/stroke.....108 x 120
Voltage of starting motor.....24(V)
Rated speed.....2200(r/min)
Max. Torque.....750(N.M)/1500rpm
Starting type.....Electric
Min. specific fuel consumption.....212(g/Kw.h)
Engine specific oil consumption.....0.9-1.6(g/Kw.h)
Net weight.....710(kg)

Steering System

Type.....Middle articulated frame.
Full-hydraulic flow amp. Steering
Model of steering pump.....HGP 2063-1010RC-XF
Model of redirector.....BZZ5-500
Model of distribution valve.....FLD-F30W
System pressure.....14MPa
Dimension of steering cylinder.....Φ80*45*327(mm)

Brake System

Type of traveling brake.....Air over oil activate 4
wheel brake with capliar disc brake
Air pressure.....6-8(kgf/cm2)
Type of emergency brake.....Automatic cutting
air brake
Type of parking brake.....Drum brake
Manual control cutting-off air brake

Oil Capacity

Fuel(diesel).....150(L)
Engine lubricating oil.....13 (L)
Oil for converter and gear box.....45(L)
Oil for hydraulic system.....150(L)
Oil for driving axles (F/R).....24/24(L)
Oil for brake.....2X1.0(L)