P&H L-1350
Wheel Loader — Generation 3
General Specifications

Safety
Reliability
Productivity

Operating capacities, weights and dimensions

<table>
<thead>
<tr>
<th>Description</th>
<th>Standard lift</th>
<th>High lift</th>
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<tr>
<td>Bucket capacity*</td>
<td>22.94 m³</td>
<td>21.41 m³</td>
</tr>
<tr>
<td>Operating payload</td>
<td>40823 kg</td>
<td>38102 kg</td>
</tr>
<tr>
<td>Static tipping loads</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Straight</td>
<td>108776 kg</td>
<td>100068 kg</td>
</tr>
<tr>
<td>Full 45° turn</td>
<td>98849 kg</td>
<td>90936 kg</td>
</tr>
<tr>
<td>Breakout force</td>
<td>978 kN</td>
<td>1004 kN</td>
</tr>
<tr>
<td>Operating weight</td>
<td>194228 kg</td>
<td>196496 kg</td>
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Payload

- Standard: 30 yd³, 90000 lb
- High lift: 28 yd³, 84000 lb

** Kinetic Energy Storage System - has HP available for acceleration events and parasitic loads

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Working ranges

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<tr>
<th>Description</th>
<th>Engine 1249 kW</th>
<th>KESS** 820 kW</th>
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<tr>
<td>Standard</td>
<td>1676 hp</td>
<td>1100 hp</td>
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<td>High lift</td>
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Breakout force

- Straight: 978 kN, 225887 lb
- Full 45° turn: 98849 kg, 220612 lb

Breakout force

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* Standard rock bucket based on a material density of 1780 kg/m³ (3000 lb/yd³)

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Bucket capacity sized to material density

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<tr>
<th>Description</th>
<th>181 - 236 tonne</th>
<th>200 - 260 ton</th>
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<td>Tractor match</td>
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Control System LINC II

LINC II Microprocessor based modular design Vehicle Control Unit (VCU) with monitoring and diagnostics including integrated data logging and storage.

LINC II has a dash mounted full color, touch screen display as the operator interface. Out-of-range conditions will cause an audible alarm along with a message screen that is color coded to indicate severity. In addition, the touch-screen display provides repair technicians with operational data and fault messages.

LINC II load weigh Displays real-time load per pass, per track and total loads
Memory capable of retaining months of production information
Capable of interfacing with radio dispatch systems for real-time monitoring

Steering and hoisting system

Steering
Steering function is controlled by a single joystick. Constant engine rpm assures full hydraulic steering response. Articulation angle 40°

Turning radius
Standard lift 13.50 m 44 ft 4 in High lift 13.76 m 45 ft 2 in

Hoist and bucket control
Heist and bucket control functions are incorporated into a single joystick control. The proportional electro-hydraulic controlled hoist and bucket system is independent of the steering system.

Standard high lift cycle times:
Heist 11.8 Seconds Dump 3.0 Seconds Float 5.0 Seconds

Hydraulic system

HPD drive box
- Pressure control, and filtered lubrication
- Radial 1.1

Pumps
- Maximum flow rate at 1800 rpm
  - Main: Piston (4) 1404 L/min 371 gpm
  - Steering: Piston 342 L/min 80 gpm
  - Fan/blower drive: Tandem piston 171 L/min 451 gpm
  - Accessory: Piston 81 L/min 21 gpm

Cooling system
- Circulating pump: Vane 409 L/min 108 gpm

Valves
- Main: Three (3) 700 L/min 186 gpm
- Pump pressure: 27980 kPa 4000 psi
- Steering: One (1) 341 L/min 90 gpm
- Pump pressure: 23443 kPa 3400 psi

Cylinders
- Double acting, single stage (diameter and stroke), standard and high (lift)
  - Hoist: 343 x 1882 mm 13.5 x 74.5 in
  - Bucket: 254 x 1054 mm 10 x 41.5 in
  - Steering: 190 x 762 mm 7.5 x 30 in

Braking system

Primary brake system
Electric dynamic braking system is controlled from the accelerator pedal and can bring the loader to a full stop without application of mechanical brakes.

Secondary brake system
Air modulated traction motor speed disc brakes
- Single disc; caliper or as each traction motor (6)
- Emergency fail safe brakes are spring applied in the event of air pressure loss.

Parking brake system
Spring applied, air release traction motor speed disc brakes

Air filtration

Primary
Self cleaning Klenz filtration system
99.9% efficiency removing 0.5 microns (nominal)
- Extends maintenance intervals
- Filtered air for engine, drive system cooling and pressurized cab

Secondary
Dual safety filters for engine

General specifications

Engine

Rated power
1249 kW (1676 hp) @ 1800 rpm
8.71 m
1249 kW (1676 hp) @ 1800 rpm

Dimensions

Overall length
30 ft 0 in

Overall width
22 ft 10 in

Overall height
9 ft 2 in

Boats in feet
- Tread at fully raised 11.40 m 37 ft 5 in
- Height bucket fully raised

- Height bucket

- Overhead length

- Height over cab

- Bucket down

- Tread

- Width outside tires

- Height bucket

- Turning radius

- Articulation angle

- Hydraulic system

- Fluid capacities

- Structural

- Weight limits
Tires/rims

<table>
<thead>
<tr>
<th>Tires</th>
<th>50/80-57 L-4</th>
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<tr>
<td>Rims</td>
<td>36 x 57 with 6&quot; flange</td>
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Standard features

Standard equipment
- Access ladder lights
- Air clean-out hose in cab
- Air conditioning / heater-defroster (filtered and pressurized)
- Air dryer system
- Air horn
- Air tank bleed system
- Adjustable automatic lift height cut off
- Automatic bucket leveling control
- Automatic electrical cabinet lights
- Automatic lubrication system
- Back-up alarm, audible
- Battery disconnect switch
- Brake lights
- Central air regulator box
- Data analysis and viewing software
- Data logging – downloadable production and maintenance logs
- Door interlock on electrical cabinet
- Drawbar with tow points
- Emergency stop buttons (cab and remote mounted)
- Engine compartment lights
- Fire extinguisher, manual, 9.07 kg (20 lb)
- FOPS – falling object protection system
- Idle timer
- Interior lights
- Isolation monitor
- Joystick hoist and bucket control
- Joystick steering control
- Jump start
- Ladder walkway (rear access w/retracting ladder)
- LED working lights (10 forward, 2 rear)
- LINCS II alarms
- LINCS II load weigh and monitoring
- Mirrors, rearview (parabolic)(2)
- Operator seat (11-way adjustable)
- Overspeed alarm
- Parking brake
- Retractable lap belt with shoulder harness
- Rock deflectors (bucket)
- ROPS – rollover protection structure
- Selectable throttle switch
- Starter disconnect switch
- Sun visor
- Tinted safety glass throughout
- Turn signals
- Twelve (12) volt power supply in cab
- Twelve (12) volt power port (2)
- Walk around catwalk for cab
- Windshield washer reservoir (2.6 gal)
- Windshield wiper and washer (front and rear)

Optional features
- Auxiliary steering
- Beacon light kit
- Bucket GET options available
- Central service with fast fuel
- Cold weather package – including:
  - Battery heater
  - Engine heating system (oil and water)
  - Grease reservoir heater
  - Hydraulic tank heater
- Exhaust discharge guard
- Fast fuel
- Fire detection and suppression system (manual)
- Fire suppression system (manual)
- Fluid sampling kit
- Lift arms – high lift
- Tires/rims
  - Tires – 55/80R-57
  - Rims – 44 x 57 with 5" flange
- Training seat (with lap belt)
- Video camera (rear mount)
- Windshield protection kit

Buckets

Standard, ISO-rated capacity:
40823 kg / 90000 lb

High lift, ISO-rated capacity:
38102 kg / 84000 lb

Rock and coal bucket configurations available

Bucket sizes to material density

Bucket hardware options
- Skid plates (replaceable)
- Lip wear protection
- Wear liner kits

For actual bucket configuration and sizing, consult your local representative.