

# HW100A SPECIFICATIONS

## Net Power

100 hp (75 kW) at 2,200 rpm

## Bucket Capacity

0.37 yd<sup>3</sup> (0.28 m<sup>3</sup>)

## Operating Weight

23,550–24,650 lbf  
(10,682–11,179 kg)

## ENGINE

Maker / Model	Hyundai D34
Type	4 cylinder, water cooled, 4-cycle, turbocharged charge air cooled, direct injection, electronic controlled diesel engine.
Gross Power	100 hp (75 kW) at 2,000 rpm
Max. Power	100 hp (75 kW) at 2,000 rpm
Peak Torque	317 lb ft (430 Nm) at 1,400 rpm
Displacement	208 in <sup>3</sup> (3.4 l)

## HYDRAULIC SYSTEM

Advanced Load Sensing System

### MAIN PUMP

Type	Variable Displacement Axial Piston
Max. flow	52.8 gpm (200 l/min) @ 2,000 rpm

TRAVEL PUMP independent circuit

Type	Variable Displacement Axial Piston
Max. flow	29.6 gpm (112 l/min) @ 2,000 rpm
Aux pumps	Pilot/steer/brake
Type	Gear pumps

\* Load Sensing: LUDV (load independent flow sharing)

## HYDRAULIC MOTORS

Travel	Bent-axis piston motor with 2 speed powershift
Swing	Axial Piston Motor

### RELIEF VALVE SETTING

Implement circuits	4,070 psi (286 kgf/cm <sup>2</sup> )
Travel	5,803 psi (408 kgf/cm <sup>2</sup> )
Swing circuit	3,630 psi (255 kgf/cm <sup>2</sup> )
Pilot circuit	410 psi (29 kgf/cm <sup>2</sup> )
Service valve	Installed

### HYDRAULIC CYLINDERS

No. of cylinder-bore × stroke	2-piece boom	2-4" × 19" (100 × 410 mm)
	Arm	1-4" × 33" (100 × 846 mm)
	Bucket	1-3" × 27" (85 × 690 mm)
	Dozer blade	2-4" × 7" (100 × 179 mm)
	Outriggers	2-4" × 7" (100 × 179 mm)
	Adjustable boom	1-4" × 30" (115 × 775 mm)
	Boom swing	1-4" × 27" (110 × 684 mm)

## DRIVES & BREAKS

4-wheel hydrostatic drive. Constant mesh, helical gear transmission provides 2 forward and reverse travel speeds.

Max. drawbar pull	9,259 lbf (4,200 kgf)
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### HYDRAULIC CYLINDERS

1st: gear (low/high)	3.4 / 10.5 mph (5.4 / 16.9 km/h)
2nd: gear (low/high)	8.0 / 23.2 mph (12.9 / 37.4 km/h)
Gradeability	35° (70 %)

### SERVICE BRAKE

Independent dual brake, front and rear axle full hydraulic power brake. Spring released and hydraulic applied wet type multiple disc brake.

### PARKING BRAKE

Spring-applied hydraulic released wet disc brake type in transmission.

## CONTROL

Pilot pressure operated, proportional joysticks, steering wheel and foot pedals for effortless operation.

Pilot control	Two joysticks with one safety lever (LH): Swing and arm (RH): Boom and bucket (ISO)
Engine throttle	Electric, Dial type
Lights	Two working lights on the boom, one working light on the cabin, plus rear and right side working lights

## AXLE & WHEELS

Full floating front axle is supported by center pin for oscillation. Oscillation lock (ram lock) function for safe operation. Rear axle is fixed on the lower chassis.

Twin tyres (standard)	8.25-20-14PR
Single tyres (optional)	500/45-20

## SWING SYSTEM

Swing motor	Fixed displacement radial piston motor
Swing reduction	2-stage planetary gear reduction
Swing bearing	Grease-bathed
Swing brake	Multi-wet disc
Swing speed	10.5 rpm

## COOLANT & LUBRICANT CAPACITY

Fuel tank	42.3 (160)
Engine coolant	4.2 (16)
Engine oil	3.3 (12.6)
Swing device-gear oil	0.4 (1.5)
Front axle	2.0 (7.5)
Rear axle/4-wheel steer	2.1/1.8 (8.1/6.8)
Transmission	0.4 (1.6)
Hydraulic system (including tank)	62.9 (238)
Hydraulic tank	37 (140)
DEF/AdBlue®	5.3 (20)

## UNDERCARRIAGE

Rigid, low-stress welded box-section frame, transmission and rear differential protection, heavy duty axles. Dozer blade and outriggers are easily exchangeable through bolt-on design.

Dozer blade	Parallel-mounted dozer blade to support machine when working, also for leveling and backfilling.
Outrigger	Indicated for max. operation stability when digging and lifting. Can be mounted on front or rear.

## OPERATING WEIGHT

Machine with articulated boom 6' 2" (1890 mm) 1st boom + 6' 2" (1880 mm) 2nd boom, 7' 5" (2250 mm) arm, 0.37 yd<sup>3</sup> (0.28 m<sup>3</sup>) bucket, 2976 lb (1350 kg) counterweight, lubricant, coolant, full fuel tank, hydraulic tank, twin tires and standard equipment.

Steering type	2-Wheel steering	4-Wheel steering
Front grapple bar & rear blade	23,550 lbf (10,682 kg)	23,780 lbf (10,788 kg)
Front blade & rear outrigger	24,410 lbf (11,073 kg)	24,650 lbf (11,179 kg)
4 outrigger	24,410 lbf (11,073 kg)	24,650 lbf (11,179 kg)

## SOUND LEVEL

Exterior sound level (2000/14/EC - ISO6395:2008) LWA	98 dB (EU only)
Interior sound level (ISO 6396:2008) LPA	73 dB

## AIR CONDITIONING SYSTEM

The air conditioning system contains fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.58 kg of refrigerant representing a CO<sub>2</sub> equivalent of 0.83 metric tons. For more information please refer to the manual.

## STEERING SYSTEM

Hydraulically actuated, Orbitrol type steering system actuates on front wheels through the steering cylinders.

Min. turning radius	2 wheel steering	18' 10" (5,740 mm)
	4 wheel steering	12' 2" (3,700 mm)

●: Standard / ○: Option

ENGINE	
HYUNDAI D34 Engine	●
Advanced Load Sensing (LUDV)	●
Power mode (P, S, E), Work mode (P, W, T)	●
Attachment Flow Control	●
Engine Auto Idle	●
Engine Auto Shutdown	●
20 km/h max. speed	○
37.4 km/h max. speed	●
CABIN & INTERIOR	
ISO Standard cabin	●
Parallel type windshield wiper	●
Remote radio On/Off switch	●
DAB radio with Bluetooth and handsfree call system	●
Electric horn	●
All-weather steel cab with 360° visibility	●
Safety glass windows	●
Sliding fold-in front window	●
Sliding side window (LH)	●
Lockable door	●
Hot and cool box	●
Storage compartment	●
Transparent cabin roof-cover	●
Sun visor	●
Door and cab locks, one key	●
Pilot-operated slidable joystick	●
Console box height adjust system	●
Automatic climate control	●
Air conditioner & heater	●
Defroster	●
Starting Aid (air grid heater) for cold weather	●
Centralised monitoring	●
8" LCD display	●
Engine coolant temperature gauge	●
Max power	●
Auto idle	●
Overload warning with alarm	●
Check Engine	●
Fuel level gauge	●
Hyd. oil temperature gauge	●
Warnings	●
Communication error indication	●
Low battery	●
Clock	●
Cabin lights – LED	●
Seat	●
Adjustable air suspension seat with heater	●
Cabin ROPS (ISO 12117-2)	●
ROPS (Roll Over Protective Structure)	●
FOPS (Falling Object Protective Structure)	●
FOG (Falling Object Guard) Front & Top Guard	○
ATTACHMENT	
Boom	●
2-Piece boom 6' 2" + 6' 2" (1890 mm + 1880 mm)	●
Arm	●
7' 5" (2250 mm)	●

SAFETY	
Battery master switch	●
Rear & Mirror view camera	●
AVM (Around View Monitoring)	○
Two working lights on Boom – LED	●
Travel alarm	●
Rear work lamp	●
Beacon lamp	○
Automatic swing brake	●
Safety lock valve for boom & arm cylinder	●
Overload warning device	●
Safety lock valve on bucket cylinder	○
OTHER	
Fuel pre-filter	●
Self-diagnostics system	●
Hi MATE (Remote Management System)	○
Alternator (12 V, 140 A)	●
Batteries (12 V, 150 Ah)	●
Fuel filler pump	○
Bucket-Clamshell adaptation (3-way valve)	○
Single-acting piping kit (breaker, etc.)	○
Double-acting piping kit (clamshell, etc.)	○
Rotating Piping Kit	○
Quick coupler piping	○
Tool kit	●
Cruise control	●
Pattern change valve	○
Undercarriage	
Front grapple rest and rear blade	●
Front blade and rear outrigger	○
Front and rear outrigger	○
2-wheel steering	●
4-wheel steering	○
Twin tires 8.25-20 14PR	●
Single wide tires 500/45-20	○
Wheel Chock	●
Front and rear mudguards	○

\* Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to International standards.

\* The photos may include attachments and optional equipment that are not available in your area.

\* Materials and specifications are subject to change without advance notice.

\* All imperial measurements rounded off to the nearest pound or inch.

