HW250Амн

MATERIAL HANDLER



Gross Power 129 kW (173 hp) at 2200 rpm Maximum Height
12000 mm (arm pin height)

Operating Weight 26500 – 27900kg





THE BEST PRODUCTIVITY AND FUEL EFFICIENCY

From its upgraded, eco-friendly engine to its carefully chosen control technologies, the HW250A MH wheeled excavator helps operators to achieve new heights of productivity. Hyundai's EPFC (Electronic Pump Flow Control) hydraulic system, combined with attachment flow control, ECO Gauge and proportional joysticks and pedal control, enables the machine to deliver the exact performance and efficiency when and where it's needed.

EU Stage V Certified Engine The HW250A MH is equipped with a fuelefficient Cummins B6.7 Stage V engine

efficient Cummins B6.7 Stage V engine that meets the world's strictest emission regulations. Its compact 6-cylinder configuration delivers impressive power and performance.



The Cummins B6.7 engine satisfies the strictest environmental emission regulation in the world including a 60% reduction in Particulate Matter (PM).



The technology to improve efficiency

High-performance hydraulics

The HW250A MH features Hyundai's EPFC (Electronic Pump Flow Control) hydraulic system. It uses electronically controlled pumps, changeable machine parameters on the cabin display and provides a minimum flow rate. This results in improved controllability and reduced fuel consumption.

Efficient cooling system

The HW250A MH provides excellent cooling performance by increasing heat dissipation and reducing downtime caused by overheating.

Eco gauge

Helps operators to reduce emissions and running costs by constantly monitoring efficiency. It displays engine workload and fuel-saving status while the machine is working.



Eco Gauge



Productivity is further enhanced by a proportional auxiliary hydraulics system. A proportional single or double-acting circuit is installed as standard, enabling smooth, precise control of attachments.

The auto-idle feature saves fuel, reduce noise and cuts exhaust emissions by automatically switching the engine to idle setting when the excavator is inactive.

Dual side mounted arm cylinders improve balance and strength, whilst providing increased protection.

NEW EXTERIOR DESIGN FOR ROBUSTNESS AND SAFETY

The true value of the HW250A MH lies in its durability and high productivity. The robust upper and lower frame structure can endure external shock and heavy work loads. Attachment performance has been proven through rigorous field testing. No matter how tough the working environment is, you can always rely on the Hyundai material handling machine.

Tougher from the ground up

▶ Reinforced durability

Built for unbeatable strength and sturdiness, the HW250A MH offers solid performance over its lifespan. The upper and lower frame structures are reinforced for tough working conditions, while the front attachments have been rigorously tested for the roughest conditions.

Reinforced pins, bushings and polymer shims

The HW250A MH improves lubricity of connecting parts between the equipment and attachments. Gaps with attachments are minimized by wear-resistant long-life pins, bushings, and polymer shims, supporting the highest performance with invariable durability.

Better weight balance

The machine is standard-equipped with four outriggers and solid rubber tires, for excellent ground stability during lifting operation or travel.

Durable cooling module

Tested to extremes, the HW250A MH has a durable cooling module proven to perform at maximum productivity levels in the toughest working environments.



Cabin structure

The HW A-Series cabin structure uses integrally welded low-stress, high strength steel to meet ROPS and FOG certification.

- ROPS: Roll-Over Protective Structure ISO12117-2
- FOPS: Falling Object Protective Structure



▶ Hi-grade (high-pressure) hoses

The HW250A MH uses high-pressure

The 4-wheel hydrostatic drive system

ensures a smooth driving experience,

even in rough conditions.

hoses with improved heat and pressure resistance, greatly increasing the durability of the equipment.

EASY CONTROL AND COMFORTABLE OPERATION

Many electronic functions are concentrated in the most convenient spot for operators to improve work efficiency. The highly-advanced infotainment system, a product of Hyundai's intensive information technology development, enables both productivity and comfort while working. The HW250A MH really is designed with the operator in mind.

Ergonomic for efficient operation

▶ Intelligent & wide cluster

The 8" capacitive-type display is similar to a smartphone to deliver excellent legibility. Amongst the key functions the centralised switches on the display allow convenient checking of the Adblue/DEF level and temperature outside the cabin.



A 2-way proportional auxiliary joystick and pedal control enable effortless operation to minimise operator fatigue.

▶ Proportional auxiliary hydraulic system

A proportional control switch with better speed control provides operators with added convenience whenever they do time-consuming work. This function can also be switched to control by foot pedal, by changing the setting in the cluster menu.

Jog Dial Module

The accelerator, remote air conditioner controller and instrument cluster can be operated using the convenient jog shuttle-type controller.









Functionality at your fingertips

Joystick steering

The HW250A MH can be optionally equipped with joystick steering, to enable quick and easy manoeuvering and enhanced productivity.

Work mode memory

The operator can select from three different work modes – Park, Work and Travel – for convenient automatic control of a range of functions.

FNR and ram lock switch

The Forward/Reverse switch is positioned right at the operator's fingertip. The front axle oscillation lock can also be activated from the joystick, improving convenience and productivity on demanding jobs.

Fine swing & swing lock sytem

This option enables smooth movement at the start and stop of swing operation (cushion swing). The swing lock function provides additional safety, during road travel or transportation.



THE ULTIMATE **SAFE ENVIRONMENT**

The Hyundai approach to safety goes far beyond just meeting regulatory standards. We prioritise safety in every aspect of our machines and work with our customers to keep improving protection for operators, co-workers, passers-by, surrounding buildings and of course the machines themselves.

∨ Visibly safer

The HW250A MH features a cab that can be raised by 2.5 metres enhancing visibility for improved productivity and safety. The elevated position is beneficial for loading high-sided containers and reducing damage, optimizing efficiency, and enhancing workplace safety.

3D view using Al

SAVM (Smart Around View Monitoring) camera system is available as an option, providing obscured 360 degree field of vision for the operator. Including Al-based object detection.



SAVM: secure field of vision in all directions through ten views including 3D bird's eye view and 2D/4CH view.

Built for safer operation

Cabin viscous mount

A coil spring and damper inside the cabin viscous mounts improve durability and provide a comfortable operating environment that lessens fatigue.

Emergency steering

If the hydraulic supply should fail, manual steering is automatically enabled.

Camera system

A rear view camera and side camera are standard features, same as the second monitor, providing the operator with a permanent view to machine surroundings.

Seat belt warning alarm

If the seat belt is not buckled when the ignition key is turned, an alarm is triggered in intervals along with a continuous visual alert. This emphasises our priority for operator safety.

Electronic swing brake

An electronic valve and control systemhas been added to improve safety and utilisation. The opening and closing time of the swing brake valve is controlled according to the sensing and control system.

Cruise control & speed limiter

Cruise control and speed limiter allows the operator to regulate speed whilst in transit. An automatic creep speed enables the operator to concentrate on finer machine control and operation.

Axles and fenders

The HW250A MH is equipped with a heavy duty axle for higher durability and to enhance stability in different conditions and material handling applications. Sturdy fenders, covering the wheel even when steering, have been added to protect the tyres from flying debris while driving.



Activate Auto Safety Check

The Auto Safety Lock prevents unintended operation due to the excavator not being controlled solely by the RCV lever.



is pressed

safety lever







Excavator is not controlled by RCV lever "auto safety lock" and prevents unintended operation

SERVICEABILITY AND TELEMATICS

The HW250A MH is designed with quick, low-effort servicing in mind. Every component and material has been optimised to ensure a long, trouble-free life. Hyundai's innovative Hi MATE telematics system enables full monitoring of machine activity and performance. Maximum connectivity is integrated to help owners create a smart construction site and protect profitability as their business grows.

Less maintenance. More uptime

Improved routine maintenance

Easy access for maintenance means regular checks get done faster, giving you more uptime and reducing operating costs. Ground level access to filters, lube fittings and master switches make servicing more convenient.

Longer maintenance intervals

The service interval of the fuel filter on the new engine has been increased by 100% (from 500h to 1000h). In addition the long life hydraulic oil (5000h change interval) contributes greatly to reduce the maintenance cost.









▲ Fuel Filler Pump

An integrated fuel filler pump with auto stop makes refuelling quick and easy.

《 DEF/Adblue filler access

Access to the DEF/Adblue tank filling point has been made easier with redesigned steps.

HIMXTE

It's convenient, easy and valuable. Hi MATE, Hyundai's remote management system, utilises GPS-satellite technology to provide customers with the highest level of service and product support available.

Increase productivity

By providing information such as service hours, idle time and fuel consumption, Hi MATE saves you money and improves productivity. Service alerts enable better maintenance planning.

Monitor your machines

Hi MATE's real-time location information allows convenient monitoring of your equipment via the Hi MATE website or mobile app.

Improve Security

Protect your equipment from theft or unauthorised usage.
Hi MATE's geofencing alerts notify you automatically when a machine leaves a predetermined zone.

)

(Engine Connected Diagnostics)

ECD provides troubleshooting information as well as tailored servicing. Service technicians are supported with remote diagnostics allowing them to achieve quick resolution rate.

Mobile fleet app

Our Mobile Fleet app provides all the information you need to run your fleet efficiently and economically.

HCE-DT Air connects you and your equipment wirelessly via smartphone and laptop right on site.

Keeping you covered

Hyundai genuine parts and accessories are designed to keep your machine running at optimum performance, providing increased uptime, comfort and productivity. Our 13000m² European Parts Warehouse guarantees 24-hour delivery across our dealer network. Hyundai Standard and Extended Warranty Programmes are also available, providing peace of mind and giving you full control over your operating costs.



TAKE THE TOUR!

Productivity & Efficiency

- High-performing Stage V engine with advanced exhaust aftertreatmen
- Straight or gooseneck arm options
- 2.5m high rise cabin
- Dual arm cylinders
- Hydraulic ram and piping covers
- Fast speed for boom and swing
- Dual Proportional RCV & Rotational Piping

Comfort

- 3-way adjustable steering column
- Large touchscreen
- Second monitor for camera view
- FNR and Ram-Lock Switch on Joystick
- Air-pistol for easy cleaning **OPTION**
- Full climate control

Durability

- Reinforced upper and lower frame structure
- Flexible hose protection
- Impact protection bumpers on upper frame
- Reinforced pins, bushings and polymer shims
- Solid rubber twin tyres

Serviceability & Connectivity

- ECD (Engine Connected Diagnostics)
- Improved DEF/AdBlue filler access
- Fuel filler pump with auto stop OPTIONHyundai Hi MATE telematics system
- Mobile Fleet app

Safety

- Full cab guard OPTION
- LED working lights
- ROPS / FOPS certified cabin
- Safety glass
- Auto safety lock
- Safety valves on all cylinders
- Emergency cabin lower valve



HW250A MH

SPECIFICATIONS

SPECIFICATIONS	HW250A MH	
ENGINE		
Maker / model	CUMMINS / B6.7	
Туре	4 cylinder, water cooled, 4-cycle, turbocharge charge air cooled, direct injection, electronic controlled diesel engine.	
Gross power	129 kW (173 hp) at 2200 rpm	
Net power	127 kW (170 hp) at 2200 rpm	
Max. power	145 kW (195 hp) at 2200 rpm	
Peak torque	881 Nm at 1300 rpm	
Displacement	6.7ℓ	

HYDRAULIC SYSTEM	
EPFC - Electronic Pump Flow Control	
MAIN PUMP	
Туре	Piston pumps
Max. flow	2 x 208 lpm
Sub-pump for pilot circuit	Gear pump

HYDRAULIC MOTORS			
Travel		Two speed axial piston motor with brake valve and parking brake	
Swing		Axial piston motor with automatic brake	
RELIEF VALVE SETTING			
Implement circuits		350 kgf/cm ²	
Travel		380 kgf/cm²	
Power boost (boom, arm, bucket)		380 kgf/cm²	
Swing circuit		265 kgf/cm²	
Pilot circuit		40 kgf/cm²	
Service valve		Installed	
HYDRAULIC CY	HYDRAULIC CYLINDERS		
	Arm:	2 x 1-115 x 1138 mm	
No. of cylinder bore × stroke	Outrigger:	4-130 × 436 mm	
Dore × Stroke	Boom:	2-120 × 1275 mm	

DRIVES & BRAKES			
4-wheel hydrostatic drive. Constant mesh, helical gear transmission provides 2 forward and reverse travel speeds.			
Max. drawbar pull	11600 kgf		
Travel speed 1st / 2nd	9.5 km/h / 38.4 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:		

CONTROLS		
Pilot control	Two joysticks with one safety lever (LH): Swing and arm, (RH): Boom and bucket (ISO)	
	FNR switch on RH joystick / Ram lock switch on LH joystick	
Attachment control	3 modes available: Push / Proportional / Permanent	
Engine throttle	Electric, Dial type	
Operation Mode	3 modes available: P-Parking W-Working T-Travel	

SPECIFICATIONS	HW250A MH	
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.		
Solid tyres 10.00-20-16PR, Dual		

STEERING SYSTEM		
Hydraulically actuated, orbitrol type steering system actuates on front wheels through steering cylinders.		
Min. turning radius	6690 mm	

SWING SYSTEM		
Swing motor	Fixed displacement radial piston motor	
Swing reduction	Planetary gear reduction	
Swing bearing lubrication	Grease-bathed	
Swing brake	Multi wet disc	
Swing speed	10.7 rpm	

COOLANT & LUBRICANT CAPACITY				
		liter		
Fuel tank		310		
Engine coolant		40		
Engine oil		24.4		
Swing device - gear oil		6.2		
Axle	Front	14.6		
	Rear	18.5		
Transmission		2.5		
Hydraulic system (including tank)		340		
Hydraulic tank		165		
DEF/AdBlue®		48		

UNDERCARRIAGE		
Reinforced box-section frame is all-welded, low-stress.		
Front and rear outriggers	Provide maximum operation stability when lifting.	

OPERATING WEIGHT		
Weight without attachment, front and rear outrigger, Elevating Cabin		
OPERATING WEIGHT		
Gooseneck boom	24700 kg	
Straight boom	24900 kg	

AIR CONDITIONING SYSTEM

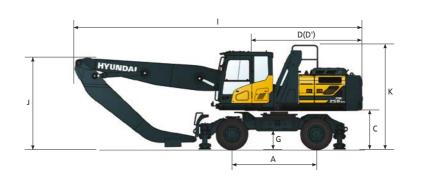
The air conditioning system contains fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.8 kg of refrigerant representing a $\mathrm{CO_2}$ equivalent of 1.14 metric tonnes.

HW250A MH

DIMENSIONS & WORKING RANGE

DIMENSIONS

6.5m boom, 4.5m gooseneck arm (4.0m straight arm), 4 outriggers





Unit:mr

		Gooseneck Arm	Straight Arm
Α	Wheel base	2800	2800
В	Overall width (with wide axles)	2750	2750
С	Ground clearance of counterweight	1300	1325
D	Rear-end distance	2840	2840
D'	Rear-end swing radius	2913	2913
Е	Upperstructure width	2530	2530
F	Overall height of cab	3245	3245

		Gooseneck Arm	Straight Arm
G	Min. ground clearance	353	353
Н	Tread	1914	1914
K	Overall height of guardrail	3460	3460
	Boom length	6500	6500
	Arm length	4500	4000
ľ	Overall length (Shipping position)	9650	9490
J'	Overall height of boom (Shipping position)	3200	3200

WORKING RANGE



Во	om length	65	6500			
		Gooseneck Arm	Straight Arm			
Arı	n length	4500	4000			
Α	Max. reach	10760	10434			
В	Max. depth	3980	3412			
D	Max. height	12155	12032			
F	Min. swing radius (without grapple)	2700	2700			
F'	Min. swing radius (with HCE grapple)	3000	3000			
G	Cab Riser Height	2500	2500			

HW250A MH

LIFTING CAPACITY

Rating over-front Rating over-side or 360 degrees

HW250A MH GOOSENECK ARM

6.5m Boom, 4.5m Arm

		Lift-point radius												At max. Reach		
Lift-p		3.0)m	4.	5m	6.0)m	7.5	im	9.0)m	10.	5m	Сар	acity	Reach
m		ŀ	Þ	ŀ	Þ		Þ	ŀ	=	ŀ	=	•	=		=	m
12.0m	kg													*6790	*6790	3.53
10.5m	kg			*7550	*7550	*6060	*6060							*4950	*4950	6.43
9.0m	kg					*6160	*6160	*5550	*5550					*4360	*4360	8.08
7.5m	kg					*6150	*6150	*5460	*5460	*4820	4120			*4090	3960	9.19
6.0m	kg			*7660	*7660	*6430	*6430	*5570	5560	*4910	4090			*3990	3420	9.96
4.5m	kg	*12000	*12000	*8700	*8700	*6920	*6920	*5790	5380	*4970	4010			*4000	3120	10.45
3.0m	kg			*9960	*9960	*7480	7300	*6040	5170	*5040	3890	*4180	3040	*4040	2950	10.71
1.5m	kg			*4900	*4900	*7850	6900	*6170	4950	*5010	3780	*4010	2990	*3810	2880	10.75
0m	kg	*400	*400	*1890	*1890	*7790	6610	*6050	4780	*4800	3680	*3610	2950	*3530	2920	10.58
-1.5m	kg	*580	*580	*1570	*1570	*7160	6460	*5560	4690	*4270	3630			*3170	3080	10.18
-3.0m	kg			*1650	*1650	*5920	*5920	*4570	*4570	*3240	*3240					3.53

HW250A MH STRAIGHT ARM

6.5m Boom, 4.0m Arm

		Lift-point radius							At max. Reach			
Lift-p		4.5	5m	6.0	Om	7.5	im	9.0)m	Сар	acity	Reach
m		ŀ		ŀ	=	ŀ	=	ŀ	=	ŀ	=	m
12.0m	kg									*9700	*9700	2.296
10.5m	kg	*8040	*8040							*5650	*5650	5.862
9.0m	kg	*7510	*7510	*6400	*6400	*5410	5340			*4740	*4740	7.638
7.5m	kg	*7560	*7560	*6380	*6380	*5560	5430			*4330	4030	8.81
6.0m	kg	*8140	*8140	*6640	*6640	*5650	5350	*4890	3900	*4150	3450	9.605
4.5m	kg	*9170	*9170	*7110	*7110	*5840	5200	*4920	3840	*4100	3120	10.115
3.0m	kg	*10290	*10290	*7580	7080	*6020	5000	*4930	3740	*3960	2950	10.381
1.5m	kg	*10710	10490	*7790	6720	*6050	4810	*4830	3640	*3640	2900	10.424
0m	kg	*9640	*9640	*7520	6480	*5800	4670	*4500	3570	*3260	2960	10.246
-1.5m	kg	*8530	*8530	*6660	6380	*5140	4600	*3780	3550	*2760	*2760	9.834
-3.0m	kg			*5170	*5170	*3920	*3920					

- 1. Lifting capacity based on ISO 10567.
- 2. Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- 3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
- 4. (*) indicates load limited by hydraulic capacity.

HW250A MH

STANDARD/OPTIONAL EQUIPMENT

ENGINE	
Cummins B 6.7 engine	
HYDRAULIC SYSTEM	
EPFC (Electronic Pump Flow Control)	
3-power modes, 3-work modes, user mode	
Power Boost Function	
Attachment flow control	
Variable power control	
3 attachment control modes (Push/Prop./P	ermanent)
Engine auto idling	
Engine auto shutdown	
Electronic fan control (hydraulic)	
CABIN & INTERIOR	
ISO Standard cabin with raise function	'
All-weather steel cab with 360° visibility	
Parallel type windshield wiper	
Radio / USB / MP3 player	
Handsfree mobile phone system with USB	
12 volt power outlet (24V DC to 12V DC conv	verter)
Electric horn	
Safety glass - tempered glass with front lam	inated glass
Sliding fold-in front window Sliding side window (LH)	
Lockable door	
Hot & cool box	
Storage compartment	
Transparent cabin roof-cover	
Sun visor	
Door and cabin locks, one key	
Smart key & start button	
Pilot-operated proportional joysticks	
Steering wheel with 3-way adjustable steering	ng column
Cabin front window rain guard	
Automatic climate control	
Air conditioner & heater Defroster	
Starting aid (air grid heater) for cold weathe	ar .
Centralised monitoring	
8" LCD touchscreen display	
10" Second monitor	
Engine speed or trip meter/Accel.	
Engine coolant temperature gauge	
Max power	
Low speed/high speed	
Auto idle	
Overload warning with alarm	
Check engine	
Air cleaner clogging	
Indicators	
ECO gauge Fuel level gauge	
Hyd. oil temperature gauge	
Warnings	
Communication error	
Low battery	
Clock	
Seat	1
Adjustable air suspension seat with heater	
Cabin ROPS (ISO 12117-2)	'
ROPS (Roll Over Protective Structure)	
Cabin FOPS/FOG (ISO 10262) Level 2	
FOPS (Falling Object Protective Structure)	
	ont & top guard

Safety lock valve on boom cylinders with overload warning device Safety lock valve on arm cylinder Safety lock valve on dozer blade and ram lock cylinders Four outside rearview mirrors
Safety lock valve on dozer blade and ram lock cylinders
Four outside rearview mirrors
Rear and side view cameras •
Four front working lights LED (2 boom mounted, 2 front frame mounted)
Rear work lamp LED •
Rotating LED beacon
Half bar beacon lamp
Travel alarm •
Automatic swing brake
Swing lock system
Auto-digging brake
Joystick steering
Battery master switch •
Wheel chock •

ATTACHMENT	SID
6.5 m, Straight boom	•
4.0 m, Straight arm	
4.5 m, Gooseneck arm	•
OTHER	STD

OTHER		STD
Cruise control	•	
Speed Limiter	•	
Creep speed travel mode	•	
Heavy counterweight	•	
Removable clean-out dust net for cooler	•	
Fuel pre-filter	•	
Self-diagnostics system	•	
Hi MATE (Remote Management System)	Mobile	•
HI MATE (Remote Management System)	Satellite	
Batteries (2 x 12V x 100 AH)		•
Fuel filler pump (35 lpm) with autostop	•	
Single-acting piping kit (breaker, etc.)		•
Double-acting piping kit (clamshell, etc.)		•
Rotating piping kit		
Quick coupler piping		
Quick coupler		
Accumulator for lowering work equipment		•
Pattern change valve (2 patterns)		
Fine swing control system		
Tool kit		
Lower frame toolbox - LH	<u> </u>	•

UNDERCARRIAGE	STD
Front and rear outriggers	•
Tyres-dual (10.00-20 solid)	
Steel fenders (Mudguards)	•
Wide ayles (2.75m)	•

- Standard

 □ Optional
- Not available
- * Standard and optional equipment may vary. Contact your Hyundai dealer for more information.
- $\mbox{\ensuremath{^{\star}}}$ 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.





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