

# SPECIFICATIONS

## HW210A

Powered By Cummins Performance Series Engine



# HYUNDAI CONSTRUCTION EQUIPMENT

**Net Power**  
170 HP (127 kW)  
/ 2,200 rpm

**Standard Bucket**  
.85 m<sup>3</sup> / 1.11 yd<sup>3</sup>

**Operating Weight**  
21,180 LBS (46,690 kg) -  
22,510 LBS (49,630 kg)

ENGINE	
Maker / Model	CUMMINS / B6.7
Type	6 cylinder, turbocharged, charge air cooled, electronic controlled diesel engine
Rated flywheel horse power SAE	J1995 (gross) 129 kW (173 hp) at 2,200 rpm
	J1349 (net) 127 kW (170 hp) at 2,200 rpm
Max. torque	145 kW (195 hp) at 2,200 rpm
Peak Torque	881 N·m (650 lb.ft) at 1,300 rpm
Displacement	6,700 cc (409 cu in)
Batteries	2 x 12 V x 100 Ah
Starting motor	24 V - 4.8 kW
Alternator	24 V - 95 Amp

HYDRAULIC SYSTEM		
MAIN PUMP		
Type	Variable Displacement Piston pumps	
Max. Flow	2 x 208 ℓ/pm	
AUXILIARY PRESSURE		
2 Way	Flow (l/min)	13~66 gpm / (50~250 lpm)
	Pressure (bar)	1,450~4,641 psi / (100~280 bar)
Rotating	Flow (l/min)	16 gpm / (60 lpm)
	Pressure (bar)	3,046 psi / (210 bar)
PILOT PUMP		
Type	Fixed displacement gear pump single stage	
Max. Flow	33 ℓ/min (8.7 U.S. gpm)	
HYDRAULIC MOTORS		
Travel	Variable Displacement Bent Axis Piston Motor	
Swing	Fixed Displacement Radial Piston Motor	
RELIEF VALVE SETTING		
Implement Circuits	350 kgf/cm <sup>2</sup> (4,970 psi)	
Travel	380 kgf/cm <sup>2</sup> (5,400 psi)	
Power Boost ( Boom, Arm, Bucket )	380 kgf/cm <sup>2</sup> (5,400 psi)	
Swing Circuit	265 kgf/cm <sup>2</sup> (3769 psi)	
Pilot Circuit	40 kgf/cm <sup>2</sup> (570 psi)	
Service Valve	Installed	

DRIVES & BRAKES	
4-wheel hydrostatic drive. Constant mesh, helical gear transmission provides 2 forward and reverse travel speeds.	
Max. Drawbar Pull	12,106 kgf (26,689 lbf)
Max. Travel Speed (High / Low)	9.5 km/hr (5.9 mph) / 38.4 km/hr (23.9 mph)
Gradeability	35° (70%)
Parking Brake	Spring applied and hydraulic released wet disc brake type in transmission.

### OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 5,650mm (18' 6") Mono boom, 5,400mm (17' 9") 2-Piece boom, 2,920mm (9' 7") arm, SAE heaped 0.80 m<sup>3</sup> (1.05 yd<sup>3</sup>) backhoe bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

### OPERATING WEIGHT

Rear Dozer blade	21,180 kg (46,690 lb)	22,510 kg (49,630 lb)
Front outrigger and Rear blade	22,360 kg (49,290 lb)	23,690 kg (52,230 lb)
Front blade and Rear outrigger	22,510 kg (49,630 lb)	23,840 kg (52,560 lb)
Front and Rear outrigger	22,480 kg (49,560 lb)	23,810 kg (52,490 lb)
Front and Rear dozer	22,390 kg (49,360 lb)	23,720 kg (52,290 lb)

### SWING SYSTEM

Swing motor	Fixed displacement axial pistons motor
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	10.7 rpm

### COOLANT & LUBRICANT CAPACITY

	US gal	liter
Fuel Tank	81.9	310.0
Engine Coolant	10.6	40.0
Engine Oil	6.4	24.4
Swing Device	1.64	6.2
Hydraulic System (Including Tank)	89.8	340.0
Hydraulic Tank	43.6	165.0
Def/Adblue®	12.6	48.0

### UNDERCARRIAGE

Reinforced box-section frame is all-welded, low-stress. Dozer blade and outriggers are available. A pin-on design.

Dozer blade	A very useful addition for leveling and back filling or clean-up work.
Outriggers	Indicated for max. operation stability when digging and lifting. Can be mounted on the front/or the rear.

### CAB NOISE LEVEL

Guaranteed noise level presented below can be differed depending on a range of factors such as operating condition, speed of a cooling fan, types of engine and so forth. Hearing protection shall be necessary if an operator is working in the improperly aintained cabin or exposed to a noisy environment by leaving doors and/or windows open. With cooling fan speed at maximum value:

Operator sound pressure level (ISO 6396:2008)	71 dB(A)
Exterior sound power level (ISO 6395:2008)	99 dB(A)

\* Distance of 15 m (49.2 ft), moving forward in second gear ratio

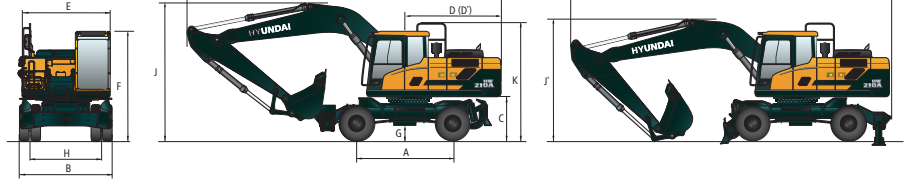
### CONTROL

Pilot pressure operated joysticks and pedals with detachable lever provide almost effortless and fatiguelless operation.

Pilot Control	Two joysticks with one safety lever (LH) : Swing and arm, (RH) : Boom and bucket 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 HW210A

EU Stage V Engine Installed



## HW210A MONO BOOM DIMENSIONS

Unit: ft.-in (mm)

5.65 m (18' 6") Mono boom, 2.4 m (7' 10"), 2.70 m (8' 10") 2.92 m (9' 7") Arm, Front outrigger and rear dozer blade.

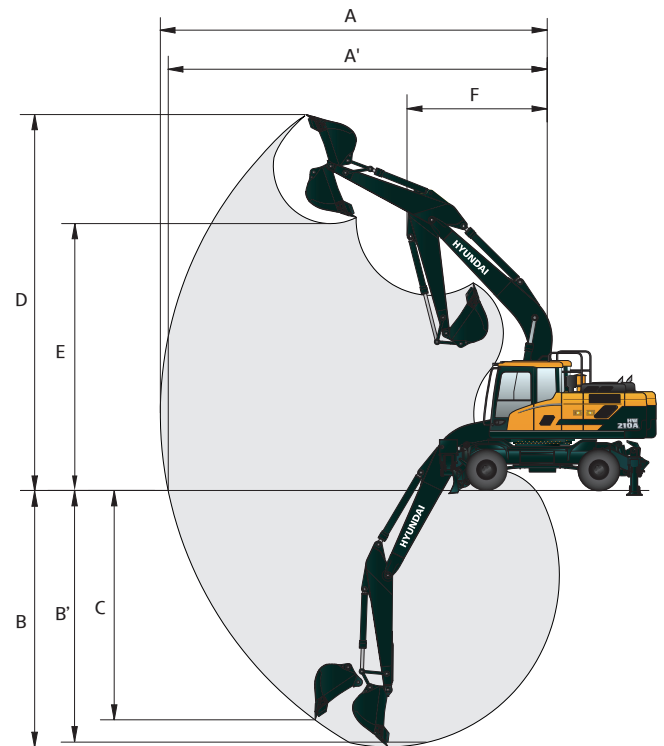
A	Wheel base	2,800 (9' 2")
B	Overall width	2,530 (8' 4")
C	Ground clearance of counterweight	1,295 (4' 3")
D	Rear-end distance	2,733 (9' 0")
D	Rear-end swing radius	2,740 (9' 0")
E	Upperstructure width	2,530 (8' 4")
F	Overall height of cab	3,260 (10' 8")
G	Min. ground clearance	353 (1' 2")
H	Tread (STD / Wide axle)	1,914 (6' 3") / 2114 (6' 11")
K	Overall height of guardrail	3,330 (10' 11")

	Boom length	5,650 (18' 6")		
	Arm length	2,400 (7' 10")	2,700 (8' 10")	2,920 (9' 7")
I	Overall length (Traveling position)	9,590 (31' 6")	9,540 (31' 4")	9,380 (30' 9")
I'	Overall length (Shipping position)	9,680 (31' 9")	9,570 (31' 5")	9,500 (31' 2")
J	Overall height of boom (Traveling position)	3,720 (12' 2")	3,650 (12' 0")	4,020 (13' 2")
J'	Overall height of boom (Shipping position)	3,350 (11' 0")	3,240 (10' 8")	3,150 (10' 4")

## HW210A MONO BOOM WORKING RANGE

Unit: ft.-in (mm)

	Boom length	5,650 (18' 6")		
	Arm length	2,400 (7' 10")	2,700 (8' 10")	2,920 (9' 7")
A	Max. digging reach	9,480 (31' 1")	9,760 (32' 0")	9,970 (32' 9")
A'	Max. digging reach on ground	9,270 (30' 5")	9,550 (31' 4")	9,770 (32' 1")
B	Max. digging depth	5,860 (19' 3")	6,210 (20' 4")	6,430 (21' 1")
B'	Max. digging depth (8' level)	5,660 (18' 7")	5,980 (19' 7")	6,210 (20' 4")
C	Max. vertical wall digging depth	5,510 (18' 1")	5,830 (19' 2")	6,110 (20' 1")
D	Max. digging height	9,710 (31' 10")	9,870 (32' 5")	10,020 (32' 10")
E	Max. dumping height	6,860 (22' 6")	7,010 (23' 0")	7,160 (23' 6")
F	Min. swing radius	3,520 (11' 7")	3,490 (11' 5")	3,460 (11' 4")



## ATTACHMENT

Booms and arms are welded with a low-stress, full-box section design.

5.65 m (18' 6") Mono boom, 5.40 m (17' 9") 2-Piece booms and 2.4 m (7' 10"), 2.7 m (8' 10"), 2.92 m (9' 7") arms are available.

## DIGGING FORCE

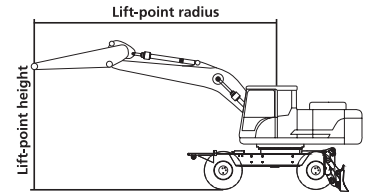
Boom	Length	mm (ft.in)	5,650 (18' 6") Mono boom			5,400 (17' 9") 2-Piece boom			Remark
Arm	Length	mm (ft.in)	2,400 (7' 10")	2,700 (8' 10")	2,920 (9' 7")	2,400 (7' 10")	2,700 (8' 10")	2,920 (9' 7")	
Bucket digging force	SAE	kN	130.4 [141.6]	130.4 [141.6]	130.4 [141.6]	130.4 [141.6]	130.4 [141.6]	130.4 [141.6]	[]: Power Boost
		kgf	13,300 [14,440]	13,300 [14,440]	13,300 [14,440]	13,300 [14,440]	13,300 [14,440]	13,300 [14,440]	
		lbf	29,320 [31,830]	29,320 [31,830]	29,320 [31,830]	29,320 [31,830]	29,320 [31,830]	29,320 [31,830]	
	ISO	kN	151.0 [164.0]	151.0 [164.0]	151.0 [164.0]	151.0 [164.0]	151.0 [164.0]	151.0 [164.0]	
		kgf	15,400 [16,720]	15,400 [16,720]	15,400 [16,720]	15,400 [16,720]	15,400 [16,720]	15,400 [16,720]	
		lbf	33,950 [36,860]	33,950 [36,860]	33,950 [36,860]	33,950 [36,860]	33,950 [36,860]	33,950 [36,860]	
Arm crowd force	SAE	kN	120.6 [130.9]	108.9 [118.2]	102.0 [110.7]	120.6 [130.9]	108.9 [118.2]	102.0 [110.7]	[]: Power Boost
		kgf	12,300 [13,350]	11,100 [12,050]	10,400 [11,290]	12,300 [13,350]	11,100 [12,050]	10,400 [11,290]	
		lbf	27,120 [29,430]	24,470 [26,570]	22,930 [24,900]	27,120 [29,430]	24,470 [26,570]	22,930 [24,900]	
	ISO	kN	126.5 [137.4]	113.8 [123.5]	106.9 [116.1]	126.5 [137.4]	113.8 [123.5]	106.9 [116.1]	
		kgf	12,900 [14,010]	11,600 [12,590]	10,900 [11,830]	12,900 [14,010]	11,600 [12,590]	10,900 [11,830]	
		lbf	28,440 [30,890]	25,570 [27,760]	24,030 [26,090]	28,440 [30,890]	25,570 [27,760]	24,030 [26,090]	

Note : Boom weight includes arm cylinder, piping, and pin  
Arm weight includes bucket cylinder, linkage, and pin

# SPECIFICATIONS HW210A

EU Stage V Engine Installed

- Notes:
1. Lifting capacities are based on ISO 10567.
  2. Lifting capacities of the 9A Series 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 a hook (standard equipment) located on the back of the bucket.
  4. (\*) indicates load limited by hydraulic capacity.



## Lifting Capacity (Without Dozer)

Boom: 5,650 (18' 6")

Arm: 2,700 (8' 10")

Wheel 310 mm (12")

CWT 3,400 kg (7,496 lb)

Capacities based on North American Standard Configuration in accordance with ISO condition 2 standard.

Rating over front

Rating over side or 360 degree

Lift-point height A		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m	kg					*4,180	*4120			*3620	*3620	6.10
24.6 ft	lb					*9220	*9080			*7980	*7980	(20.0)
6.0 m	kg					*5270	*5270			*3330	*3330	7.21
19.7 ft	lb					*11620	*11620			*7340	*7340	(23.6)
4.5 m	kg			*6840	*6840	*5750	5620	*5240	3930	*3260	*3260	7.88
14.8 ft	lb			*15080	*15080	*12680	12390	*11550	8660	*7190	*7190	(25.8)
3.0 m	kg			*8500	8270	*6480	5370	*5510	3830	*3330	*3320	8.22
9.8 ft	lb			*18740	18230	*14290	11840	*12150	8440	*7340	*7320	(27.0)
1.5 m	kg			*9840	7780	*7170	5130	*5820	3720	*3540	*3220	8.27
4.9 ft	lb			*21690	17150	*15810	11310	*12830	8200	*7800	*7100	(27.1)
0.0 m (0.0 m)	kg	*6270	*6270	*10320	7540	*7540	4970	*5940	3640	*3950	*3310	8.05
	lb	*13820	*13820	*22750	16620	*16620	10960	*13100	8020	*8710	*7300	(26.4)
-1.5 m	kg	*11690	*11690	*9980	7490	*7410	4920	*4870	3640	*4700	*3630	7.51
-4.9 ft	lb	*25770	*25770	*22000	16510	*16340	10850	*10740	8020	*10360	*8000	(24.6)
-3.0 m	kg	*12050	*12050	*8810	7580	*6470	4980			*5530	*4400	6.59
-9.8 ft	lb	*26570	*26570	*19420	16710	*14260	10980			*12190	*9700	(21.6)
-4.5 m	kg			*6090	*6090					*5010	*5010	5.08
-14.8 ft	lb			*13430	*13430					*11050	*11050	(16.7)

## Lifting Capacity (Dozer Down)

Boom: 5,650 (18' 6")

Arm: 2,700 (8' 10")

Wheel 310 mm (12")

CWT 3,400 kg (7,496 lb)

Capacities based on North American Standard Configuration in accordance with ISO condition 2 standard.

Rating over front

Rating over side or 360 degree

Lift-point height		Lift-point radius								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m	kg					*4,180	*4,180			*3620	*3620	6.10
24.6 ft	lb					*9220	*9220			*7980	*7980	(20.0)
6.0 m	kg					*5270	4400			*3330	3210	7.21
19.7 ft	lb					*11620	9700			*7340	7080	(23.6)
4.5 m	kg			*6840	6580	*5750	4240	4390	2960	*3260	2710	7.88
14.8 ft	lb			*15080	14510	*12680	9350	9680	6530	*7190	5970	(25.8)
3.0 m	kg			*8500	6040	6050	4000	4290	2870	*3330	2470	8.22
9.8 ft	lb			*18740	13320	13340	8820	9460	6330	*7340	5450	(27.0)
1.5 m	kg			8990	5590	5800	3780	4170	2760	*3540	2380	8.27
4.9 ft	lb			19820	12320	12790	8330	9190	6080	*7800	5250	(27.1)
0.0 m (0.0 m)	kg	*6270	*6270	8730	5370	5630	3630	4090	2680	3700	2440	8.05
	lb	*13820	*13820	19250	11840	12410	8000	9020	5910	8160	5380	(26.4)
-1.5 m	kg	*11690	9990	8680	5330	5580	3580	4080	2680	4080	2680	7.51
-4.9 ft	lb	*25770	22020	19140	11750	12300	7890	8990	5910	8990	5910	(24.6)
-3.0 m	kg	*12050	10180	8780	5410	5640	3640			4960	3240	6.59
-9.8 ft	lb	*26570	22440	19360	11930	12430	8020			10930	7140	(21.6)
-4.5 m	kg			*6090	5670					*5010	4820	5.08
-14.8 ft	lb			*13430	12500					*11050	10630	(16.7)

ENGINE	STD	OPT
Cummins B6.7 engine	•	
<b>HYDRAULIC SYSTEM</b>		
Electric Positive Flow Control (EPFC)		
3-power mode, 2-work mode, user mode	•	
Variable Power Control	•	
Pump Flow Control	•	
Attachment Mode Flow Control	•	
Engine Auto Idle	•	
Engine Auto Shutdown Control	•	
Hyundai Bio Hydraulic Oil (HBHO)		•
<b>CAB &amp; INTERIOR</b>		
ISO Standard cabin		
Rise-up type windshield wiper	•	
Radio / USB player	•	
Handsfree mobile phone system with USB	•	
12 volt power outlet (24V DC to 12V DC converter)	•	
Electric horn	•	
All-weather steel cab with 360° visibility	•	
Safety glass - Tempered glass	•	
Safety glass - Tempered glass with front laminated glass	•	
Safety glass windows	•	
Sliding fold-in front window	•	
Sliding side window(LH)	•	
Lockable door	•	
Hot & cool box	•	
Storage compartment & Ashtray	•	
Transparent cabin roof-cover	•	
Sun visor	•	
Door and cab locks, one key	•	
Mechanical suspension seat with heater	•	
Pilot-operated slidable joystick	•	
Console box height adjust system	•	
Automatic climate control		
Air conditioner & heater	•	
Defroster	•	
Starting Aid (air grid heater) for cold weather	•	
Centralized monitoring		
8" LCD display	•	
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 Gauges	•	
Fuel level gauge	•	
Hyd. oil temperature gauge	•	
Fuel warmer	•	
Warnings	•	
Communication error	•	
Low battery	•	
Clock	•	
Cabin lights	•	
Cabin front window rain guard		•
Seat		
Adjustable air suspension seat with heater	•	
Cabin FOPS/FOG		
FOPS (Falling Object Protective Structures)- ISO 10262 Level 2		•
Cabin ROPS		
ROPS (Roll Over Protective Structures)- ISO 12117-2	•	

SAFETY	STD	OPT
Radar with 2nd monitor		•
Battery master switch	•	
Rear view camera	•	
Rear & Mirror view camera		•
AAVM (Advanced Around View Monitoring)		•
Four front working lights (2 boom mounted, 2 front frame mounted)	•	
Travel alarm	•	
Rear work lamp		•
Beacon lamp		•
Automatic swing brake	•	•
Boom holding system	•	
Arm holding system	•	
Safety lock valve for boom cylinder with overload warning device		•
Safety lock valve for arm cylinder		•
Swing Lock System		•
General Type Guardrail	•	
Separable Type Guardrail		•

ATTACHMENT		
Booms		
5.65 m, 18' 6" Mono	•	
5.40 m, 17' 9" 2-Piece		•
Arms		
2.4 m, 7' 10"		•
2.7 m, 8' 10"		•
2.92 m, 9' 7"	•	

OTHER		
Heavy CWT 3.4 ton	•	
Removable clean-out dust net for cooler	•	
Fuel pre-filter	•	
Fuel Warmer (Single)	•	
Self-diagnostics system	•	
Hi MATE (Remote Management System)	Mobile	•
	Satellite	•
	Dual	•
Batteries (2 x 12V x 100 AH)	•	
Precleaner		•
Fuel filler pump (50 lpm)		•
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)		•
Automatic digging brake		•
Joystick steering		•
Fine Swing Control System		•
Tool kit		•
Auto cruiser system	•	
LED lights on boom (2)		•

UNDERCARRIAGE		
Front outrigger and rear blade	•	
Front and rear outrigger		•
Front blade and rear outrigger		•
Front and rear dozer blade		•
Front grapple rest and rear blade		•
Tires-dual (10.00-20-14PR tube)	•	
Tires-dual (10.00-20-16PR tube)		•
Tires-dual (10.00-20 solid)		•
Fenders (Mudguards)	•	
Wide axle 2.75 m		•

\* 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.



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