HD HYUNDAI CONSTRUCTION EQUIPMENT

HW210A SPECIFICATIONS

Net Power
170 hp (127 kW) at 2,200 rpm

Standard Bucket
1.11 yd³ (0.85 m³)

Operating Weight
21,180 lb (46,690 kg) – 22,510 lb (49,630 kg)

ENGINE

Maker / Model		CUMMINS / B6.7
Type		6 cylinder, turbocharged, charge air cooled, electronic controlled diesel engine
Rated power	SAE J1995 (gross)	173 hp (129 kW) at 2,200 rpm
	SAE J1349 (net)	170 hp (127 kW) at 2,200 rpm
Max. torque		195 hp (145 kW) at 2,200 rpm
Peak Torque		650 lb ft (881 Nm) at 1,300 rpm
Displacement		6,700 cc (409 in³)
Batteries		2 × 12 V, 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 × 55 gpm (2 × 208 ℓ/min)
AUXILIARY PRESSURE		
2-way	Flow	13~66 gpm / (50~250 ℓ/min)
	Pressure	1,450~4,641 psi / (100~280 bar)
Rotating	Flow	16 gpm / (60 ℓ/min)
	Pressure	3,046 psi / (210 bar)
PILOT PUMP		
Type		Fixed displacement gear pump single stage
Max. Flow		8.7 gpm (33 ℓ/min)
HYDRAULIC MOTORS		
Travel		Variable Displacement Bent Axis Piston Motor
Swing		Fixed Displacement Radial Piston Motor
RELIEF VALVE SETTING		
Implement Circuits		4,970 psi (350 kgf/cm²)
Travel		5,400 psi (380 kgf/cm²)
Power Boost (Boom, Arm, Bucket)		5,400 psi (380 kgf/cm²)
Swing Circuit		3,769 psi (265 kgf/cm²)
Pilot Circuit		570 psi (40 kgf/cm²)
Service Valve		Installed

DRIVES & BRAKES

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

Max. Drawbar Pull		26,689 lbf (12,106 kgf)
Max. Travel Speed	Low	5.9 mph (9.5 km/h)
	High	23.9 mph (38.4 km/h)
Gradeability		35° (70%)
Parking Brake		Spring applied and hydraulic released wet disc brake type in transmission.

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 18' 6" (5,650 mm) Mono boom, 17' 9" (5,400 mm) 2-Piece boom, 9' 7" (2,920 mm) arm, SAE heaped 1.05 yd³ (0.80 m³) backhoe bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

Operating weight	
Rear Dozer blade	46,690 lb (21,180 kg)
Front outrigger and Rear blade	49,290 lb (22,360 kg)
Front blade and Rear outrigger	49,630 lb (22,510 kg)
Front and Rear outrigger	49,560 lb (22,480 kg)
Front and Rear dozer	49,360 lb (22,390 kg)

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

Fuel Tank	gal (ℓ)	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 49.2 ft (15 m), moving forward in second gear ratio

CONTROL

Pilot pressure operated joysticks and pedals with detachable lever provide almost effortless and fatigueless 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

HW210A
DIMENSIONS AND WORKING RANGE

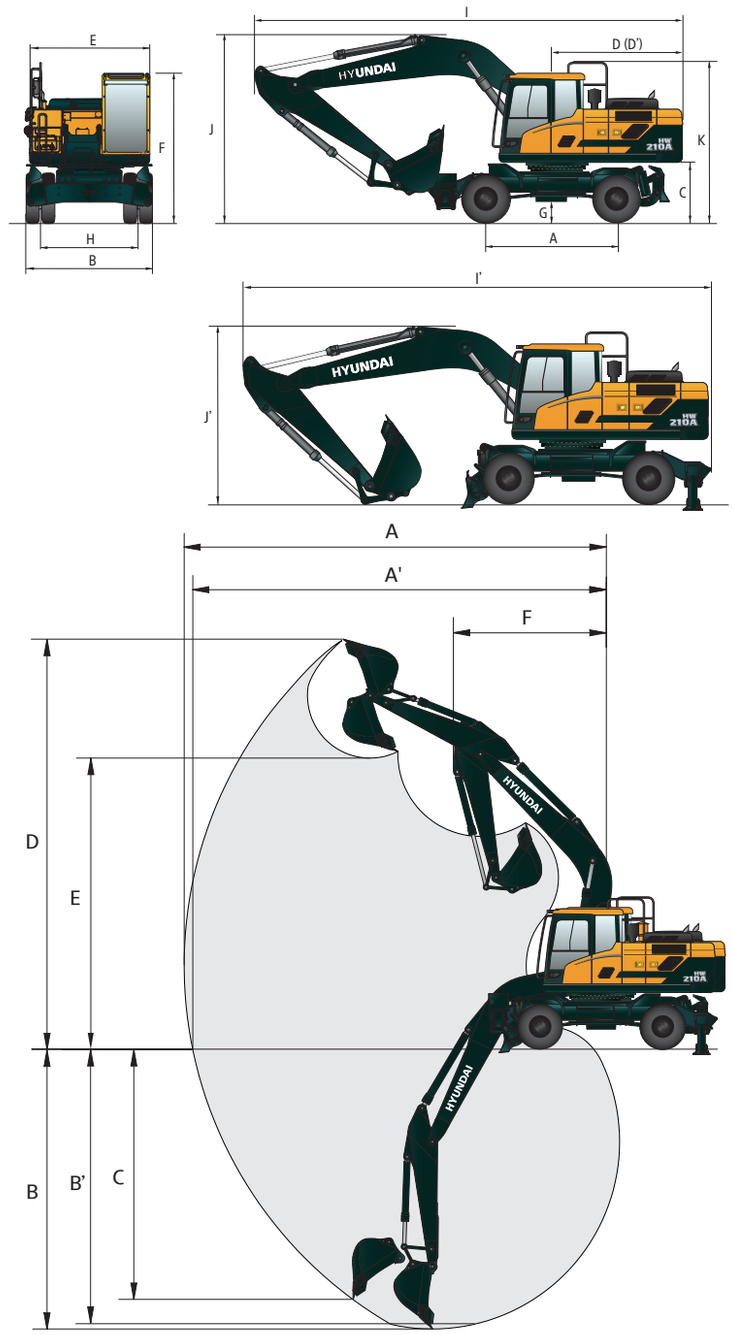
MONO BOOM DIMENSIONS
Unit: ft in (mm)

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

A	Wheel base		9' 2" (2,800)	
B	Overall width		8' 4" (2,530)	
C	Ground clearance of counterweight		4' 3" (1,295)	
D	Rear-end distance		9' 0" (2,733)	
D'	Rear-end swing radius		9' 0" (2,740)	
E	Upperstructure width		8' 4" (2,530)	
F	Overall height of cab		10' 8" (3,260)	
G	Min. ground clearance		1' 2" (353)	
H	Tread		6' 3" (1,914)	
K	Overall height of guardrail		10' 11" (3,330)	
	Boom length		5,650 (18' 6")	
	Arm length	7' 10" (2,400)	8' 10" (2,700)	9' 7" (2,920)
I	Overall length (Traveling position)	31' 6" (9,590)	31' 4" (9,540)	30' 9" (9,380)
I'	Overall length (Shipping position)	31' 9" (9,680)	31' 5" (9,570)	31' 2" (9,500)
J	Overall height of boom (Traveling position)	12' 2" (3,720)	12' 0" (3,650)	13' 2" (4,020)
J'	Overall height of boom (Shipping position)	11' 0" (3,350)	10' 8" (3,240)	10' 4" (3,150)

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")



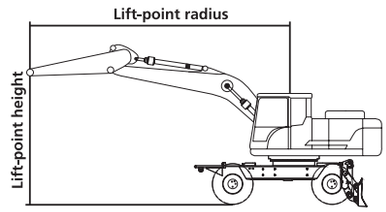
ATTACHMENT
Booms and arms are welded with a low-stress, full-box section design.
18' 6" (5.65 m) Mono boom, 17' 9" (5.40 m) 2-piece booms and 7' 10" (2.4 m), 8' 10" (2.7 m), 9' 7" (2.92 m) arms are available.

DIGGING FORCE

Boom	Length	ft in (mm)	18' 6" (5,650) Mono boom			17' 9" (5,400) 2-piece boom		
Arm	Length	ft in (mm)	7' 10" (2,400)	8' 10" (2,700)	9' 7" (2,920)	7' 10" (2,400)	8' 10" (2,700)	9' 7" (2,920)
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]
		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]
		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: Boorm weight includes arm cylinder, piping, and pin. Arm weight includes bucket cylinder, linkage, and pin. [ ]: Power Boost

HW210A
LIFTING CAPACITY



LIFTING CAPACITY (OUTRIGGER UP)

Boom: 18' 6" (5,650 mm)
Arm: 9' 7" (2,920 mm)
Wheel 12" (310 mm)
Counterweight 7,496 lb (3,400 kg)

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 m (ft)		Lift-point radius 4.9 ft (1.5 m)		9.8 ft (3.0 m)		14.8 ft (4.5 m)		19.7 ft (6.0 m)		24.6 ft (7.5 m)		At maximum reach Capacity		Reach
														ft (m)
24.6 ft (7.5 m)	lb							*10,320	9,720			*6,920	*6,920	21.0 (6.39)
	(kg)							*(4,680)	(4,410)			*(3,140)	*(3,140)	
19.7 ft (6.0 m)	lb							*11,070	9,680			*6,390	*6,390	24.5 (7.45)
	(kg)							*(5,020)	(4,390)			*(2,900)	*(2,900)	
14.8 ft (4.5 m)	lb					*14,330	*14,330	*12,170	9,300	9,630	6,460	*6,260	5,620	26.6 (8.10)
	(kg)					*(6,500)	*(6,500)	*(5,520)	(4,220)	(4,370)	(2,930)	*(2,840)	(2,550)	
9.8 ft (3.0 m)	lb					*17,990	13,290	13,270	8,750	9,370	6,220	*6,370	5,110	27.7 (8.43)
	(kg)					*(8,160)	(6,030)	(6,020)	(3,970)	(4,250)	(2,820)	*(2,890)	(2,320)	
4.9 ft (1.5 m)	lb					19,750	12,210	12,680	8,220	9,080	5,950	*6,770	4,940	27.8 (8.49)
	(kg)					(8,960)	(5,540)	(5,750)	(3,730)	(4,120)	(2,700)	*(3,070)	(2,240)	
0	lb			*14,660	*14,660	19,070	11,640	12,280	7,850	8,880	5,780	*7,500	5,030	27.1 (8.27)
	(kg)			*(6,550)	*(6,650)	(8,650)	(5,280)	(5,570)	(3,560)	(4,030)	(2,620)	*(3,400)	(2,280)	
-4.9 ft (-1.5 m)	lb	*15,850	*15,850	*24,800	21,540	18,890	11,490	12,130	7,690	8,820	5,710	8,470	5,490	25.4 (7.75)
	(kg)	*(7,190)	*(7,190)	*(11,250)	(9,770)	(8,570)	(5,210)	(5,500)	(3,490)	(4,000)	(2,590)	(3,840)	(2,490)	
-9.8 ft (-3.0 m)	lb	*26,170	*26,170	*27,450	21,980	19,090	11,640	12,240	7,800			10,160	6,590	22.5 (6.86)
	(kg)	*(11,870)	*(11,870)	*(12,450)	(9,970)	(8,660)	(5,280)	(5,550)	(3,540)			(4,610)	(2,990)	
-9.8 ft (-3.0 m)	lb			*19,930	*19,930	*14,510	12,150					*10,930	9,460	17.8 (5.43)
	(kg)			*(9,040)	*(9,040)	*(6,580)	(5,510)					*(4,960)	(4,290)	

LIFTING CAPACITY (OUTRIGGER DOWN)

Boom: 18' 6" (5,650 mm)
Arm: 9' 7" (2,920 mm)
Wheel 12" (310 mm)
Counterweight 7,496 lb (3,400 kg)

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 m (ft)		Lift-point radius 4.9 ft (1.5 m)		9.8 ft (3.0 m)		14.8 ft (4.5 m)		19.7 ft (6.0 m)		24.6 ft (7.5 m)		At maximum reach Capacity		Reach
														ft (m)
24.6 ft (7.5 m)	lb							*10,320	*10,320			*6,920	*6,920	21.0 (6.39)
	(kg)							*(4,680)	*(4,680)			*(3,140)	*(3,140)	
19.7 ft (6.0 m)	lb							*11,070	*11,070			*6,390	*6,390	24.5 (7.45)
	(kg)							*(5,020)	*(5,020)			*(2,900)	*(2,900)	
14.8 ft (4.5 m)	lb					*14,330	*14,330	*12,170	*12,170	*11,090	10,160	*6,260	*6,260	26.6 (8.10)
	(kg)					*(6,500)	*(6,500)	*(5,520)	*(5,520)	*(5,030)	(4,610)	*(2,840)	*(2,840)	
9.8 ft (3.0 m)	lb					*17,990	*17,990	*13,820	*13,820	*11,770	9,900	*6,370	*6,370	27.7 (8.43)
	(kg)					*(8,160)	*(8,160)	*(6,270)	*(6,270)	*(5,340)	(4,490)	*(2,890)	*(2,890)	
4.9 ft (1.5 m)	lb					*21,120	20,830	*15,410	13,400	*12,520	9,610	*6,770	*6,770	27.8 (8.49)
	(kg)					*(9,580)	(9,450)	*(6,990)	(6,080)	*(5,680)	(4,360)	*(3,070)	*(3,070)	
0	lb			*14,660	*14,660	*22,440	20,170	*16,360	12,990	*12,900	9,410	*7,500	*7,500	27.1 (8.27)
	(kg)			*(6,650)	*(6,650)	*(10,180)	(9,150)	*(7,420)	(5,890)	*(5,850)	(4,270)	*(3,400)	*(3,400)	
-4.9 ft (-1.5 m)	lb	*15,850	*15,850	*24,800	*24,800	*22,000	20,000	*16,250	12,830	*12,390	9,350	*8,840	*8,840	25.4 (7.75)
	(kg)	*(7,190)	*(7,190)	*(11,250)	*(11,250)	*(9,980)	(9,070)	*(7,370)	(5,820)	*(5,620)	(4,240)	*(4,010)	*(4,010)	
-9.8 ft (-3.0 m)	lb	*26,170	*26,170	*27,450	*27,450	*9,730	*19,730	*14,550	12,940			*11,550	*10,760	22.5 (6.86)
	(kg)	*(11,870)	*(11,870)	*(12,450)	*(12,450)	*(8,950)	*(8,950)	*(6,600)	(5,870)			*(5,240)	*(4,880)	
-9.8 ft (-3.0 m)	lb			*19,930	*19,930	*14,510	*14,510					*10,930	*10,930	17.8 (5.43)
	(kg)			*(9,040)	*(9,040)	*(6,580)	*(6,580)					*(4,960)	*(4,960)	

NOTES:
1. Lifting capacities are based on ISO 10567.
2. Lifting capacity of the HX 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 bucket pivot mounting pin on the arm (without bucket mass).
4. (*) indicates load limited by hydraulic capacity.

● Standard / ○ Option

ENGINE	
Cummins B6.7 engine	●
HYDRAULIC SYSTEM	
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)	○
CAB & INTERIOR	
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 and 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 and 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	●
Hydraulic 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	
Radar with 2nd monitor	○
Battery master switch	●
Rear and 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	
18' 6" (5.65 m) Mono	●
17' 9" (5.40 m) 2-piece	○
ARMS	
7' 10" (2.4 m)	○
8' 10" (2.7 m)	○
9' 7" (2.92 m)	●
OTHER	
Heavy CWT 3.4 ton	●
Removable clean-out dust net for cooler	●
Fuel pre-filter	●
Fuel Warmer (Single)	●
Self-diagnostics system	●
Hi MATE—Mobile 4G type	●
Hi MATE—Satellite	○
Batteries (2 × 12V, 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	
4-outrigger in Front and Rear	●
Front outrigger and rear blade	○
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 9' (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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