

HW170ACR SPECIFICATIONS

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

Bucket Capacity
0.37 yd³ (0.28 m³)

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

ENGINE

Maker / Model	CUMMINS / B4.5
Type	4 cylinder, water cooled, 4-cycle, turbocharged charge air cooled, direct injection, electronic controlled diesel engine.
Gross Power	173 hp (129 kW) at 2,200 rpm
Net Power	170 hp (127 kW) at 2,200 rpm
Max. Power	173 hp (129 kW) at 2,200 rpm
Peak Torque	575 lb ft (780 Nm) at 1,500 rpm
Displacement	275 in ³ (4.5 ℓ)

HYDRAULIC SYSTEM

MAIN PUMP

Type	Piston pump
Maximum flow	68.7 gpm (260 ℓ/min) at 1,800 rpm

AUX PUMP

Type	Piston pump
Maximum flow	15.9 gpm (60 ℓ/min)

* Load Sensing—Variable displacement pump: LUDV (load independent flow sharing)

HYDRAULIC MOTORS

Travel	Bent-axis pistons motor
Swing	Radial Piston Motor

RELIEF VALVE SETTING

Implement circuits	4,970 psi (350 kgf/cm ²)
Travel	5,400 psi (380 kgf/cm ²)
Power boost (boom, arm, bucket)	5,400 psi (380 kgf/cm ²)
Pilot circuit	500 psi (35 kgf/cm ²)
Service valve	Installed

HYDRAULIC CYLINDERS

No. of cylinder—bore × stroke	Arm	1-5" × 4' 1" (120 × 1,235 mm)
	Bucket	1-4" × 3' 3" (105 × 995 mm)
	Blade	2-4" × 9" (110 × 235 mm)
	Outrigger	2-5" × 1' 5" (125 × 463 mm)
	2-piece boom	2-4" × 3' 3" (110 × 992 mm)
	Adjust (boom)	1-6" × 2' 0" (160 × 624 mm)

* Hyundai Bio Hydraulic Oil (HBHO) available

DRIVES & BRAKES

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

Max. drawbar pull		23,636 lbf (10,720 kgf)
Travel speed	1st	5.9 mph (9.5 km/h)
	2nd (Standard)	21.7 mph (35 km/h)
	2nd (Option)	12.4 mph (20 km/h)
Gradeability		30°

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 and hydraulic released wet disc brake type in transmission.

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 (ISO)
Engine throttle	Electric, Dial type
Lights	Two lights mounted on the boom, one under the battery box and one under the cabin

AXLE & WHEEL

Full floating front axle is supported by center pin for oscillation. It can be locked by oscillation lock cylinders. Rear axle is fixed on the lower chassis.

Tires	Standard	10.00-20-14PR, Dual (tube type)
	Optional	10.00-20, Dual (solid type) 10.00-20-16PR, Dual (tube type)

STEERING SYSTEM

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

Min. turning radius	20' 8" (6,300 mm)
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SWING SYSTEM

Swing motor	Fixed displacement Radial piston motor
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	9.3 rpm

COOLANT & LUBRICANT CAPACITY

Fuel tank		52.8 (200)
Engine coolant		5.2 (19.5)
Engine oil		2.9 (11)
Swing device	Standard	1.64 (6.2)
gear oil	Option	1.3 (5.0)
Swing device grease (option)		0.32 (1.2)
Axle	Front	4.09 (15.5)
	Rear	4.62 (17.5)
Transmission		0.7 (2.5)
Hydraulic system (including tank)		49.4 (187)
Hydraulic tank		27.2 (103)
DEF/AdBlue®		7.1 (27)

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.
Outrigger	Indicated for max. operation stability when digging and lifting. Can be mounted on the front/or the rear.

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 16' 5" (5,000 mm) 2-piece boom, 8' 0" (2,450 mm) arm, SAE heaped 0.91 yd³ (0.70 m³) backhoe bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

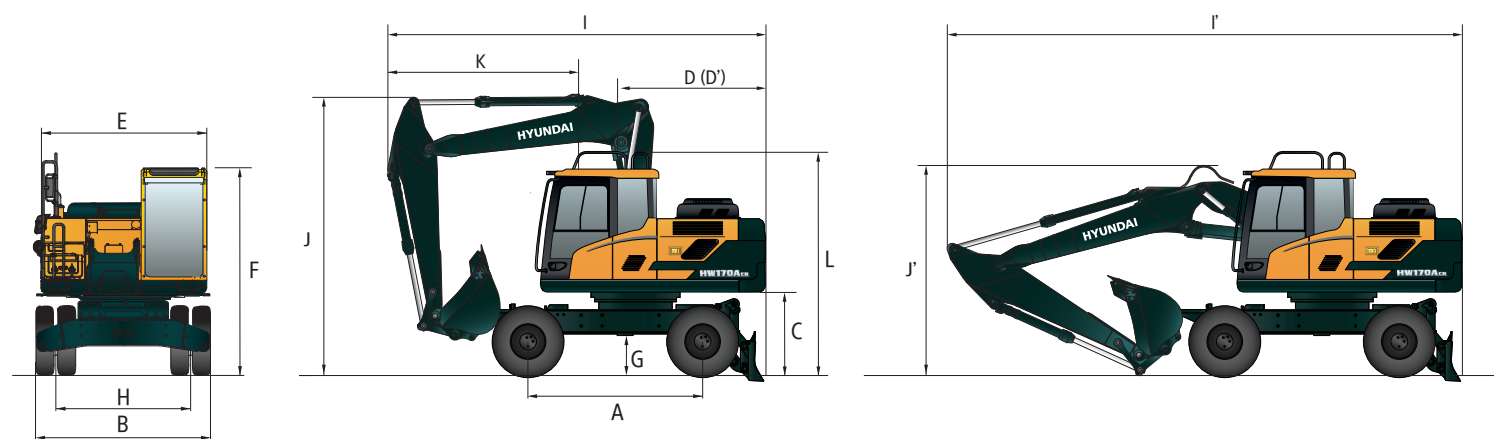
Rear dozer blade	41,490 lb (18,820 kg)
Rear outrigger	42,090 lb (19,090 kg)
Front outrigger and rear blade	44,180 lb (20,040 kg)
Front blade and rear outrigger	44,180 lb (20,040 kg)

AIR CONDITIONING SYSTEM

The air condition system for the machine contains the fluorinated greenhouse gas with global warming potential of R134a. (Global Warming Potential: 1,430)

The system hold 0.65 kg refrigerant consisting of a CO₂ equivalent of 0.93 metric tons. For more information, please refer to the manual.

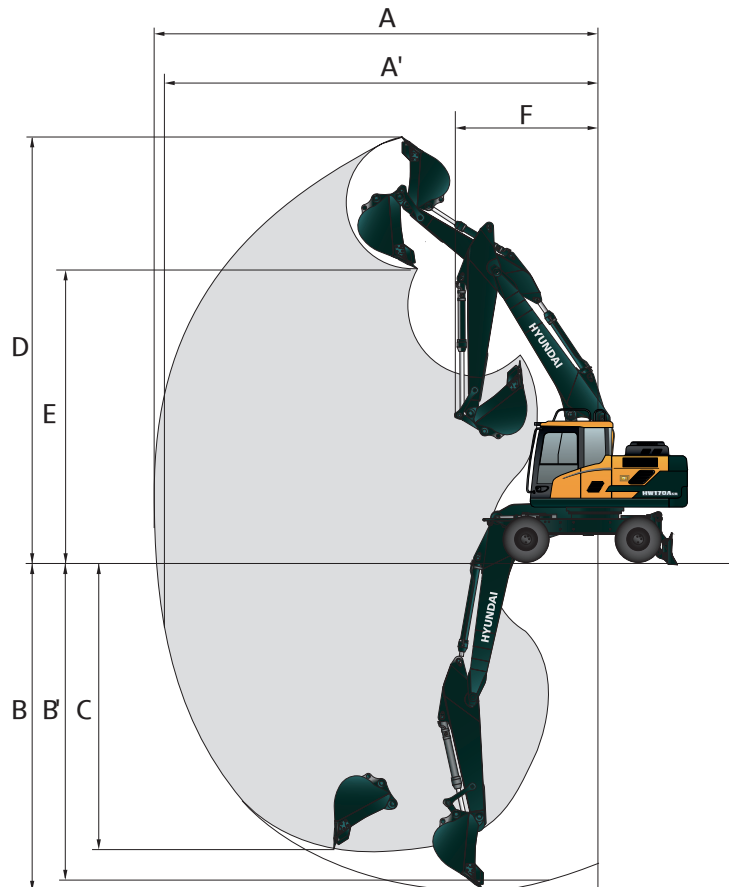
HW170ACR DIMENSIONS AND WORKING RANGE



DIMENSIONS		Units: ft in (mm)
A	Wheel base	8' 6" (2,600)
B	Overall width	Standard 8' 4" (2,530)
	Wide axle	8' 10" (2,700)
C	Ground clearance of counterweight	4' 2" (1,265)
D	Rear-end distance	6' 0" (1,830)
D'	Rear-end swing radius	6' 0" (1,830)
E	Upperstructure width	8' 6" (2,500)
F	Overall height of cab	10' 7" (3,220)
G	Min. ground clearance	1' 1" (340)
H	Tread	6' 5" (1,944)
L	Overall height of guardrail	10' 9" (3,275)

DIMENSIONS		Units: ft in (mm)		
2-piece boom length		16' 5" (5,000)		
Arm length		6' 7" (2,000)	8' 0" (2,450)	8' 6" (2,600)
I	Overall length (Traveling position)	19' 3" (5,880)	19' 2" (5,850)	19' 0" (5,790)
I'	Overall length (Shipping position)	25' 11" (7,900)	25' 9" (7,860)	25' 8" (7,820)
J	Overall height of boom (Traveling position)	12' 11" (3,940)	12' 11" (3,940)	13' 0" (3,960)
J'	Overall height of boom (Shipping position)	9' 8" (2,940)	9' 7" (2,900)	10' 7" (3,150)
K	End of attachment to steering wheel	10' 0" (3,050)	9' 11" (3,030)	9' 9" (2,960)

WORKING RANGE		Units: ft in (mm)		
2-piece boom length		16' 5" (5,000)		
Arm length		6' 7" (2,000)	8' 0" (2,450)	8' 6" (2,600)
A	Max. digging reach	27' 10" (8,490)	29' 4" (8,950)	29' 7" (9,020)
A'	Max. digging reach on ground	27' 2" (8,280)	28' 8" (8,750)	28' 11" (8,820)
B	Max. digging depth	16' 4" (4,980)	17' 10" (5,440)	18' 3" (5,565)
B'	Max. digging depth (8' level)	16' 0" (4,870)	17' 6" (5,340)	17' 11" (5,460)
C	Max. vertical wall digging depth	13' 7" (4,150)	15' 4" (4,680)	15' 4" (4,680)
D	Max. digging height	30' 9" (9,370)	32' 1" (9,785)	31' 9" (9,680)
E	Max. dumping height	21' 10" (6,660)	23' 2" (7,060)	22' 11" (6,980)
F	Min. swing radius	11' 1" (3,380)	10' 0" (3,040)	11' 6" (3,500)











HW170ACR LIFTING CAPACITY











16' 5" (5.0 m) 2-piece boom, equipped with 9,259 lb (4,200 kg) counter weight

 Rating over front.  Rating over side or 360 degree











6' 7" (2.00 m) ARM, REAR DOZER UP

Lift-point height ft (m)	Lift-point radius						At maximum reach	
	9.8 ft (3.0 m)		14.8 ft (4.5 m)		19.7 ft (6.0 m)		Capacity	Reach
								 ft (m)
24.6 ft (7.5 m)							*10,560	*10,560 13.8
19.7 ft (6.0 m)							*(4,790)	*(4,790) (4.19)
14.8 ft (4.5 m)			*9,500	*9,500			*9,680	6,440 18.9
9.8 ft (3.0 m)			*(4,310)	*(4,310)			*(4,390)	(2,920) (5.75)
4.9 ft (1.5 m)			*10,870	9,300	*9,590	5,950	8,820	5,050 21.7
0.0 ft (0.0 m)			*(4,930)	(4,220)	*(4,350)	(2,700)	(4,000)	(2,290) (6.60)
-4.9 ft (-1.5 m)			*13,380	8,600	10,050	5,710	7,870	4,450 23.1
			*(6,070)	(3,900)	(4,560)	(2,590)	(3,570)	(2,020) (7.03)
			14,930	7,980	9,770	5,420	7,610	4,250 23.4
			(6,770)	(3,620)	(4,430)	(2,460)	(3,450)	(1,930) (7.12)
			14,620	7,720	9,570	5,270	7,940	4,410 22.5
			(6,630)	(3,500)	(4,340)	(2,390)	(3,600)	(2,000) (6.87)
	*20,900	14,110	14,620	7,740	9,610	5,290	9,130	5,050 20.5
	*(9,480)	(6,400)	(6,630)	(3,510)	(4,360)	(2,400)	(4,140)	(2,290) (6.24)

8' 0" (2.45 m) ARM, REAR DOZER UP

Lift-point height ft (m)	Lift-point radius								At maximum reach	
	9.8 ft (3.0 m)		14.8 ft (4.5 m)		19.7 ft (6.0 m)		24.6 ft (7.5 m)		Capacity	Reach
										 ft (m)
24.6 ft (7.5 m)			*8,910	*8,910					*7,230	*7,230 16.2
19.7 ft (6.0 m)			*(4,040)	*(4,040)					*(3,280)	*(3,280) (4.95)
14.8 ft (4.5 m)			*8,420	*8,420	*8,600	6,110			*6,130	5,530 20.7
9.8 ft (3.0 m)			*(3,820)	*(3,820)	*(3,900)	(2,770)			*(2,780)	(2,510) (6.31)
4.9 ft (1.5 m)			*9,850	9,460	*8,840	6,020			*5,730	4,480 23.3
0.0 ft (0.0 m)			*(4,470)	(4,290)	*(4,010)	(2,730)			*(2,600)	(2,030) (7.10)
-4.9 ft (-1.5 m)			*12,410	8,710	*9,880	5,710	*5,750	3,990	*5,710	3,990 24.6
			*(5,630)	(3,950)	*(4,480)	(2,590)	*(2,610)	(1,810)	*(2,590)	(1,810) (7.50)
			*14,930	8,020	9,740	5,400	7,010	3,880	*5,950	3,810 24.9
			*(6,770)	(3,640)	(4,420)	(2,450)	(3,180)	(1,760)	*(2,700)	(1,730) (7.58)
			14,550	7,650	9,500	5,180			*6,570	3,950 24.1
			(6,600)	(3,470)	(4,310)	(2,350)			*(2,980)	(1,790) (7.35)
	*20,080	13,800	14,460	7,560	9,440	5,140			*7,780	4,430 22.2
	*(9,110)	(6,260)	(6,560)	(3,430)	(4,280)	(2,330)			*(3,530)	(2,010) (6.77)
			*14,070	7,760						
			*(6,380)	(3,520)						

8' 6" (2.6 m) ARM, REAR DOZER UP

Lift-point height ft (m)	Lift-point radius								At maximum reach	
	9.8 ft (3.0 m)		14.8 ft (4.5 m)		19.7 ft (6.0 m)		24.6 ft (7.5 m)		Capacity	Reach
										 ft (m)
24.6 ft (7.5 m)			*8,400	*8,400					*7,670	*7,670 16.9
19.7 ft (6.0 m)			*(3,810)	*(3,810)					*(3,480)	*(3,480) (5.15)
14.8 ft (4.5 m)			*8,070	*8,070	*8,250	6,150			*6,590	5,340 21.2
9.8 ft (3.0 m)			*(3,660)	*(3,660)	*(3,740)	(2,790)			*(2,990)	(2,420) (6.47)
4.9 ft (1.5 m)			*9,500	*9,500	*8,600	6,040			*6,240	4,340 23.7
0.0 ft (0.0 m)			*(4,310)	*(4,310)	*(3,900)	(2,740)			*(2,830)	(1,970) (7.24)
-4.9 ft (-1.5 m)			*12,080	8,750	*9,680	5,730	7,120	3,990	*6,220	3,860 25.0
			*(5,480)	(3,970)	*(4,390)	(2,600)	(3,230)	(1,810)	*(2,820)	(1,750) (7.63)
			*14,680	8,020	9,740	5,400	6,990	3,880	*6,500	3,700 25.3
			*(6,660)	(3,640)	(4,420)	(2,450)	(3,170)	(1,760)	*(2,950)	(1,680) (7.71)
			14,530	7,630	9,480	5,160			6,940	3,810 24.5
			(6,590)	(3,460)	(4,300)	(2,340)			(3,150)	(1,730) (7.48)
	*19,580	13,690	14,420	7,520	9,410	5,090			7,760	4,250 22.7
	*(8,880)	(6,210)	(6,540)	(3,410)	(4,270)	(2,310)			(3,520)	(1,930) (6.91)
			*14,350	7,690						
			*(6,510)	(3,490)						









- Lifting capacities are based on ISO 10567.
- Lifting capacity of the HX-A series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
- (*) indicates load limited by hydraulic capacity.
- Caution: please be aware of the local regulations and instructions for lifting operations.

HW170ACR LIFTING CAPACITY











16' 5" (5.0 m) 2-piece boom, equipped with 9,259 lb (4,200 kg) counter weight

 Rating over front.  Rating over side or 360 degree











6' 7" (2.00 m) ARM, REAR DOZER DOWN

Lift-point height ft (m)	Lift-point radius						At maximum reach	
	9.8 ft (3.0 m)		14.8 ft (4.5 m)		19.7 ft (6.0 m)		Capacity	Reach
								 ft (m)
24.6 ft							*10,560	13.8
(7.5 m)							*(4,790)	(4.19)
19.7 ft							*9,680	18.9
(6.0 m)							*(4,390)	(5.75)
14.8 ft							8,820	21.7
(4.5 m)							(4,000)	(6.60)
9.8 ft							7,870	23.1
(3.0 m)							(3,570)	(7.03)
4.9 ft							7,610	23.4
(1.5 m)							(3,450)	(7.12)
0.0 ft							7,940	22.5
(0.0 m)							(3,600)	(6.87)
-4.9 ft	*20,900	16,140	14,620	8,710	9,610	5,930	9,130	20.5
(-1.5 m)	*(9,480)	(7,320)	(6,630)	(3,950)	(4,360)	(2,690)	(4,140)	(6.24)

8' 0" (2.45 m) ARM, REAR DOZER DOWN

Lift-point height ft (m)	Lift-point radius								At maximum reach	
	9.8 ft (3.0 m)		14.8 ft (4.5 m)		19.7 ft (6.0 m)		24.6 ft (7.5 m)		Capacity	Reach
										 ft (m)
24.6 ft									*6,080	16.2
(7.5 m)									*(2,760)	(4.95)
19.7 ft									*5,140	20.7
(6.0 m)									*(2,330)	(6.31)
14.8 ft									*4,810	23.3
(4.5 m)									*(2,180)	(7.10)
9.8 ft									*4,760	24.6
(3.0 m)									*(2,160)	(7.50)
4.9 ft									*4,980	24.9
(1.5 m)									*(2,260)	(7.58)
0.0 ft									*5,490	24.1
(0.0 m)									*(2,490)	(7.35)
-4.9 ft	*18,410	15,810	14,460	8,550	9,440	5,780			*6,530	22.2
(-1.5 m)	*(8,350)	(7,170)	(6,560)	(3,880)	(4,280)	(2,620)			*(2,960)	(6.77)
-9.8 ft										
(-3.0 m)										

8' 6" (2.6 m) ARM, REAR DOZER DOWN

Lift-point height ft (m)	Lift-point radius								At maximum reach	
	9.8 ft (3.0 m)		14.8 ft (4.5 m)		19.7 ft (6.0 m)		24.6 ft (7.5 m)		Capacity	Reach
										 ft (m)
24.6 ft									*6,440	16.9
(7.5 m)									*(2,920)	(5.15)
19.7 ft									*5,530	21.2
(6.0 m)									*(2,510)	(6.47)
14.8 ft									*5,200	23.7
(4.5 m)									*(2,360)	(7.24)
9.8 ft									*5,200	25.0
(3.0 m)									*(2,360)	(7.63)
4.9 ft									*5,450	25.3
(1.5 m)									*(2,470)	(7.71)
0.0 ft									*6,020	24.5
(0.0 m)									*(2,730)	(7.48)
-4.9 ft	*17,950	15,720	14,420	8,490	9,410	5,730			*7,140	22.7
(-1.5 m)	*(8,140)	(7,130)	(6,540)	(3,850)	(4,270)	(2,600)			*(3,240)	(6.91)
-9.8 ft										
(-3.0 m)										

- Lifting capacities are based on ISO 10567.
- Lifting capacity of the HX-A series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
- (*) indicates load limited by hydraulic capacity.
- Caution: please be aware of the local regulations and instructions for lifting operations.

HW170^{ACR} DIGGING FORCE



DIGGING FORCE

2-piece boom* length		ft in (mm)	16' 5" (5,000)		
Arm* length			6' 7" (2,000)	8' 0" (2,450)	8' 6" (2,600)
Bucket digging force	SAE	kN	98 [107]	98 [107]	98 [107]
		kgf	10,008 [10,920]	9,992 [10,900]	10,026 [10,940]
		lbf	22,060 [24,070]	22,030 [24,030]	22,100 [24,120]
	ISO	kN	115 [125]	115 [125]	115 [126]
		kgf	11,726 [12,790]	11,706 [12,770]	11,746 [12,810]
		lbf	25,850 [28,200]	25,810 [28,150]	25,900 [28,240]
Arm crowd force	SAE	kN	85 [93]	67 [73]	67 [73]
		kgf	8,648 [9,430]	6,858 [7,480]	6,798 [7,420]
		lbf	19,070 [20,790]	15,120 [16,490]	14,990 [16,360]
	ISO	kN	89 [98]	70 [77]	70 [76]
		kgf	9,118 [9,950]	7,178 [7,830]	7,106 [7,750]
		lbf	20,100 [21,940]	15,830 [17,260]	15,670 [17,090]

[] : Power Boost

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

ENGINE	
Cummins B 4.5 engine	●
HYDRAULIC SYSTEM	
Intelligent Power Control (IPC)	
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	●
Electronic Fan Control	●
12.4 mph (20 km/h) speed limit	○
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 (24 V DC to 12 V DC converter)	●
Electric horn	●
All-weather steel cab with 360° visibility	●
Safety glass - Tempered glass with front laminated glass	●
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	●
Mechanical suspension seat with heater	●
Pilot-operated slidable joystick	●
Console box height adjust system	●
Ashtray	○
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/Accelerometer	●
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	
Mechanical Suspension with Heater	○
Adjustable air suspension seat with heater	○
Cabin FOPS/FOG	
FOPS (Falling Object Structures) Top Guard	○
FOPS (Falling Object Structures) Front and Top Guard	○
Cabin ROPS	
ROPS (Roll Over Protective Structures)	●

SAFETY	
Ride control and Boom floating	○
Battery master switch	●
Rear view camera	○
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	○
Four outside rearview mirror	●

ATTACHMENT	
Booms	
2-piece 16' 5" (5.0 m)	○
Arms	
6' 7" (2.00 m)	○
8' 0" (2.45 m)	●
8' 6" (2.60 m)	○
8' 0" (2.45 m) w/o reinforcement	○
8' 6" (2.60 m) w/o reinforcement	○

OTHER	
Removable clean-out dust net for cooler	●
Fuel pre-filter	●
Self-diagnostics system	●
Hi MATE Mobile (4G)	○
Hi MATE Satellite	○
Batteries (2 × 12 V × 100 AH)	●
Fuel filler pump 9.25 gpm (35 ℓ /min)	○
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	●
2 LED lights on boom	○
Lower Frame Toolbox - LH	●
Lower Frame Toolbox - LH, RH	○

UNDERCARRIAGE	
Front dozer blade	○
Rear dozer blade	●
Rear outrigger	○
Front outrigger and rear blade	○
Front and rear outrigger	○
Front blade and rear outrigger	○
Front grapple rest and rear blade	○
Front and rear dozer blade	○
Trailer hitch for rear dozer blade	○
Front grapple rest and rear outrigger	○
Front bucket rest and rear blade	○
Front bucket rest and rear outrigger	○
Tires—dual (10.00-20-14PR tube)	●
Tires—dual (10.00-20-16PR tube)	○
Tires—dual (10.00-20 solid)	○
Fenders (Mudguards)	○
Wide axle 8' 10" (2.7 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.

