SPECIFICATIONS HW180

Tier 4 Final Engine

Net Power SAE J1349 / 171 HP (127 kW) at 1,800 rpm

| Bucket Range | 0.39 m³ - 1.05 m³ | 0.51 yd³ - 1.37 yd³ | Standard Bucket | 0.76 m³ (0.99 yd³) Operating Weight 17,800 kg (39,240 lb)

ENGINE			
Maker / Model		Cummins QSB6.7	
Туре		Water-cooled, 4-cycle diesel,6-cylinder in-line, Direct injection, Turbocharged, Charge air cooled, Low emission	
Rated flywheel	J1995 (gross)	180 HP (134 kW) at 1,800 rpm	
horse power SAE	J1349 (net)	171 HP (127 kW) at 1,800 rpm	
Max. torque		74.7 kgf.m (620 lbf.ft) at 1,500 rpm	
Bore × stroke		107 x 124 mm (4.21" x 4.88")	
Piston displacement		6,700 cc (409 in³)	
Batteries		2 x 12 V x 100 Ah	
Starting motor		24 V - 4.8 kW	
Alternator		24 V - 95 Amp	

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Travel

Туре	Two variable displacement piston pumps		
Max. flow	2 X 172 V/min (45.4 US gpm)		
Sub-pump for pilot circuit (Gear Pump)	33 l /min (8.7 gpm)		

Variable displasement pistons motor

with hrake valve

CROSS-SENSING AND FUEL-SAVING PUMP SYSTEM

HYDRAULIC MOTORS

	WILLI DIAKE VAIVE
Swing	Axial piston motor with automatic brake
RELIEF VALVE SETTING	
Implement circuits	400 kgf/cm ² (5,690 psi)
Travel	380 kgf/cm² (5,400 psi)
Power boost (boom, arm, bucket)	380 kgf/cm² (5,400 psi)
Swing circuit	285 kgf/cm² (4,050 psi)
Pilot circuit	40 kgf/cm² (570 psi)
Service valve	Installed

HYDRAULIC CYLINDERS

Boom: 2-115 x 1,090 mm (4.5" x 42.9")
Arm: 1-120 x 1,355 mm (4.7" x 53.3")
Bucket: 1-110 x 995 mm (4.3" x 39.2")
Blade: 2-110 x 235 mm (4.3" x 9.3")
Outrigger: 2-125 x 463 mm (4.9" x 18.2")
2-PCS boom: 2-115 x 960 mm (4.1"x 37.8")
Adjust (boom): 1-160 x 650 mm (6.29"x 25.6")

DRIVES & BRAKES

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

Max. drawbar pull		10,320 kgf (22,750 lbf)	
Travel speed	1st	5.9 km/h	
	2nd	21.7 mph	
Gradeability		30° (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 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.

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



OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 5,200 mm (17' 1") mono boom, 2,600 mm (8' 6") arm, SAE heaped 0.76 m^3 (0.99 yd^3) backhoe bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

OPERATING WEIGHT

0. 2.0		
Undercarriage	Mono boom	Hyd. 2-Piece boom
Rear dozer blade	17,800 kg (39,240 lb)	18,270 kg (40,280 lb)
Rear outrigger	17,950 kg (39,570 lb)	18,420 kg (40,010 lb)
Front outrigger and rear blade	18,750 kg (41,340 lb)	19,220 kg (42,370 lb)
Front blade and rear outrigger	18,800 kg (41,450 lb)	19,270 kg (42,480 lb)
Four outrigger	18,900 kg (41,670 lb)	19,370 kg (42,700 lb)

SWING SYSTEM

Swing motor	Fixed displacement axial pistons motor	
Swing reduction	Planetary gear reduction	
Swing bearing lubrication	Grease-bathed	
Swing brake (option)	Multi wet disc (pin lock type)	
Swing speed	9.3 rpm	

SERVICE	REFILL CAPACITIES		
Re-filling		liter	US gal
Fuel tank		290	76.6
Engine coolant		19.5	5.2
Engine oil		23.7	6.3
Swing device - gear oil (OPT)		6.2	1.64
Swing device - greese (OPT)		(1.2)	(0.32)
Axle	Front	15.5	4.11
	Rear	17.5	4.6
Hydraulic system (including tank)		270	71.3
Hydraulic tank		125	32.8
DEF/AdBlue®		27	7.1

UNDERCARRIAGE

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

Dozer blade	Ideal for leveling and back filling or clean-up work.	
Outrigger	Required for max. operation stabillity when digging and lifting. Can be mounted on the front/or the rear.	

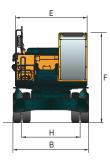
SPECIFICATIONS **HW180**

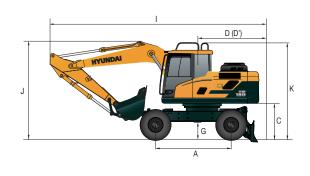
Tier 4 Final Engine

HW180 DIMENSIONS Unit: mm (ft·in)

5.2~m (17' 1") Mono boom, 2.6~m (8' 6") Arm, Rear dozer

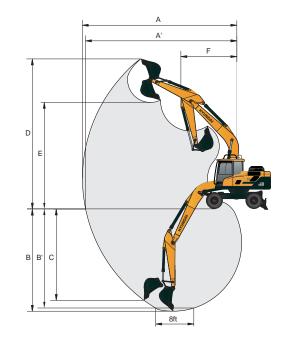
Α	Wheel base	2,600 (8' 6")
В	Overall width	2,500 (8' 2")
C	Ground clearance of counterweight	1,270 (4' 2")
D	Rear-end distance	2,430 (8' 0")
D'	Rear-end swing radius	2,430 (8' 0")
Е	Upperstructure width	2,475 (8' 1")
F	Overall height of cab	3,190 (10' 6")
G	Min. ground clearance	340 (1' 1")
Н	Tread	1,944 (6' 5")
K	Overall height of guardrail	3,420 (11' 3")
	Overall fleight of guardrall	3,420 (11 3)





	Boom length	5,200 (16' 9")					
	Arm length	2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")			
1	Overall length (Traveling position)	8,590 (28' 2")	8,710 (28' 7")	8,480 (27' 10")			
ľ	Overall length (Shipping position)	8,650 (28' 5")	8,760 (28' 9")	8,760 (28' 9")			
J	Overall height of boom (Traveling position)	3,610 (11' 10")	3,540 (11' 7")	3,900 (12' 10")			
J'	Overall height of boom (Shipping position)	3,060 (10' 0")	3,180 (10' 5")	3,150 (10' 4")			

HW180 WORKING RANGE			Unit : mm (ft·in)
Boom length		5,200 (17' 1")	
Arm length	2,200	2,600	3,100
	(7′ 3″)	(8′ 6″)	(10′ 2″)
A Max. digging reach	8,820	9,200	9,450
	(29′ 1″)	(30′ 3″)	(31′ 0″)
A' Max. digging reach on ground	8,615	9,000	9,250
	(28' 4")	(29′ 7″)	(30′ 4″)
B Max. digging depth	5,500	5,900	6,320
	(18′ 2″)	(19' 5")	(20′ 9″)
B' Max. digging depth (8' level)	5,280	5,700	6,130
	(17' 5")	(18′ 9″)	(20′ 1″)
C Max. vertical wall digging depth	4,850	5,310	5,470
	(16′ 1″)	(17′ 6″)	(17′ 11″)
D Max. digging height	9,180	9,300	9,220
	(30′ 3″)	(30′ 7″)	(30′ 3″)
E Max. dumping height	6,520	6,660	6,620
	(21' 5")	(21′ 8″)	(21′ 9″)
F Min. swing radius	3,290	3,230	3,160
	(10′ 9″)	(10′ 8 ″)	(10′ 4″)



DIGGING FORCE						
Δ	Length	mm (ft.in)	2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")	
Arm	Weight	kg (lb)	750 (1,650)	810 (1,790)	890 (1,960)	
		kN	98.1 [106.5]	98.1 [106.5]	107.9 [117.2]	
	SAE	kgf	10,000 [10,860]	10,000 [10,860]	11,000 [11,940]	
Bucket		lbf	22,050 [23,940]	22,050 [23,940]	24,250 [26,330]	
digging force		kN	113.4 [123.1]	113.4 [123.1]	123.6 [134.2]	
10.00	ISO	kgf	11,560 [12,550]	11,560 [12,550]	12,600 [13,680]	[Power
		lbf	25,490 [27,670]	25,490 [27,670]	27,780 [30,160]	Boost]
		kN	76.0 [82.5]	66.4 [72.1]	69.0 [74.9]	
	SAE	kgf	7,750 [8,410]	9,770 [7,350]	7,030 [7,630]	
Arm		lbf	17,090 [18,550]	16,930 [16,210]	15,500 [16,830]	
crowd force		kN	79.4 [86.2]	69.1 [75.1]	71.4 [77.5]	
Torce	ISO	kgf	8,100 [8,790]	7,050 [7,650]	7,280 [7,900]	
		lbf	17,860 [19,390]	15,540 [16,870]	16,050 [17,430]	

Note: Arm weight includes bucket cylinder, linkage, and pin

SPECIFICATIONS

Tier 4 Final Engine

BUCKETS















SAE heaped m³ (yd³)

0.39 (0.51)

0.50 (0.65)

0.64 (0.84) 0.70 (0.92) 0.76 (0.99) 0.70 (0.92)

0.89 (1.16) 1.05 (1.37)

0.69 (0.90) 0.75 (0.90)

Can	Capacity		Width		Recommendation mm (ft.in)						
m³ (yd³)		mm (in)		Weight	5,200	0 (17′ 1″) Mono	5,100 (16' 9") 2-Piece Boom				
SAE heaped	CECE heaped	Without side cutters	With side cutters	kg (lb)	2,200 (7' 3") Arm	2,600 (8' 6") Arm	3,100 (10' 2") Arm	2,200 (7' 3") Arm	2,600 (8' 6") Arm		
0.39 (0.51)	0.34 (0.44)	650 (25.6)	740 (29.1)	410 (900)	•	•	•	•	•		
0.50 (0.65)	0.44 (0.58)	790 (31.1)	880 (34.6)	470 (1,040)	•	•	•	•	•		
0.64 (0.84)	0.55 (0.72)	950 (37.4)	1,040 (40.9)	510 (1,120)	•	•	A	•	•		
0.70 (0.92)	0.60 (0.78)	1,020 (40.2)	1,110 (43.7)	600 (1,320)	•	•	A	•	A		
0.76 (0.99)	0.65 (0.85)	1,090 (42.9)	1,180 (46.5)	620 (1,370)	•	A	A	•	A		
0.89 (1.16)	0.77 (1.01)	1,250 (49.2)	1,340 (52.8)	610 (1,340)	A	A	-	A	A		
1.05(1.37)	0.90 (1.18)	1,430 (56.3)	1,520 (59.8)	680 (1,500)	A	-	-	A	-		
0.69 (0.90)	0.62 (0.81)	1,050 (41.3)	-	720 (1,590)	•	A	A	•	A		
0.75 (0.98)	0.65 (0.85)	1,820 (71.7)	-	540 (1,190)	•	•	A	•	A		

- Heavy duty bucket
- Ditch cleaning bucket

- : Applicable for materials with density of 2,000 kgf/m³ (3,370 lbf/yd³) or less : Applicable for materials with density of 1,600 kgf/m³ (2,700 lbf/yd³) or less
- ▲ : Applicable for materials with density of 1,100 kgf/m³ (1,850 lbf/yd³) or less

Lifting Capacity Chart

Boom: 5,200 mm (17') Arm: 2,600 mm (8'5")

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

Bucket: 0.76 m³ (0.99 yd³) SAE heaped CWT 3,150 kg (6,945 lb)

Rating over front

Rating over side or 360 degree

C V V I 3, I S	o kg ((0,5 15 16)									limer 1	tating ove	1 Side of S	oo acgicc	
Lift-point height m (ft)		Lift-point radius											At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m	4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (25 ft)		Capacity		
						J		Į.				Į.		m (ft)	
7.5 m	kg											*2,940	*2,940	5.47	
(29.5 ft)	lb											*6,480	*6,480	(17.9)	
6.0 m	kg							*4,230	*4,230			*2,630	*2,630	6.68	
(20 ft)	lb							*9,330	*9,330			*5,800	*5,800	(21.9)	
4.5 m	kg					*5,160	*5,160	*4,510	*4,510			*2,540	*2,540	7.39	
(15 ft)	lb					*11,380	*11,380	*9,940	*9,940			*5,600	*5,600	(24.2)	
3.0 m	kg					*6,490	*6,490	*5,080	*5,080	*3,910	*3,910	*2,580	*2,580	7.74	
(10 ft)	lb					*14,310	*14,310	*11,200	*11,200	*8,620	*8,620	*5,690	*5,690	(25.4)	
1.5 m	kg					*7,650	*7,650	*5,640	5,630	*4,590	4,030	*2,750	*2,750	7.78	
(5 ft)	lb					*16,870	*16,870	*12,430	12,410	*10,120	8,880	*6,060	*6,060	(25.5)	
Ground	kg			*5,530	*5,530	*8,140	*8,140	*5,940	5,510	*3,360	*3,360	*3,090	*2,460	7.53	
Line	lb			*12,190	*12,190	*17,950	*17,950	*13,100	12,150	*7,410	*7,410	*6,810	*5,420	(24.7)	
-1.5 m	kg	*5,750	*5,750	*9,750	*9,750	*7,890	*7,890	*5,770	5,480			*3,740	*3,740	6.94	
(-5 ft)	lb	*12,680	*12,680	*21,500	*21,500	*17,390	*17,390	*12,720	12,080			*8,250	*8,250	(22.8)	
-3.0 m	kg	*10,160	*10,160	*9,610	*9,610	*6,790	*6,790					*4,690	*4,690	5.91	
(-10 ft)	lb	*22,400	*22,400	*21,190	*21,190	*14,970	*14,970					*10,340	*10,340	(19.4)	

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

SPECIFICATIONS

Tier 4 Final Engine

ENGINE	STD	OF
Cummins QSB 6.7 engine	•	
HYDRAULIC SYSTEM	STD	OI
ntelligent 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	•	
CAB & INTERIOR	STD	Ol
SO Standard cabin	ļ.	
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 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	•	
Cabin lights	•	
Cabin front window rain guard		_
Cabin roof-steel cover		
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	•	
Check engine	•	
Air cleaner clogging	•	
Indicators	•	
ECO Gauges	•	
Fuel level gauge	•	
Hydraulic oil temperature gauge	•	
Fuel warmer	•	
Warnings	•	
Communication error	•	
Low battery	•	
y		

^{*} 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.

HYUNDAI **CONSTRUCTION EQUIPMENT**

www.hceamericas.com 6100 Atlantic Blvd., Norcross, GA 30071 TEL (678) 823 7777 FAX (678) 823 7778

CAB & INTERIOR		STD	OPT
Seat			
Adjustable air suspension seat with heater		•	
Cabin FOPS/FOG			
FOPS (Falling Object Protective Structures)		•	
FOG (Falling Object Guard)- ISO 10262 Lev Cabin ROPS	/ei 2		•
ROPS (Roll Over Protective Structures) - ISO	12117-2	•	
,	12117	STD	ОРТ
SAFETY	עונ	OFI	
Battery master switch Rearview 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 overlo	ad warning device		•
Safety lock valve for arm cylinder	ad warning device		•
Swing Lock System			•
Four outside rearview mirror		•	
OTHER		STD	OPT
Booms			
5.2 m (17' 1") mono		•	
5.1 m (16' 9") 2-Piece			•
Arms			
2.2 m (7' 3")			•
2.6 m (8' 6")		•	
3.1 m (10' 2")			•
Removable clean-out dust net for cooler Removable reservoir tank		•	
Fuel pre-filter		-	
<u>'</u>	Single	•	
Fuel warmer	Dual		•
Self-diagnostics system		•	
	Mobile	•	
Hi-mate Remote Management System	Satellite		•
Pattorios (2 v 12) (v 100 Ab)	Dual	•	•
Batteries (2 x 12V x 100 Ah) Fuel filler pump (50 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)			•
Fine swing control system Tool kit			•
Auto cruiser system			
Travel pedal (2way)			•
REAR DOZER BLADE		STD	
		STD	OPT
Front blade			•
Front - grapple rest, rear - dozer Rear - Dozer blade			•
Rear - Outrigger			•
Front blade, rear blade			•
Front outrigger and rear blade			•
Front and rear outrigger		•	
			•
Front blade and rear outrigger			1
Tires-dual (10.00 - 20 -16PR tube)		•	
Tires-dual (10.00 - 20 -16PR tube) Tires-dual (10.00 - 20 solid)		•	•
Tires-dual (10.00 - 20 -16PR tube)	out advance ratios	•	•

PLEASE CONTACT

1057-WE-SP 11/2019v2