

SPECIFICATIONS

HW160A

Powered By Cummins Performance Series Engine

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

Standard Bucket
.85 m³ / 1.11 yd³

Operating Weight
38,910 LBS (17,650 kg)



ENGINE

Maker / Model		CUMMINS / B4.5
Type		Stage 5 compliant, 4 cylinder, turbocharged charge air cooled, direct injection, electronic controlled diesel engine.
Rated flywheel horse power	J1995 (gross)	129 kW (173 hp) at 2,200 rpm
	SAE J1349 (net)	127 kW (170 hp) at 2,200 rpm
Max. torque		129 kW (173 hp) at 2,200 rpm
Peak Torque		780 N-m (575 lb.ft) at 1,500 rpm
Displacement		4.5 l (275 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 255 l/pm (67.4 gpm) @ 1,800 rpm

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 ² (4,970 psi)
Travel	380 kgf/cm ² (5,400 psi)
Power Boost (Boom, Arm, Bucket)	380 kgf/cm ² (5,400 psi)
Swing Circuit	270 kgf/cm ² (3,840 psi)
Pilot Circuit	40 kgf/cm ² (570 psi)
Service Valve	Installed

DRIVES & BRAKES

4-wheel hydrostatic drive. Constant mesh, helical gear transmission provides 2 forward and reverse travel speeds.	
Reduction System	Planetary reduction gear
Max. Drawbar Pull	10,720 kgf (23,636 lbf)
Max. Travel Speed (High / Low)	9.5 km/hr (5.9 mph) / 37 km/hr (24.2 mph)
Gradeability	35° (70%)
Parking Brake	Spring applied and hydraulic released wet disc brake type in transmission.

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 5,000mm (16' 5") Mono boom, 2,591 mm (8' 6") arm, SAE heaped 0.85 m³ (1.11 yd³) backhoe bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

OPERATING WEIGHT

Rear outrigger	17,580 kg (38,760 lb)
Front outrigger and rear blade	17,850 kg (39,350 lb)
Front blade and rear outrigger	18,800 kg (41,450 lb)
Four outrigger	18,800 kg (41,450 lb)
Front blade and rear blade	19,070 kg (42,040 lb)

SWING SYSTEM

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

COOLANT & LUBRICANT CAPACITY

	US gal	liter
Fuel Tank	66.0	250
Engine Coolant	5.2	19.5
Engine Oil	2.9	11
Swing Device	0.32	1.2
Hydraulic System (Including Tank)	53.9	204
Hydraulic Tank	32.2	122
Def/Adblue®	7.1	27

UNDERCARRIAGE

Reinforced box-section frame is all-welded, low-stress. Dozer blade and outrigger options are available. Easily replaceable through bolt-on design.

Dozer blade	Parallelogram-mounted dozer blade to support machine when working, also for leveling and back filling.
Outriggers	Indicated for max. operation stability when digging and lifting. Can be mounted on front/or 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

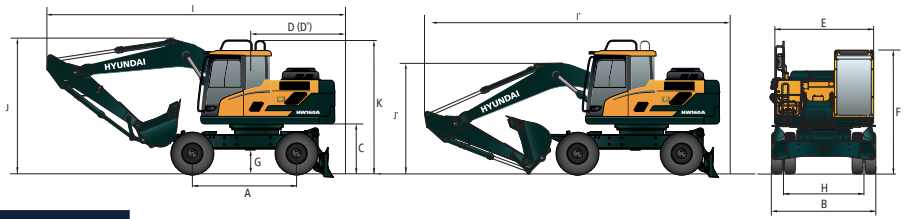
Pilot pressure operated joysticks and pedals with detachable lever provide almost effortless and fatigueless operation.

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

SPECIFICATIONS

HW160A

EU Stage V Engine Installed



HW160A MONO BOOM DIMENSIONS

Unit: ft·in (mm)

5.0 m (16' 5") Mono boom, 2.0 m (6' 7"), 2.45 m (8' 0"), 2.6 m (8' 6"), 3.1 m (10' 2") Arm, Rear dozer

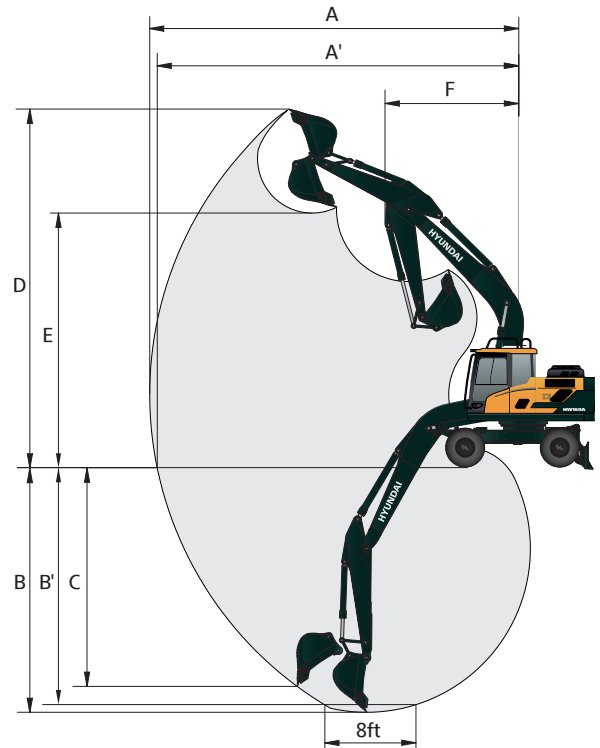
A	Wheel base	2,600 (8' 6")
B	Overall width (STD / Wide axle)	2,530 (8' 4")
C	Ground clearance of counterweight	1,265 (4' 2")
D	Rear-end distance	2,240 (7' 4")
D'	Rear-end swing radius	2,250 (7' 5")
E	Upperstructure width	2,485 (8' 2")
F	Overall height of cab	3,230 (10' 7")
G	Min. ground clearance	370 (1' 3")
H	Tread	1,944 (6' 5")
K	Overall height of guardrail	3,450 (11' 4")

Arm length	2,000 (6' 7")	2,450 (8' 0")	2,600 (8' 6")	3,100 (10' 2")
I Overall length (Traveling position)	8,230 (27')	8,180 (26' 10")	7,960 (26' 6")	7,990 (26' 5")
I' Overall length (Shipping position)	8,190 (26' 10")	8,140 (26' 8")	8,240 (27' 0")	8,210 (26' 11")
J' Overall height of boom (Shipping position)	3,090 (10' 2")	2,965 (9' 9")	3,250 (10' 8")	3,530 (11' 7")

HW160A MONO BOOM WORKING RANGE

Unit: ft·in (mm)

Boom length	5,000 (16' 5")			
Arm length	2,000 (6' 7")	2,450 (8' 0")	2,600 (8' 6")	3,100 (10' 2")
A Max. digging reach	8,360 (27' 5")	8,820 (28' 11")	8,865 (29' 1")	9,285 (30' 6")
A' Max. digging reach on ground	8,140 (26' 8")	8,610 (28' 3")	8,660 (28' 5")	9,090 (29' 10")
B Max. digging depth	5,160 (16' 11")	5,610 (18' 5")	5,760 (18' 11")	6,260 (20' 6")
B' Max. digging depth (8' level)	4,910 (16' 1")	5,410 (17' 9")	5,530 (18' 2")	6,045 (19' 10")
C Max. vertical wall digging depth	4,430 (14' 6")	5,060 (16' 7")	4,870 (16' 0")	5,220 (17' 2")
D Max. digging height	8,640 (28' 4")	9,010 (29' 7")	8,810 (28' 11")	8,920 (29' 3")
E Max. dumping height	6,030 (19' 9")	6,360 (20' 10")	6,210 (20' 4")	6,350 (20' 10")
F Min. swing radius	3,480 (11' 5")	3,170 (10' 5")	3,450 (11' 4")	3,500 (11' 6")



ATTACHMENT

Booms and arms are welded with a low-stress, full-box section design.
2.0 m (6' 7"), 2.45 m (8' 0"), 2.6 m (8' 6"), 3.1 m (10' 2") arms are available.

DIGGING FORCE

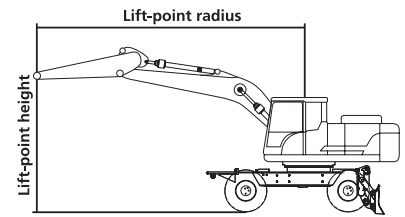
Boom			5,000 (16' 9") Mono				Remark
Arm			2,000 (6' 7")	2,450 (8' 0")	2,600 (8' 6")	3,100 (10' 2")	
Bucket digging force	SAE	kN	98 [107]	98 [107]	98 [107]	98 [107]	[] : Power Boost
		kgf	10,008 [10,920]	9,992 [10,900]	10,026 [10,940]	10,029 [10,940]	
		lbf	22,060 [24,070]	22,030 [24,030]	22,110 [24,120]	22,110 [24,120]	
	ISO	kN	115 [125]	115 [125]	115 [126]	115 [126]	
		kgf	11,726 [12,790]	11,706 [12,770]	11,746 [12,810]	11,750 [12,820]	
		lbf	25,850 [28,200]	25,810 [28,150]	25,900 [28,240]	25,900 [28,260]	
Arm crowd force	SAE	kN	92 [101]	73 [80]	73 [79]	65 [70]	
		kgf	9,417 [10,270]	7,468 [8,150]	7,401 [8,070]	6,572 [7,170]	
		lbf	20,760 [22,640]	16,460 [17,970]	16,320 [17,790]	14,490 [15,810]	
	ISO	kN	97 [106]	77 [84]	76 [82]	67 [73]	
		kgf	9,928 [10,830]	7,816 [8,530]	7,737 [8,440]	6,833 [7,450]	
		lbf	21,890 [23,880]	17,230 [18,810]	17,060 [18,610]	15,060 [16,420]	

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

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HW160A

EU Stage V Engine Installed



Lifting Capacity (Without Dozer)

Boom: 5.0 m (16' 5")

Arm: 2.45 m (8' 0")

Wheel 500 mm (20")

CWT 2,910 kg (6,415 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 m (ft)		Lift-point radius								At max. reach	
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity	
7.5 m	kg									*3180	*3180
24.6 ft	lb									*7010	*7010
6.0 m	kg							*3550	2670	*2750	2540
19.7 ft	lb							*7830	5890	*6060	5600
4.5 m	kg					*4,730	4120	*4240	2630	*2630	2050
14.8 ft	lb					*10,430	9080	*9350	5800	*5800	4520
3.0 m	kg					*5,890	3820	4350	2510	*2660	1820
9.8 ft	lb					*12,990	8420	9590	5530	*5860	4010
1.5 m	kg					6,470	3550	4200	2390	*2830	1740
4.9 ft	lb					14,260	7830	9260	5270	*6240	3840
Ground Line	kg			*5870	*5870	6,290	3390	4110	2300	3170	1790
	lb			*12940	*12940	13,870	7470	9060	5070	6990	3950
-1.5 m	kg	*5,810	*5,810	*10160	6100	6,250	3360	4090	2280	3570	2020
-4.9 ft	lb	*12,810	*12,810	*22400	13450	13,780	7410	9020	5030	7870	4450
-3.0 m	kg	*10,280	*10,280	*8790	6250	*6,160	3430			*4540	2600
-9.8 ft	lb	*22,660	*22,660	*19380	13780	*13,580	7560			*10010	5730

Lifting Capacity (Dozer Down)

Boom: 5.0 m (16' 5")

Arm: 2.45 m (8' 0")

Wheel 500 mm (20")

CWT 3,250 kg (7,170 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 m (ft)		Lift-point radius								At max. reach	
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity	
7.5 m	kg									*3180	*3180
24.6 ft	lb									*7010	*7010
6.0 m	kg							*3550	2940	*2750	*2750
19.7 ft	lb							*7830	6480	*6060	*6060
4.5 m	kg					*4730	4540	*4240	2900	*2630	2260
14.8 ft	lb					*10430	10010	*9350	6390	*5800	4980
3.0 m	kg					*5890	4240	4350	2780	*2660	2020
9.8 ft	lb					*12990	9350	9590	6130	*5860	4450
1.5 m	kg					6470	3960	4200	2650	*2830	1940
4.9 ft	lb					14260	8730	9260	5840	*6240	4280
Ground Line	kg			*5870	*5870	6290	3800	4110	2570	3170	2000
	lb			*12940	*12940	13870	8380	9060	5670	6990	4410
-1.5 m	kg	*5810	*5810	*10160	6950	6250	3770	4090	2550	3570	2250
-4.9 ft	lb	*12810	*12810	*22400	15320	13780	8310	9020	5620	7870	4960
-3.0 m	kg	*10280	*10280	*8790	7110	*6160	3840			*4540	2900
-9.8 ft	lb	*22660	*22660	*19380	15670	*13580	8470			*10010	6390

NOTES:

- Lifting capacities are based on ISO 10567.
- 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.

- The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
- (*) indicates load limited by hydraulic capacity.

ENGINE	STD	OPT
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	●	
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 (24V DC to 12V 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 & 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	●	
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	●	
Warnings	●	
Communication error	●	
Low battery	●	
Clock	●	
Cabin lights		●
Cabin front window rain guard		●
Seat		
Adjustable Air Suspension with Heater	●	
Cabin FOP (ISO 10,262) Level 2		
FOPS (Falling Object Structures)	Front & Tops Guard	●
	Top Guard	●
Cabin ROPS (ISO 12,117-2)		
ROPS (Roll Over Protective Structures)	●	

SAFETY	STD	OPT
Ride control & Boom floating		●
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		●
Four outside rearview mirror	●	
ATTACHMENT		
Booms		
5.0 m, 16' 5" Mono	●	
Arms		
2.00 m, 6' 7"		●
2.45 m, 8' 0"	●	
2.60 m, 8' 6"		●
3.10 m, 10' 2"		●
OTHER		
Heavy CWT	●	
Fuel pre-filter	●	
Self-diagnostics system	●	
Hi MATE (Remote Management System)	●	
Batteries (2 x 12V x 100 AH)	●	
Double-acting piping kit with fingertip control		●
Rotating Piping Kit		●
Quick coupler piping	●	
Quick coupler	●	
Accumulator for lowering work equipment	●	
Pattern change valve (2 patterns)		●
Fine Swing Control System		●
Automatic braking		●
Joystick Steering		●
Auto cruiser system	●	
LED lights on boom (2)		●
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 grapppler 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 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.