ENGINE	STD	OPT
Cummins QSB 6.7 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	_	
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 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	•	
Defroster Starting Aid (air grid heater) for cold weather	•	
Defroster Starting Aid (air grid heater) for cold weather Centralized monitoring	•	
Defroster Starting Aid (air grid heater) for cold weather Centralized monitoring 8" LCD display	•	
Defroster Starting Aid (air grid heater) for cold weather Centralized monitoring 8" LCD display Engine speed or Trip meter/Accel.	•	
Defroster Starting Aid (air grid heater) for cold weather Centralized monitoring 8" LCD display Engine speed or Trip meter/Accel. Engine coolant temperature gauge	•	
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	•	
Defroster Starting Aid (air grid heater) for cold weather Centralized monitoring 8" LCD display Engine speed or Trip meter/Accel. Engine coolant temperature gauge	•	
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	•	
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	•	
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		
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		
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		
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		
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SAFETY		STD	OP'
Battery master switch		•	
Rearview camera			•
AAVM (Advanced Around View Monitoring)			•
Four front working lights		•	
Travel alarm			•
Rear work lamp			•
Beacon lamp			•
Automatic swing brake		•	
Boom holding system		•	
Arm holding system		•	
Safety lock valve for boom cylinder with over	load warning device		•
Safety lock valve for arm cylinder			•
Swing Lock System			•
Four outside rearview mirror		•	
OTHER			
Booms			
5.0 m, 16' 5" Mono		•	
5.1 m, 16' 9" 2-Piece			•
Arms			
2.2 m, 7' 3"		•	
2.5 m, 8' 2"			•
Removable clean-out dust net for cooler		•	
Removable reservoir tank		•	
Fuel pre-filter		•	
Fuel warmer	Single	•	
	Dual		•
Self-diagnostics system		•	
Hi-mate (Remote Management System)	Mobile		•
	Satellite		•
	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)		+	_
· · · ·			_
UNDERCARRIAGE			
Rear dozer blade		•	-
Front outrigger and rear blade			•
Front and rear outrigger			•
Front blade and rear outrigger			•
Tires-dual (10.00-20-14PR tube)			•
Tires-dual (10.00-20 solid)			•
Fenders (Mudguards)			

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PLEASE CONTACT

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2016. 08 Rev.0

MOVING YOU FURTHER

HW160

With Tier4 final / Stage IV Engine installed



Net Power

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

Gross Power

SAE J1995 / 180 HP (134 kW) at 1,800 rpm

Travel Speed

Operating Weight

35 km/h (21.7 mph) 17,100kg (37,700 lb)



st 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.



RULE THE GROUND

HW160

The HW series exceeds customer's expectation!

Become a true leader on the ground with HHI's HW series.

WORK MAX, WORTH MAX

- · ECO Gauge
- · IPC (Intelligent Power Control)
- · New Variable Power Control
- · Electronic Viscous Fan Clutch
- · Attachment Flow Control (Option)
- · New Cooling System with Increased Air Flow
- · Enlarged Air Inlet with Grill Cover
- · Cycle Time Improvement
- · Boom Floating Control (Option)



- · Durable Cooling Module
- · Reinforced Pin, Bush, and Polymer Shim
- Reinforced Durability of Upper and Lower Structure and Attachments
- · Hi-grade (High-pressure) Hoses



INFOTAINMENT FRONTIER

- · Intelligent and Wide Cluster
- · Haptic Control
- · Wi-Fi Direct with Smart Phone (Miracast)
- · Proportional Auxiliary Hydraulic System
- · New Audio System
- · New Air Conditioning System





Cycle Time Improvement

The HW Series provides higher productivity on the site by faster operation: it loads trucks up to 2% faster than the 9 Series.

WORK MAX, WORTH MAX

Fuel Efficient System, Allows Great Performance

The HW Series has an eco-friendly, high-performance engine which ensures both excellent fuel efficiency and high power. With outstanding operating performance proven by rigorous tests at various work sites, it will satisfy any customer's needs.



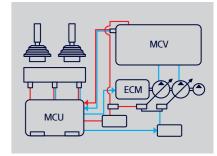
ECO Gauge

Eco Gauge enable economic operation of machines. The gauge level and color displays engine torque and fuel efficiency level. On top of that, the status of fuel consumption such as average rate and the total amount of fuel consumed are displayed. Hourly and daily based fuel consumption can be checked in the detailed menu as well.



IPC (Intelligent Power Control)

The IPC controls Power depending on work environments. Its mode can be selected and released on the monitor. On the excavation mode, pump flow can be easily controlled by a lever, reducing fuel consumption.



New Variable Power Control

The HW Series minimizes equipment input and output control signals to improve fuel efficiency. Its three-stage Power mode ensures the highest performance in any operating environment.

- * P(power) mode: Maximizes speed and power of the equipment for heavy load work.
- * S(standard) mode: Optimizes performance and fuel efficiency of the equipment for general load work
- * E(economy) mode: Improves the control system for light load work.

Electronic Viscous Fan Clutch



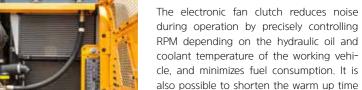
Attachment Flow Control (Option)

The HW Series improves pump flow rate by independent control of two pumps. It optimizes attachments for effective flow rate setting depending on attachments (ten breaker types and ten crusher types), enabling various operations matching the site environments.



New Cooling System with Increased Air Flow

The HW Series provides excellent cooling performance by increasing heat dissipation and can be easily cleaned.



Enlarged Air Inlet with Grill Cover

of hydraulic oil.

Enlarged vent hole of the air inlet side cover and fine net grill to prevent penetration of foreign materials further improve durability.

MORE RELIABLE, MORE SUSTAINABLE

New Exterior Design for Robustness and Safety

The true value of the HW Series lies in its durability. The robust upper and lower frame structure that can endure external shock and high-load work and the attachments whose performance was proven by rigorous tests further show the real value of the HW Series in tough working environments and promise higher productivity.



Reinforced Pin, Bush, and Polymer Shim

The HW series improves lubricity of connecting parts between the equipment and attachments. Gaps with attachments are minimized by wear-resistant long-life pins, bushes, and polymer shims, supporting the highest performance with invariable durability.



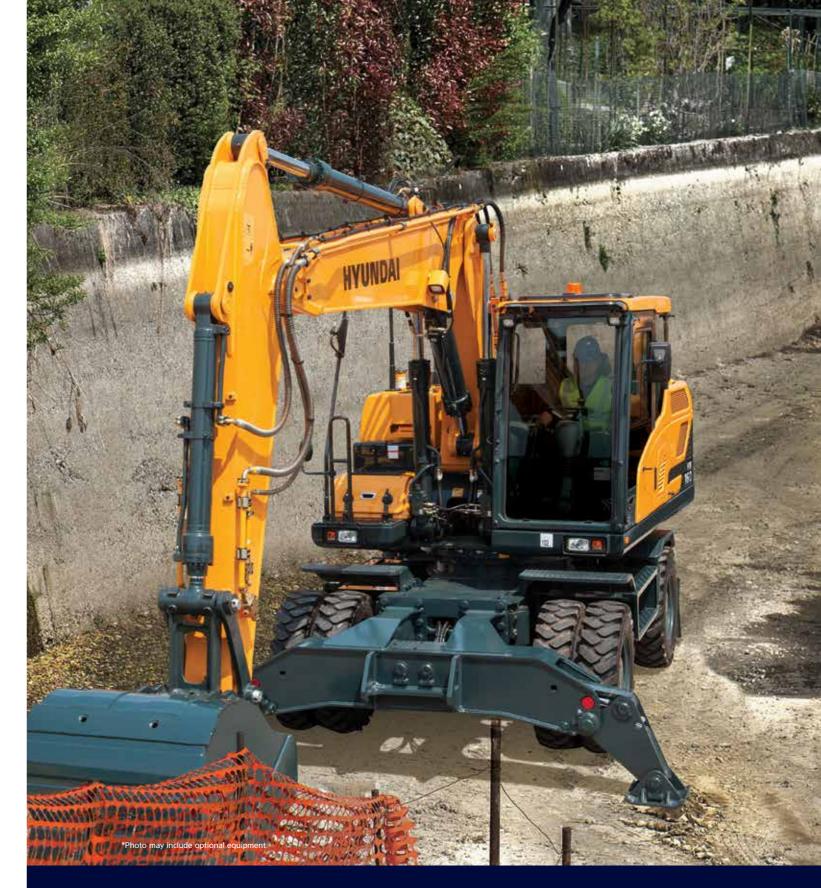
Durable Cooling Module

The HW Series has a durable cooling module that passed stringent tests, demonstrating the highest productivity in tough working environments.



Reinforced Durability of Upper and Lower Structure and Attachments

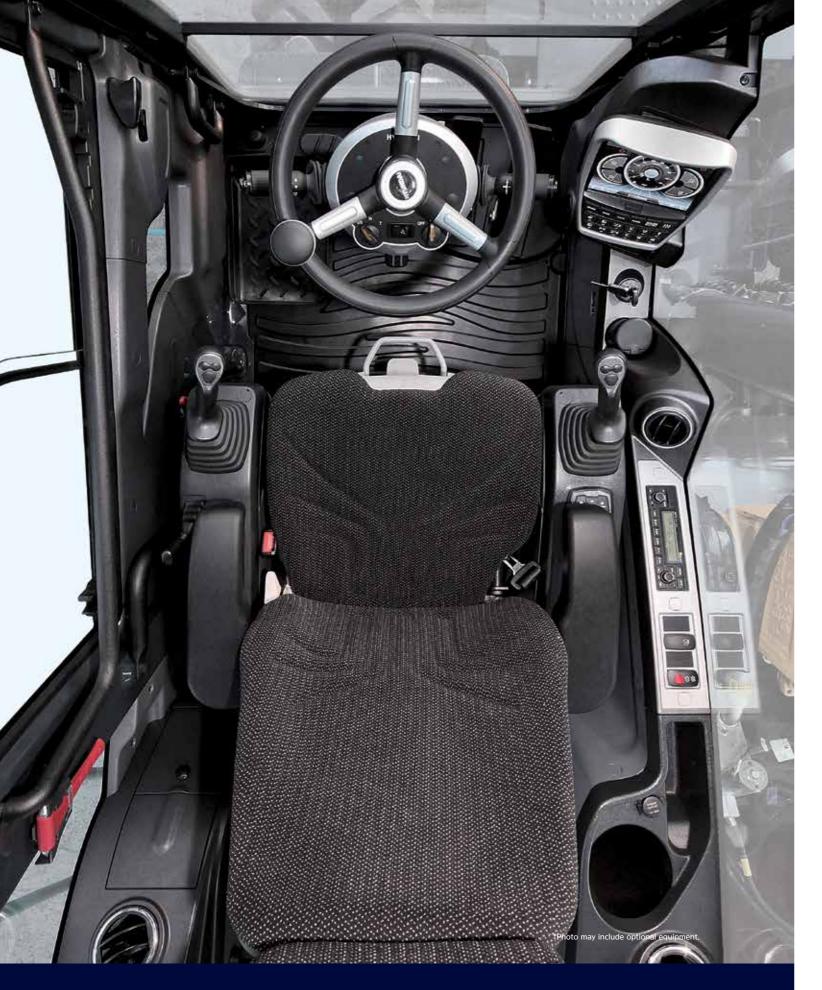
The upper and lower structure and attachments of the HW Series have higher durability than demanded on the site, as proven through numerous tests including road tests and virtual simulation. The wear resistance of the bucket has been improved by use of new material.





Hi-grade (High-pressure) Hoses

The HW Series uses high-pressure hoses with improved heat and pressure resistance, greatly increasing the durability of the equipment.



New Air Conditioning System

With further improved air conditioning and heating, the HW Series increases the APTC capacity by 15% to provide a pleasant environment for operators all the time. The ventilation was designed such that warm and cool air even reach operators' faces (increasing their work satisfaction) or allowing pleasant working environment.

INFOTAINMENT FRONTIER

Enhanced Instrument Panel for Easier Monitoring

Many electronic functions are concentrated on the most convenient spot for operators to ensure work efficiency. The highly-advanced infotainment system, a product of HHI's intensive information technology, enables both productivity and pleasant work at the same time! The HW Series of HHI provides higher value and pleasure to customers.



Intelligent and Wide Cluster

The 8-inch capacitive-type display (like smartphone display) of the HW Series is 15% larger than the previous model, delivering excellent legibility. The centralized switches on the display allow convenience of checking the urea level and temperature outside the cabin. The audio AUX, air conditioner, heater interoperation, wiper, lamp, overload warning, travel, alarm and inclination sensor also maximize operator's convenience.



Haptic Control

The integrated jog shuttle-type haptic controller applies to the accelerator, remote air conditioner controller, and operate cluster, allowing convenient operation. In the event of failure of the haptic switch, the emergency mode is activated on the cluster to ensure fail-safe function.



New Audio System

Radio player, USB-based MP3 player, integrated Bluetooth hands-free feature, and built-in microphone allow convenient phone calls while in work and in transit. The radio player was moved to the right side from the rear, allowing easier access.

Wi-Fi Direct with Smart Phone (Miracast)

The Miracast system based on Wi-Fi of the operator's smart phone enables easy and convenient use of various features of the smart phone on the big screen including navigation, web surfing, viewing of videos, and listening to music. (For Android mobile phone now)



11

Proportional Auxiliary Hydraulic System

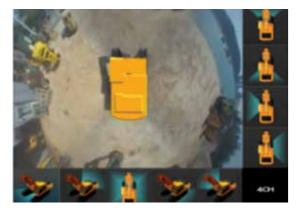
- \cdot Opt: Proportional control switch for better speed control
- \cdot Enlarge the operation convenience

 $\mathbf{0}$

MODERN COMFORT, SIMPLE AND SAFE SOLUTION

New Cabin for More Comfort

Low noise, low vibration, and ergonomic design make the cabin space more comfortable and pleasant! With focus on safety and convenience of operators, the HW Series allows rapid and safe equipment inspection anytime and anywhere, providing an optimal environment for operators to work.



AAVM (Advanced Around View Monitoring) Camera System (Option)

The HW Series has a state-of-the-art AAVM video camera system to secure field of vision for operators in all directions, thereby preventing accidents. Operators can easily check the workplace in the front and rear and to the right and left.



- * AVM (Around View Monitoring): Secure field of vision in all directions by nine views including 3D bird's eye view and 2D/4CH view.
- * IMOD (Intelligent Moving Object Detection): Inform when people or dangerous objects are detected within the range of operation (recognition distance: 5 m).



Easy Access to DEF/AdBlue® Supply System

The DEF/AdBlue® tank is installed inside the tool box and its inlet is remotely located for easy access and convenient supply. Warning of overfill is given by a red lamp signal.



Hi-mate (Remote Management System) (Option)

Hi-mate, Hyundai's proprietary remote management system, provides operators and dealer service personnel access to vital service and diagnostic information on the machine from any computer with internet access. Users can pinpoint machine location using digital mapping and set machine work boundaries, reducing the need for multiple service calls. Hi-mate saves time and money for the owner and dealer by promoting preventative maintenance and reducing machine downtime.

* Operation of the system may be affected by the condition of telecommunication signal



Swing Lock System (Option)

Swing Lock System is provided to maintain stability when swing movement needs to be limited, improving operating speed and productivity.

Fine Swing Control (Option)

Fine swing control is available for customer's convenience when users want to control fine swing.

SPECIFICATIONS

ENGINE			
Maker / N	Vlodel		Cummins QSB6.7
Type	/pe		Water-cooled, 4-cycle diesel, 6-cylinder in-line, Direct injection, Turbocharged, Charge air cooled, Low emission
Rated	SAF	J1995 (gross)	180 HP (134kW) at 1,800 rpm
flywheel	SAL	J1349 (net)	171 HP (127kW) at 1,800 rpm
horse	DIN	6271/1 (gross)	182 PS (134kW) at 1,800 rpm
power		6271/1 (net)	173 PS (127kW) at 1,800 rpm
Max. tord	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 di	Piston displacement		6,700 cc (409 in3)
Batteries Starting motor Alternator			2 x 12 V x 100 AH
			24V-4.8kW
			24V-95 Amp

HYDRAULIC SYSTEM

MAIN PUMP	
Туре	Two variable displacement piston pumps
Max. flow	2 X 172 L/min (45.4 US gpm/37.8 UK gpm)
Sub-pump for pilot circuit	Gear pump

Cross-sensing and fuel saving pump system

HYDRAULIC MOTORS	

Travel	Bent - axis pistons motor with brake valve and parking brake
Swing	Axial piston motor with automatic brake

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	285 kgf/cm ² (4,050 psi)
	Pilot circuit	40 kgf/cm ² (570 psi)
	Service valve	Installed

HYDRAULIC CYLINDERS

TIT DIVIOLIC CI ENTDERS		
	Boom: 2-110 x 1,090 mm (4.1" x 42.9")	
	Arm: 1-115 x 1,235 mm (4.72" x 53.3")	
	Bucket: 1-105 x 995 mm (4.3" x 39.17")	
No. of cylinder bore X stroke	Blade: 2-110 x 235 mm (4.3" x 9.25")	
	Outrigger: 2-125 x 463 mm (4.9" x 18.7")	
	2-PCS boom: 2-110 x 960mm (4.5" x 37.79")	
	Adjust(boom): 1-160 x 650mm (6.29" x 25.59")	

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

	Max. drawbar pull		10,720 kgf (23,636 lbf)
	Travel speed	1st	9.5 km/h
		2nd	35 km/h
	Gradeability		350(70 %)

Parking brake: Independent dual brake, front and rear axle full hydraulic power brake.

- Spring released and hydraulic applied wet type multiple disk brake.

- Transmission is locked at neutral position for parking, automatically.

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

provide difficult tiess drid latigueless operation.	
	Two joysticks with one safety lever
Pilot control	(LH): Swing and arm,
	(RH): Boom and bucket (ISO)

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

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

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

	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			
	Swing speed	9.3rpm			

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

Min. turning radius	6.300 mm(20' 8"
IVIIII. LUITIIIII III TAGIUS	0,300 111111(20 6

COOLANT & LUBRICANT CAPACITY					
Re-filling		liter	US gal	UK gal	
Fuel tank		290	76.6	63.8	
Engine coolan	t	19.5	5.2	4.3	
Engine oil		23.7	6.26	5.21	
Swing device -	Swing device - gear oil (OPT)		1.64 (1.3)	1.36 (1.09)	
Swing device -	Swing device - greese (OPT)		(0.32)	(0.26)	
Axle	Front	15.5	4.09	3.41	
AXIE	Rear	17.5	4.62	3.85	
Hydraulic system (including tank)		270	71.3	59.4	
Hydraulic tank		125	33.0	27.5	
DEF/AdBlue®		27	7.1	5.9	

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 stabillity when digging and lifting. Can be mounted on the front/or the rear.	

Operating weight, including 5,000mm (16' 5") One-piece boom, 2,200mm (7' 3") arm, SAE heaped 0.70 m³ (0.91 yd³) backhoe bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

OPERATING WEIGHT				
Undercarriage	Mono boom			
Rear dozer blade	17,100 kg (37,700 lb)			
Rear outrigger	17,250 kg (38,030 lb)			
Front outrigger and rear blade	18,050 kg (39,790 lb)			
Front blade and rear outrigger	18,100 kg (39,900 lb)			
Four outrigger	18,200 kg (40,120 lb)			

BUCKET SELECTION GUIDE & DIGGING FORCE













SAE heaped m^3 (yd³)

0.70 (0.92) 0.76 (0.99)

1.05 (1.37)

						Pocommondo	tion mm (ft.in)	
Capa	acity	Wic	Width			Necommenda	LIOIT IIIII (TL.III)	
m³ (,	mm (in)		Weight kg (lb)	5,000 (16' 5")	Mono Boom	5,100 (16' 9")	2-Piece Boom
SAE	CECE	Without	With	Ng (ID)	2,200	2,500	2,200	2,500
heaped	heaped	side cutters	side cutters		(7' 3") Arm	(8' 2") Arm	(7' 3") Arm	(8' 2") 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)	•	•	•	•
0.70 (0.92)	0.60 (0.78)	1,020 (40.2)	1,110 (43.7)	600 (1,320)	•			
0.76 (0.99)	0.65 (0.85)	1,090 (42.9)	1,180 (46.5)	620 (1,370)		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)				
@0.75 (0.98)	0.65 (0.85)	1 820 (71 7)	_	540 (1 190)	•		•	

[■] Heavy duty bucket

Booms and arms are welded with a low-stress, full-box section design. 2.2m(7'3") & 2.5m(8'2") arms are available

GGING FOR	Œ				
Λ	Length	mm (ft.in)	2,200 (7' 3")	2,500 (8' 2")	Damaauli
Arm	Weight	kg (lb)	750 (1,650)	810 (1,790)	Remark
Bucket digging force		kN	98.1 [106.5]	98.1 [106.5]	
	SAE	kgf	10,000 [10,860]	10,000 [10,860]	
		lbf	22,050 [23,940]	22,050 [23,940]	
	ISO	kN	113.4 [123.1]	113.4 [123.1]	
		kgf	11,560 [12,550]	11,560 [12,550]	
		lbf	25,490 [27,670]	25,490 [27,670]	[]:
	SAE kgf	kN	76.0 [82.5]	66.4 [72.1]	Power Boost
		kgf	7,750 [8,410]	9,770 [7,350]	
Arm		lbf	17,090 [18,550]	16,930 [16,210]	
crowd force	kN	kN	79.4 [86.2]	69.1 [75.1]	
	ISO	kgf	8,100 [8,790]	7,050 [7,650]	
	lbf	lbf	17,860 [19,390]	15,540 [16,870]	

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

O Ditch cleaning bucket

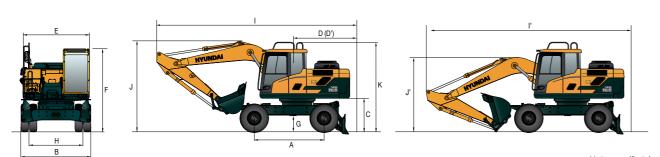
^{• :} Applicable for materials with density of 2,000 kgf/m³ (3,370 lbf/yd³) or less ■ : Applicable for materials with density of 1,600 kgf/m³ (2,700 lbf/yd³) or less

^{▲ :} Applicable for materials with density of 1,100 kgf/m³ (1,850 lbf/yd³) or less

DIMENSIONS & WORKING RANGE

HW160 MONO BOOM DIMENSIONS

5.0 m (16' 5") Mono boom, 2.2 m (7' 3") Arms, Rear dozer

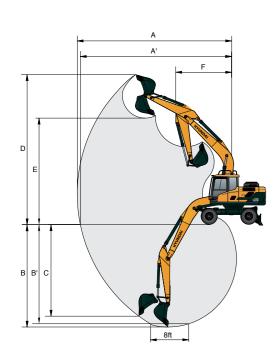


Α	Wheel base	2,600 (8' 6")
В	Overall width	2,500 (8' 2")
C	Ground clearance of counterweight	1,270 (4' 2")
D	Rear-end distance	2,430 (8' 0")
D'	Rear-end swing radius	2,430 (8' 0")
Е	Upperstructure width	2,475 (8' 1")
F	Overall height of cab	3,190 (10' 6")
G	Min. ground clearance	340 (1' 1")
Н	Tread	1,944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

	Arm length	2,200 (7' 3")	2,500 (8' 2")
I	Overall length (Traveling position)	8,400 (27' 7")	8,390 (27' 6")
ľ	Overall length (Shipping position)	8,490 (27' 10")	8,410 (27' 7")
J	Overall height of boom (Traveling position)	3,460 (11' 4")	3,430 (11' 3")
J'	Overall height of boom (Shipping position)	3,180 (10' 5")	3,070 (10' 1")

Unit∶mm (ft·in)

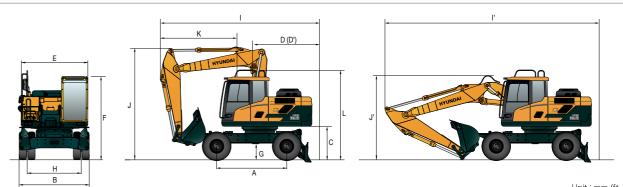
HW160 MONO BOOM WORKING RANGE



	Boom length		5,000 (16' 5")
	Arm length	2,200 (7' 3")	2,500 (8° 2")
Α	Max. digging reach	8,570 (28' 1")	8,860 (29' 1")
A'	Max. digging reach on ground	8,360 (27' 5")	8,650 (28' 5")
В	Max. digging depth	5,350 (17' 7")	5,650 (18' 6")
B'	Max. digging depth (8' level)	5,120 (16' 10")	5,450 (17' 11")
C	Max, vertical wall digging depth	4,710 (15' 5")	5,100 (16' 9")
D	Max. digging height	8,830 (29' 0")	9,040 (29' 8")
Е	Max. dumping height	6,210 (20' 4")	6,400 (21' 0")
F	Min. swing radius	3,310 (10' 10")	3170 (10˚ 5˚)

HW160 2-PIECE BOOM DIMENSIONS

5.1 m (16' 9") Mono boom, 2.2 m (7' 3") Arms, Rear dozer



UHIL	· 1111111	(11.1

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")
L	Overall height of guardrail	3,420 (11' 3")

	Boom length	5,100 (19' 9")						
	Arm length	2,200 (7' 3")	2,500 (8' 2")					
I	Overall length (Traveling position)	6,580 (21' 7")	6,600 (21' 8")					
ľ	Overall length (Shipping position)	8,520 (27' 11")	8,490 (27' 10")					
J	Overall height of boom (Traveling position)	3,990 (13' 1")	3,980 (13' 1")					
J'	Overall height of boom (Shipping position)	3,010 (9' 11")	2,980 (9' 9")					
K	End of attachment to steering wheel	3,310 (10' 10")	3,330 (10' 11")					

HW160 2-PIECE BOOM WORKING RANGE

E

			Unit∶mm (ft·in)
	Boom length		5,100 (16' 9")
	Arm length	2,200 (7' 3")	2,500 (8' 2")
Α	Max. digging reach	8,750 (28' 8")	9,040 (29' 8")
A'	Max. digging reach on ground	8,540 (28' 0")	8,840 (29' 0")
В	Max. digging depth	5,220 (17' 2")	5,520 (18' 1")
B'	Max. digging depth (8' level)	5,100 (16' 9")	5,410 (17' 9")
C	Max. vertical wall digging depth	4,400 (14' 5")	4,740 (15' 7")
D	Max. digging height	9,610 (31' 6")	9,860 (32' 4")
Е	Max. dumping height	6,900 (22' 8")	7,140 (23' 5")
F	Min. swing radius	3,380 (11' 1")	3,130 (10' 3")

LIFTING CAPACITY

Rating over-front Rating over-side or 360 degree

HW160 MONO BOOM

5.00 m (16' 5") Mono boom, 2.20 m (7' 3") arm equipped with 0.70 m³ (SAE heaped) bucket and dozer blade down.

				At max. reach								
Load po		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity		Reach
height m (ft)		J		J		P		J		Ū		m (ft)
7.5 m	kg									*3360	*3360	5.71
(25 ft)	lb									*7410	*7410	(18.7)
6.0 m	kg							*2480	*2480	*3300	2350	7.01
(20 ft)	lb							*5470	*5470	*7280	5180	(23.0)
4.5 m	kg					*4220	*4220	*3740	3000	*3340	1910	7.73
(15 ft)	lb					*9300	*9300	*8250	6610	*7360	4210	(25.4)
3.0 m	kg					*5340	4530	*4200	2860	*3420	1710	8.07
(10 ft)	lb					*11770	9990	*9260	6310	*7540	3770	(26.5)
1.5 m	kg					*6410	4200	*4690	2710	*3510	1670	8.07
(5 ft)	lb					*14130	9260	*10340	5970	*7740	3680	(26.5)
Ground	kg			*7510	*7510	*6920	4010	*4960	2600	*3590	1770	7.75
Line	lb			*16560	*16560	*15260	8840	*10930	5730	*7910	3900	(25.4)
-1.5 m	kg	*7150	*7150	*10060	7610	*6740	3960	*4800	2580	*3610	2080	7.04
(-5 ft)	lb	*15760	*15760	*22180	16780	*14860	8730	*10580	5690	*7960	4590	(23.1)
-3.0 m	kg	*10980	*10980	*8310	7790	*5700	4050			*3330	2920	5.78
(-10 ft)	lb	*24210	*24210	*18320	17170	*12570	8930			*7340	6440	(19.0)

5.00 m (16' 5") Mono boom, 2.50 m (8' 2") arm equipped with 0.70 m³ (SAE heaped) bucket and dozer blade down.

	[Load radius											At max. reach		
Load point height m (ft)		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)	6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach	
		Ū		Ū		Ū		Ū		J		Ū		m (ft)	
7.5 m	kg											*3140	3030	6.15	
(25 ft)	lb											*6920	6680	(20.2)	
6.0 m	kg							*2460	*2460			*2870	2150	7.35	
(20 ft)	lb							*5420	*5420			*6330	4740	(24.1)	
4.5 m	kg							*3510	3010			*2800	1770	8.04	
(15 ft)	lb							*7740	6640			*6170	3900	(26.4)	
3.0 m	kg			*7720	*7720	*5010	4560	*3990	2860	*1820	*1820	*2860	1590	8.36	
(10 ft)	lb			*17020	*17020	*11050	10050	*8800	6310	*4010	*4010	*6310	3510	(27.4)	
1.5 m	kg			*7170	*7170	*6160	4190	*4530	2690	*2380	1850	*3040	1540	8.37	
(5 ft)	lb			*15810	*15810	*13580	9240	*9990	5930	*5250	4080	*6700	3400	(27.5)	
Ground	kg			*7640	7490	*6800	3970	*4880	2570			*3380	1630	8.06	
Line	lb			*16840	16510	*14990	8750	*10760	5670			*7450	3590	(26.4)	
-1.5 m	kg	*6610	*6610	*10310	7490	*6770	3900	*4830	2520			*3440	1890	7.38	
(-5 ft)	lb	*14570	*14570	*22730	16510	*14930	8600	*10650	5560			*7580	4170	(24.2)	
-3.0 m	kg	*9600	*9600	*8780	7640	*5950	3950					*3270	2560	6.20	
(-10 ft)	lb	*21160	*21160	*19360	16840	*13120	8710					*7210	5640	(20.3)	
-4.5 m	kg			*5610	*5610										
(-15 ft)	lb			*12370	*12370										

- Lifting capacity are based on SAE J1097 and ISO 10567.
 Lifting capacity of the ROBEX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- 3. The load point is a hook located on the back of the bucket.
- 4. (*) indicates load limited by hydraulic capacity.

Rating over-front Rating over-side or 360 degree

HW160 2-PIECE BOOM

5.10 m (16' 9") 2-Piece boom, 2.20 m (7' 3") arm equipped with 0.70 m³ (SAE heaped) bucket and dozer blade down.

1		Load radius									At max. reach			
Load point height m (ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)	Capacity		Reach		
						P						m (ft)		
7.5 m	kg			*3510	*3510					*3250	*3250	5.97		
(25 ft)	lb			*7740	*7740					*7170	*7170	(19.6)		
6.0 m	kg			*3410	*3410	*3290	*3290			*3180	2420	7.21		
(20 ft)	lb			*7520	*7520	*7250	*7250			*7010	5340	(23.7)		
4.5 m	kg			*4060	*4060	*3570	3250			*3210	2000	7.91		
(15 ft)	lb			*8950	*8950	*7870	7170			*7080	4410	(26.0)		
3.0 m	kg			*5170	4880	*4040	3110			*3290	1820	8.24		
(10 ft)	lb			*11400	10760	*8910	6860			*7250	4010	(27.0)		
1.5 m	kg			*6260	4540	*4560	2960	*2940	2060	*3390	1780	8.25		
(5 ft)	lb			*13800	10010	*10050	6530	*6480	4540	*7470	3920	(27.1)		
Ground	kg			*6840	4370	*4900	2860			*3490	1890	7.93		
Line	lb			*15080	9630	*10800	6310			*7690	4170	(26.0)		
-1.5 m	kg	*9980	8290	*6780	4330	*4850	2830			*3510	2210	7.25		
(-5 ft)	lb	*22000	18280	*14950	9550	*10690	6240			*7740	4870	(23.8)		
-3.0 m	kg			*5920	4430									
(-10 ft)	lb			*13050	9770									

5.10 m (16' 9") 2-Piece boom, 2.50 m (8' 6") arm equipped with 0.70 m³ (SAE heaped) bucket and dozer blade down.

					At max, reach							
Load point height m (ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach
		Ð		P		ŀ		ŀ		ŀ		m (ft)
7.5 m	kg									*3050	3030	6.40
(25 ft)	lb									*6720	6680	(21.0)
6.0 m	kg					*2940	*2940			*2900	2220	7.56
(20 ft)	lb					*6480	*6480			*6390	4890	(24.8)
4.5 m	kg			*3730	*3730	*3350	3270			*2790	1860	8.23
(15 ft)	lb			*8220	*8220	*7390	7210			*6150	4100	(27.0)
3.0 m	kg	*7590	*7590	*4850	*4850	*3840	3110	*2640	2120	*2800	1690	8.54
(10 ft)	lb	*16730	*16730	*10690	*10690	*8470	6860	*5820	4670	*6170	3730	(28.0)
1.5 m	kg			*6000	4540	*4390	2940	*3260	2050	*2920	1650	8.55
(5 ft)	lb			*13230	10010	*9680	6480	*7190	4520	*6440	3640	(28.1)
Ground	kg	*6440	*6440	*6700	4330	*4790	2820	*2740	2000	*3180	1740	8.25
Line	lb	*14200	*14200	*14770	9550	*10560	6220	*6040	4410	*7010	3840	(27.1)
-1.5 m	kg	*9290	8160	*6780	4260	*4850	2780			*3340	2010	7.59
(-5 ft)	lb	*20480	17990	*14950	9390	*10690	6130			*7360	4430	(24.9)
-3.0 m	kg			*6130	4330	*4170	2850					
(-10 ft)	lb			*13510	9550	*9190	6280					

- 1. Lifting capacity are based on SAE J1097 and ISO 10567.
- 2. Lifting capacity of the ROBEX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- 3. The load point is a hook located on the back of the bucket.
- 4. (*) indicates load limited by hydraulic capacity.