

# HW140A

With EU Stage V Engine Installed



\* Photo may include optional equipment.

#### Gross Power

129 kW (173 hp) at 2,200 rpm

#### Net Power

127 kW (170 hp) at 2,200 rpm

#### Operating Weight

Mono boom | 14,900kg (32,850 lb)  
2-Piece boom | 15,860kg (34,960 lb)

# WHAT'S NEWEST AND BEST

## THE BEST PRODUCTIVITY AND FUEL EFFICIENCY

- EU STAGE V Engine **NEW**
- Load Sensing Hydraulic System (LUDV) **NEW**
- Reversible Fan **NEW**
- Attachment Flow Control **Option**
- ECO Gauge
- Enlarged Air Inlet with Grill Cover
- Cycle Time Improvement

## ULTIMATE DURABILITY

- Durable Cooling Module
- Reinforced Pins, Bushings and Polymer Shims
- Better Weight Balance
- Hi-grade (High-pressure) Hoses
- Enhanced Axle Durability

## EASY CONTROL AND COMFORTABLE OPERATION

- FNR and Ram lock switch on joystick **NEW**
- Bucket-Clamshell Adaptation **NEW Option**
- Proportional Joysticks and Pedal Control **NEW Option**
- Ride Control **NEW Option**
- Trailer Hitch Preparation **NEW Option**
- Efficient Climate Control **NEW Option**
- Tiltrotator Preparation **NEW Option**
- Automatic digging brake **NEW Option**
- Joystick steering **NEW Option**
- Swing Lock System **Option**
- Fine Swing Control **Option**
- Proportional Auxiliary Hydraulic Lines
- Intelligent and Wide Cluster
- Jog Dial Module
- USB-MP3-Handsfree Audio System

## THE ULTIMATE SAFE ENVIRONMENT

- Auto Safety Lock **NEW**
- Electronic Swing Parking Brake Control **NEW**
- Radar with 2nd Monitor **NEW**
- Rear and Mirror view Camera **NEW Option**
- AAVM (Advanced Around View Monitoring) Camera System **Option**
- Cruise Control & Speed Limiter **NEW Option**
- Seatbelt Warning Signal
- Cabin Suspension Mount

## HW140A

## SERVICEABILITY AND TELEMATICS

- Hi MATE **Option**
- ECD(Engine Connected Diagnostics) **NEW**
- Mobile Fleet App
- HCE-DT Air **NEW**
- Easy Access to DEF/AdBlue® Supply System
- Longer Lasting Filter



\*Photo may include optional equipment.



# THE BEST PRODUCTIVITY AND FUEL EFFICIENCY

HW A Series is equipped with eco-friendly, high-performance engines that meet the EU Stage V emission requirements.



\*Photo may include optional equipment.

## ENVIRONMENTALLY FRIENDLY FUEL EFFICIENCY

### Reversible Fan **NEW**

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



### Attachment Flow Control

**Option**

The HW A Series optimizes attachments for effective flow rate setting depending on attachments (ten breaker types and ten crusher types), enabling various operations matching the site environments.



### ECO Gauge

The operator can easily check the fuel consumption status from the ECO GAUGE in the cluster. Hourly and daily based fuel consumption can be checked in the detailed menu as well.



### Enlarged Air Inlet with Grill Cover

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



## EU STAGE V CERTIFIED ENGINE

Cummins B4.5 engine is satisfying the most strict environmental emission regulation in the world. (Reduction in PM 60%)

### EU STAGE V Engine **NEW**

Now in its fourth decade of continuous improvement, the B4.5 for 2019 features an EGR-free design that delivers 5 percent more power and 31 percent more peak torque than the current model. Increased fuel economy and longer maintenance intervals contribute to a reduced cost of operation.



### Load Sensing Hydraulic System (LUDV) **NEW**

It can minimize hydraulic shock phenomenon at combined operation and provide improved combined controllability especially travel with attachment.

### Cycle Time Improvement

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



# ULTIMATE DURABILITY

The true value of the HW A Series lies in its durability. The robust upper and lower frame structure can endure external shock and heavy work loads. Attachments performance has been proven through rigorous field testing. No matter how tough the working environment is, you can always rely on the HYUNDAI Excavator A Series.



## Durable Cooling Module

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

## Better weight balance

The upper and lower frames has been moved forward from the center of the swing and the swing support height has been lowered to optimize weight balance and reduce the tail swing radius.



## Reinforced Pins, Bushings and Polymer Shims

The HW A 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.



Chrome Coated Pins



Dimple bush



Polymer Shim

## Hi-grade (High-pressure) Hoses

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



## Enhanced Axle Durability

HW140A applied larger capacity axle than previous series to offer more reliable performance and longer durability.



\*Photo may include optional equipment.

\*Photo may include optional equipment.



# EASY CONTROL AND COMFORTABLE OPERATION

Many electronic functions are concentrated on the most convenient spot for operators to improve work efficiency. The highly-advanced infotainment system, a product of HCE's intensive information technology development, enables both productivity and comfort while working! The HW A Series is designed with the operator in mind.

HYUNDAI

## FNR and Ram Lock Switch on Joystick **NEW** **Option**

It is easy to control FNR and Ram Lock, because the switches for the options are located on joystick.



Ram Lock Switch

FNR Switch

## Bucket-Clamshell Adaptation **NEW** **Option**

To use the clamshell grab, various parts including the 3 way valve are installed on equipment. The equipment can use the clamshell grab instead of the bucket.

## Efficient Climate Control **NEW** **Option**

With further improved air conditioning and heating, the HW A 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.



## Tiltrotator Preparation **NEW** **Option**

It can maximize the utilization of the equipment in a limited space, helping to improve task efficiency and task productivity.

## Proportional Auxiliary Hydraulic Lines

Proportional control switch with better speed control helps operators to enlarge the operation convenience whenever they do time-consuming work. And this function can be switched with pedal valve in cluster setting menu. Newly added detent function allows an operator to continue using 2 way piping flow even if the operator does not keep pressing proportional control switch.

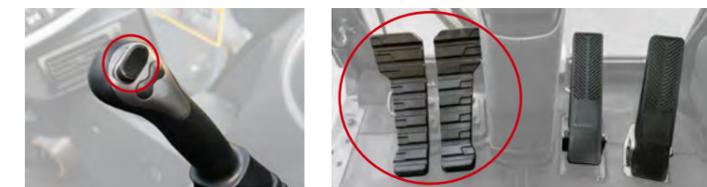
## Jog Dial Module

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



## Proportional Joysticks and Pedal Control **NEW** **Option**

Attachments can be controlled by proportional switch on the joystick or pedal for the attachments.



## Trailer Hitch Preparation **NEW** **Option**

Trailer Hitch Preparation gives electric, hydraulic connectors for easily mounting a hitch hook.



## Ride Control **NEW** **Option**

It helps the operator to drive smoothly by reducing the front attachment vibration. It also provides Boom Floating Function.



## Automatic digging brake **NEW** **Option**

While mark on this option sign on cluster, the brake operates without pushing brake pedal.



## Joystick steering **NEW** **Option**

While mark on this option sign on cluster, the joystick like the steering wheel can control wheels.



## 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**

This option enables fine swing movement at the start and stop of operation.

## Intelligent and Wide Cluster

The 8" capacitive-type display (like smart phone display) of HW A Series is delivering excellent legibility. The centralized switches on the display allow convenience of checking the urea level and temperature outside the cabin.



## USB-MP3-Handsfree 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.



# HW140A with advanced technology ensures our safety on a construction site.



HW A Series excavators are products of HCE's spirit of initiative, creativity, and strong drive. HCE engineers, who are the best in the industry, have worked tirelessly to offer a zero-defect product. The new HW A Series reflects customers' needs in the field gleaned by thorough monitoring.

## Auto Safety Lock **NEW**

It prevents unintended operation. If operator unlock safety knob position when RCV lever is pressed, excavator is not controlled by RCV lever.



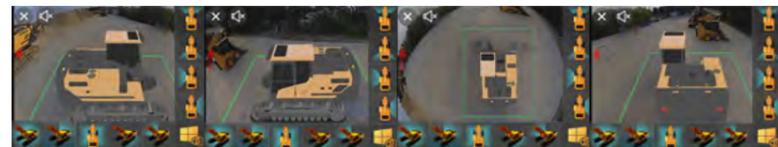
## Electronic Swing Parking Brake Control **NEW**

An electronic valve and control system is applied to improve safety and utilization. The opening and closing time of the swing brake valve is controlled according to the sensing and control system.

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

HW A 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.

- **AAVM**(Advanced 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).



## Radar with 2nd Monitor **NEW**

The rear radar can provide excellent detection performance in any weather conditions, and the operator can check the alarm, detection distance and other visual information (if rear camera is installed) on the second monitor in real time.



## Rear and Mirror View Camera **NEW Option**

Simple type mirror view with rear view camera option is available. This option helps the operator cover visual blind spot on the right side.



## Cruise Control & Speed Limiter **NEW Option**

HW A Series has an option to keep the driving speed without accelerator pedal and an option to limit max speed for local speed regulations.

## Seatbelt Warning Signal

If the seatbelt is not buckled when the ignition key is turned, an alarm is triggered in intervals along with a continuous visual alert. This emphasises our priority for operator safety.

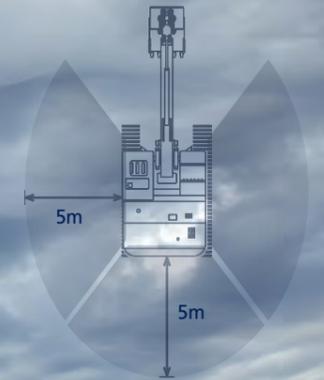
## Cabin Suspension Mount

With a low-vibration design by the coil spring and damper inside the mount, the cab suspension mount of HW A Series reduces noise inside the cabin and improves durability, providing a comfortable operation space that lessens operators' fatigue.



# THE ULTIMATE SAFE ENVIRONMENT

The true value of HW A Series lies in its safety. You can focus on your work with confidence with safety devices designed to take into account the nature of your work environment.



\* AAVM (Option applied)



\*Photo may include optional equipment.



# SERVICEABILITY AND TELEMATICS

IoT / ICT / AI-based digital technology.

Creating a smart construction site. Maximizes connectivity, productivity, and safety for successful businesses.



## Hi MATE

Option

### IT'S CONVENIENT, EASY AND VALUABLE

Hi MATE Hyundai's newly developed remote management system, utilizes GPS-satellite technology to provide customers with the highest level of service and product support available. Hi MATE enables users to remotely evaluate machine performance, access diagnostic information, and verify machine locations at the touch of a button.

### WHAT ARE THE BENEFITS



#### Increase Productivity

It helps you operate machines in efficient. You can check the difference between total engine hours and actual working hours. See how productive your machines are and plan any required cost saving solutions. Hi MATE offers working information such as working / idling hours, fuel consumption and rate.



#### Convenient and Easy Monitoring

There is nothing much to do to monitor your machines. Just log on to the Hi MATE website or mobile application. Hi MATE allows you to watch your machines whenever and wherever you are.



#### Security

Protect your machines from theft or unauthorized usage with Hi MATE. If the machine moves out of the Geo-fence boundary, you will get alerts.

### ECD(Engine Connected Diagnostics) **NEW** Option

ECD will support the after sales technicians and dealers with a diagnostics report (via e-mail, mobile, app or Hi MATE) on the engine performance. This will help after sales technicians arrive on site with the necessary tools and parts to fix troubles in one visit.

ECD is an integrated remote diagnostics service between Cummins cloud and Hi MATE cloud.



### Mobile Fleet App. **Option**

The new Mobile App is optimized to fleet management. It provides productivity, health insights based on telematics technology and enables fleet owner just focus on most wanted equipment in view of economical usage, utilization, fault codes and maintenance.



'Hi MATE Fleet Manager' App

### HCE-DT Air **NEW**

HCE-DT Air connects you and your equipment wirelessly via smartphone and laptop right on site. You can diagnose root causes and troubleshoot for fault codes through the connection.

### Easy Access to DEF/AdBlue® Supply System

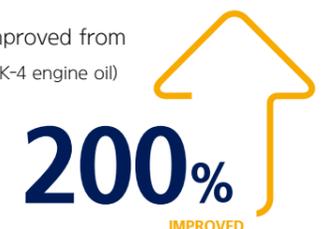
The DEF/AdBlue® tank is installed inside the tool box and its inlet is remotely located for easy access and convenient supply. Warning of overflow is given by a red lamp signal.



### 2X Longer Lasting Filter

The length of product life period is improved from 500 hours to 1,000hours. (when using CK-4 engine oil)

- Engine Oil Filter (to 800 hours)
- Engine Oil (to 800 hours)
- Pre-filter
- Fuel Filter



\*Photo may include optional equipment.

# SPECIFICATIONS

## ENGINE

Maker / Model	CUMMINS / B4.5
Type	4 cylinder, water cooled, 4-cycle, turbo-charged charge air cooled, direct injection, electronic controlled diesel engine.
Gross Power	129 kW (173 hp) at 2,200 rpm
Net Power	127 kW (170 hp) at 2,200 rpm
Max. Power	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)

## HYDRAULIC SYSTEM

Advanced Load Sensing System(LUDV)  
Load independent flow sharing

## MAIN PUMP

Type	Variable displacement pump
Max. flow	230 lpm @ 1,600 rpm

## AUX PUMP FOR STEERING OR ROTATION PIPING

Type	Piston pumps
Max. flow	50 lpm

## HYDRAULIC MOTORS

Travel	Bent - axis pistons motor
Swing	Radial Piston Motor

## RELIEF VALVE SETTING

Implement circuits	350 kgf/cm <sup>2</sup> (4,970 psi)
Travel	380 kgf/cm <sup>2</sup> (5,400 psi)
Power boost (boom, arm, bucket)	380 kgf/cm <sup>2</sup> (5,400 psi)
Swing circuit	285 kgf/cm <sup>2</sup> (4,050 psi)
Pilot circuit	40 kgf/cm <sup>2</sup> (570 psi)
Service valve	Installed

## HYDRAULIC CYLINDERS

No. of cylinder bore X stroke	Boom: 2-105 x 1,105 mm
	Arm: 1-115 x 1,138 mm
	Bucket: 1-100 x 850 mm
	Blade: 2-100 x 241 mm
	Outrigger: 2-110 x 446 mm
	2-PCS boom: 2-105 x 992 mm Adjust(boom): 1-145 x 634 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	8,163 kgf
Travel speed	1st 9.5 km/h
	2nd 35 km/h or 20 km/h (Option)
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)
---------------	--

## CONTROL

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	9.00-20-14PR, Dual (Tube type)
(Optional)	9.00-20, Dual (Solid type)
	10.00-20-14PR, Dual (Tube type)

## STEERING SYSTEM

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

Min. turning radius	6,270 (20' 7") mm
---------------------	-------------------

## SWING SYSTEM

Swing motor	Fixed displacement radial piston motor
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	9.5 rpm

## SERVICE CAPACITIES

	liter	US gal	UK gal
Fuel tank	250	66.0	55.0
Engine coolant	19.5	5.2	4.3
Engine oil	11.0	2.9	2.4
Swing device - gear oil (OPT)	6.2 (5.0)	1.64 (1.3)	1.36 (1.09)
Swing device - grease (OPT)	(1.2)	(0.32)	(0.26)
Axle	Front	15.5	4.09
	Rear	17.5	4.62
Transmission	2.5	0.7	0.5
Hydraulic system (including tank)	204	53.9	44.9
Hydraulic tank	122	32.2	26.8
DEF/AdBlue®	48	12.7	10.6

## 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 4,600mm (15' 1") Mono boom, 4,710 (15' 5") 2-Piece boom, 2,450mm (8' 0") Arm, SAE heaped 0.71 m<sup>3</sup> (0.93 yd<sup>3</sup>) backhoe bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

## OPERATING WEIGHT

	Mono boom	2-Piece boom
Rear outrigger	14,900 kg (32,850 lb)	15,860 kg (34,960 lb)
Front outrigger and rear blade	15,120 kg (33,330 lb)	16,080 kg (35,450 lb)
Front blade and rear outrigger	15,900 kg (35,050 lb)	16,860 kg (37,170 lb)
Four outrigger	15,830 kg (34,900 lb)	16,790 kg (37,010 lb)
Front blade and rear blade	16,120 kg (35,540 lb)	17,080 kg (37,650 lb)

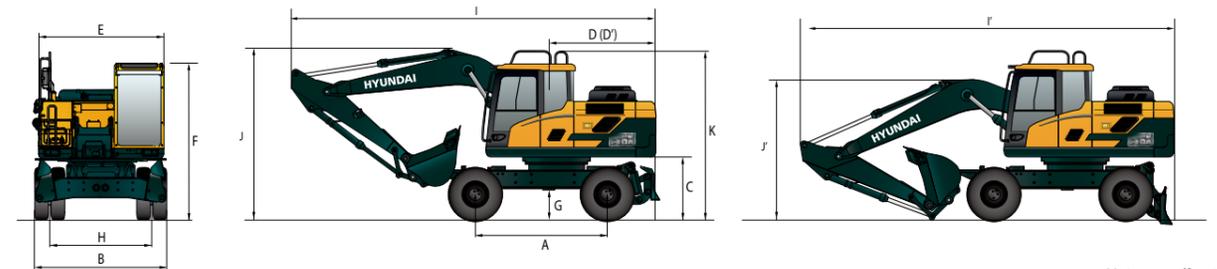
## AIR CONDITIONING SYSTEM

The air condition system for the machine contains the fluorinated greenhouse gas with global warming potential of R134a. (Global Warming Potential : 1430)  
The system hold 0.65kg refrigerant consisting of a CO<sub>2</sub> equivalent 0.93kg metric tonne. For more information, Please refer to the manual.

# DIMENSIONS & WORKING RANGE

## HW140A MONO BOOM DIMENSIONS

4.6 m (15' 1") 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

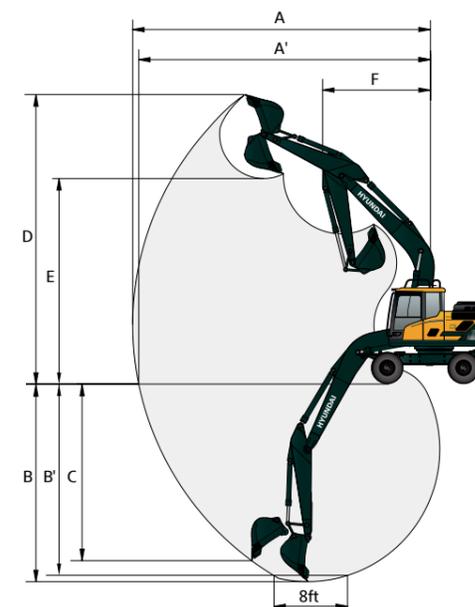


Unit : mm (ft · in)

Dimension	2,000 (6' 7")	2,450 (8' 0")	2,600 (8' 6")	3,100 (10' 2")
A Wheel base	2,600 (8' 6")			
B Overall width (STD)	2,530 (8' 4")			
C Ground clearance of counterweight	1,260 (4' 2")			
D Rear-end distance	2,150 (7' 1")			
D' Rear-end swing radius	2,170 (7' 1")			
E Upperstructure width	2,485 (8' 2")			
F Overall height of cab	3,255 (10' 8")			
G Min. ground clearance	390 (1' 3")			
H Tread	1,944 (6' 5")			
K Overall height of guardrail	3,475 (11' 5")			
Arm length	2,000 (6' 7")	2,450 (8' 0")	2,600 (8' 6")	3,100 (10' 2")
I Overall length (Traveling position)	7,740 (25' 5")	7,560 (24' 10")	7,470 (25' 2")	7,360 (24' 2")
I' Overall length (Shipping position)	7,600 (24' 11")	7,660 (25' 2")	7,670 (25' 2")	7,600 (24' 11")
J Overall height of boom (Traveling position)	3,420 (11' 3")	3,805 (12' 6")	3,925 (12' 11")	4,000 (13' 1")
J' Overall height of boom (Shipping position)	2,825 (9' 3")	3,030 (9' 11")	3,150 (10' 4")	3,520 (11' 7")

## HW140A MONO BOOM WORKING RANGE

Unit : mm (ft · in)

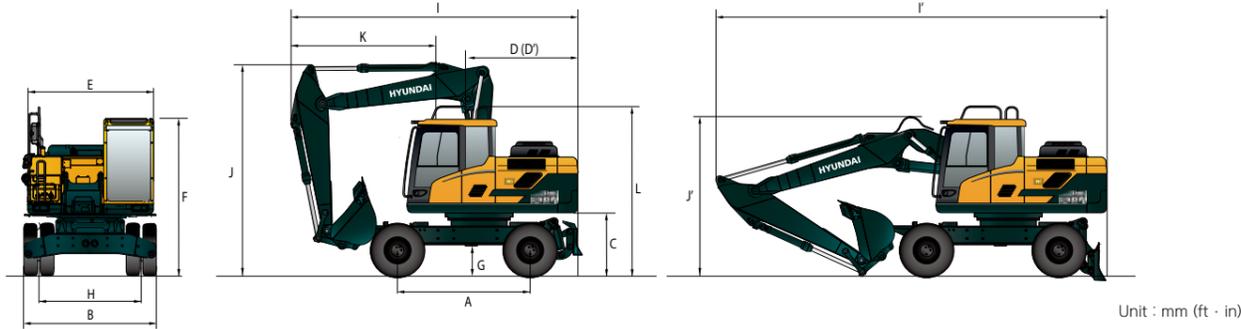


Dimension	2,000 (6' 7")	2,450 (8' 0")	2,600 (8' 6")	3,100 (10' 2")
Boom length	4,600 (15' 1")			
Arm length	2,000 (6' 7")	2,450 (8' 0")	2,600 (8' 6")	3,100 (10' 2")
A Max. digging reach	7,880 (25' 10")	8,310 (27' 3")	8,450 (27' 9")	8,910 (29' 3")
A' Max. digging reach on ground	7,640 (25' 1")	8,080 (26' 6")	8,230 (27' 0")	8,700 (28' 7")
B Max. digging depth	4,660 (15' 3")	5,110 (16' 9")	5,260 (17' 3")	5,760 (18' 11")
B' Max. digging depth (8' level)	4,400 (14' 5")	4,895 (16' 1")	5,060 (16' 7")	5,580 (18' 4")
C Max. vertical wall digging depth	4,200 (13' 9")	4,655 (15' 3")	4,800 (15' 9")	5,310 (17' 5")
D Max. digging height	8,540 (28' 0")	8,850 (29' 0")	8,940 (29' 4")	9,210 (30' 3")
E Max. dumping height	6,100 (20' 0")	6,400 (21' 0")	6,490 (21' 4")	6,760 (22' 2")
F Min. swing radius	2,670 (8' 9")	2,680 (8' 10")	2,690 (8' 10")	2,720 (8' 11")

# DIMENSIONS & WORKING RANGE

## HW140A 2-PIECE BOOM DIMENSIONS

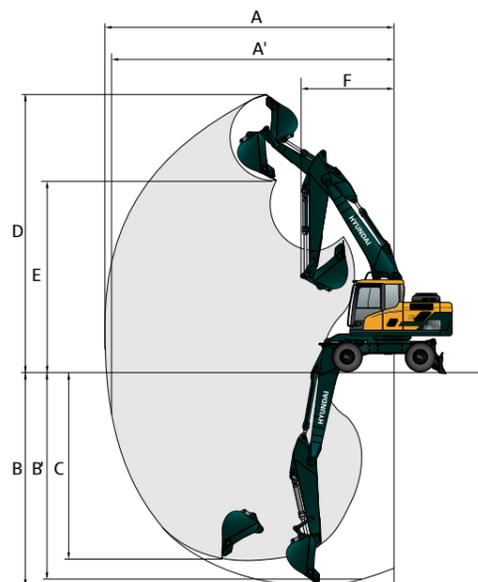
4.71 m (15' 5") 2-Piece boom, 2.0 m (6' 7"), 2.45 m (8' 0"), 2.6 m (8' 6") Arm, Rear dozer



A	Wheel base	2,600 (8' 6")
B	Overall width (STD)	2,530 (8' 4")
C	Ground clearance of counterweight	1,260 (4' 2")
D	Rear-end distance	2,150 (7' 1")
D'	Rear-end swing radius	2,150 (7' 1")
E	Upperstructure width	2,485 (8' 2")
F	Overall height of cab	3,255 (10' 8")
G	Min. ground clearance	390 (1' 3")
H	Tread	1,944 (6' 5")
L	Overall height of guardrail	3,475 (11' 5")

Boom length		4,710 (15' 5")		
Arm length		2,000 (6' 7")	2,450 (8' 0")	2,600 (8' 6")
I	Overall length (Traveling position)	5,840 (19' 2")	5,810 (19' 1")	5,785 (19' 0")
I'	Overall length (Shipping position)	7,770 (25' 6")	7,770 (25' 6")	7,780 (25' 6")
J	Overall height of boom (Traveling position)	4,000 (13' 1")	3,990 (13' 1")	4,000 (13' 1")
J'	Overall height of boom (Shipping position)	2,950 (9' 8")	3,000 (9' 10")	3,050 (10' 0")
K	End of attachment to steering wheel	2,750 (9' 0")	2,720 (8' 11")	2,690 (8' 10")

## HW140A 2-PIECE BOOM WORKING RANGE



Boom length		4,710 (15' 5")		
Arm length		2,000 (6' 7")	2,450 (8' 0")	2,600 (8' 6")
A	Max. digging reach	8,050 (26' 5")	8,490 (27' 10")	8,630 (28' 4")
A'	Max. digging reach on ground	7,820 (25' 8")	8,270 (27' 2")	8,420 (27' 7")
B	Max. digging depth	4,550 (14' 11")	5,000 (16' 5")	5,150 (16' 11")
B'	Max. digging depth (8' level)	4,430 (14' 6")	4,890 (16' 1")	5,040 (16' 6")
C	Max. vertical wall digging depth	3,930 (12' 11")	4,410 (14' 6")	4,555 (14' 11")
D	Max. digging height	9,120 (29' 11")	9,480 (31' 1")	9,600 (31' 6")
E	Max. dumping height	6,640 (21' 9")	6,990 (22' 11")	7,110 (23' 4")
F	Min. swing radius	2,620 (8' 7")	2,600 (8' 6")	2,650 (8' 8")

# LIFTING CAPACITY

Rating over-front Rating over-side or 360 degree

## HW140A MONO BOOM

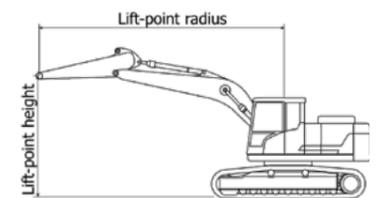
4.60 m (15' 1") Mono boom, 2.00 m (6' 7") arm equipped with STD counter weight, dozer up

Lift-point height m (ft)		Lift-point radius				At max. reach		Reach m (ft)
		1.5m (4.9ft)		3.0m (9.8ft)		Capacity		
6.0m	kg			*4,420	3,330	*3,330	2,640	5.15
19.7ft	lb			*9,740	7,340	*7,340	5,820	(16.9)
4.5m	kg			*4,790	3,230	3,560	2,020	6.08
14.8ft	lb			*10,560	7,120	7,850	4,450	(19.9)
3.0m	kg			5,500	3,010	3,490	1,960	6.53
9.8ft	lb			12,130	6,640	7,690	4,320	(21.4)
1.5m	kg			5,250	2,810	3,400	1,880	6.62
4.9ft	lb			11,570	6,190	7,500	4,140	(21.7)
0.0m	kg			5,120	2,700	3,340	1,820	6.34
0.0ft	lb			11,290	5,950	7,360	4,010	(20.8)
-1.5m	kg	*6,490	*6,490	*9,460	4,900			5.66
-4.9ft	lb	*14,310	*14,310	*20,860	10,800			(18.6)
-3.0m	kg			*6,990	5,080			4.37
-9.8ft	lb			*15,410	11,200			(14.3)

4.60 m (15' 1") Mono boom, 2.00 m (6' 7") arm equipped with Heavy counter weight, dozer up

Lift-point height m (ft)		Lift-point radius				At max. reach		Reach m (ft)
		1.5m (4.9ft)		3.0m (9.8ft)		Capacity		
6.0m	kg			*4,420	3,630	*3,330	2,900	5.15
19.7ft	lb			*9,740	8,000	*7,340	6,390	(16.9)
4.5m	kg			*4,790	3,540	*3,600	2,240	6.08
14.8ft	lb			*10,560	7,800	*7,940	4,940	(19.9)
3.0m	kg			*5,740	3,320	3,780	2,180	6.53
9.8ft	lb			*12,650	7,320	8,330	4,810	(21.4)
1.5m	kg			5,680	3,110	3,680	2,090	6.62
4.9ft	lb			12,520	6,860	8,110	4,610	(21.7)
0.0m	kg			5,550	3,000	3,620	2,040	6.34
0.0ft	lb			12,240	6,610	7,980	4,500	(20.8)
-1.5m	kg	*6,490	*6,490	*9,460	5,430			5.66
-4.9ft	lb	*14,310	*14,310	*20,860	11,970			(18.6)
-3.0m	kg			*6,990	5,610			4.37
-9.8ft	lb			*15,410	12,370			(14.3)

- Lifting capacity are based on ISO 10567.
- Lifting capacity 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.



# LIFTING CAPACITY



## HW140A MONO BOOM

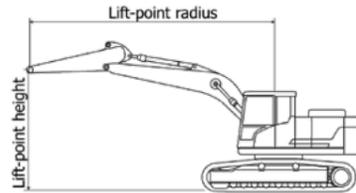
4.60 m (15' 1") Mono boom, 2.45 m (8' 0") arm equipped with STD counter weight, dozer up

Lift-point height m (ft)	Lift-point radius								At max. reach		
	1.5m (4.9ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		Capacity	Reach	
7.5m 24.6ft	kg lb								*2,890 *6,370	*2,890 *6,370	4.16 (13.6)
6.0m 19.7ft	kg lb			*3,880 *8,550	3,390 7,470				*2,390 *5,270	2,250 4,960	5.70 (18.7)
4.5m 14.8ft	kg lb			*4,330 *9,550	3,280 7,230	3,590 7,910	2,050 4,520		*2,250 *4,960	1,750 3,860	6.55 (21.5)
3.0m 9.8ft	kg lb			*7,850 *17,310	5,600 12,350	*5,330 *11,750	3,050 6,720	3,500 7,720	*2,260 *4,980	1,530 3,370	6.97 (22.9)
1.5m 4.9ft	kg lb			*5,690 *12,540	4,970 10,960	5,270 11,620	2,810 6,190	3,390 7,470	*2,410 *5,310	1,460 3,220	7.05 (23.1)
0.0m 0.0ft	kg lb			*6,760 *14,900	4,790 10,560	5,100 11,240	2,670 5,890	3,310 7,300	*2,740 *6,040	1,510 3,330	6.79 (22.3)
-1.5m -4.9ft	kg lb	*5,600 *12,350	*5,600 *12,350	*9,980 *22,000	4,800 10,580	5,060 11,160	2,640 5,820	3,300 7,280	1,730 3,810		6.16 (20.2)
-3.0m -9.8ft	kg lb			*7,990 *17,610	4,940 10,890	5,160 11,380	2,720 6,000		4,400 9,700	2,370 5,220	5.01 (16.4)

4.60 m (15' 1") Mono boom, 2.45 m (8' 0") arm equipped with Heavy counter weight, dozer up

Lift-point height m (ft)	Lift-point radius								At max. reach		
	1.5m (4.9ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		Capacity	Reach	
7.5m 24.6ft	kg lb								*2,890 *6,370	*2,890 *6,370	4.16 (13.6)
6.0m 19.7ft	kg lb			*3,880 *8,550	3,700 8,160				*2,390 *5,270	*2,390 *5,270	5.70 (18.7)
4.5m 14.8ft	kg lb			*4,330 *9,550	3,580 7,890	*3,790 *8,360	2,260 4,980		*2,250 *4,960	1,940 4,280	6.55 (21.5)
3.0m 9.8ft	kg lb			*7,850 *17,310	6,130 13,510	*5,330 *11,750	3,360 7,410	3,790 8,360	*2,260 *4,980	1,710 3,770	6.97 (22.9)
1.5m 4.9ft	kg lb			*5,690 *12,540	5,510 12,150	5,700 12,570	3,120 6,880	3,670 8,090	*2,410 *5,310	1,630 3,590	7.05 (23.1)
0.0m 0.0ft	kg lb			*6,760 *14,900	5,320 11,730	5,530 12,190	2,980 6,570	3,590 7,910	*2,740 *6,040	1,630 3,730	6.79 (22.3)
-1.5m -4.9ft	kg lb	*5,600 *12,350	*5,600 *12,350	*9,980 *22,000	5,330 11,750	5,490 12,100	2,940 6,480	3,590 7,910	*3,430 *7,560	1,940 4,280	6.16 (20.2)
-3.0m -9.8ft	kg lb			*7,990 *17,610	5,480 12,080	*5,350 *11,790	3,020 6,660		*4,450 *9,810	2,640 5,820	5.01 (16.4)

- Lifting capacity are based on ISO 10567.
- Lifting capacity 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.



## HW140A MONO BOOM

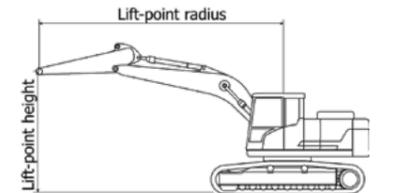
4.60 m (15' 1") Mono boom, 2.60 m (8' 6") arm equipped with STD counter weight, dozer up

Lift-point height m (ft)	Lift-point radius								At max. reach				
	1.5m (4.9ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		Capacity	Reach			
7.5m 24.6ft	kg lb								*2,660 *5,860	*2,660 *5,860	4.40 (14.4)		
6.0m 19.7ft	kg lb								*2,230 *4,920	2,140 4,720	5.87 (19.3)		
4.5m 14.8ft	kg lb					*4,180 *9,220	3,300 7,280	3,610 7,960	2,060 4,540	*2,100 *4,630	1,690 3,730	6.70 (22.0)	
3.0m 9.8ft	kg lb			*7,510 *16,560	5,670 12,500	*5,190 *11,440	3,070 6,770	3,510 7,740	1,970 4,340	*2,110 *4,650	1,480 3,260	7.12 (23.3)	
1.5m 4.9ft	kg lb			*6,430 *14,180	5,000 11,020	5,280 11,640	2,820 6,220	3,390 7,470	1,870 4,120	*2,250 *4,960	1,410 3,110	7.19 (23.6)	
0.0m 0.0ft	kg lb			*6,820 *15,040	4,770 10,520	5,090 11,220	2,660 5,860	3,300 7,280	1,790 3,950	*2,540 *5,600	1,460 3,220	6.94 (22.8)	
-1.5m -4.9ft	kg lb	*5,360 *11,820	*5,360 *11,820	*10,110 *22,290	4,760 10,490	5,040 11,110	2,620 5,780	3,290 7,250	1,770 3,900	3,060 6,750	1,660 3,660	6.33 (20.8)	
-3.0m -9.8ft	kg lb			*9,520 *20,990	*9,520 *20,990	*8,270 *18,230	4,900 10,800	5,120 11,290	2,690 5,930		4,130 9,110	2,220 4,890	5.21 (17.1)

4.60 m (15' 1") Mono boom, 2.60 m (8' 6") arm equipped with Heavy counter weight, dozer up

Lift-point height m (ft)	Lift-point radius								At max. reach				
	1.5m (4.9ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		Capacity	Reach			
7.5m 24.6ft	kg lb								*2,660 *5,860	*2,660 *5,860	4.40 (14.4)		
6.0m 19.7ft	kg lb								*2,230 *4,920	*2,230 *4,920	5.87 (19.3)		
4.5m 14.8ft	kg lb					*4,180 *9,220	3,610 7,960	*3,720 *8,200	2,280 5,030	*2,100 *4,630	1,870 4,120	6.70 (22.0)	
3.0m 9.8ft	kg lb			*7,510 *16,560	6,200 13,670	*5,190 *11,440	3,380 7,450	3,800 8,380	2,190 4,830	*2,110 *4,650	1,660 3,660	7.12 (23.3)	
1.5m 4.9ft	kg lb			*6,430 *14,180	5,530 12,190	5,710 12,590	3,130 6,900	3,680 8,110	2,080 4,590	*2,250 *4,960	1,580 3,480	7.19 (23.6)	
0.0m 0.0ft	kg lb			*6,820 *15,040	5,300 11,680	5,520 12,170	2,970 6,550	3,590 7,910	2,000 4,410	*2,540 *5,600	1,640 3,620	6.94 (22.8)	
-1.5m -4.9ft	kg lb	*5,360 *11,820	*5,360 *11,820	*10,110 *22,290	5,300 11,680	5,470 12,060	2,930 6,460	3,570 7,870	1,990 4,390	*3,140 *6,920	1,860 4,100	6.33 (20.8)	
-3.0m -9.8ft	kg lb			*9,520 *20,990	*9,520 *20,990	*8,270 *18,230	5,430 11,970	5,550 12,240	3,000 6,610		*4,400 *9,700	2,480 5,470	5.21 (17.1)

- Lifting capacity are based on ISO 10567.
- Lifting capacity 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.



# LIFTING CAPACITY



## HW140A MONO BOOM

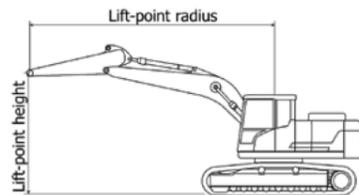
4.60 m (15' 1") Mono boom, 3.1 m (10' 2") arm equipped with STD counter weight, dozer up

Lift-point height m (ft)	Lift-point radius										At max. reach		
	1.5m (4.9ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		7.5m (24.6ft)		Capacity		Reach
	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	kg	lb	m (ft)
7.5m	kg										*2,150	*2,150	5.13
24.6ft	lb										*4,740	*4,740	(16.8)
6.0m	kg						*2,670	2,120			*1,860	1,850	6.43
19.7ft	lb						*5,890	4,670			*4,100	4,080	(21.1)
4.5m	kg						*3,310	2,090			*1,770	1,490	7.20
14.8ft	lb						*7,300	4,610			*3,900	3,280	(23.6)
3.0m	kg		*6,350	5,900	*4,690	3,130	3,530	1,990	*2,090	1,350	*1,790	1,320	7.58
9.8ft	lb		*14,000	13,010	*10,340	6,900	7,780	4,390	*4,610	2,980	*3,950	2,910	(24.9)
1.5m	kg		*9,370	5,150	5,330	2,860	3,400	1,870	2,400	1,310	*1,900	1,260	7.65
4.9ft	lb		*20,660	11,350	11,750	6,310	7,500	4,120	5,290	2,890	*4,190	2,780	(25.1)
0.0m	kg		*7,170	4,780	5,100	2,660	3,290	1,770			*2,120	1,290	7.42
0.0ft	lb		*15,810	10,540	11,240	5,860	7,250	3,900			*4,670	2,840	(24.3)
-1.5m	kg	*4,710	*4,710	*9,570	4,710	5,010	2,580	3,240	1,730		*2,570	1,440	6.85
-4.9ft	lb	*10,380	*10,380	*21,100	10,380	11,050	5,690	7,140	3,810		*5,670	3,170	(22.5)
-3.0m	kg	*7,920	*7,920	*9,090	4,790	5,040	2,610				3,430	1,840	5.84
-9.8ft	lb	*17,460	*17,460	*20,040	10,560	11,110	5,750				7,560	4,060	(19.1)

4.60 m (15' 1") Mono boom, 3.1 m (10' 2") arm equipped with Heavy counter weight, dozer up

Lift-point height m (ft)	Lift-point radius										At max. reach		
	1.5m (4.9ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		7.5m (24.6ft)		Capacity		Reach
	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	kg	lb	m (ft)
7.5m	kg										*2,150	*2,150	5.13
24.6ft	lb										*4,740	*4,740	(16.8)
6.0m	kg						*2,670	2,570			*1,860	*1,860	6.43
19.7ft	lb						*5,890	5,670			*4,100	*4,100	(21.1)
4.5m	kg						*3,310	2,530			*1,770	1,670	7.20
14.8ft	lb						*7,300	5,580			*3,900	3,680	(23.6)
3.0m	kg		*6,350	*6,350	*4,690	3,440	3,820	2,430	*2,090	1,520	*1,790	1,490	7.58
9.8ft	lb		*14,000	*14,000	*10,340	7,580	8,420	5,360	*4,610	3,350	*3,950	3,280	(24.9)
1.5m	kg		*9,370	5,680	5,760	3,170	3,680	2,310	*2,510	1,470	*1,900	1,420	7.65
4.9ft	lb		*20,660	12,520	12,700	6,990	8,110	5,090	*5,530	3,240	*4,190	3,130	(25.1)
0.0m	kg		*7,170	5,320	5,530	2,970	3,570	2,210			*2,120	1,460	7.42
0.0ft	lb		*15,810	11,730	12,190	6,550	7,870	4,870			*4,670	3,220	(24.3)
-1.5m	kg	*4,710	*4,710	*9,570	5,240	5,430	2,890	3,530	2,170		*2,570	1,630	6.85
-4.9ft	lb	*10,380	*10,380	*21,100	11,550	11,970	6,370	7,780	4,780		*5,670	3,590	(22.5)
-3.0m	kg	*7,920	*7,920	*9,090	5,320	5,460	2,920				*3,610	2,060	5.84
-9.8ft	lb	*17,460	*17,460	*20,040	11,730	12,040	6,440				*7,960	4,540	(19.1)

- Lifting capacity are based on ISO 10567.
- Lifting capacity 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.



## HW140A 2-PIECE BOOM

4.71 m (15' 5") 2-Piece boom, 2.00 m (6' 7") arm equipped with Heavy counter weight, dozer up

Lift-point height m (ft)	Lift-point radius										At max. reach	
	3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		Capacity		Reach			
	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	kg	lb	m (ft)			
7.5m	kg									*4,410	*4,410	3.69
24.6ft	lb									*9,720	*9,720	(12.1)
6.0m	kg					*4,210	3,650			*3,470	2,690	5.37
19.7ft	lb					*9,280	8,050			*7,650	5,930	(17.6)
4.5m	kg		*5,800	*5,800	*4,630	3,530	3,870	2,230		*3,200	2,060	6.26
14.8ft	lb		*12,790	*12,790	*10,210	7,780	8,530	4,920		*7,050	4,540	(20.6)
3.0m	kg				*5,580	3,290	3,780	2,160		3,170	1,810	6.71
9.8ft	lb				*12,300	7,250	8,330	4,760		6,990	3,990	(22.0)
1.5m	kg				5,670	3,070	3,680	2,070		3,070	1,730	6.79
4.9ft	lb				12,500	6,770	8,110	4,560		6,770	3,810	(22.3)
0.0m	kg		*4,830	*4,830	5,540	2,960	3,620	2,010		3,220	1,810	6.52
0.0ft	lb		*10,650	*10,650	12,210	6,530	7,980	4,430		7,100	3,990	(21.4)
-1.5m	kg		*9,500	5,380	5,540	2,960				3,780	2,110	5.86
-4.9ft	lb		*20,940	11,860	12,210	6,530				8,330	4,650	(19.2)

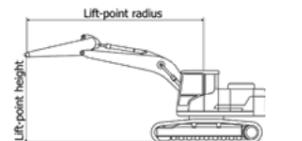
4.71 m (15' 5") 2-Piece boom, 2.45 m (8' 0") arm equipped with Heavy counter weight, dozer up

Lift-point height m (ft)	Lift-point radius										At max. reach	
	3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		Capacity		Reach			
	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	kg	lb	m (ft)			
7.5m	kg									*2,110	*2,110	4.78
24.6ft	lb									*4,650	*4,650	(15.7)
6.0m	kg					*3,050	3,050	*2,230	2,010	*1,780	*1,780	6.16
19.7ft	lb					*6,720	*6,720	*4,920	4,430	*3,920	*3,920	(20.2)
4.5m	kg					*3,550	3,350	*3,300	1,990	*1,690	1,450	6.95
14.8ft	lb					*7,830	7,390	*7,280	4,390	*3,730	3,200	(22.8)
3.0m	kg		*6,710	5,900	*4,540	3,070	3,520	1,880		*1,720	1,250	7.35
9.8ft	lb		*14,790	13,010	*10,010	6,770	7,760	4,140		*3,790	2,760	(24.1)
1.5m	kg		*5,980	5,100	5,390	12,780	3,370	1,750		*1,850	1,180	7.43
4.9ft	lb		*13,180	11,240	11,880	6,130	7,430	3,860		*4,080	2,600	(24.4)
0.0m	kg		*6,070	4,830	5,180	2,590	3,270	1,650		*2,140	1,220	7.18
0.0ft	lb		*13,380	10,650	11,420	5,710	7,210	3,640		*4,720	2,690	(23.6)
-1.5m	kg		*9,200	4,820	5,110	2,540	3,240	1,630		*2,710	1,410	6.59
-4.9ft	lb		*20,280	10,630	11,270	5,600	7,140	3,590		*5,970	3,110	(21.6)
-3.0m	kg				5,190	2,610						
-9.8ft	lb				11,440	5,750						

4.71 m (15' 5") 2-Piece boom, 2.60 m (8' 6") arm equipped with Heavy counter weight, dozer up

Lift-point height m (ft)	Lift-point radius										At max. reach		
	1.5m (4.9ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		7.5m (24.6ft)		Capacity		Reach
	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	kg	lb	m (ft)
7.5m	kg									*3,340	*3,340	4.70	
24.6ft	lb									*7,360	*7,360	(15.4)	
6.0m	kg						*3,560	3,560	*2,730	2,280	*2,330	2,210	6.10
19.7ft	lb						*7,850	*7,850	*6,020	5,030	*5,140	4,870	(20.0)
4.5m	kg						*4,050	3,610	*3,770	2,270	*2,170	1,770	6.90
14.8ft	lb						*8,930	7,960	*8,310	5,000	*4,780	3,900	(22.6)
3.0m	kg				*7,450	6,140	*5,050	3,350	3,810	2,170	*2,150	1,570	7.30
9.8ft	lb				*16,420	13,540	*11,130	7,390	8,400	4,780	*4,740	3,460	(23.9)
1.5m	kg						5,700	3,090	3,680	2,060	*2,250	1,510	7.37
4.9ft	lb						12,570	6,810	8,110	4,540	*4,960	3,330	(24.2)
0.0m	kg				*5,350	5,230	5,510	2,930	3,580	1,980	*2,480	1,560	7.13
0.0ft	lb				*11,790	11,530	12,150	6,460	7,890	4,370	*5,470	3,440	(23.4)
-1.5m	kg				*9,050	5,240	5,460	2,890	3,570	1,960	*2,970	1,760	6.53
-4.9ft	lb				*19,950	11,550	12,040	6,370	7,870	4,320	*6,550	3,880	(21.4)
-3.0m	kg						5,550	2,960					
-9.8ft	lb						12,240	6,530					

- Lifting capacity are based on ISO 10567.
- Lifting capacity 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.



# LIFTING CAPACITY



## HW140A MONO BOOM

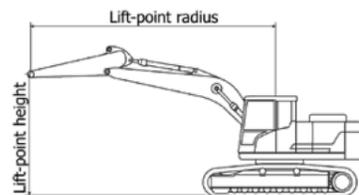
4.60 m (15' 1") Mono boom, 2.00 m (6' 7") arm equipped with STD counter weight, dozer down

Lift-point height m (ft)	Lift-point radius								At max. reach		
	1.5m (4.9ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		Capacity	Reach	
	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	kg (lb)	m (ft)	
6.0m 19.7ft	kg lb			*4,420 *9,740	3,670 8,090				*3,330 *7,340	2,910 6,420	5.15 (16.9)
4.5m 14.8ft	kg lb			*4,790 *10,560	3,570 7,870	3,560 7,850	2,240 4,940		*3,110 *6,860	2,190 4,830	6.08 (19.9)
3.0m 9.8ft	kg lb			5,500 12,130	3,350 7,390	3,490 7,690	2,180 4,810		3,050 6,720	1,900 4,190	6.53 (21.4)
1.5m 4.9ft	kg lb			5,250 11,570	3,140 6,920	3,400 7,500	2,090 4,610		2,940 6,480	1,810 3,990	6.62 (21.7)
0.0m 0.0ft	kg lb		*6,510 *14,350	5,520 12,170	5,120 11,290	3,020 6,660	3,340 7,360	2,040 4,500	3,090 6,810	1,890 4,170	6.34 (20.8)
-1.5m -4.9ft	kg lb	*6,490 *14,310	*6,490 *14,310	*9,460 *20,860	5,580 12,300	5,120 11,290	3,020 6,660		3,650 8,050	2,230 4,920	5.66 (18.6)
-3.0m -9.8ft	kg lb			*6,990 *15,410	5,760 12,700				*4,600 *10,140	3,300 7,280	4.37 (14.3)

4.60 m (15' 1") Mono boom, 2.00 m (6' 7") arm equipped with Heavy counter weight, dozer down

Lift-point height m (ft)	Lift-point radius								At max. reach		
	1.5m (4.9ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		Capacity	Reach	
	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	kg (lb)	m (ft)	
6.0m 19.7ft	kg lb			*4,420 *9,740	4,000 8,820				*3,330 *7,340	3,180 7,010	5.15 (16.9)
4.5m 14.8ft	kg lb			*4,790 *10,560	3,890 8,580	*3,600 *7,940	2,460 5,420		*3,110 *6,860	2,410 5,310	6.08 (19.9)
3.0m 9.8ft	kg lb			*5,740 *12,650	3,670 8,090	3,780 8,330	2,400 5,290		*3,140 *6,920	2,100 4,630	6.53 (21.4)
1.5m 4.9ft	kg lb			5,680 12,520	3,460 7,630	3,680 8,110	2,320 5,110		3,190 7,030	2,010 4,430	6.62 (21.7)
0.0m 0.0ft	kg lb		*6,510 *14,350	6,090 13,430	5,550 12,240	3,350 7,390	2,260 4,980		3,350 7,390	2,100 4,630	6.34 (20.8)
-1.5m -4.9ft	kg lb	*6,490 *14,310	*6,490 *14,310	*9,460 *20,860	6,150 13,560	5,540 12,210	3,340 7,360		3,960 8,730	2,470 5,450	5.66 (18.6)
-3.0m -9.8ft	kg lb			*6,990 *15,410	6,340 13,980				*4,600 *10,140	3,630 8,000	4.37 (14.3)

- Lifting capacity are based on ISO 10567.
- Lifting capacity 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.



## HW140A MONO BOOM

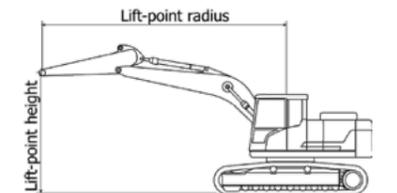
4.60 m (15' 1") Mono boom, 2.45 m (8' 0") arm equipped with STD counter weight, dozer down

Lift-point height m (ft)	Lift-point radius								At max. reach					
	1.5m (4.9ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		Capacity	Reach				
	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	kg (lb)	m (ft)				
7.5m 24.6ft	kg lb								*2,890 *6,370	*2,890 *6,370	4.16 (13.6)			
6.0m 19.7ft	kg lb					*3,880 *8,550	3,740 8,250		*2,390 *5,270	*2,390 *5,270	5.70 (18.7)			
4.5m 14.8ft	kg lb					*4,330 *9,550	3,620 7,980	3,590 7,910	2,270 5,000	*2,250 *4,960	1,940 4,280	6.55 (21.5)		
3.0m 9.8ft	kg lb					*7,850 *17,310	6,310 13,910	*5,330 *11,750	3,390 7,470	3,500 7,720	2,180 4,810	*2,260 *4,980	1,700 3,750	6.97 (22.9)
1.5m 4.9ft	kg lb					*5,690 *12,540	5,650 12,460	5,270 11,620	3,150 6,940	3,390 7,470	2,080 4,590	*2,410 *5,310	1,630 3,590	7.05 (23.1)
0.0m 0.0ft	kg lb					*6,760 *14,900	5,460 12,040	5,100 11,240	3,000 6,610	3,310 7,300	2,010 4,430	*2,740 *6,040	1,690 3,730	6.79 (22.3)
-1.5m -4.9ft	kg lb	*5,600 *12,350	*5,600 *12,350	*9,980 *22,000	5,480 12,080	5,060 11,160	2,960 6,530	3,300 7,280	2,000 4,410	3,190 7,030	1,940 4,280	6.16 (20.2)		
-3.0m -9.8ft	kg lb			*7,990 *17,610	5,620 12,390	5,160 11,380	3,050 6,720			4,400 9,700	2,650 5,840	5.01 (16.4)		

4.60 m (15' 1") Mono boom, 2.45 m (8' 0") arm equipped with Heavy counter weight, dozer down

Lift-point height m (ft)	Lift-point radius								At max. reach					
	1.5m (4.9ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		Capacity	Reach				
	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	kg (lb)	m (ft)				
7.5m 24.6ft	kg lb								*2,890 *6,370	*2,890 *6,370	4.16 (13.6)			
6.0m 19.7ft	kg lb					*3,880 *8,550	*3,880 *8,550		*2,390 *5,270	*2,390 *5,270	5.70 (18.7)			
4.5m 14.8ft	kg lb					*4,330 *9,550	3,940 8,690	*3,790 *8,360	2,490 5,490	*2,250 *4,960	2,140 4,720	6.55 (21.5)		
3.0m 9.8ft	kg lb					*7,850 *17,310	6,880 15,170	*5,330 *11,750	3,710 8,180	3,790 8,360	2,410 5,310	*2,260 *4,980	1,890 4,170	6.97 (22.9)
1.5m 4.9ft	kg lb					*5,690 *12,540	*5,690 *12,540	5,700 12,570	3,470 7,650	3,670 8,090	2,300 5,070	*2,410 *5,310	1,810 3,990	7.05 (23.1)
0.0m 0.0ft	kg lb					*6,760 *14,900	6,030 13,290	5,530 12,190	3,320 7,320	3,590 7,910	2,230 4,920	*2,740 *6,040	1,880 4,140	6.79 (22.3)
-1.5m -4.9ft	kg lb	*5,600 *12,350	*5,600 *12,350	*9,980 *22,000	6,050 13,340	5,490 12,100	3,290 7,250	3,590 7,910	2,230 4,920	*3,430 *7,560	2,150 4,740	6.16 (20.2)		
-3.0m -9.8ft	kg lb			*7,990 *17,610	6,200 13,670	*5,350 *11,790	3,370 7,430			*4,450 *9,810	2,930 6,460	5.01 (16.4)		

- Lifting capacity are based on ISO 10567.
- Lifting capacity 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.



# LIFTING CAPACITY



## HW140A MONO BOOM

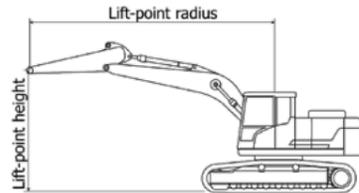
4.60 m (15' 1") Mono boom, 2.60 m (8' 6") arm equipped with STD counter weight, dozer down

Lift-point height m (ft)	Lift-point radius								At max. reach		
	1.5m (4.9ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		Capacity		Reach m (ft)
	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	
7.5m 24.6ft	kg lb								*2,660 *5,860	*2,660 *5,860	4.40 (14.4)
6.0m 19.7ft	kg lb								*2,230 *4,920	*2,230 *4,920	5.87 (19.3)
4.5m 14.8ft	kg lb				*4,180 *9,220	3,650 8,050	3,610 7,960	2,280 5,030	*2,100 *4,630	1,870 4,120	6.70 (22.0)
3.0m 9.8ft	kg lb			*7,510 *16,560	6,380 14,070	*5,190 *11,440	3,410 7,520	3,510 7,740	2,190 4,830	1,650 3,640	7.12 (23.3)
1.5m 4.9ft	kg lb			*6,430 *14,180	5,680 12,520	5,280 11,640	3,150 6,940	3,390 7,470	2,080 4,590	1,580 3,480	7.19 (23.6)
0.0m 0.0ft	kg lb			*6,820 *15,040	5,440 11,990	5,090 11,220	2,990 6,590	3,300 7,280	2,000 4,410	1,630 3,590	6.94 (22.8)
-1.5m -4.9ft	kg lb	*5,360 *11,820	*5,360 *11,820	*10,110 *22,290	5,440 11,990	5,040 11,110	2,950 6,500	3,290 7,250	1,990 4,390	1,860 4,100	6.33 (20.8)
-3.0m -9.8ft	kg lb	*9,520 *20,990	*9,520 *20,990	*8,270 *18,230	5,580 12,300	5,120 11,290	3,020 6,660			2,490 5,490	5.21 (17.1)

4.60 m (15' 1") Mono boom, 2.60 m (8' 6") arm equipped with Heavy counter weight, dozer down

Lift-point height m (ft)	Lift-point radius								At max. reach		
	1.5m (4.9ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		Capacity		Reach m (ft)
	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	
7.5m 24.6ft	kg lb								*2,660 *5,860	*2,660 *5,860	4.40 (14.4)
6.0m 19.7ft	kg lb								*2,230 *4,920	*2,230 *4,920	5.87 (19.3)
4.5m 14.8ft	kg lb				*4,180 *9,220	3,970 8,750	*3,720 *8,200	2,510 5,530	*2,100 *4,630	2,070 4,560	6.70 (22.0)
3.0m 9.8ft	kg lb			*7,510 *16,560	6,950 15,320	*5,190 *11,440	3,730 8,220	3,800 8,380	2,420 5,340	1,830 4,030	7.12 (23.3)
1.5m 4.9ft	kg lb			*6,430 *14,180	6,250 13,780	5,710 12,590	3,480 7,670	3,680 8,110	2,310 5,090	1,760 3,880	7.19 (23.6)
0.0m 0.0ft	kg lb			*6,820 *15,040	6,020 13,270	5,520 12,170	3,320 7,320	3,590 7,910	2,230 4,920	1,820 4,010	6.94 (22.8)
-1.5m -4.9ft	kg lb	*5,360 *11,820	*5,360 *11,820	*10,110 *22,290	6,010 13,250	5,470 12,060	3,270 7,210	3,570 7,870	2,210 4,870	2,070 4,560	6.33 (20.8)
-3.0m -9.8ft	kg lb	*9,520 *20,990	*9,520 *20,990	*8,270 *18,230	6,150 13,560	5,550 12,240	3,340 7,360			2,760 6,080	5.21 (17.1)

- Lifting capacity are based on ISO 10567.
- Lifting capacity 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.



## HW140A MONO BOOM

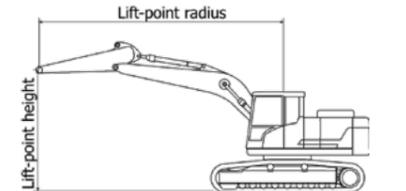
4.60 m (15' 1") Mono boom, 3.1 m (10' 2") arm equipped with STD counter weight, dozer down

Lift-point height m (ft)	Lift-point radius										At max. reach				
	1.5m (4.9ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		7.5m (24.6ft)		Capacity		Reach m (ft)		
	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side			
7.5m 24.6ft	kg lb												*2,150 *4,740	*2,150 *4,740	5.13 (16.8)
6.0m 19.7ft	kg lb								*2,670 *5,890	2,340 5,160			*1,860 *4,100	*1,860 *4,100	6.43 (21.1)
4.5m 14.8ft	kg lb								*3,310 *7,300	2,310 5,090			*1,770 *3,900	1,660 3,660	7.20 (23.6)
3.0m 9.8ft	kg lb			*6,350 *14,000	*6,350 *14,000	*4,690 *10,340	3,470 7,650	3,530 7,780	2,210 4,870	*2,090 *4,610	1,510 3,330	*1,790 *3,950	1,480 3,260	7.58 (24.9)	
1.5m 4.9ft	kg lb			*9,370 *20,660	5,840 12,870	5,330 11,750	3,190 7,030	3,400 7,500	2,080 4,590	2,400 5,290	1,460 3,220	*1,900 *4,190	1,410 3,110	7.65 (25.1)	
0.0m 0.0ft	kg lb			*7,170 *15,810	5,460 12,040	5,100 11,240	2,990 6,590	3,290 7,250	1,980 4,370			*2,120 *4,670	1,450 3,200	7.42 (24.3)	
-1.5m -4.9ft	kg lb	*4,710 *10,380	*4,710 *10,380	*9,570 *21,100	5,380 11,860	5,010 11,050	2,910 6,420	3,240 7,140	1,940 4,280			*2,570 *5,670	1,620 3,570	6.85 (22.5)	
-3.0m -9.8ft	kg lb	*7,920 *17,460	*7,920 *17,460	*9,090 *20,040	5,470 12,060	5,040 11,110	2,940 6,480					3,430 7,560	2,070 4,560	5.84 (19.1)	

4.60 m (15' 1") Mono boom, 3.1 m (10' 2") arm equipped with Heavy counter weight, dozer down

Lift-point height m (ft)	Lift-point radius										At max. reach				
	1.5m (4.9ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		7.5m (24.6ft)		Capacity		Reach m (ft)		
	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side			
7.5m 24.6ft	kg lb												*2,150 *4,740	*2,150 *4,740	5.13 (16.8)
6.0m 19.7ft	kg lb								*2,670 *5,890	2,570 5,670			*1,860 *4,100	*1,860 *4,100	6.43 (21.1)
4.5m 14.8ft	kg lb								*3,310 *7,300	2,530 5,580			*1,770 *3,900	*1,770 *3,900	7.20 (23.6)
3.0m 9.8ft	kg lb			*6,350 *14,000	*6,350 *14,000	*4,690 *10,340	3,800 8,380	3,820 8,420	2,430 5,360	*2,090 *4,610	1,680 3,700	*1,790 *3,950	1,650 3,640	7.58 (24.9)	
1.5m 4.9ft	kg lb			*9,370 *20,660	6,410 14,130	5,760 12,700	3,520 7,760	3,680 8,110	2,310 5,090	*2,510 *5,530	1,640 3,620	*1,900 *4,190	1,580 3,480	7.65 (25.1)	
0.0m 0.0ft	kg lb			*7,170 *15,810	6,030 13,290	5,530 12,190	3,320 7,320	3,570 7,870	2,210 4,870			*2,120 *4,670	1,630 3,590	7.42 (24.3)	
-1.5m -4.9ft	kg lb	*4,710 *10,380	*4,710 *10,380	*9,570 *21,100	5,960 13,140	5,430 11,970	3,230 7,120	3,530 7,780	2,170 4,780			*2,570 *5,670	1,810 3,990	6.85 (22.5)	
-3.0m -9.8ft	kg lb	*7,920 *17,460	*7,920 *17,460	*9,090 *20,040	6,040 13,320	5,460 12,040	3,260 7,190					*3,610 *7,960	2,300 5,070	5.84 (19.1)	

- Lifting capacity are based on ISO 10567.
- Lifting capacity 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.



# LIFTING CAPACITY



## HW140A 2-PIECE BOOM

4.71 m (15' 5") 2-Piece boom, 2.00 m (6' 7") arm equipped with Heavy counter weight, dozer down

Lift-point height m (ft)	Lift-point radius						At max. reach		
	3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		Capacity	Reach	
	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	kg (lb)	m (ft)	
7.5m 24.6ft							*4,410 *9,720	*4,410 *9,720	3.69 (12.1)
6.0m 19.7ft			*4,210 *9,280	4,020 8,860			*3,470 *7,650	2,970 6,550	5.37 (17.6)
4.5m 14.8ft	*5,800 *12,790	*5,800 *12,790	*4,630 *10,210	3,890 8,580	3,870 8,530	2,460 5,420	*3,200 *7,050	2,280 5,030	6.26 (20.6)
3.0m 9.8ft			*5,580 *12,300	3,650 8,050	3,780 8,330	2,390 5,270	3,170 6,990	2,000 4,410	6.71 (22.0)
1.5m 4.9ft			5,670 12,500	3,420 7,540	3,680 8,110	2,300 5,070	3,070 6,770	1,920 4,230	6.79 (22.3)
0.0m 0.0ft	*4,830 *10,650	*4,830 *10,650	5,540 12,210	3,310 7,300	3,620 7,980	2,240 4,940	3,220 7,100	2,010 4,430	6.52 (21.4)
-1.5m -4.9ft	*9,500 *20,940	6,110 13,470	5,540 12,210	3,310 7,300			3,780 8,330	2,340 5,160	5.86 (19.2)

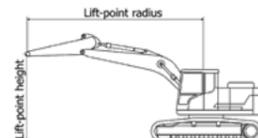
4.71 m (15' 5") 2-Piece boom, 2.45 m (8' 0") arm equipped with Heavy counter weight, dozer down

Lift-point height m (ft)	Lift-point radius						At max. reach		
	3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		Capacity	Reach	
	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	kg (lb)	m (ft)	
7.5m 24.6ft							*3,030 *6,680	*3,030 *6,680	4.46 (14.6)
6.0m 19.7ft			*3,710 *8,180	*3,710 *8,180			*2,500 *5,510	*2,500 *5,510	5.92 (19.4)
4.5m 14.8ft			*4,190 *9,240	3,950 8,710	*3,880 *8,550	2,490 5,490	*2,320 *5,110	2,030 4,480	6.74 (22.1)
3.0m 9.8ft			*5,190 *11,440	3,690 8,140	3,800 8,380	2,400 5,290	*2,300 *5,070	1,800 3,970	7.15 (23.5)
1.5m 4.9ft			5,690 12,540	3,440 7,580	3,670 8,090	2,280 5,030	*2,410 *5,310	1,730 3,810	7.23 (23.7)
0.0m 0.0ft	*5,270 *11,620	*5,270 *11,620	5,520 12,170	3,290 7,250	3,590 7,910	2,210 4,870	*2,670 *5,890	1,800 3,970	6.98 (22.9)
-1.5m -4.9ft	*9,410 *20,750	6,000 13,230	5,480 12,080	3,250 7,170	3,580 7,890	2,200 4,850	*3,220 *7,100	2,050 4,520	6.37 (20.9)

4.71 m (15' 5") 2-Piece boom, 2.60 m (8' 6") arm equipped with Heavy counter weight, dozer down

Lift-point height m (ft)	Lift-point radius										At max. reach		
	1.5m (4.9ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		7.5m (24.6ft)		Capacity	Reach	
	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	kg (lb)	m (ft)	
7.5m 24.6ft					*3,340 *7,360	*3,340 *7,360					*2,790 *6,150	*2,790 *6,150	4.70 (15.4)
6.0m 19.7ft					*3,560 *7,850	*3,560 *7,850	*2,730 *6,020	2,520 5,560			*2,330 *5,140	*2,330 *5,140	6.10 (20.0)
4.5m 14.8ft					*4,050 *8,930	3,980 8,770	*3,770 *8,310	2,510 5,530			*2,170 *4,780	1,960 4,320	6.90 (22.6)
3.0m 9.8ft			*7,450 *16,420	6,900 15,210	*5,050 *11,130	3,710 8,180	3,810 8,400	2,400 5,290			*2,150 *4,740	1,750 3,860	7.30 (23.9)
1.5m 4.9ft					5,700 12,570	3,440 7,580	3,680 8,110	2,290 5,050			*2,250 *4,960	1,680 3,700	7.37 (24.2)
0.0m 0.0ft			*5,350 *11,790	*5,350 *11,790	5,510 12,150	3,280 7,230	3,580 7,890	2,200 4,850			*2,480 *5,470	1,740 3,840	7.13 (23.4)
-1.5m -4.9ft			*9,050 *19,950	5,960 13,140	5,460 12,040	3,240 7,140	3,570 7,870	2,190 4,830			*2,970 *6,550	1,970 4,340	6.53 (21.4)
-3.0m -9.8ft					5,550 12,240	3,310 7,300							

- Lifting capacity are based on ISO 10567.
- Lifting capacity 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.



## HW140A 2-PIECE BOOM

4.71 m (15' 5") 2-Piece boom, 2.00 m (6' 7") arm equipped with Heavy counter weight, dozer down, upper body towards dozer, max. hydraulic capacity(power boost)

Lift-point height m (ft)	Lift-point radius						At max. reach		
	3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		Capacity	Reach	
	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	kg (lb)	m (ft)	
7.5m 24.6ft							*4,800 *10,580	*4,800 *10,580	3.69 (12.1)
6.0m 19.7ft			*4,620 *10,190	4,020 8,860			*3,790 *8,360	2,970 6,550	5.37 (17.6)
4.5m 14.8ft	*6,360 *14,020	*6,360 *14,020	*5,090 *11,220	3,900 8,600	*4,670 *10,300	2,470 5,450	*3,500 *7,720	2,280 5,030	6.26 (20.6)
3.0m 9.8ft			*6,150 *13,560	3,650 8,050	*4,980 *10,980	2,390 5,270	*3,480 *7,670	2,000 4,410	6.71 (22.0)
1.5m 4.9ft			*7,160 *15,790	3,430 7,560	*5,390 *11,880	2,300 5,070	*3,670 *8,090	1,920 4,230	6.79 (22.3)
0.0m 0.0ft	*5,270 *11,620	*5,270 *11,620	*7,590 *16,730	3,320 7,320	*5,560 *12,260	2,240 4,940	*4,120 *9,080	2,010 4,430	6.52 (21.4)
-1.5m -4.9ft	*10,470 *23,080	6,110 13,470	*7,220 *15,920	3,320 7,320			*5,120 *11,290	2,340 5,160	5.86 (19.2)

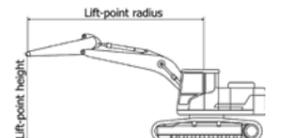
4.71 m (15' 5") 2-Piece boom, 2.45 m (8' 0") arm equipped with Heavy counter weight, dozer down, upper body towards dozer, max. hydraulic capacity(power boost)

Lift-point height m (ft)	Lift-point radius						At max. reach		
	3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		Capacity	Reach	
	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	kg (lb)	m (ft)	
7.5m 24.6ft							*3,320 *7,320	*3,320 *7,320	4.46 (14.6)
6.0m 19.7ft			*4,080 *8,990	*4,080 *8,990			*2,740 *6,040	2,550 5,620	5.92 (19.4)
4.5m 14.8ft			*4,610 *10,160	3,950 8,710	*4,280 *9,440	2,490 5,490	*2,550 *5,620	2,030 4,480	6.74 (22.1)
3.0m 9.8ft			*5,710 *12,590	3,700 8,160	*4,690 *10,340	2,400 5,290	*2,530 *5,580	1,800 3,970	7.15 (23.5)
1.5m 4.9ft			*6,850 *15,100	3,440 7,580	*5,190 *11,440	2,290 5,050	*2,650 *5,840	1,730 3,810	7.23 (23.7)
0.0m 0.0ft	*5,740 *12,650	*5,740 *12,650	*7,480 *16,490	3,290 7,250	*5,500 *12,130	2,210 4,870	*2,930 *6,460	1,800 3,970	6.98 (22.9)
-1.5m -4.9ft	*10,240 *22,580	6,000 13,230	*7,370 *16,250	3,260 7,190	*5,280 *11,640	2,200 4,850	*3,530 *7,780	2,050 4,520	6.37 (20.9)

4.71 m (15' 5") 2-Piece boom, 2.60 m (8' 6") arm equipped with Heavy counter weight, dozer down, upper body towards dozer, max. hydraulic capacity(power boost)

Lift-point height m (ft)	Lift-point radius										At max. reach		
	1.5m (4.9ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		7.5m (24.6ft)		Capacity	Reach	
	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	kg (lb)	m (ft)	
7.5m 24.6ft					*3,650 *8,050	*3,650 *8,050					*3,050 *6,720	*3,050 *6,720	4.70 (15.4)
6.0m 19.7ft					*3,910 *8,620	*3,910 *8,620	*2,990 *6,590	2,520 5,560			*2,550 *5,620	2,440 5,380	6.10 (20.0)
4.5m 14.8ft					*4,460 *9,830	3,980 8,770	*4,160 *9,170	2,510 5,530			*2,380 *5,250	1,960 4,320	6.90 (22.6)
3.0m 9.8ft			*8,190 *18,060	6,900 15,210	*5,560 *12,260	3,720 8,200	*4,600 *10,140	2,410 5,310			*2,370 *5,220	1,750 3,860	7.30 (23.9)
1.5m 4.9ft					6,740 *14,860	3,450 7,610	*5,120 *11,290	2,290 5,050			*2,470 *5,450	1,680 3,700	7.37 (24.2)
0.0m 0.0ft			*5,840 *12,870	*5,840 *12,870	*7,430 *16,380	3,280 7,230	*5,470 *12,060	2,210 4,870			*2,730 *6,020	1,740 3,840	7.13 (23.4)
-1.5m -4.9ft			*9,850 *21,720	5,970 13,160	*7,410 *16,340	3,240 7,140	*5,340 *11,770	2,190 4,830			*3,260 *7,190	1,970 4,340	6.53 (21.4)
-3.0m -9.8ft					*6,340 *13,980	3,320 7,320							

- Lifting capacity are based on ISO 10567.
- Lifting capacity 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.



# BUCKET SELECTION GUIDE & DIGGING FORCE

## BUCKETS



SAE heaped m<sup>3</sup> (yd<sup>3</sup>)    ◆ 0.50 (0.65)    ◆ 0.61 (0.80)    0.52 (0.68) / 0.58 (0.76)    0.65 (0.85)    0.71 (0.93)    ▣ 0.45 (0.59)    ◎ 0.55 (0.72)

Capacity m <sup>3</sup> (yd <sup>3</sup> )		Width mm (in)		Weight kg (lb)	Tooth EA	Recommendation mm (ft.in)			
SAE heaped	CECE heaped	Without side cutters	With side cutters			4,600 (15' 1") Mono Boom			
						2,000 (6' 7") Arm	2,450 (8' 0") Arm	2,600 (8' 6") Arm	3,100 (10' 2") Arm
0.58 (0.76)	0.50 (0.65)	950 (37.4)	1,100 (43.7)	480 (1,060)	5	●	■	▲	▲
0.52 (0.68)	0.45 (0.59)	870 (34.3)	1,020 (40.2)	460 (1,010)	5	●	■	▲	▲
0.65 (0.85)	0.55 (0.72)	1,060 (41.7)	1,210 (47.6)	513 (1,130)	5	■	▲	▲	-
0.71 (0.93)	0.60 (0.78)	1,140 (44.9)	1,300 (51.2)	536 (1,180)	5	▲	▲	-	-
▣ 0.45 (0.59)	0.40 (0.52)	1,520 (59.8)	-	410 (900)	0	●	●	●	■
◎ 0.55 (0.72)	0.45 (0.59)	1,800 (70.9)	-	585 (1,290)	0	●	■	▲	▲
◆ 0.50 (0.65)	0.45 (0.59)	762 (30.0)	821 (32.3)	439 (970)	4	●	●	■	■
◆ 0.61 (0.80)	0.54 (0.71)	914 (36.0)	974 (38.3)	491 (1,080)	5	●	▲	▲	▲

Capacity m <sup>3</sup> (yd <sup>3</sup> )		Width mm (in)		Weight kg (lb)	Tooth EA	Recommendation mm (ft.in)						
SAE heaped	CECE heaped	Without side cutters	With side cutters			4,600 (15' 1") Mono Boom			4,710 (15' 5") 2-Piece Boom			
						2,000 (6' 7") Arm	2,450 (8' 0") Arm	2,600 (8' 6") Arm	3,100 (10' 2") Arm	2,000 (6' 7") Arm	2,450 (8' 0") Arm	2,600 (8' 6") Arm
0.58 (0.76)	0.50 (0.65)	950 (37.4)	1,100 (43.7)	480 (1,060)	5	●	●	■	▲	●	■	■
0.52 (0.68)	0.45 (0.59)	870 (34.3)	1,020 (40.2)	460 (1,010)	5	●	●	●	■	●	●	●
0.65 (0.85)	0.55 (0.72)	1,060 (41.7)	1,210 (47.6)	513 (1,130)	5	●	■	■	▲	■	▲	▲
0.71 (0.93)	0.60 (0.78)	1,140 (44.9)	1,300 (51.2)	536 (1,180)	5	■	▲	▲	-	■	▲	▲
▣ 0.45 (0.59)	0.40 (0.52)	1,520 (59.8)	-	410 (900)	0	●	●	●	●	●	●	●
◎ 0.55 (0.72)	0.45 (0.59)	1,800 (70.9)	-	585 (1,290)	0	●	■	■	▲	●	■	■
◆ 0.50 (0.65)	0.45 (0.59)	762 (30.0)	821 (32.3)	439 (970)	4	●	●	●	■	●	●	●
◆ 0.61 (0.80)	0.54 (0.71)	914 (36.0)	974 (38.3)	491 (1,080)	5	●	■	■	▲	●	■	■

▣ Ditching bucket    ◎ Slope finishing bucket    ◆ Hammerless tooth bucket

● : Applicable for materials with density of 2,100 kgf/m<sup>3</sup> (3,500 lbf/yd<sup>3</sup>) or less  
 ● : Applicable for materials with density of 1,800 kgf/m<sup>3</sup> (3,000 lbf/yd<sup>3</sup>) or less  
 ■ : Applicable for materials with density of 1,500 kgf/m<sup>3</sup> (2,500 lbf/yd<sup>3</sup>) or less  
 ▲ : Applicable for materials with density of 1,200 kgf/m<sup>3</sup> (2,000 lbf/yd<sup>3</sup>) or less  
 - : Not Recommended

## 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	Length	mm (ft.in)	4,600 (15' 1") Mono				4,710 (15' 5") 2-Piece			Remark
			2,000 (6' 7")	2,450 (8' 0")	2,600 (8' 6")	3,100 (10' 2")	2,000 (6' 7")	2,450 (8' 0")	2,600 (8' 6")	
Bucket digging force	SAE	kN	88[96]	88[96]	88[96]	88[96]	88[96]	88[96]	88[96]	[ ] : Power Boost
		kgf	8,957[9,770]	8,961[9,780]	8,961[9,780]	8,956[9,770]	8,957[9,770]	8,961[9,780]	8,961[9,780]	
		lbf	19,750[21,540]	19,760[21,560]	19,760[21,560]	19,750[21,540]	19,750[21,540]	19,760[21,560]	19,760[21,560]	
	ISO	kN	103[112]	103[112]	103[112]	103[112]	103[112]	103[112]	103[112]	
		kgf	10,489[11,440]	10,494[11,450]	10,494[11,450]	10,489[11,440]	10,489[11,440]	10,494[11,450]	10,494[11,450]	
		lbf	23,130[25,220]	23,140[25,240]	23,140[25,240]	23,120[25,220]	23,130[25,220]	23,140[25,240]	23,140[25,240]	
Arm crowd force	SAE	kN	74[81]	64[69]	61[67]	55[60]	74[81]	64[70]	61[67]	
		kgf	7,569[8,260]	6,485[7,070]	6,230[6,800]	5,579[6,090]	7,569[8,260]	6,485[7,070]	6,230[6,800]	
		lbf	16,690[18,120]	14,300[15,590]	13,740[14,990]	12,300[13,430]	16,690[18,210]	14,300[15,590]	13,740[14,990]	
	ISO	kN	78[85]	66[72]	64[69]	57[62]	78[85]	66[72]	64[69]	
		kgf	7,942[8,660]	6,764[7,380]	6,486[7,080]	5,782[6,310]	7,942[8,660]	6,764[7,380]	6,486[7,080]	
		lbf	17,510[19,090]	14,910[16,270]	14,300[15,610]	12,750[13,910]	17,510[19,090]	14,910[16,270]	14,300[15,610]	

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

# STANDARD / OPTION

ENGINE	STD	OPT
Cummins B4.5 engine	●	
<b>HYDRAULIC SYSTEM</b>		
Advanced Load Sensing (LUDV)		
Power mode(P, S, E), Work mode(P, W, T), User mode	●	
Pressure Boost Function	●	
Attachment Flow Control	●	
3 attachment control modes (Push / Detent / Prop.)	●	
Engine Auto Idle	●	
Engine Auto Shutdown Control	●	
Electronic Fan Control	●	
20 km/h speed limit		●
35 km/h speed limit	●	
Hyundai Bio Hydraulic Oil (HBHO)		●
<b>CAB &amp; INTERIOR</b>		
<b>ISO Standard cabin</b>		
Parallel 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	●	
Pilot-operated slidable joystick	●	
Console box height adjust system	●	
Ashtray		●
<b>Automatic climate control</b>		
Air conditioner & heater	●	
Defroster	●	
Starting Aid (air grid heater) for cold weather	●	
<b>Centralized monitoring</b>		
8" LCD display	●	
Engine speed or Trip meter/Accel		●
Engine coolant temperature gauge	●	
Max power	●	
Creep speed/Low speed/High speed	●	
Auto idle	●	
Overload warning with alarm	●	
Check Engine	●	
Air pre-cleaner		●
Air cleaner clogging	●	
ECO Gauges	●	
Fuel level gauge	●	
Hyd. oil temperature gauge	●	
Warnings	●	
Communication error indication	●	
Low battery	●	
Clock	●	
Cabin lights - Halogen		●
Cabin lights - LED		●
Cabin front window rain guard		●
<b>Seat</b>		
Mechanical suspension with heater	●	
Adjustable air suspension with heater		●
<b>Operator Protective Structures</b>		
General	●	
Wire Net		●
FOG (Falling Object Guard)		●
ISO 10262 Level 2		●
<b>Cabin ROPS (ISO 12117-2)</b>		
ROPS (Roll Over Protective Structure)	●	

SAFETY	STD	OPT
Radar with 2nd monitor		●
Battery master switch	●	
Rear view camera	●	
Rear & Mirror view camera		●
AAVM (Advanced Around View Monitoring)		●
Two working lights on Boom - Halogen	●	
Two working lights on Boom - LED		●
Travel alarm	●	
Rear work lamp		●
Beacon lamp		●
Automatic swing brake	●	
Safety lock valve for boom cylinder with overload warning device	●	
Safety lock valve for arm cylinder	●	
Swing Lock System		●
Four outside rearview mirror	●	
<b>ATTACHMENT</b>		
<b>Booms</b>		
4.60 m, 15' 1" Mono	●	
4.71 m, 15' 5" 2-Piece		●
<b>Arms</b>		
2.00 m, 6' 7"		●
2.45 m, 8' 0"	●	
2.60 m, 8' 6"		●
3.10 m, 10' 2"		●
2.45 m w/o reinf		●
2.60 m w/o reinf		●
<b>OTHER</b>		
Heavy CWT		●
Removable clean-out dust net for cooler	●	
Fuel pre-filter	●	
Self-diagnostics system	●	
Hi MATE (Remote Management System)		●
	Mobile Satellite Dual	●
Batteries (2 x 12V x 100 AH)	●	
Fuel filler pump (35 lpm)		●
Bucket line 3way		●
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		●
Ride control & Boom floating		●
Automatic digging brake		●
Joystick Streering		●
Tool kit		●
Auto cruiser system	●	
Lower Frame Toolbox - LH		●
Lower Frame Toolbox - LH, RH		●
<b>UNDERCARRIAGE</b>		
Rear dozer blade	●	
Rear outrigger		●
Front outrigger and rear blade		●
Front blade and rear outrigger		●
Front and rear outrigger		●
Front and rear blade		●
Front grapple rest and rear blade		●
Front grapple rest and rear outrigger		●
Tires- dual (9.00-20-14PR tube)	●	
Tires- dual (9.00-20 solid)		●
Tires- dual (10.00-20-14PR tube)		●
Trailer hitch for rear dozer blade		●
Wheel Chock		●
Fenders (Mudguards) - General axle		●

\* 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.



BOGOTÁ, PBX: (601) 593 8830 · MEDELLÍN, PBX: (604) 369 5650 · BARRANQUILLA, PBX: (605) 331 4006 · CALI, PBX: (602) 485 1449  
BUCARAMANGA, PBX: (607) 697 5074 · CARTAGENA, PBX: (605) 693 01 26 · YOPAL, Cel: +57 322 263 5799

 **+57 314 295 4816** | [www.rylsa.com.co](http://www.rylsa.com.co)    