INGINE	STD	OPT
icania DC13 084A engine	•	
HYDRAULIC SYSTEM		
ntelligent Power Control (IPC)		_
3-power mode, 2-work mode, user mode	•	
Variable Power Control	•	
Pump Flow Control	•	
Attachment Mode Flow Control		•
Engine Auto Idle	•	
Engine Auto Shutdown Control		•
Hyundai Bio Hydraulic Oil (HBHO)		•
CAB & INTERIOR		
SO 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		
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		
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	•	
Hyd. oil temperature gauge		
Fuel warmer	•	
	-	
Warnings	-	
Communication error	•	
Low battery	•	
Clock Cabin Lights	•	-
Cabin lights		•
Cabin front window rain guard		•
Cabin roof-steel cover		•
Seat		-
Adjustable air suspension seat with heater		•
Cabin FOPS (ISO 10262) Level 2		

SAFETY	STD	OPT
Battery master switch	•	
Rearview camera		•
AAVM (Advanced Around View Monitoring)		•
Six front working lights (4 boom mounted, 2 front frame mounted)	•	
Travel alarm	•	
Rear work lamp	•	
Beacon lamp		•
Automatic swing brake	•	
Boom holding system	•	
Arm holding system	•	
Safety lock valve for boom cylinder with overload warning device		•
Safety lock valve for arm cylinder		•
Swing Lock System		•
Three outside rearview mirror	•	
OTHER		
Booms		
6.55m, 21' 6"		•
7.06m, 23' 2"	•	
9.00m, 29' 6"	-	•
Arms		Ū.
2.4m, 7' 10"		•
2.9m, 9' 6"		•
3.38m. 11' 1"	•	•
4.0m, 13' 1"	•	•
6.0m, 19' 8"		
Removable clean-out dust net for cooler	•	
Removable reservoir tank		
Fuel pre-filter with fuel warmer		
Rain cap		
Pre-cleaner	•	•
Self-diagnostics system	•	
Hi-mate (Remote Management System)	-	•
Batteries (2 x 12V x 200 AH)	•	
Fuel filler pump (50 L/min)	-	•
Single-acting piping kit (breaker, etc.)		•
Double-acting piping kit (clamshell, etc.)		•
Quick coupler piping kit (clamsheil, etc.)		•
Quick coupler		•
Boom floating control		•
Accumulator for lowering work equipment	•	
Pattern change valve (2 patterns)		•
Tool kit		•
UNDERCARRIAGE		
Lower frame under cover (Additional)		•
Lower frame under cover (Normal)	•	
Track shoes		
Triple grousers shoes (600mm, 24")	•	
Triple grousers shoe (700mm, 28")		•
Triple grousers shoe (750mm, 30")		•
Triple grousers shoe (800mm, 32")		•
Double grousers shoe (600mm, 24")		•
Double grousers shoe (700mm, 28")		•
Heavy duty grousers shoe (600mm, 24")		•
Heavy duty grousers shoe (700mm, 28")		•
Track rail guard	•	
Full track rail guard		•

\* 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.

## **HYUNDAI CONSTRUCTION EQUIPMENT** PLEASE CONTACT

www.hyundai-ce.com	2019. 12 Rev.8





Net Power

Gross Power

Travel Speed SAE J1349 / 424 HP (316 kW) at 1,900 rpm SAE J1995 / 444 HP (331 kW) at 1,900 rpm 5.3 km/hr (3.29 mph) / 3.3 km/hr (2.05 mph) 52,400 kg / 115,520 lb

**Operating Weight** 





# **RULE THE GROUND**

The HX Series excavators are products of HHI's spirit of initiative, creativity, and strong drive. HHI's engineers, who are the best in the industry, have worked tirelessly to offer a zero-defect product. The new HX Series reflects customers' needs in the field gleaned by thorough monitoring. They maximize fuel efficiency and performance proven by rigorous field tests and quality control.





# **RULE THE GROUND**

The HX series exceeds customer's expectation! Become a true leader on the ground with HHI's HX series.



## WORK MAX, **WORTH MAX**

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

## MORE RELIABLE, MORE SUSTAINABLE $\mathbb{B}$

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



## **INFOTAINMENT** FRONTIER

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









#### Cycle Time Improvement

The HX Series has higher productivity with faster cycle speeds, it loads trucks up to 3% faster and levels up to 6% faster than the 9 Series.

# MAXIMUM PERFORMANCE

#### **Optimal Performance with Fuel Efficiency**

The HX Series is equipped with eco-friendly, high-performance engines that meet the Tier 4 Final emission requirements.



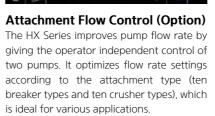
# PC Mode

#### ECO Gauge

Using this function, the operator can monitor fuel consumption in real-time or review historical data. The colored gauge represents engine torque and fuel efficiency.

Also displayed are the average and total fuel consumed. The hourly and daily fuel consumption is also viewable through the menu.

#### 17:03 HYUNDA Custom Breaker #1 User Breaker #2 User Breaker #3 Liser Breaker #4 User Breaker #5 User Breaker #6 User Breaker -





#### New Cooling System with Increased Air Flow

The HX Series has a vertically stacked cooling configuration which provides improved cooling efficiency through increased air flow and reduced heat.



#### IPC (Intelligent Power Control)

This mode analyzes operator control patterns, and automatically adjusts engine RPM and hydraulic flow to ensure maximum fuel economy and productivity.

#### **New Variable Power Control**

The HX Series improves fuel efficiency with its new variable power control.

Its three-stage Power mode ensures the highest performance in any operating environment.

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

#### **Electronic Viscous Fan Clutch**

The electronic fan clutch reduces noise, and minimizes fuel consumption during operation by precisely controlling RPM depending on the hydraulic oil and coolant temperature. During cold applications the fan is slowed to allow for hydraulic oil to warm up to optimal operating temperature.

#### **Reinforced. Vented Cooler Door Grill**

The cooler door grill is designed for maximum air flow and reduced contamination.

#### **One Pedal Straight Travel (Option)**

Activated by a toggle button, the left-hand pedal allows for straight forward and reverse travel. This is ideal when working along roads, banks, trenches, and when traveling longer distances.

# RUGGED, RELIABLE AND DURABLE

### **Robust and Safe Structural Design**

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



Durable Cooling Module

The HX Series has a durable cooling module designed to produce maximum productivity in the harshest working environments.



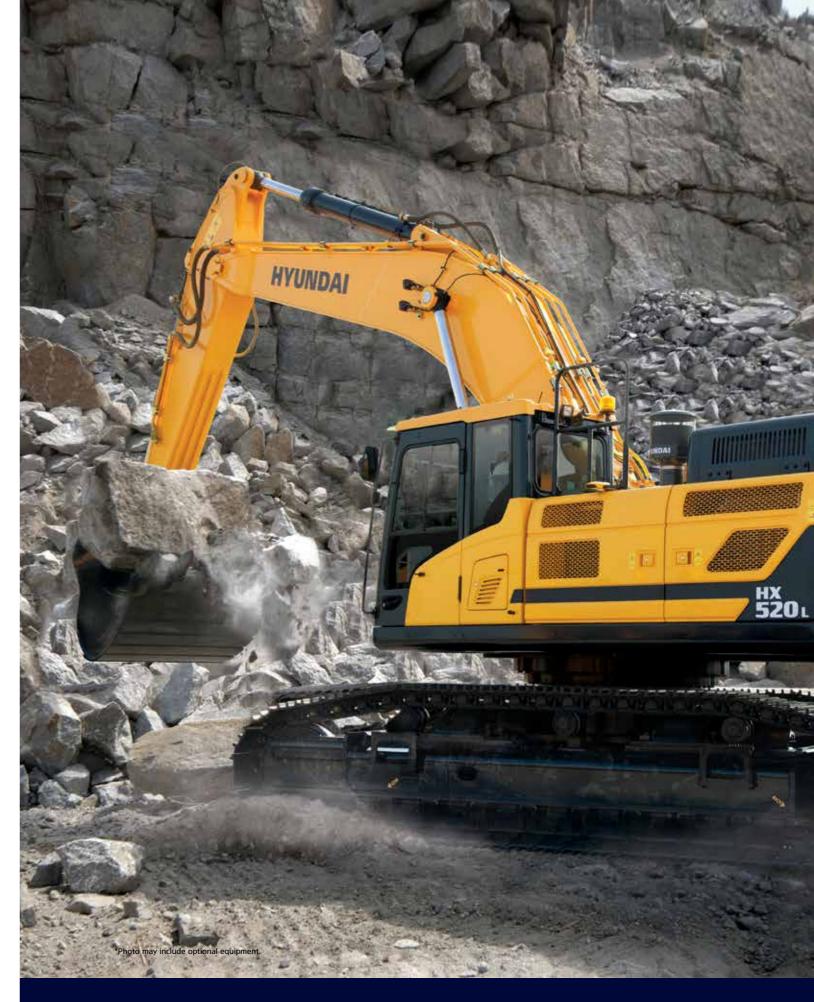


#### **Reinforced Pins, Bushing, and Polymer Shims**

The HX series features improved component reliability through the attachment. Wear gaps that occur between the attachment and the boom are minimized by wear-resistant long-life pins, bushings, and polymer shims, for maximum performance and durability.

#### Wear Resistant Cover Plate

A wear-resistant cover plate is installed at the end of the arm to minimize abrasion on the pin connection between the arm and the bucket. Reduced bucket vibrations improve operator control even under heavy load conditions.



## Hi-grade (High-pressure) Hoses

#### Reinforced Durability of Upper and Lower Structure and Attachments

The upper and lower structure and attachments of the HX Series are reinforced and engineered to handle the most demanding jobs.

The HX Series uses high grade, high-pressure hoses with increased heat and pressure resistance for improved durability.



#### **New Air Conditioning System**

The HX series features an enhanced capacity air conditioning and heating system. The APTC auxiliary heat capacity is increased by 15%, providing a consistently comfortable operating environment. The ventilation was designed so that warm and cool air can be directed to the operators' faces, increasing their work satisfaction.

# **CAB COMFORT ENHANCEMENTS**

#### Improved Instrument Panel for Easier Monitoring

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



#### Intelligent and Wide Cluster

The 8-inch interactive touchscreen display of the HX Series is 15% larger than that of the previous model. The centralized switches on the display allow the operator to check the urea level and the temperature outside the cab. The audio AUX, air conditioner, heater integration, wiper, lamp, overload warning, travel, alarm and inclinator also contribute to operator productivity.



#### **New Audio System**

The radio player with a USB-based MP3 player, an integrated Bluetooth hands-free feature, and a built-in microphone allow for phone calls while at work and in transit. The radio player is conveniently located on the right side of the operator to allow for improved access.



#### Haptic Control

The integrated jog shuttle-type haptic controller controls to the accelerator, air conditioner, and all functions within the cluster for maximum convenience.

#### Wi-Fi Direct with Smart Phone (Miracast)

The Smart Terminal - Miracast System uses the Wi-fi from the operator's smart phone to easily and conveniently enable features of the smart phone, such as navigating, surfing the web, watching videos, and listening to music, on the 8" screen. (Currently only available for Android phones.)

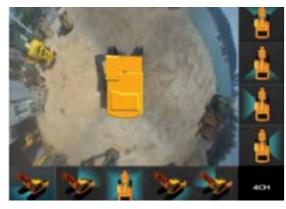
#### Proportional Auxiliary Hydraulic System(Option)

Proportional control switch for better speed control Enlarge the operation convenience

## **ADVANCED TECHNOLOGIES & SAFE SOLUTIONS**

#### New Cab Designed for Ergonomics, Comfort & Safety

Low noise, low vibration, and ergonomic design make the cab space more comfortable and pleasant. The HX Series was designed with advanced technology for maximum safety both for the operator and for the workers on the job site.



#### AAVM (All Around View Monitoring) Camera System (Option)

The HX Series has a state-of-the-art AAVM video camera system to maximize operator awareness of the surrounding areas. This system allows a 360° field of vision for operators, which minimizes accidents. Operators can maintain a constant view of the workplace in the front, the rear, the right and the left.



\* AAVM (All Around View Monitoring): Provides a field of vision in all directions with nine views including a 3D bird's eye view and a 2D/4CH view

\*IMOD (Intelligent Moving Object Detection): Informs operator when people or objects are detected within a specific range of operation (recognition distance: 5 m / 16 ft).



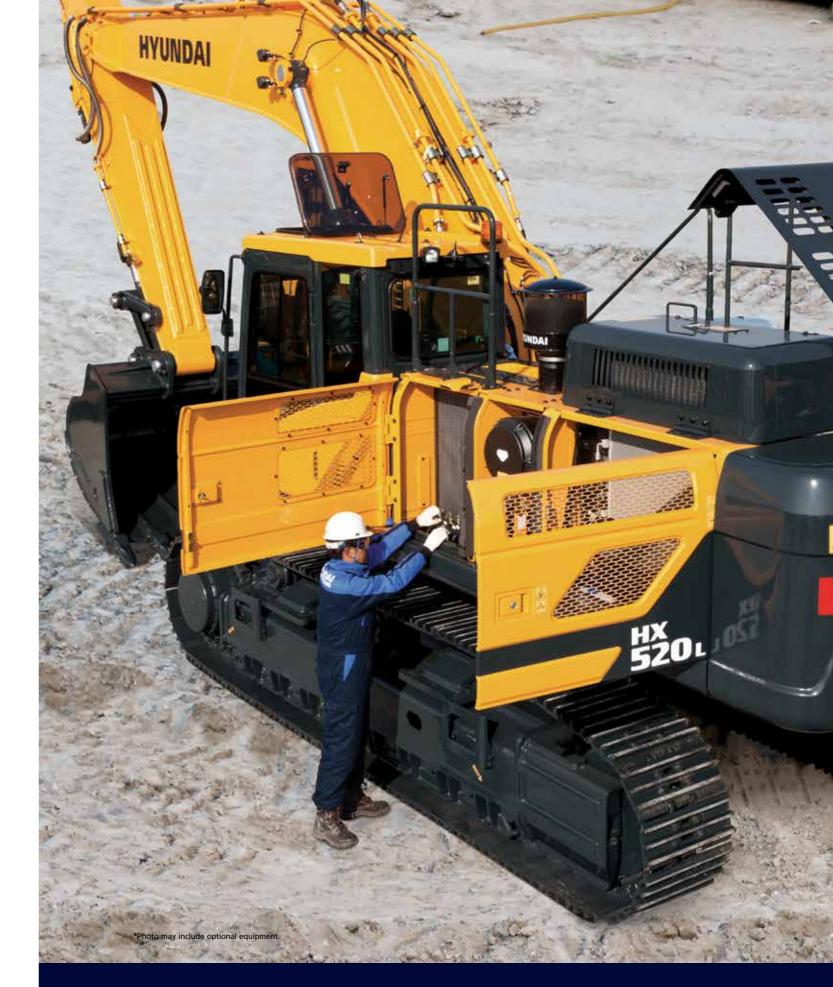
#### Hi-MATE (Remote Management System) (Option)

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

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

The DEF/AdBlue® tank is installed next to the tool box and its inlet is remotely located for easy access and convenient supply. A red lamp signal warns of overfill. The DEF/AdBlue® supply module is attached on the side of the fuel tank for easy maintenance and filter replacement.



#### **Improved Cab Suspension Mount**

A newly designed, low-vibration cab mount with viscous material and a coil spring reduces noise inside the cab and improves durability, providing a comfortable operating space and lessening the operator's fatigue.

## **SPECIFICATIONS**

## **BUCKET SELECTION GUIDE & DIGGING FORCE**

ENGINE							
Maker / M	Nodel		Scania DC13 084A				
Туре			4-cycle turbocharged,				
			charge air cooled diesel engine				
Rated	SAF	J1995 (gross)	444 HP (331 kW) at 1,900 rpm				
flywheel		J1349 (net)	424 HP (316 kW) at 1,900 rpm				
horse	DIN	6271/1 (gross)	450 PS (331 kW) at 1,900 rpm				
power		6271/1 (net)	430 PS (316 kW) at 1,900 rpm				
Max. toro	que		232 kgf · m (1,678 lbf · ft) at 1300 rpm				
Bore X st	troke		130×160 mm (5.12"×6.3")				
Piston di	splace	ement	12,700 cc (775 cu in)				
Batteries			24 V×200 Ah				
Starting	motor		24 V×6 kW				
Alternato	or		24 V×100 A				
HYDRA	ULIC	SYSTEM					
MAIN PL	JMP						
Type			Variable displacement tandem axis				
			piston pumps				
Max. flov			2×380.0 l/min (100.4 U.S. gpm / 83.6 U.K. gpm)				
Sub-pum	np for	pilot circuit	Gear pump				
Cross-sens	sing ar	nd fuel saving pu	ump system				
HYDRAU	JLIC N	MOTORS					
Travel			Two speed axial pistons motor with brake valve and parking brake				
Swing			Axial piston motor with automatic brake				
RELIEF V	/ALVE	SETTING					
Impleme			330 kgf/cm <sup>2</sup> (4,690 psi)				
Travel			330 kgf/cm <sup>2</sup> (4,690 psi)				
	ost (bc	om, arm, bucket)					
Swing cir			285 kgf/cm <sup>2</sup> (4,050 psi)				
Pilot circi			40 kgf/cm <sup>2</sup> (569 psi)				
Service v			Installed				
HYDRAU	JLIC (	CYLINDERS					
No. of cy	linder		Boom: Ø170×1,570 ST				
bore X st			Arm: Ø190×1,820 ST				
50.07.5	. one		Bucket: Ø170×1,370 ST				
* Hyundai	Bio H	ydraulic Oil (HB	HO) available				
DRIVES	& BI	RAKES					
Drive me	thod		Fully hydrostatic type				
Drive mo	otor		Axial piston motor, in-shoe design				
Reductio	n syst	em	Planetary reduction gear				
Max. dra	wbar	pull	34,100 kgf (75,180 lbf)				
Max. trave	el spee	ed (high / low)	5.3 km/hr (3.29 mph) / 3.3 km/hr (2.05 mph)				
Gradeabi	ility		35° (70%)				
Parking k	orake		Multi wet disc				
CONTR	OL						
			cks and pedals with detachable lever fatigueless operation.				
Pilot con	trol		Two joysticks with one safety lever (LH): Swing and arm, Boom and bucket (ISO)				
Traveling	and	steering	Two levers with pedals				

Electric, Dial type

SWING SYSTEM	
Swing motor	Fixed displacement axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	8.6 rpm

SERVICE REFILL CAPACITIES											
Re-filling	liter	US gal	UK gal								
Fuel tank	610	161.1	134.2								
Engine coolant	50	13.2	11								
Engine oil	39	10.3	8.6								
Swing device	7	1.8	1.54								
Final drive (each)	12	3.2	2.64								
Hydraulic system (including tank)	486	128.4	106.9								
Hydraulic tank	262	69.2	57.6								
DEF/AdBlue®	69	18.2	15.2								

#### UNDERCARRIAGE

The X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricated rollers, idlers, track adjusters with shock absorbing springs and sprockets, and a track chain with double or triple grouser shoes.

Center fram	e	X - leg type
Track frame		Pentagonal box type
No. of shoes	on each side	53 EA
No. of carrier	roller on each side	3 EA
No. of track r	oller on each side	9 EA
No. of rail gu	ard on each side	2 EA

#### OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 7,060mm (23' 2") boom, 3,380mm (11' 1") arm, SAE heaped 2.2m<sup>3</sup> (2.88 yd<sup>3</sup>) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

#### OPERATING WEIGHT

Shoes		Opera	Ground pressure		
Type	Width mm (in)	ł	kgf/cm² (psi)		
<b>T</b>	600 (24")	HX520 L	52,400 (115,520)	0.91 (12.94)	
Triple grouser	700 (28")	HX520 L	52,920 (116,670)	0.79 (11.23)	
grouser	800 (32")	HX520 L	53,180 (117,240)	0.74 (10.52)	
Double	600 (24")	HX520 L	52,215 (115,110)	0.91 (12.94)	
grouser	700 (28")	HX520 L	52,735 (116,260)	0.78 (11.09)	
Heavy duty	600 (24")	HX520 HD	52,580 (115,920)	0.91 (12.94)	
grouser	700 (28")	HX520 HD	53,130 (117,130)	0.79 (11.2)	

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 0.8kg refrigerant consisting of a CO<sub>2</sub> equivalent 1.14kg metric tonne. For more information, Please refer to the manual.

						<b>R</b>			A		
m <sup>3</sup> (yd <sup>3</sup> ) 2 2		1.38 (1.8)       ◆2.43 (3.1         2.20 (2.88)       ◆2.79 (3.6)		\$2.20 (2.88)       \$2.20 (2.88)         \$2.43 (3.18)       \$2.43 (3.18)         \$2.79 (3.65)       \$2.79 (3.65)         \$3.20 (4.19)       \$3.20 (4.19)				◆2.70 (3.53 ◆3.00 (3.92			
Capa	city					Recom	mendation m	m (ft.in)			
m <sup>3</sup> (		Width mm (in)						(23' 2") oom		9,000 (29' 6") Boom	
SAE heaped	CECE heaped		kg (lb)	2,400 (7' 10") Arm	2,900 (9' 6") Arm	2,400 (7' 10") Arm	2,900 (9' 6") Arm	3,380 (11' 1") Arm	4,000 (13' 1") Arm	6,000 (19' 8" Arm	
1.00 (1.31)	0.90 (1.18)	1,030 (41)	1,450 (3,200)	•	•	•	•	•	•	•	
1.38 (1.8)	1.24 (1.62)	1,215 (48)	1,670 (3,680)	•	•	•	•	•	٠	0	
2.20 (2.88)	1.93 (2.52)	1,685 (66)	2,030 (4,480)	•	•	•	•	•	٠	-	
2.79 (3.65)	2.47 (3.23)	1,865 (73)	2,300 (5,070)	•	•	•	۲	۲	۲	-	
3.00 (3.92)	2.70 (3.53)	1,985 (78)	2,440 (5,380)	•	•	۲	۲	۲	0	-	
\$2.20 (2.88)	1.93 (2.52)	1,685 (66)	2,320 (5,110)	•	•	•	•	•	٠	-	
2.43 (3.18)	2.11 (2.76)	1,830 (72)	2,450 (5,400)	•	•	•	•	•	۲	-	
\$2.79 (3.65)	2.47 (3.23)	1,865 (73)	2,630 (5,800)	•	•	•	۲	۲	0	-	
3.20 (4.19)	2.82 (3.69)	2,075 (82)	2,870 (6,330)	۲	۲	۲	0	0	0	-	
♦1.81 (2.37)	1.50 (1.96)	1,540 (61)	2,650 (5,840)	•	•	•	٠	•	-	-	
◆2.20 (2.88)	1.93 (2.52)	1,685 (66)	2,610 (5,750)	•	•	•	•	•	-	-	
◆2.43 (3.18)	2.11 (2.76)	1,830 (72)	2,730 (6,020)	•	•	•	٠	۲	-	-	
<b>◆</b> 2.79 (3.65)	2.47 (3.23)	1,865 (73)	2,950 (6,500)	•	۲	۲	۲	۲	-	-	
♦3.20 (4.19)	2.82 (3.69)	2,075 (82)	3,230 (7,120)	۲	۲	0	0	0	-	-	
◆2.70 (3.53)	2.39 (3.13)	1,800 (71)	2,770 (6,110)	•	•	•	۲	۲	-	-	
♦3.00 (3.92)	2.76 (3.61)	1,995 (79)	3,040 (6,700)	۲	۲	۲	0	0	-	-	

◆ Rock-Heavy duty bucket

#### ATTACHMENT

Booms and arms are welded with a low-stress, full-box section design. 6.55 m, 7.06 m, 9.0 m, and 2.4 m, 2.9 m, 3.38 m, 4.0 m, 6.0 m Arms are available.

DIGGING FORCE											
Boom	Length	mm (ft.in)	6,550	(21' 6")		7,060	(23' 2")		9,000 (29' 6")		
DOOLLI	Weight	kg (lb)	4,340	(9,570)		4,370	(9,630)		5,130 (11,310)	Remark	
Arm	Length	mm (ft.in)	2,400 (7' 10")	2,900 (9' 6")	2,400 (7' 10")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")	6,000 (19' 8")	Remark	
Arm	Weight	kg (lb)	2,430 (5,360)	2,630 (5,800)	2,430 (5,360)	2,630 (5,800)	2,670 (5,890)	2,760 (6,080)	3,290 (7,250)		
		kN	241.2 [263.2]	241.2 [263.2]	241.2 [263.2]	241.2 [263.2]	241.2 [263.2]	241.2 [263.2]	184.4		
	SAE	kgf	24600 [26840]	24600 [26840]	24600 [26840]	24600 [26840]	24600 [26840]	24600 [26840]	18800		
Bucket		lbf	54230 [59170]	54230 [59170]	54230 [59170]	54230 [59170]	54230 [59170]	54230 [59170]	41450		
digging - force	ISO	kN	280.5 [306.0]	280.5 [306.0]	280.5 [306.0]	280.5 [306.0]	280.5 [306.0]	280.5 [306.0]	213.8		
TOTEC		kgf	28600 [31200]	28600 [31200]	28600 [31200]	28600 [31200]	28600 [31200]	28600 [31200]	21800		
		lbf	63050 [68780]	63050 [68780]	63050 [68780]	63050 [68780]	63050 [68780]	63050 [68780]	48060	[]:	
		kN	278.5 [303.8]	225.6 [246.1]	278.5 [303.8]	225.6 [246.1]	192.2 [209.7]	171.6 [187.2]	103.0	Power Boost	
	SAE	kgf	28400 [30980]	23000 [25090]	28400 [30980]	23000 [25090]	19600 [21380]	17500 [19090]	10500	DOOSt	
Arm		lbf	62610 [68300]	50710 [55310]	62610 [68300]	50710 [55310]	43210 [47130]	38580 [42090]	23150		
crowd force		kN	291.3 [317.7]	235.4 [256.7]	291.3 [317.7]	235.4 [256.7]	200.1 [218.2]	177.5 [193.7]	105.9		
IOICE	ISO	kgf	29700 [32400]	24000 [26180]	29700 [32400]	24000 [26180]	20400 [22250]	18100 [19750]	10800		
		lbf	65480 [71430]	52910 [57720]	65480 [71430]	52910 [57720]	44970 [49050]	39900 [43540]	23810	]	

Note : Boom weight includes arm cylinder, piping, and pin Arm weight includes bucket cylinder, linkage, and pin

Engine throttle









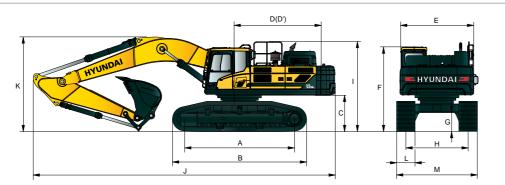
• Applicable for materials with density of 1,600 kg /m<sup>3</sup> (2,700 lb/ yd<sup>3</sup>) or less O : Applicable for materials with density of 1,100 kg /m<sup>3</sup> (1,850 lb/ yd<sup>3</sup>) or less

## **DIMENSIONS & WORKING RANGE**

## **LIFTING CAPACITY**

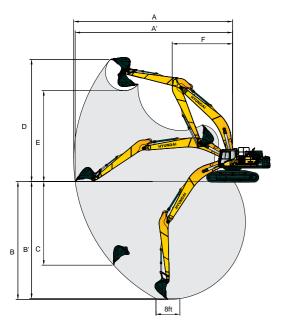
#### HX520 L DIMENSIONS

6.55 m (21' 6"), 7.06 m (23' 2"), 9.0 m (29' 6") BOOM and 2.4 m (7' 10"), 2.9 m (9' 6"), 3.38 m (11' 1"), 4.0 m (13' 1"), 6.0 m (19' 8") ARM



												Unit : n	nm (ft∙in)
А	Tumbler distance		4,470 (14' 8")		Boom ler	ath	6,5	50	7,060				9,000
В	Overall length of	crawler	5,405 (17' 7")		BOOIITIEI	igui	(21	' 6")		(23	2")		(29' 6")
С	Ground clearance	of counterweight	1,445 (4' 9")		Arm lend	ith	2,400	2,900	2,400	2,900	3,380	4,000	6,000
D	Tail swing radius		3,940 (12' 11")	_			(7' 10")	(9' 6")	(7' 10")	(9' 6")	(11' 1")	(13' 8")	(19' 8")
D'	Rear-end length		3,885 (12' 9")	J	J Overall length		12,000 (39' 4")	11,870	12,510	12,380	12,260	12,250	14,200
Е	Overall width of u	pperstructure	2,980 (9' 9")					(38' 11")	(41' 1")	(40' 7")	(40' 3")	(40' 2")	(46' 7")
F	Overall height of	cab	3,340 (10' 11")	К	K Overall height of boom		4,190 (13' 9")	4,080 (13' 5")	4,070 (13' 4")	3,920 (12' 10")	3,790 (12' 5")	4,090 (13' 5")	3,960 (13' 0")
G	Min. ground clear	ance	770 (2' 6")	_			(15 57	(15 57	(15 17	(12 10)	(12 57	(15 57	(15 07
		Extended	2,940 (9' 8")	L	Track sho	be width	600	(24")	700 (28	3") 7	750 (30")	80	0 (32")
Н	Track gauge	Retracted	2,380 (7' 10")			Extended	3,5		3,640		3,690		3,740
1	Overall height of	nt of guardrail 3.595 (11' 8")		3 595 (11' 8") M		erall	(11)	,	(11' 11	,	(12' 1")		2' 3")
			0,000 (11 0 /		width		2,9 (9' 1		3,080 (10' 1'		3,130 (10' 3")		3,180  0' 5")
							(9	0)	(10-1	)	(10.3)	(1	05)

#### HX520 L WORKING RANGE



							Unit :	mm (ft∙in)	
	Boom length		550 ' 6")		7,060 (23' 2")				
	Arm length	2,400 (7' 10")	2,900 (9' 6")	2,400 (7' 10")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")	6,000 (19' 8")	
А	Max. digging	10,690	11,130	11,200	11,620	12,040	12,600	16,180	
	reach	(35' 1")	(36' 6")	(36' 9")	(38' 1")	(39' 6")	(41' 4")	(53' 1")	
A,	Max. digging reach on ground	10,430 (34' 3")	10,870 (35' 8')	10,950 (35' 11")	11,380 (37' 4")	11,810 (38' 9")	12,380 (40' 7")	16,010 (52' 6")	
В	Max. digging	6,240	6,740	6,630	7,130	7,610	8,230	11,870	
	depth	(20' 6")	(22' 1")	(21' 9")	(23' 5")	(25' 0")	(27' 0")	(38' 11")	
B,	Max. digging	6,060	6,580	6,460	6,980	7,470	8,110	11,770	
	depth (8' level)	(19' 11")	(21' 7")	(21' 2")	(22' 11")	(24' 6")	(26' 7")	(38' 7")	
С	Max. vertical wall	4,370	5,420	4,650	5,660	5,770	6,320	8,360	
	digging depth	(14' 4")	(17' 9")	(15' 3")	(18' 7")	(18' 11")	(20' 9")	(27' 5")	
D	Max. digging	10,390	10,660	10,750	10,980	11,060	11,280	12,590	
	height	(34' 1")	(35' 0")	(35' 3")	(36' 0")	(36' 3")	(37' 0")	(41' 4")	
E	Max. dumping	7,040	7,210	7,410	7,540	7,690	7,910	9,410	
	height	(23' 1")	(23' 8")	(24' 4")	(24' 9")	(25' 3")	(25' 11")	(30' 10")	
F	Min. swing	4,870	4,540	5,160	4,890	4,850	4,710	6,140	
	radius	(16' 0")	(14' 11")	(16' 11")	(16' 1")	(15' 11")	(15' 5")	(20' 2")	

	210	) DOOM, 2.40	m (7° 10°) ar	m equipped	Load r		d) bucket ar	nd 600 mm (2	4") triple gro		max. reach	
Load po	oint 🗄	3.0 m (1	0 ft)	4.5 m (1		6.0 m (2	20 ft)	7.5 m (2	25 ft)	Сарас		Reach
heigh m (ft)		ľ	۳.	ľ		ŀ		ľ		U	G	m (ft)
6.0 m	kg					*13290	*13290	*12630	11600	*11270	7540	9.8
(20 ft)	lb					*29290	*29290	*27840	25560	*24840	16610	32.02
4.5 m	kg			*19010	*19010	*15250	*15250	*13520	11190	10630	6840	10.22
(15 ft)	lb			*41910	*41910	*33630	*33630	*29820	24660	23430	15070	33.39
3.0 m	kg					*17320	15170	*14580	10730	10240	6540	10.36
(10 ft)	lb					*38170	33450	*32140	23650	22560	14410	33.86
1.5 m	kg					*18760	14520	*15410	10350	10320	6560	10.25
(5 ft)	lb					*41370	32000	*333970	22810	22740	14460	33.48
Ground	kg			*24850	22470	*19270	14170	*15740	10110	10920	6943	9.86
Line	lb			*54790	49530	*42470	31240	*34690	22290	24080	15310	32.22
-1.5 m	kg	*26490	*26490	*23670	22520	*18780	14100	*15300	10070	*11680	7850	9.17
(-5 ft)	lb	*58390	*58390	*52180	49650	*41440	31090	*33740	22210	*25740	17300	29.95
-3.0 m	kg	*26910	*26910	*21450	*21450	*17220	14290			*11150	9790	8.05
(-10 ft)	lb	*59330	*59330	*47290	*47290	*37970	31510			*24580	21590	26.31
-4.5 m	kg			*17540	*17540					*10720	*10720	7.49
(-15 ft)	lb			*38660	*38660					*23640	*23640	24.46

6.55 m (21' 6") boom, 2.90 m (9' 6") arm equipped with 0.92 m<sup>3</sup> (SAE heap

						Load r	adius					At	max. reac	h
Load po		3.0 m (	10 ft)	4.5 m (	15 ft)	6.0 m (	(20 ft)	7.5 m (	25 ft)	9.0 m (	30 ft)	Capa	city	Reach
heigh m (ft)		ŀ	⋐	ŀ		ŀ	⋳	ŀ	╔╋╸	ŀ	⋳⋣⋑	ŀ	⋳	m (ft)
7.5 m	kg							*11640	*11640			*8710	8100	9.54
(25 ft)	lb							*25650	*25650			*19200	17850	31.17
6.0 m	kg							*12110	11690			*8690	6970	10.24
(20 ft)	lb							*26700	25770			*19170	15360	33.44
4.5 m	kg			*17530	*17530	*14570	*14570	*13130	11250			*8810	6340	10.63
(15 ft)	lb			*38640	*38640	*32110	*32110	*28940	24800			*19410	13990	34.73
3.0 m	kg			*22060	*22060	*16800	15320	*14310	10750	12550	7950	*9040	6060	10.77
(10 ft)	lb			*48640	*48640	*37040	33770	*31550	23710	27660	17530	*19930	13370	35.18
1.5 m	kg			*24760	22820	*18540	14560	*15320	10320	12290	7720	*9420	6070	10.66
(5 ft)	lb			*51590	50310	*40880	32100	*33770	22750	27100	17010	*20770	13380	34.82
Ground	kg			*25340	22320	*19390	14110	*15870	10020			*9990	6380	10.29
Line	lb			*55860	49210	*42740	31100	*34980	22090			*22230	14070	33.62
-1.5 m	kg	*24530	*24530	*24590	22260	*19270	13950	*15750	9910			*10880	7120	9.63
(-5 ft)	lb	*54080	*54080	*54220	49070	*42480	30750	*34720	21840			*23960	15700	31.47
-3.0 m	kg	*29690	*29690	*22760	22480	*18120	14040	*14610	10020			*11430	8670	8.59
(-10 ft)	lb	*65460	*65460	*50180	49560	*39940	30960	*32200	22100			*25200	19120	28.07
-4.5 m	kg			*19480	*19490	*15400	14460					*10840	*10840	7.5
(-15 ft)	lb			*42950	*42950	*33860	31880					*23900	*23900	24.5

Lifting capacity is based on ISO 10567.
 Load point is the end pin point of front attachment.



Rating over-front 🕞 Rating over-side or 360 degree

ped)	bucket	and	600	mm	(24'')	triple	grouser	shoe.

Lifting capacity does not exceed 75% of tipping load or 87% of hydraulic capacity.
 (\*) indicates the load limited by hydraulic capacity.

## **LIFTING CAPACITY**

HX520 L

Rating over-front (Rating over-side or 360 degree

7.06 m (23' 2") boom, 2.40 m (7' 10") arm equipped with 0.92 m <sup>3</sup> (SAE heaped) bucket and 600 mm (24") tr	triple grouser shoe.
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L a a al va	- 1 4					Load r		At max. reach						
Load po		3.0 m	(10 ft)	4.5 m (	15 ft)	6.0 m (	(20 ft)	7.5 m (	(25 ft)	9.0 m (	(30 ft)	Capacity		Reach
heigh m (ft		ľ	⋳⋣⋣	ŀ	⋐⋣⋑	ľ		ŀ		ŀ		ŀ	╔╋╋	m (ft)
7.5 m	kg							*11960	11760			*10860	7810	9.66
(25 ft)	lb							*26360	25920			*23940	17210	31.56
6.0 m	kg					*13590	*13590	*12590	11430			10460	6730	10.35
(20 ft)	lb					*29970	*29970	*27750	25200			23050	14840	33.8
4.5 m	kg					*15800	15620	*13470	10950	*12580	8060	9650	6150	10.74
(15 ft)	lb					*34820	34430	*30150	24130	*27740	17770	21280	13550	35.07
3.0 m	kg					*17920	14690	*14820	10450	12380	7810	9320	5880	10.87
(10 ft)	lb					*38510	32390	*32680	23030	27290	17210	20540	12970	35.52
1.5 m	kg					*19270	14070	*15690	10050	12140	7590	9380	5900	10.76
(5 ft)	lb					*42480	31010	*34590	22150	26760	16730	20670	13000	35.16
Ground	kg					*19640	13780	15940	9820			9870	6210	10.4
Line	lb					*43300	30370	35140	21640			21760	13700	33.97
-1.5 m	kg			*23730	22120	*19170	13740	*15770	9760			10980	6740	9.75
(-5 ft)	lb			*52320	48760	*42270	30290	*34760	21530			24210	15300	31.85
-3.0 m	kg	*26500	*26500	*21830	*21830	*17840	13910	*14540	9930			*11140	8420	8.74
(-10 ft)	lb	*58420	*58420	*48130	*48130	*39330	30680	*32060	21900			*24560	18560	28.54
-4.5 m	kg			*18680	*18680	*15140	14380					*10560	10260	7.8
(-15 ft)	lb			*41180	*41180	*33380	31710					*23280	22620	25.47

7.06 m (23' 2") boom, 2.90 m (9' 6") arm equipped with 0.92 m<sup>3</sup> (SAE heaped) bucket and 600 mm (24") triple grouser shoe.

						Load r	adius					At	h	
Load po		3.0 m	(10 ft)	4.5 m (	15 ft)	6.0 m (	20 ft)	7.5 m (	25 ft)	9.0 m (	30 ft)	Capa	city	Reach
heigh m (ft		ŀ	⋳⋣⋑	ŀ	⋳ <b>⋕</b>	ľ	⋳ <b>⋕</b>	ŀ			╔╋╸	ŀ	⋳⋣⋑	m (ft)
7.5 m	kg							*11360	*11360			*9210	7190	10.11
(25 ft)	lb							*25050	*25050			*20310	15860	33.03
6.0 m	kg							*12120	11520			*9220	6250	10.76
(20 ft)	lb							*26730	25400			*20340	13770	35.15
4.5 m	kg			*19010	*19010	*15110	*15110	*13300	11010	*12330	8060	9050	5720	11.13
(15 ft)	lb			*41900	*41900	*33310	*33310	*29320	24270	*27180	17770	19940	12600	36.37
3.0 m	kg			*23620	23090	*17420	14840	*14570	10470	12350	7770	8730	5470	11.26
(10 ft)	lb			*52060	50900	*38400	32710	*32120	23090	27230	17130	19250	12600	36.8
1.5 m	kg			*21570	*21570	*19080	14200	*15610	10020	12070	7510	8770	5460	11.16
(5 ft)	lb			*47560	*47560	*42070	31080	*34410	22090	26600	16560	19320	12040	36.45
Ground	kg			*25090	21760	*19800	13690	15860	9730	11880	7340	9180	5720	10.81
Line	lb			*55310	47970	*43660	30190	34960	21440	26180	16170	20230	12610	35.32
-1.5 m	kg	*20350	*20350	*24810	21780	*19640	13570	15730	9610			10110	6330	10.19
(-5 ft)	lb	*44860	*44560	*54690	48020	*43300	29910	34670	21180			22280	13950	33.3
-3.0 m	kg	*28610	*28610	*23130	22020	*18630	13670	*15310	9690			*11360	7540	9.23
(-10 ft)	lb	*63060	*63060	*50990	48550	*41080	30140	*33750	21360			*25040	16620	30.17
-4.5 m	kg			*20370	*20370	*16510	14020					*10730	10170	7.79
(-15 ft)	lb			*44710	*44910	*36390	30910					*23650	22430	25.43

7.06 m (23' 2") boom, 3.38 m (11' 1") arm equipped with 0.92 m<sup>3</sup> (SAE heaped) bucket and 600 mm (24") triple grouser shoe.

L a a al va a						Load r	adius					At	h	
Load po		3.0 m (	10 ft)	4.5 m (	15 ft)	6.0 m (	(20 ft)	7.5 m (	25 ft)	9.0 m (	30 ft)	Capa	city	Reach
heigh m (ft)		ŀ	⋳⋣⋑	ŀ	╔╋╸	ŀ	⋳⋕⋬	ŀ	⋐⋣⋛	ŀ	⋐⋣⋑	ŀ	⋳⋕⋬	m (ft)
6.0 m	kg							*11640	*11640	*11410	8380	*7750	5820	11.18
(20 ft)	lb							*25650	*25650	*25160	18480	*17080	12840	36.53
4.5 m	kg			*17410	*17410	*14350	*14350	*12860	11130	*12030	8110	*7860	5340	11.54
(15 ft)	lb			*38390	*38390	*31640	*31640	*28360	24540	*26530	17890	*17330	11780	37.7
3.0 m	kg			*22210	*22210	*16770	15090	*14210	10580	12390	7800	*8060	5120	11.67
(10 ft)	lb			*48960	*48960	*36960	33280	*31330	23320	27320	17200	*17760	11280	38.11
1.5 m	kg			*25070	22400	*18660	14280	*15370	10100	12080	7520	8240	5100	11.57
(5 ft)	lb			*55270	49380	*41150	31490	*33880	22260	26630	16570	18160	11250	37.78
Ground	kg			*25800	21880	*19670	13790	15990	9760	11848	7310	8580	5320	11.23
Line	lb			*56880	48230	*43370	30400	35040	21510	26120	16110	18930	11730	36.69
-1.5 m	kg	*19680	*19680	*25300	21780	*19800	13580	15700	9580	11750	7210	9370	5830	10.64
(-5 ft)	lb	*43390	*43390	*55780	48010	*43640	29940	34620	21130	25890	15900	20660	12860	34.77
-3.0 m	kg	*25950	*25950	*23920	21930	*19080	13600	15710	9590			*10510	6840	9.74
(-10 ft)	lb	*57200	*57200	*57200	48450	*42070	29990	346230	21140			*23180	15080	31.82
-4.5 m	kg	*27870	*27870	*21540	*21540	*17390	13850					*10990	8910	8.39
(-15 ft)	lb	*61430	*61430	*47480	*47480	*38330	30530					*24230	19640	27.41

1. Lifting capacity is based on ISO 10567.

2. Load point is the end pin point of front attachment.

3. Lifting capacity does not exceed 75% of tipping load or 87% of hydraulic capacity. 4. (\*) indicates the load limited by hydraulic capacity.

HX520	HX520 L																	
7.06 m	(23' 2	2") boom	n, 4.00 m	า (13' 1")	arm eq	uipped	with 0.9	2 m³ (SA	AE heape	ed) buck	ket and 6	600 mm	(24") trip	ole grou	iser shoe	<u></u> .		
								Load	radius							At	: max. re	ach
Load po		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)	9.0 m	(30 ft)	10.5 m	n (35 ft)	Cap	acity	Reach
heigh m (ft		ľ	₽₽	ľ	⊫	ľ	⊫	ŀ	⋐⋣⋑	ŀ	⋳⋕⋬	ŀ	⋐⋣⋽	ľ	⋳⋕⋬	ŀ	⊫	m (ft)
7.5 m	kg											*10410	8730			*7170	6000	11.19
(25 ft)	lb											*22950	19250			*15800	13240	36.54
6.0 m	kg											*10810	8540			*7190	5300	11.77
(20 ft)	lb											*23840	18830			*15850	11680	38.45
4.5 m	kg									*12150	11350	*11540	8240	*9510	6140	*7280	4880	12.11
(15 ft)	lb									*26790	25030	*25430	18170	*20960	13550	*16050	10770	39.55
3.0 m	kg					*20300	*20300	*15800	15460	*13620	10760	*12390	7900	9570	5960	*7450	4680	12.23
(10 ft)	lb					*44750	*44750	*34820	34070	*30040	23730	*27310	17410	21110	13140	*16430	10310	39.94
1.5 m	kg					*24060	22850	*18020	14520	*14970	10220	12150	7570	9380	5780	7590	4650	12.13
(5 ft)	lb					*53050	50390	*39730	32020	*33000	22530	26780	16690	20670	12730	16720	10260	39.63
Ground	kg			*14190	*14190	*25720	21980	*19430	13890	*15930	9805	11860	7310	9230	5640	7860	4820	11.82
Line	lb			*31290	*31290	*56710	48450	*42840	30620	*35120	21620	26150	16120	20340	12430	17340	10630	38.6
-1.5 m	kg	*14900	*14900	*18380	*18380	*25860	21670	*19950	13560	15680	9560	11690	7160			8490	5240	11.26
(-5 ft)	lb	*32850	*32850	*40520	*40520	*57000	47780	*43950	29900	34570	21070	25770	15770			18730	11550	36.78
-3.0 m	kg	*19020	*19020	*23290	*23290	*24940	21700	*19620	13480	15600	9480	16670	7140			7460	6020	10.42
(-10 ft)	lb	*41940	*41940	*51340	*51340	*54990	47830	*43250	29720	34390	20910	25720	15730			20850	13280	34.05
-4.5 m	kg			*29320	*29320	*23030	21980	*18390	13630	*15130	9600					10910	7550	9.2
(-15 ft)	lb			*64640	*64640	*50750	48470	*40550	30040	*33350	21160					24050	16650	30.05
-6.0 m	kg					*19800	*19800	*15870	14040							10660	9810	7.93
(-20 ft)	lb					*43650	*43550	*35000	30950							23500	21620	25.91

#### 9.00 m (29' 6") boom, 6.00 m (19' 8") arm equipped with 0.92 m<sup>3</sup> (SAE heaped) bucket and 600 mm (24") triple grouser shoe.

							Load	radius				At	max. rea	ch		
Load po		3.0m	(9.8ft)	5.0m (	16.3ft)	7.0m (2	22.9ft)	9.0m (2	29.4ft)	11.0m (	(35.9ft)	13.0m (	(42.5ft)	Capa	icity	Reach
heigh m (ft		ŀ	⋳⋕⋬	ľ		ľ		ŀ	⋳⋕⋬	ŀ	⋐⋣⋑	ŀ		ŀ	⋳⋕⋬	m (ft)
8.0 m	kg											*6240	4340	*5120	3370	14.83
(26 ft)	lb											*13760	9560	*11280	7430	48.46
6.0 m	kg									*9373	6090	6910	4180	5060	2900	15.44
(20 ft)	lb									*20670	13410	15230	9204	11160	6390	50.43
4.0 m	kg							*11050	8260	9120	5650	6650	3930	4720	2620	15.74
(13 ft)	lb							*24370	18200	20100	12460	14660	8670	10410	5770	51.4
2.0 m	kg			*21520	18830	*15430	11260	12150	7480	8930	5200	6370	3670	4580	2490	15.75
(7 ft)	lb			*47440	14510	*34020	24830	26790	16490	19030	11470	14040	8090	10100	5480	51.44
Ground	kg	*9910	*9910	*18740	16960	17170	10170	11440	6830	8206	4800	6120	3430	4640	2500	15.47
Line	lb	*21840	*21840	*41310	37400	37850	22420	25210	15060	18090	10590	13490	7570	10220	5510	50.54
-2.0 m	kg	*12430	*12430	*18870	16250	16450	9540	10950	6390	7990	4520	5950	3270	4910	2670	14.9
(-7 ft)	lb	*27400	*27400	*41310	35830	36270	21030	24140	14090	17410	9960	13110	7210	10830	5880	48.66
-4.0 m	kg	*15220	*15220	*21280	16130	16170	9290	10710	6170	7740	4370			5500	3060	13.97
(-13 ft)	lb	*33560	*33560	*46910	35570	35650	20480	23620	13610	17070	9640			12120	6740	45.64
-6.0 m	kg	*18350	*18350	*24410	16380	16220	9340	10710	6180	7780	4410			6630	3820	12.62
(-20 ft)	lb	*40460	*40460	*53810	36110	35760	20580	23620	13610	17150	9720			14620	8420	41.22
-8.0 m	kg	*21930	*21930	*21960	16950	16590	9660	10990	6430					9060	5450	10.63
(-26 ft)	lb	*48340	*48340	*48410	37370	36570	21290	24230	14170					19970	12020	34.72
-10.0 m	kg			*17820	*17820	*13830	10380							*10570	7950	8.72
(-33 ft)	lb			*39280	*39280	*30490	22880							*23290	17520	28.48

1. Lifting capacity is based on ISO 10567.

2. Load point is the end pin point of front attachment.

Rating over-front (F) Rating over-side or 360 degree

Lifting capacity does not exceed 75% of tipping load or 87% of hydraulic capacity.
 (\*) indicates the load limited by hydraulic capacity.