ENGINE	STD	OPT
Scania DC13 084A engine	●	
HYDRAULIC SYSTEM		
Intelligent Power Control (IPC)		
3-power mode, 2-work mode, user mode	●	
Variable Power Control	●	
Pump Flow Control	●	
Attachment Mode Flow Control		●
Engine Auto Idle	●	
Engine Auto Shutdown Control	●	
Hyundai Bio Hydraulic Oil (HBHO)		●
CAB & INTERIOR		
ISO Standard cabin		
Rise-up type windshield wiper	●	
Radio / USB player	●	
Handsfree mobile phone system with USB	●	
12 volt power outlet (24V DC to 12V DC converter)	●	
Electric horn	●	
All-weather steel cab with 360° visibility	●	
Safety glass - Tempered glass	●	
Safety glass - Tempered glass with front laminated glass		●
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 warning with alarm		●
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 front window rain guard		●
Cabin roof-steel cover		●
Seat		
Adjustable air suspension seat with heater		●
Cabin FOPS (ISO 10262) Level 2		
FOPS (Falling Object Protective Structure) · 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		
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		●
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

2020. 07 Rev.9

MOVING YOU FURTHER

HX520 L

With Tier4 final / Stage Ⅳ Engine installed

*Photo may include optional equipment.

Net Power
SAE J1349 / 424 HP (316 kW) at 1,900 rpm

Gross Power
SAE J1995 / 444 HP (331 kW) at 1,900 rpm

Travel Speed
5.3 km/hr (3.29 mph) / 3.3 km/hr (2.05 mph)

Operating Weight
52,400 kg / 115,520 lb

HYUNDAI CONSTRUCTION EQUIPMENT

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.

*Photo may include optional equipment.

RULE THE GROUND

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

HX520 L

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

- 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
- Proportional Auxiliary Hydraulic System
- New Audio System
- New Air Conditioning System

MODERN COMFORT, SIMPLE AND SAFE SOLUTION

- AAVM (Advanced Around View Monitoring) Camera System (Option)
- Hi MATE (Remote Management System) (Option)
- Easy Access to DEF/AdBlue® Supply System
- Cab Suspension Mount

*Photo may include optional equipment.

*Photo may include optional equipment.

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.

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.

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.

Attachment Flow Control (Option)

The HX Series improves pump flow rate by giving the operator independent control of two pumps. It optimizes flow rate settings according to the attachment type (ten breaker types and ten crusher types), which is ideal for various applications.

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.

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.

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.

*Photo may include optional equipment.

Hi-grade (High-pressure) Hoses

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

*Photo may include optional equipment.

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.

Haptic Control

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

Proportional Auxiliary Hydraulic System(Option)

· Proportional control switch for better speed control
· Enlarge the operation convenience

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.

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)

H 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 tele-communication 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.

*Photo may include optional equipment.

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

ENGINE

Maker / Model			Scania DC13 084A
Type			4-cycle turbocharged, charge air cooled diesel engine
Rated flywheel horse power	SAE	J1995 (gross)	444 HP (331 kW) at 1,900 rpm
		J1349 (net)	424 HP (316 kW) at 1,900 rpm
	DIN	6271/1 (gross)	450 PS (331 kW) at 1,900 rpm
		6271/1 (net)	430 PS (316 kW) at 1,900 rpm
Max. torque			232 kgf · m (1,678 lbf · ft) at 1300 rpm
Bore X stroke			130×160 mm (5.12"×6.3")
Piston displacement			12,700 cc (775 cu in)
Batteries			24 V×200 Ah
Starting motor			24 V×6 kW
Alternator			24 V×100 A

HYDRAULIC SYSTEM

MAIN PUMP

Type	Variable displacement tandem axis piston pumps
Max. flow	2×380.0 ℓ/min (100.4 U.S. gpm / 83.6 U.K. gpm)
Sub-pump for pilot circuit	Gear pump

Cross-sensing and fuel saving pump system

HYDRAULIC MOTORS

Travel	Two speed axial pistons motor with brake valve and parking brake
Swing	Axial piston motor with automatic brake

RELIEF VALVE SETTING

Implement circuits	330 kgf/cm² (4,690 psi)
Travel	330 kgf/cm² (4,690 psi)
Power boost (boom, arm, bucket)	360 kgf/cm² (5,120 psi)
Swing circuit	285 kgf/cm² (4,050 psi)
Pilot circuit	40 kgf/cm² (569 psi)
Service valve	Installed

HYDRAULIC CYLINDERS

No. of cylinder bore X stroke	Boom: Ø170×1,570 ST
	Arm: Ø190×1,820 ST
	Bucket: Ø170×1,370 ST

*** Hyundai Bio Hydraulic Oil (HBHO) available**

DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	34,100 kgf (75,180 lbf)
Max. travel speed (high / low)	5.3 km/hr (3.29 mph) / 3.3 km/hr (2.05 mph)
Gradeability	35° (70%)
Parking brake	Multi wet disc

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, Boom and bucket (ISO)
Traveling and steering	Two levers with pedals
Engine throttle	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 frame	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 roller on each side	9 EA
No. of rail guard on each side	2 EA

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 7,060mm (23' 2") boom, 3,380mm (11' 1") arm, SAE heaped 2.2m³ (2.88 yd³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

OPERATING WEIGHT

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

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 0.8kg refrigerant consisting of a CO_2 equivalent 1.14kg metric tonne. For more information, Please refer to the manual.

BUCKET SELECTION GUIDE & DIGGING FORCE

BUCKETS

SAE heaped m³ (yd³)					
	1.00 (1.31)	◈2.20 (2.88)	◆2.20 (2.88)	◆1.81 (2.37)	◆2.70 (3.53)
	1.38 (1.8)	◈2.43 (3.18)	◆2.43 (3.18)		◆3.00 (3.92)
	2.20 (2.88)	◈2.79 (3.65)	◆2.79 (3.65)		
	2.79 (3.65)	◈3.20 (4.19)	◆3.20 (4.19)		
	3.00 (3.92)				

Capacity m³ (yd³)		Width mm (in)	Weight kg (lb)	Recommendation mm (ft.in)						
				6,550 (21' 6") Boom		7,060 (23' 2") Boom				9,000 (29' 6") Boom
SAE heaped	CECE heaped			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)	●	●	●	●	●	●	○
2.20 (2.88)	1.93 (2.52)	1,685 (66)	2,030 (4,480)	●	●	●	●	●	●	-
2.79 (3.65)	2.47 (3.23)	1,865 (73)	2,300 (5,070)	●	●	●	⊙	⊙	⊙	-
3.00 (3.92)	2.70 (3.53)	1,985 (78)	2,440 (5,380)	●	●	⊙	⊙	⊙	○	-
◈2.20 (2.88)	1.93 (2.52)	1,685 (66)	2,320 (5,110)	●	●	●	●	●	●	-
◈2.43 (3.18)	2.11 (2.76)	1,830 (72)	2,450 (5,400)	●	●	●	●	●	⊙	-
◈2.79 (3.65)	2.47 (3.23)	1,865 (73)	2,630 (5,800)	●	●	●	⊙	⊙	○	-
◈3.20 (4.19)	2.82 (3.69)	2,075 (82)	2,870 (6,330)	⊙	⊙	⊙	○	○	○	-
◆1.81 (2.37)	1.50 (1.96)	1,540 (61)	2,650 (5,840)	●	●	●	●	●	-	-
◆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)	●	●	●	●	⊙	-	-
◆2.79 (3.65)	2.47 (3.23)	1,865 (73)	2,950 (6,500)	●	⊙	⊙	⊙	⊙	-	-
◆3.20 (4.19)	2.82 (3.69)	2,075 (82)	3,230 (7,120)	⊙	⊙	○	○	○	-	-
◆2.70 (3.53)	2.39 (3.13)	1,800 (71)	2,770 (6,110)	●	●	●	⊙	⊙	-	-
◆3.00 (3.92)	2.76 (3.61)	1,995 (79)	3,040 (6,700)	⊙	⊙	⊙	○	○	-	-

◈ Heavy duty bucket
◆ Rock-Heavy duty bucket

● : Applicable for materials with density of 2,000 kg /m³ (3,370 lb/ yd³) or less
⊙ : Applicable for materials with density of 1,600 kg /m³ (2,700 lb/ yd³) or less
○ : Applicable for materials with density of 1,100 kg /m³ (1,850 lb/ yd³) or less

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

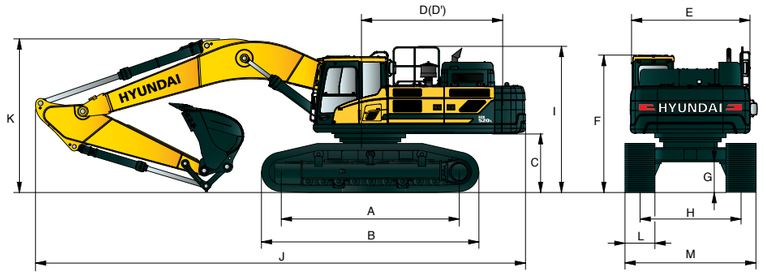
Boom	Length	mm (ft.in)	6,550 (21' 6")		7,060 (23' 2")				9,000 (29' 6")	Remark
	Weight	kg (lb)	4,340 (9,570)		4,370 (9,630)				5,130 (11,310)	
Arm	Length	mm (ft.in)	2,400 (7' 10")	2,900 (9' 6")	2,400 (7' 10")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")	6,000 (19' 8")	
	Weight	kg (lb)	2,430 (5,360)	2,630 (5,800)	2,430 (5,360)	2,630 (5,800)	2,670 (5,890)	2,760 (6,080)	3,290 (7,250)	
Bucket digging force	SAE	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	[ ] : Power Boost
		kgf	24,600 [26840]	24,600 [26,840]	24,600 [26,840]	24,600 [26,840]	24,600 [26,840]	24,600 [26,840]	18,800	
		lbf	54,230 [59170]	54,230 [59,170]	54,230 [59,170]	54,230 [59,170]	54,230 [59,170]	54,230 [59,170]	41,450	
	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	
		kgf	28,600 [31,200]	28,600 [31,200]	28,600 [31,200]	28,600 [31,200]	28,600 [31,200]	28,600 [31,200]	21,800	
		lbf	63,050 [68,780]	63,050 [68,780]	63,050 [68,780]	63,050 [68,780]	63,050 [68,780]	63,050 [68,780]	48,060	
Arm crowd force	SAE	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	
		kgf	28,400 [30,980]	23,000 [25,090]	28,400 [30,980]	23,000 [25,090]	19,600 [21,380]	17,500 [19,090]	10,500	
		lbf	62,610 [68,300]	50,710 [55,310]	62,610 [68,300]	50,710 [55,310]	43,210 [47,130]	38,580 [42,090]	23,150	
	ISO	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	
		kgf	29,700 [32,400]	24,000 [26,180]	29,700 [32,400]	24,000 [26,180]	20,400 [22,250]	18,100 [19,750]	10,800	
		lbf	65,480 [71,430]	52,910 [57,720]	65,480 [71,430]	52,910 [57,720]	44,970 [49,050]	39,900 [43,540]	23,810	

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

DIMENSIONS & WORKING RANGE

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

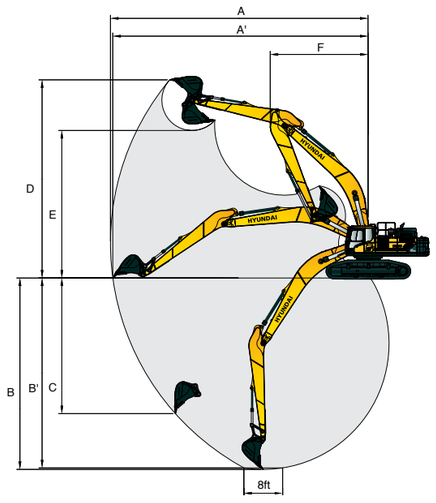


Unit : mm (ft · in)

A	Tumbler distance		4,470 (14' 8")
B	Overall length of crawler		5,405 (17' 7")
C	Ground clearance of counterweight		1,445 (4' 9")
D	Tail swing radius		3,940 (12' 11")
D'	Rear-end length		3,885 (12' 9")
E	Overall width of upperstructure		2,980 (9' 9")
F	Overall height of cab		3,340 (10' 11")
G	Min. ground clearance		770 (2' 6")
H	Track gauge	Extended	2,940 (9' 8")
		Retracted	2,380 (7' 10")
I	Overall height of guardrail		3,595 (11' 8")

	Boom length	6,550 (21' 6")		7,060 (23' 2")				9,000 (29' 6")
	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' 8")	6,000 (19' 8")
J	Overall length	12,000 (39' 4")	11,870 (38' 11")	12,510 (41' 1")	12,380 (40' 7")	12,260 (40' 3")	12,250 (40' 2")	14,200 (46' 7")
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")
L	Track shoe width	600 (24")		700 (28")		750 (30")		800 (32")
M	Overall width Extended	3,540 (11' 7")		3,640 (11' 11")		3,690 (12' 1")		3,740 (12' 3")
	Overall width Retracted	2,980 (9' 10")		3,080 (10' 1")		3,130 (10' 3")		3,180 (10' 5")

HX520 L WORKING RANGE



Unit : mm (ft · in)

	Boom length	6,550 (21' 6")		7,060 (23' 2")				9,000 (29' 6")
	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")
A	Max. digging reach	10,690 (35' 1")	11,130 (36' 6")	11,200 (36' 9")	11,620 (38' 1")	12,040 (39' 6")	12,600 (41' 4")	16,180 (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")
B	Max. digging depth	6,240 (20' 6")	6,740 (22' 1")	6,630 (21' 9")	7,130 (23' 5")	7,610 (25' 0")	8,230 (27' 0")	11,870 (38' 11")
B'	Max. digging depth (8' level)	6,060 (19' 11")	6,580 (21' 7")	6,460 (21' 2")	6,980 (22' 11")	7,470 (24' 6")	8,110 (26' 7")	11,770 (38' 7")
C	Max. vertical wall digging depth	4,370 (14' 4")	5,420 (17' 9")	4,650 (15' 3")	5,660 (18' 7")	5,770 (18' 11")	6,320 (20' 9")	8,360 (27' 5")
D	Max. digging height	10,390 (34' 1")	10,660 (35' 0")	10,750 (35' 3")	10,980 (36' 0")	11,060 (36' 3")	11,280 (37' 0")	12,590 (41' 4")
E	Max. dumping height	7,040 (23' 1")	7,210 (23' 8")	7,410 (24' 4")	7,540 (24' 9")	7,690 (25' 3")	7,910 (25' 11")	9,410 (30' 10")
F	Min. swing radius	4,870 (16' 0")	4,540 (14' 11")	5,160 (16' 11")	4,890 (16' 1")	4,850 (15' 11")	4,710 (15' 5")	6,140 (20' 2")

LIFTING CAPACITY

Rating over-front Rating over-side or 360 degree

HX520 L

6.55 m (21' 6") boom, 2.40 m (7' 10") arm equipped with 0.92 m³ (SAE heaped) bucket and 600 mm (24") triple grouser shoe.

Load point height m (ft)		Load radius 3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		At max. reach Capacity		Reach
												m (ft)
6.0 m	kg					*13,290	*13,290	*12,630	11,600	*11,270	7,540	9.8
(20 ft)	lb					*29,290	*29,290	*27,840	25,560	*24,840	16,610	32.02
4.5 m	kg			*19,010	*19,010	*15,250	*15,250	*13,520	11,190	10,630	6,840	10.22
(15 ft)	lb			*41,910	*41,910	*33,630	*33,630	*29,820	24,660	23,430	15,070	33.39
3.0 m	kg					*17,320	15,170	*14,580	10,730	10,240	6,540	10.36
(10 ft)	lb					*38,170	33,450	*32,140	23,650	22,560	14,410	33.86
1.5 m	kg					*18,760	14,520	*15,410	10,350	10,320	6,560	10.25
(5 ft)	lb					*41,370	32,000	*33,970	22,810	22,740	14,460	33.48
Ground	kg			*24,850	22,470	*19,270	14,170	*15,740	10,110	10,920	6,943	9.86
Line	lb			*54,790	49,530	*42,470	31,240	*34,690	22,290	24,080	15,310	32.22
-1.5 m	kg	*26,490	*26,490	*23,670	22,520	*18,780	14,100	*15,300	10,070	*11,680	7,850	9.17
(-5 ft)	lb	*58,390	*58,390	*52,180	49,650	*41,440	31,090	*33,740	22,210	*25,740	17,300	29.95
-3.0 m	kg	*26,910	*26,910	*21,450	*21,450	*17,220	14,290			*11,150	9,790	8.05
(-10 ft)	lb	*59,330	*59,330	*47,290	*47,290	*37,970	31,510			*24,580	21,590	26.31
-4.5 m	kg			*17,540	*17,540					*10,720	*10,720	7.49
(-15 ft)	lb			*38,660	*38,660					*23,640	*23,640	

6.55 m (21' 6") boom, 2.90 m (9' 6") arm equipped with 0.92 m³ (SAE heaped) bucket and 600 mm (24") triple grouser shoe.

Load point height m (ft)		Load radius 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)		At max. reach Capacity		Reach
														m (ft)
7.5 m	kg							*11,640	*11,640			*8,710	8,100	9.54
(25 ft)	lb							*25,650	*25,650			*19,200	17,850	31.17
6.0 m	kg							*12,110	11,690			*8,690	6,970	10.24
(20 ft)	lb							*26,700	25,770			*19,170	15,360	33.44
4.5 m	kg			*17,530	*17,530	*14,570	*14,570	*13,130	11,250			*8,810	6,340	10.63
(15 ft)	lb			*38,640	*38,640	*32,110	*32,110	*28,940	24,800			*19,410	13,990	34.73
3.0 m	kg			*22,060	*22,060	*16,800	15,320	*14,310	10,750	12,550	7,950	*9,040	6,060	10.77
(10 ft)	lb			*48,640	*48,640	*37,040	33,770	*31,550	23,710	27,660	17,530	*19,930	13,370	35.18
1.5 m	kg			*24,760	22,820	*18,540	14,560	*15,320	10,320	12,290	7,720	*9,420	6,070	10.66
(5 ft)	lb			*51,590	50,310	*40,880	32,100	*33,770	22,750	27,100	17,010	*20,770	13,380	34.82
Ground	kg			*25,340	22,320	*19,390	14,110	*15,870	10,020			*9,990	6,380	10.29
Line	lb			*55,860	49,210	*42,740	31,100	*34,980	22,090			*22,230	14,070	33.62
-1.5 m	kg	*24,530	*24,530	*24,590	22,260	*19,270	13,950	*15,750	9,910			*10,880	7,120	9.63
(-5 ft)	lb	*54,080	*54,080	*54,220	49,070	*42,480	30,750	*34,720	21,840			*23,960	15,700	31.47
-3.0 m	kg	*29,690	*29,690	*22,760	22,480	*18,120	14,040	*14,610	10,020			*11,430	8,670	8.59
(-10 ft)	lb	*65,460	*65,460	*50,180	49,560	*39,940	30,960	*32,200	22,100			*25,200	19,120	28.07
-4.5 m	kg			*19,480	*19,490	*15,400	14,460					*10,840	*10,840	7.5
(-15 ft)	lb			*42,950	*42,950	*33,860	31,880				*23,900	*23,900		24.5

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.

LIFTING CAPACITY

Rating over-front Rating over-side or 360 degree

HX520 L

7.06 m (23' 2") boom, 2.40 m (7' 10") arm equipped with 0.92 m³ (SAE heaped) bucket and 600 mm (24") triple grouser shoe.

Load point height m (ft)		Load radius										At max. reach		
		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
														m (ft)
7.5 m	kg							*11,960	11,760			*10,860	7,810	9.66
(25 ft)	lb							*26,360	25,920			*23,940	17,210	31.56
6.0 m	kg					*13,590	*13,590	*12,590	11,430			10,460	6,730	10.35
(20 ft)	lb					*29,970	*29,970	*27,750	25,200			23,050	14,840	33.8
4.5 m	kg					*15,800	15,620	*13,470	10,950	*12,580	8,060	9,650	6,150	10.74
(15 ft)	lb					*34,820	34,430	*30,150	24,130	*27,740	17,770	21,280	13,550	35.07
3.0 m	kg					*17,920	14,690	*14,820	10,450	12,380	7,810	9,320	5,880	10.87
(10 ft)	lb					*38,510	32,390	*32,680	23,030	27,290	17,210	20,540	12,970	35.52
1.5 m	kg					*19,270	14,070	*15,690	10,050	12,140	7,590	9,380	5,900	10.76
(5 ft)	lb					*42,480	31,010	*34,590	22,150	26,760	16,730	20,670	13,000	35.16
Ground	kg					*19,640	13,780	15,940	9,820			9,870	6,210	10.4
Line	lb					*43,300	30,370	35,140	21,640			21,760	13,700	33.97
-1.5 m	kg			*23,730	22,120	*19,170	13,740	*15,770	9,760			10,980	6,740	9.75
(-5 ft)	lb			*52,320	48,760	*42,270	30,290	*34,760	21,530			24,210	15,300	31.85
-3.0 m	kg	*26,500	*26,500	*21,830	*21,830	*17,840	13,910	*14,540	9,930			*11,140	8,420	8.74
(-10 ft)	lb	*58,420	*58,420	*48,130	*48,130	*39,330	30,680	*32,060	21,900			*24,560	18,560	28.54
-4.5 m	kg			*18,680	*18,680	*15,140	14,380					*10,560	10,260	7.8
(-15 ft)	lb			*41,180	*41,180	*33,380	31,710				*23,280	22,620		25.47

7.06 m (23' 2") boom, 2.90 m (9' 6") arm equipped with 0.92 m³ (SAE heaped) bucket and 600 mm (24") triple grouser shoe.

Load point height m (ft)		Load radius										At max. reach		
		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
														m (ft)
7.5 m	kg							*11,360	*11,360			*9,210	7,190	10.11
(25 ft)	lb							*25,050	*25,050			*20,310	15,860	33.03
6.0 m	kg							*12,120	11,520			*9,220	6,250	10.76
(20 ft)	lb							*26,730	25,400			*20,340	13,770	35.15
4.5 m	kg			*19,010	*19,010	*15,110	*15,110	*13,300	11,010	*12,330	8,060	9,050	5,720	11.13
(15 ft)	lb			*41,900	*41,900	*33,310	*33,310	*29,320	24,270	*27,180	17,770	19,940	12,600	36.37
3.0 m	kg			*23,620	23,090	*17,420	14,840	*14,570	10,470	12,350	7,770	8,730	5,470	11.26
(10 ft)	lb			*52,060	50,900	*38,400	32,710	*32,120	23,090	27,230	17,130	19,250	12,600	36.8
1.5 m	kg			*21,570	*21,570	*19,080	14,200	*15,610	10,020	12,070	7,510	8,770	5,460	11.16
(5 ft)	lb			*47,560	*47,560	*42,070	31,080	*34,410	22,090	26,600	16,560	19,320	12,040	36.45
Ground	kg			*25,090	21,760	*19,800	13,690	15,860	9,730	11,880	7,340	9,180	5,720	10.81
Line	lb			*55,310	47,970	*43,660	30,190	34,960	21,440	26,180	16,170	20,230	12,610	35.32
-1.5 m	kg	*20,350	*20,350	*24,810	21,780	*19,640	13,570	15,730	9,610			10,110	6,330	10.19
(-5 ft)	lb	*44,860	*44,560	*54,690	48,020	*43,300	29,910	34,670	21,180			22,280	13,950	33.3
-3.0 m	kg	*28,610	*28,610	*23,130	22,020	*18,630	13,670	*15,310	9,690			*11,360	7,540	9.23
(-10 ft)	lb	*63,060	*63,060	*50,990	48,550	*41,080	30,140	*33,750	21,360			*25,040	16,620	30.17
-4.5 m	kg			*20,370	*20,370	*16,510	14,020					*10,730	10,170	7.79
(-15 ft)	lb			*44,710	*44,910	*36,390	30,910				*23650	22,430		25.43

7.06 m (23' 2") boom, 3.38 m (11' 1") arm equipped with 0.92 m³ (SAE heaped) bucket and 600 mm (24") triple grouser shoe.

Load point height m (ft)		Load radius										At max. reach		
		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
														m (ft)
6.0 m	kg							*11,640	*11,640	*11,410	8,380	*7,750	5,820	11.18
(20 ft)	lb							*25,650	*25,650	*25,160	18,480	*17,080	12,840	36.53
4.5 m	kg			*17,410	*17,410	*14,350	*14,350	*12,860	11,130	*12,030	8,110	*7,860	5,340	11.54
(15 ft)	lb			*38,390	*38,390	*31,640	*31,640	*28,360	24,540	*26,530	17,890	*17,330	11,780	37.7
3.0 m	kg			*22,210	*22,210	*16,770	15,090	*14,210	10,580	12,390	7,800	*8,060	5,120	11.67
(10 ft)	lb			*48,960	*48,960	*36,960	33,280	*31,330	23,320	27,320	17,200	*17,760	11,280	38.11
1.5 m	kg			*25,070	22,400	*18,660	14,280	*15,370	10,100	12,080	7,520	8,240	5,100	11.57
(5 ft)	lb			*55,270	49,380	*41,150	31,490	*33,880	22,260	26,630	16,570	18,160	11,250	37.78
Ground	kg			*25,800	21,880	*19,670	13,790	15,990	9,760	11,848	7,310	8,580	5,320	11.23
Line	lb			*56,880	48,230	*43,370	30,400	35,040	21,510	26,120	16,110	18,930	11,730	36.69
-1.5 m	kg	*19,680	*19,680	*25,300	21,780	*19,800	13,580	15,700	9,580	11,750	7,210	9,370	5,830	10.64
(-5 ft)	lb	*43,390	*43,390	*55,780	48,010	*43,640	29,940	34,620	21,130	25,890	15,900	20,660	12,860	34.77
-3.0 m	kg	*25,950	*25,950	*23,920	21,930	*19,080	13,600	15,710	9,590			*10,510	6,840	9.74
(-10 ft)	lb	*57,200	*57,200	*57,200	48,450	*42,070	29,990	34,230	21,140			*23,180	15,080	31.82
-4.5 m	kg	*27,870	*27,870	*21,540	*21,540	*17,390	13,850					*10,990	8,910	8.39
(-15 ft)	lb	*61,430	*61,430	*47,480	*47,480	*38,330	30,530				*24,230	19,640		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.

Rating over-front Rating over-side or 360 degree

HX520 L

7.06 m (23' 2") boom, 4.00 m (13' 1") arm equipped with 0.92 m³ (SAE heaped) bucket and 600 mm (24") triple grouser shoe.

Load point height m (ft)		Load radius												At max. reach		
		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 (35 ft)		Capacity		Reach
																		m (ft)
7.5 m	kg											*10,410	8,730			*7,170	6,000	11.19
(25 ft)	lb											*22,950	19,250			*15,800	13,240	36.54
6.0 m	kg											*10,810	8,540			*7,190	5,300	11.77
(20 ft)	lb											*23,840	18,830			*15,850	11,680	38.45
4.5 m	kg									*12,150	11,350	*11,540	8,240	*9,510	6,140	*7,280	4,880	12.11
(15 ft)	lb									*26,790	25,030	*25,430	18,170	*20,960	13,550	*16,050	10,770	39.55
3.0 m	kg					*20,300	*20,300	*15,800	15,460	*13,620	10,760	*12,390	7,900	9,570	5,960	*7,450	4,680	12.23
(10 ft)	lb					*44,750	*44,750	*34,820	34,070	*30,040	23,730	*27,310	17,410	21,110	13,140	*16,430	10,310	39.94
1.5 m	kg					*24,060	22,850	*18,020	14,520	*14,970	10,220	12,150	7,570	9,380	5,780	7,590	4,650	12.13
(5 ft)	lb					*53,050	50,390	*39,730	32,020	*33,000	22,530	26,780	16,690	20,670	12,730	16,720	10,260	39.63
Ground	kg			*14,190	*14,190	*25,720	21,980	*19,430	13,890	*15,930	9,805	11,860	7,310	9,230	5,640	7,860	4,820	11.82
Line	lb			*31,290	*31,290	*56,710	48,450	*42,840	30,620	*35,120	21,620	26,150	16,120	20,340	12,430	17,340	10,630	38.6
-1.5 m	kg	*14,900	*14,900	*18,380	*18,380	*25,860	21,670	*19,950	13,560	15,680	9,560	11,690	7,160			8,490	5,240	11.26
(-5 ft)	lb	*32,850	*32,850	*40,520	*40,520	*57,000	47,780	*43,950	29,900	34,570	21,070	25,770	15,770			18,730	11,550	36.78
-3.0 m	kg	*19,020	*19,020	*23,290	*23,290	*24,940	21,700	*19,620	13,480	15,600	9,480	16,670	7,140			7,460	6,020	10.42
(-10 ft)	lb	*41,940	*41,940	*51,340	*51,340	*54,990	47,830	*43,250	29,720	34,390	20,910	25,720	15,730			20,850	13,280	34.05
-4.5 m	kg			*29,320	*29,320	*23,030	21,980	*18,390	13,630	*15,130	9,600					10,910	7,550	9.2
(-15 ft)	lb			*64,640	*64,640	*50,750	48,470	*40,550	30,040	*33,350	21,160					24,050	16,650	30.05
-6.0 m	kg					*19,800	*19,800	*15,870	14,040							10,660	9,810	7.93
(-20 ft)	lb					*43,650	*43,550	*35,000	30,950							23,500	21,620	25.91

9.00 m (29' 6") boom, 6.00 m (19' 8") arm equipped with 0.92 m³ (SAE heaped) bucket and 600 mm (24") triple grouser shoe.

Load point height m (ft)		Load radius												At max. reach		
		3.0m (9.8ft)		5.0m (16.3ft)		7.0m (22.9ft)		9.0m (29.4ft)		11.0m (35.9ft)		13.0m (42.5ft)		Capacity		Reach
																m (ft)
8.0 m	kg											*6,240	4,340	*5,120	3,370	14.83
(26 ft)	lb											*13,760	9,560	*11,280	7,430	48.46
6.0 m	kg									*9,373	6,090	6,910	4,180	5,060	2,900	15.44
(20 ft)	lb									*20,670	13,410	15,230	9,204	11,160	6,390	50.43
4.0 m	kg							*11,050	8,260	9,120	5,650	6,650	3,930	4,720	2,620	15.74
(13 ft)	lb							*24,370	18,200	20,100	12,460	14,660	8,670	10,410	5,770	51.4
2.0 m	kg			*21,520	18,830	*15,430	11,260	12,150	7,480	8,930	5,200	6,370	3,670	4,580	2,490	15.75
(7 ft)	lb			*47,440	14,510	*34,020	24,830	26,790	16,490	19,030	11,470	14,040	8,090	10,100	5,480	51.44
Ground	kg	*9,910	*9,910	*18,740	16,960	17,170	10,170	11,440	6,830	8,206	4,800	6,120	3,430	4,640	2,500	15.47
Line	lb	*21,840	*21,840	*41,310	37,400	37,850	22,420	25,210	15,060	18,090	10,590	13,490	7,570	10,220	5,510	50.54
-2.0 m	kg	*12,430	*12,430	*18,870	16,250	16,450	9,540	10,950	6,390	7,990	4,520	5,950	3,270	4,910	2,670	14.9
(-7 ft)	lb	*27,400	*27,400	*41,310	35,830	36,270	21,030	24,140	14,090	17,410	9,960	13,110	7,210	10,830	5,880	48.66
-4.0 m	kg	*15,220	*15,220	*21,280	16,130	16,170	9,290	10,710	6,170	7,740	4,370			5,500	3,060	13.97
(-13 ft)	lb	*33,560	*33,560	*46,910	35,570	35,650	20,480	23,620	13,610	17,070	9,640			12,120	6,740	45.64
-6.0 m	kg	*18,350	*18,350	*24,410	16,380	16,220	9,340	10,710	6,180	7,780	4,410			6,630	3,820	12.62
(-20 ft)	lb	*40,460	*40,460	*53,810	36,110	35,760	20,580	23,620	13,610	17,150	9,720			14,620	8,420	41.22
-8.0 m	kg	*21,930	*21,930	*21,960	16,950	16,590	9,660	10,990	6,430					9,060	5,450	10.63
(-26 ft)	lb	*48,340	*48,340	*48,410	37,370	36,570	21,290	24,230	14,170					19,970	12,020	34.72
-10.0 m	kg			*17,820	*17,820	*13,830	10,380							*10,570	7,950	8.72
(-33 ft)	lb			*39,280	*39,280	*30,490	22,880							*23,290	17,520	28.48

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.