

# CRAWLER EXCAVATOR HX220AL

HX220AHW / HX220ALR



The HX220AL Crawler Excavator is part of Hyundai's brand new A-series: a fresh generation of construction equipment that complies with the European stage V emission levels. But it does much more than that! While fulfilling regulatory demands, Hyundai aimed for a ground-breaking level of customer satisfaction with maximum performance and productivity, better safety, more convenience and improved uptime management.

From its robust exterior design to its smart performance-enhancing technologies, the HX220AL opens up a world of new possibilities where tiny efforts move mountains. It's time to experience the Hyundai Effect!



# ENTER A WORLD WHERE ANYTHING IS POSSIBLE

#### **Productivity**

- Short cycle times
- · Mono or two-piece boom
- Leading controllability with Electronic Pump Flow Control (EPFC)
- · Customisable hydraulic attachment lines
- · Attachment flow control (20 tools programmable)
- · Fine swing control (option)
- Boom floating system (option)

#### **Comfort**

- Spacious cabin
- · 8" touchscreen monitor
- Automatic climate control
- Smart key and start/stop button
- Air suspension seat with heater (option)
- Viscous cabin suspension mounts
- Ergonomic joystick design

#### **Durability/Safety**

- Excellent visibility
- AAVM camera system (option)
- LED lights (option)
- · Reinforced upper and lower structure
- · High-grade hoses
- · Reinforced pins, bushings and polymer shims

#### Serviceability

- Excellent accessibility
- Electric Fuel Filter Pump with Automatic Stop Function
- · Centralised greasing (option)
- · Hi Mate telematic system
- Extended service intervals



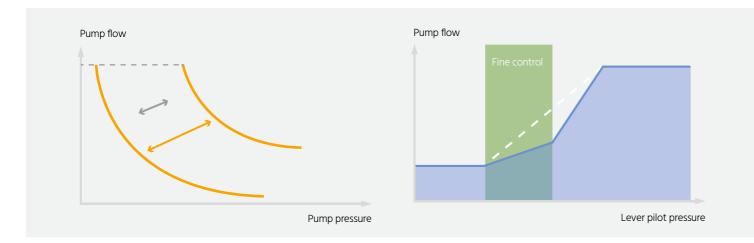
# POWERFUL AND FUEL-EFFICIENT TO BOOST **PRODUCTIVITY**

The HX220AL is powered by a robust Stage Vcertified Cummins engine with an innovative integrated after-treatment system that reduces both emissions and maintenance requirements. It delivers all the power you need to handle demanding jobs, along with fast levelling and truck loading times and excellent fuel economy.

A range of smart technologies are included for precise management of the engine output and pump flow rate. A new EPFC (Electronic Pump Flow Control) system improves controllability and reduces operating costs. Additional control and monitoring features help you to further improve productivity every single day.



EPFC (Electronic Pump Flow Control) improves the controllability of attachments, enabling faster, more precise work with optimised fine control. It also reduces fuel consumption by optimising pump output control for each operation.





Select from five levels of load sensitivity to adjust initial flow rate for boom-up and arm-in operation according to attachment weight. Ten levels of boom priority can be selected to balance boom operation against arm and swing. and operating costs while enhancing reliability and simplifying maintenance.

Lifting mode improves precision and lift capability through RPM reduction, power boost activation and enhanced pump flow control.

Level 1

Level 1

Enable

Trucking balance

Arm Speed

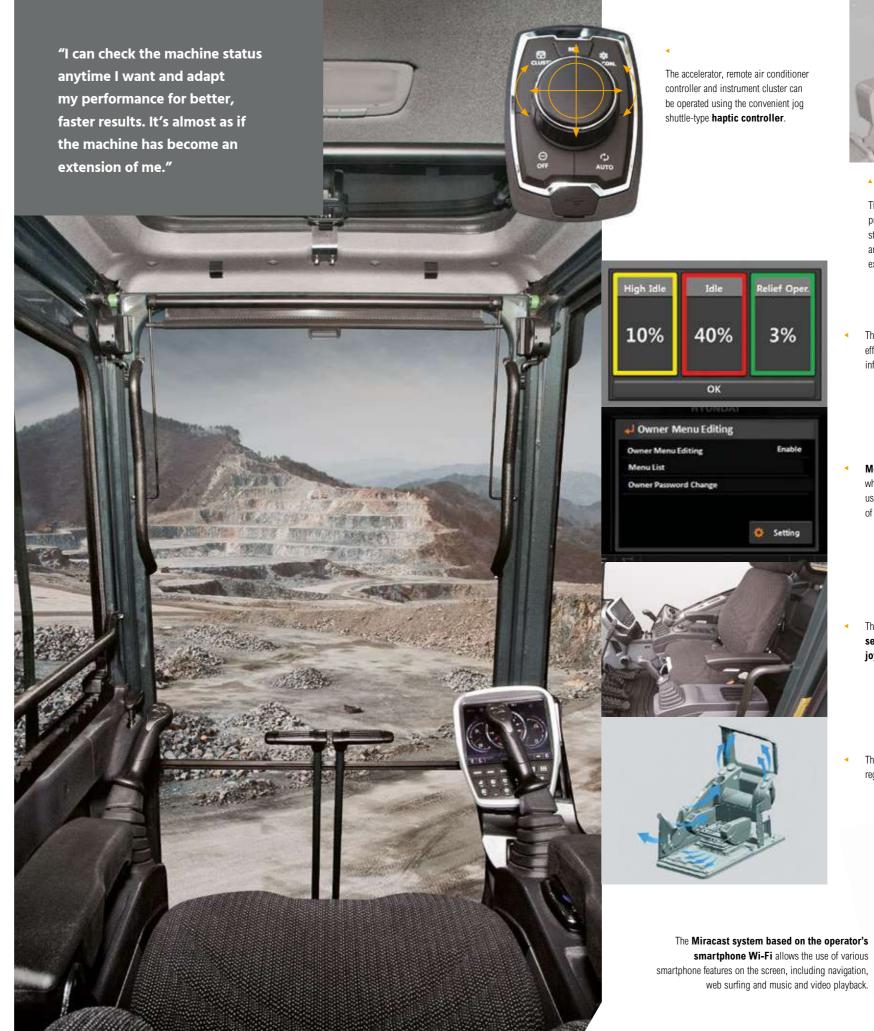
Boom/Arm Balance

Easy-to-use 3D Machine Guidance gives precise feedback on the bucket position as well as 3D grading assistance and jobsite mapping in real time. This reduces manpower requirements on site and enhances operator performance. The system includes an optional Hyundai Ready automatic surveying system for excavators which provides work guides to further improve work speed and productivity.



# A CABIN **DESIGNED AROUND** YOU

The HX220AL cabin was designed as a comfortable working environment that enhances productivity and reduces fatigue for every operator. Pleasant and spacious, it features a high-quality, adjustable seat and comfortable reach to all controls. A range of technologies enable easier machine monitoring, while the audio system includes radio, USB and AUX input to keep you entertained during your working day. The overall design places you right at the centre of the Hyundai Effect, with a world of convenience and control at your fingertips.



The accelerator, remote air conditioner

The instrument panel is optimised to provide quick, easy access to machine status information as you work. It features an 8-inch touchscreen monitor for excellent legibility.

The **Eco Report** feature helps you to develop efficient working habits by displaying real-time information about machine performance.

Menu functions can be set by the machine owner, who can also provide or restrict access for machine users by using a password to lock or unlock the list of machine parameters.

The HX220AL has a luxurious air suspension seat with heating as standard. The ergonomic joysticks make operation comfortable and intuitive.

The heating and air conditioning system efficiently regulates and directs airflow in the cabin.



# **SUPPORTING A** SAFER WORKPLACE

Small details can make a huge difference when it comes to safety and security. The HX220AL offers all-round protection for you, your workmates and your equipment. Its cabin and engine hood feature a new design that allows maximum visibility, while Advanced Around View Monitoring (AAVM) gives you a clear overview of your surroundings. By helping to ensure an accident-free worksite, the HX220AL contributes to the peace of mind and productivity that form part of the Hyundai Effect.

overview of your immediate working environment. It also includes Intelligent Moving Object Detection (IMOD) technology that senses and warns you when people or objects come within five metres of the machine.

The Advanced Around View Monitoring (AAVM) camera system gives you a 360°

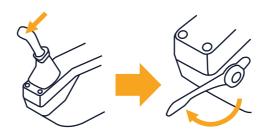
The open design of the cabin side door gives the operator a clear, unimpeded view to the exterior. The **door handle** design has also been redesigned for more convenient access.

on around me, even when weather conditions are poor or the machine is moving."



"I can always see what's going









The auto safety lock feature prevents unintentional ignition. While the auto safety lock is activated, the excavator is not controlled by the RCV lever.

# ADVANCED DIAGNOSTICS AND SERVICING SUPPORT

The peace of mind that comes with quick, low-effort servicing is also part of the Hyundai Effect. The HX220AL is designed to make maintenance as convenient as possible. All components and materials have been optimised to ensure a long, trouble-free life. Hyundai's Hi Mate remote management system uses mobile data technology to provide the highest level of service and support. The HX220AL also features our new Engine Connected Diagnostics (ECD) system which immediately reports any engine failure to both Hi Mate and the engine manufacturer to ensure the fastest, easiest resolution.



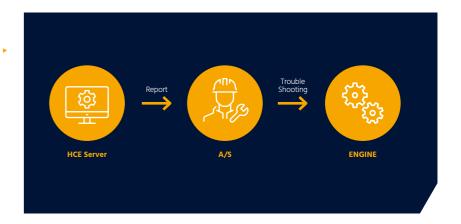
#### HIMATE



For maximum convenience and security, the HX220AL features Hyundai's exclusive Hi Mate remote fleet management system, which uses mobile data technology to provide the highest level of service and support. You can monitor your machines from any location via a dedicated website or mobile app, with access to working parameters like total engine hours, machine utilisation, actual performed working hours, fuel consumption and machine location. The system makes it easy to evaluate machine productivity, plan servicing and maintenance tasks, as well as any required cost saving measures. It also offers geofencing to protect your machines against theft and unauthorised usage.

#### ECD (Engine Connected Diagnostics)

provides troubleshooting advice as well as tailored servicing and parts support from Cummins Quickserve. Service technicians are supported with remote diagnostics reports allowing them to prepare for site visits and bring the right tools.



# READY FOR **ACTION AND BUILT TO LAST**

You need to know that the investment you make today will help to sustain your business over the long term. That's why we prioritised reliability throughout the development of the HX220AL, from design and manufacturing to quality control. We improved engine reliability by removing the EGR and integrating exhaust after treatment with a simplified, single-module system that's easier to maintain. The upper and lower frame structures are reinforced for high load work, while the attachments have been rigorously tested for the roughest conditions. The overall aim is to minimise downtime and repairs so that you can stay on schedule, avoid unexpected costs and protect your profits.









High-grade hoses with outstanding resistance to heat and pressure provide maximum durability, even in rough working conditions.



The reinforced pins, bushings and polymer shims are designed for an extended lifetime.

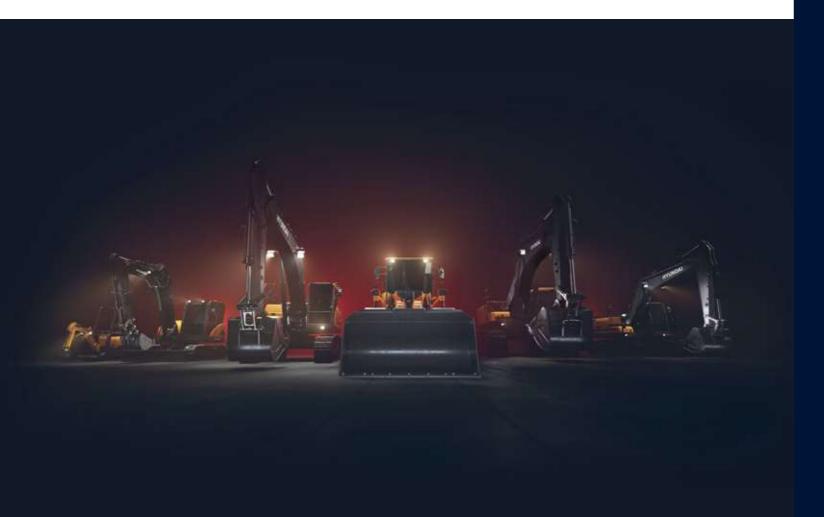
The engine and exhaust after-treatment system are integrated for simplified control and maintenance.

# FOCUSED TECHNOLOGIES FOR THE RESULTS YOU WANT

Hyundai's A-series crawler excavators are designed to create better conditions for operators and deliver the ultimate ownership experience. Every detail is carefully fine-tuned to match your needs in the field, including better safety and comfort, higher productivity, maximum uptime and easy servicing. It's all part of the Hyundai Effect.

See more at hyundai-ce.eu





# **SPECIFICATIONS**

| ENGINE                  |  |
|-------------------------|--|
| Maker / Model           | Cummins B6.7 / STAGE V                         |
| Туре                    | Turbocharged, charge air cooled, diesel engine |
| Gross power (SAE J1995) | 173 HP (129 kW) at 2,200 rpm                   |
| Net power (SAE J1349)   | 170 HP (127 kW) at 2,200 rpm                   |
| Max. Power              | 195 HP (145kW) at 2,000 rpm                    |
| Peak torque             | 881 N m (650 lb ft) at 1,300 rpm               |
| Displacement            | 6,700 cc (408 cu in)                           |

#### **HYDRAULIC SYSTEM** MAIN PUMP Variable displacement tandem axis piston pumps Max. Flow 2 × 222 l/mir Sub-pump for pilot circuit Gear pump Cross-sensing and fuel saving pump system HYDRAULIC MOTORS Two speed axial pistons motor with brake Travel valve and parking brake Axial piston motor with automatic brake **RELIEF VALVE SETTING** Implement circuits 350 kgf/cm² (4,980 psi) 350 kgf/cm² (4,980 psi) Power Boost (boom, arm, bucket) 380 kgf/cm² (5,400 psi) Swing circuit 265 kgf/cm² (3,770 psi) Pilot circuit 40 kgf/cm² (570 psi) Service valve HYDRAULIC CYLINDERS

<sup>\*</sup> Hyundai Bio Hydraulic Oil (HBHO) available.

| DRIVING AND BRAKING            |   |  |  |  |  |
|--------------------------------|---|--|--|--|--|
| Drive method                   | Fully hydrostatic type                    |  |  |  |  |
| Driving Motor                  | Axial piston motor, in-shoe design        |  |  |  |  |
| Deceleration System            | Planetary reduction gear                  |  |  |  |  |
| Max. Drawbar Pull              | 20,800 kgf (45,860 lbf)                   |  |  |  |  |
| Max. travel speed (high / low) | 5.4 km/hr (3.4 mph) / 3.5 km/hr (2.2 mph) |  |  |  |  |
| Gradeability                   | 35° (70%)                                 |  |  |  |  |
| Parking brake                  | Multi wet disc                            |  |  |  |  |

Boom: Ø 120 × 1,290 mm Arm: Ø 140 × 1,510 mm Bucket: Ø 120 × 1,055 mm

#### CONTROL

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

| Pilot control          | Two joysticks with one safety lever (LH): Swing and arm, Boom and bucket |
|------------------------|--|
| 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               | 11.4 rpm  |
|                           | Swing reduction Swing bearing lubrication Swing brake |

| CAPACITIES                        |       |        |        |  |
|-----------------------------------|-------|--------|--------|--|
|                                   | liter | US gal | UK gal |  |
| Fuel tank                         | 400   | 106    | 88     |  |
| Engine coolant                    | 40    | 10.6   | 8.8    |  |
| Engine oil                        | 23.1  | 6.1    | 5.1    |  |
| Swing device                      | 6.2   | 1.64   | 1.36   |  |
| Final Drive (each)                | 4.5   | 1.2    | 1      |  |
| Hydraulic system (including tank) | 275   | 72.6   | 60.5   |  |
| Hydraulic tank                    | 155   | 40.9   | 34.1   |  |
| DEF/AdBlue <sup>®</sup>           | 48    | 12.6   | 10.5   |  |

#### UNDERCARRIAGE

No. of rail guard on each side

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 49 EA

No. of carrier roller on each side 2 EA

No. of track roller on each side 9 EA

#### OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 5,680 mm (18' 8") boom, 2,920 mm (9' 7") arm, SAE heaped 0.92 m3 (1.20 yd3) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

2 EA

#### OPERATING WEIGHT

| Shoes          |                        |           | Operating weight | Ground pressure |
|----------------|------------------------|-----------|------------------|-----------------|
| Туре           | Width mm (in)          |           | kg (lb)          | kgf/cm2 (psi)   |
|                | COO (O.4!!)            | HX220AL   | 22,100 (48,720)  | 0.47 (6.71)     |
|                | 600 (24")              | HX220ALHW | 23,560 (51,940)  | 0.50 (7.15)     |
|                | 700 (28")              | HX220AL   | 22,380 (49,340)  | 0.41 (5.82)     |
| Trials suscess |                        | HX220ALHW | 23,840 (52,560)  | 0.44 (6.20)     |
| Triple grouser | 800 (32")              | HX220AL   | 22,660 (49,960)  | 0.36 (5.16)     |
|                |                        | HX220ALHW | 24,120 (53,170)  | 0.39 (5.49)     |
|                | 000 (000)              | HX220AL   | 22,940 (50,570)  | 0.33 (4.64)     |
|                | 900 (36")              | HX220ALHW | 24,400 (53,790)  | 0.35 (4.94)     |
| Double grouser | 700 (28")              | HX220ALHW | 24,040 (53,000)  | 0.44 (6.25)     |
| Double grouser | 900 (36")<br>700 (28") | HX220ALHW | 24,400 (53,790)  | 0.35 (4.94)     |

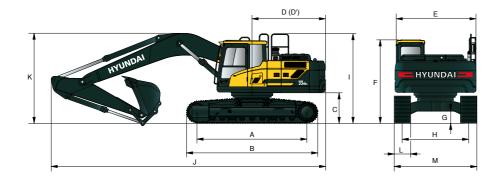
#### **AIR CONDITIONING SYSTEM**

The air conditioning system contains fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1,430). The system contains 0.75 kg of refrigerant representing a  $\rm CO_2$  equivalent of 1.0725 metric tonnes.

# **DIMENSIONS & WORKING RANGE**

#### **HX220AL DIMENSIONS**

5.68 m (18' 8") BOOM and 2.0 m (6' 7"); 2.4 m (7' 10"); 2.92 m (9' 7") & 3.9 m (12' 10") ARM



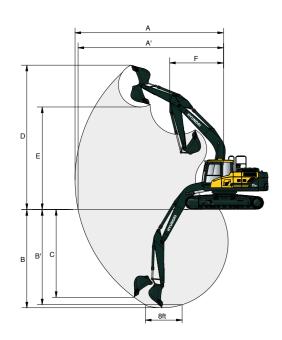
Unit: mm (ft in)

| Α  | Tumbler distance                  | 3,650 (12' 0") |
|----|-----------------------------------|----------------|
| В  | Overall length of crawler         | 4,404 (14' 4") |
| С  | Ground clearance of counterweight | 1,060 (3' 6")  |
| D  | Tail swing radius                 | 2,890 (9' 5")  |
| D' | Rear-end length                   | 2,770 (9' 1")  |
| Ε  | Overall width of upperstructure   | 2,740 (9' 0")  |
| F  | Overall height of cabin           | 3,000 (9' 8")  |
| G  | Min. ground clearance             | 470 (1' 7")    |
| Н  | Track gauge                       | 2,390 (7' 10") |
| T  | Overall height of guardrail       | 3,210 (10' 5") |

<sup>\*</sup> This figure includes the size of grousers.

|   |                        |                |                |                | 0 (10           |  |
|---|------------------------|----------------|----------------|----------------|-----------------|--|
|   | Boom length            |                | 5,680 (18' 8") |                |                 |  |
|   | Arm length             | 2,000 (6' 7")  | 2,400 (7° 10") | 2,920 (9' 7")  | 3,900 (12' 10") |  |
| J | Overall length         | 9,650 (31' 8") | 9,570 (31' 5") | 9,530 (31' 3") | 9,520 (31' 3")  |  |
| K | Overall height of boom | 3,200 (10' 6") | 3,110 (10' 2") | 3,030 (9' 11") | 3,480 (11' 5")  |  |
| L | Track shoe width       | 600 (24")      | 700 (28")      | 800 (32")      | 900 (36")       |  |
| М | Overall width          | 2,990 (9' 10") | 3,090 (10' 2") | 3,190 (10' 6") | 3,290 (10' 10") |  |

#### **HX220AL WORKING RANGE**

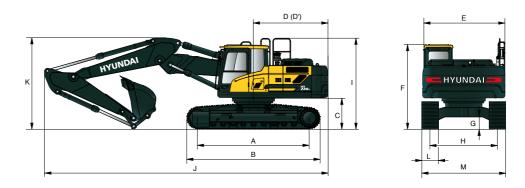


5,680 (18' 8") 2,000 (6' 7") | 2,400 (7' 10") | 2,920 (9' 7") 3,900 (12' 10") Arm length Max. digging reach 9,140 (30' 0") 9,500 (31' 2") 9,980 (32' 9") 10,910 (35' 10") Max. digging reach 8,960 (29' 5") 9,330 (30' 7") 9,820 (32' 3") 10,770 (35' 4") 6,730 (22' 1" 5,820 (19' 1") 6,220 (20' 5") 7,720 (25' 4") Max. digging depth Max. digging depth 5,580 (18' 4") 6,010 (19' 9") 6,560 (21' 6") 7,580 (24' 10") (8' level) Max. vertical wall 5,280 (17' 4") 5,720 (18' 9") 6,280 (20' 7") 7,240 (23' 9") digging depth 9,340 (30' 8") 9,600 (31' 6") 10,110 (33' 2") Max. digging height 9,140 (30' 0") 6,520 (21' 5") 6,780 (22' 3") 6,330 (20' 9") 7,290 (23' 11") 3,670 (12' 0") 3,700 (12' 2")

# **DIMENSIONS & WORKING RANGE**

#### **HX220AL 2-PIECE BOOM DIMENSIONS**

5.65 m (18' 6") 2-Piece BOOM and 2.0 m (6' 7"); 2.4 m (7' 10") & 2.92 m (9' 7") ARM



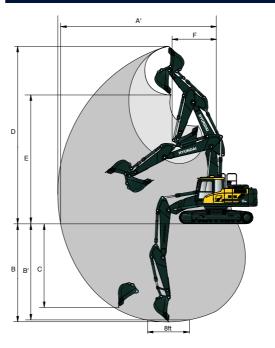
Unit: mm (ft-in)

| Α  | Tumbler distance                  | 3,650 (12' 0") |
|----|-----------------------------------|----------------|
| В  | Overall length of crawler         | 4,404 (14' 4") |
| С  | Ground clearance of counterweight | 1,060 (3' 6")  |
| D  | Tail swing radius                 | 2,890 (9' 5")  |
| D' | Rear-end length                   | 2,770 (9' 1")  |
| Е  | Overall width of upperstructure   | 2,740 (9' 0")  |
| F  | Overall height of cabin           | 3,000 (9' 8")  |
| G  | Min. ground clearance             | 470 (1' 7")    |
| Н  | Track gauge                       | 2,390 (7' 10") |
| 1  | Overall height of guardrail       | 3,210 (10' 5") |

| + | Thie  | figuro | includes  | tho | cizo | of | grousers |
|---|-------|--------|-----------|-----|------|----|----------|
|   | 11115 | ligure | IIICIUUES | uic | SIZE | UI | grousers |

|   | Boom length            |                | 5,650 (18' 6") 2-Piece Boom |                |                 |
|---|------------------------|----------------|-----------------------------|----------------|-----------------|
|   | Arm length             | 2,000 (6' 7")  | 2,400 (7' 10")              | 2,920 (9' 7")  |                 |
| J | Overall length         | 9,650 (31' 8") | 9,570 (31' 5")              | 9,530 (31' 3") |                 |
| K | Overall height of boom | 3,200 (10' 6") | 3,110 (10' 2")              | 3,030 (9' 11") |                 |
| L | Track shoe width       | 600 (24")      | 700 (28")                   | 800 (32")      | 900 (36")       |
| М | Overall width          | 2,990 (9' 10") | 3,090 (10' 2")              | 3,190 (10' 6") | 3,290 (10' 10") |

#### HX220AL 2-PIECE BOOM WORKING RANGE



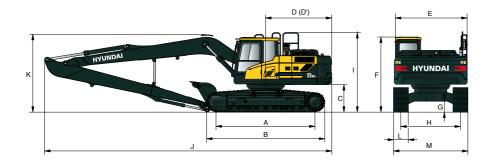
|    | Boom length                      | 5,650 (18' 6") 2-Piece Boom |                 |                  |  |
|----|----------------------------------|-----------------------------|-----------------|------------------|--|
|    | Arm length                       | 2,000 (6' 7")               | 2,400 (7' 10")  | 2,920 (9' 7")    |  |
| A  | Max. digging reach               | 9,120 (29' 11")             | 9,530 (31' 3")  | 10,020 (32' 10") |  |
| A' | Max. digging reach on ground     | 8,950 (29' 4")              | 9,360 (30' 8")  | 9,860 (32' 4")   |  |
| В  | Max. digging depth               | 5,480 (18' 0")              | 5,880 (19' 3")  | 6,400 (21' 0")   |  |
| B' | Max. digging depth<br>(8' level) | 5,360 (17' 7")              | 5,770 (18' 11") | 6,290 (20' 8")   |  |
| С  | Max. vertical wall digging depth | 4,540 (14' 11")             | 5,020 (16' 6")  | 5,560 (18' 3")   |  |
| D  | Max. digging height              | 10,310 (33' 10")            | 10,670 (35' 0") | 11,090 (36' 5")  |  |
| E  | Max. dumping height              | 7,390 (24' 3")              | 7,750 (25' 5")  | 8,160 (26' 9")   |  |
| F  | Min. front swing radius          | 2,870 (9' 5")               | 2,660 (8' 9")   | 2,530 (8' 4")    |  |

Unit : mm (ft·in)

# **DIMENSIONS & WORKING RANGE**

#### **HX220AL LONG REACH DIMENSIONS**

8.2 m (26' 11") BOOM and 6.3 m (20' 8") ARM

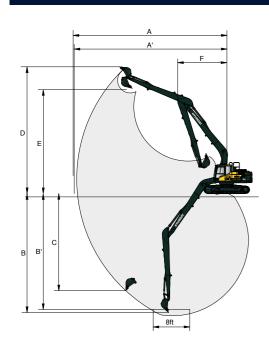


Unit: mm (ft in)

| Α  | Tumbler distance                  | 3,650 (12' 0") |
|----|-----------------------------------|----------------|
| В  | Overall length of crawler         | 4,404 (14' 4") |
| С  | Ground clearance of counterweight | 1,060 (3' 6")  |
| D  | Tail swing radius                 | 2,890 (9' 5")  |
| D' | Rear-end length                   | 2,770 (9' 1")  |
| Ε  | Overall width of upperstructure   | 2,740 (9' 0")  |
| F  | Overall height of cabin           | 3,000 (9' 8")  |
| G  | Min. ground clearance             | 470 (1' 7")    |
| Н  | Track gauge                       | 2,390 (7' 10") |
| I  | Overall height of guardrail       | 3,210 (10' 5") |
|    |                                   |                |

|   | Boom length            | 8,200 (26' 11") |
|---|------------------------|-----------------|
|   | Arm length             | 6,300 (20' 8")  |
| J | Overall length         | 12,030 (39' 6") |
| K | Overall height of boom | 3,280 (10' 9")  |
| L | Track shoe width       | 800 (32")       |
| М | Overall width          | 3,190 (10' 6")  |

#### HX220AL LONG REACH WORKING RANGE

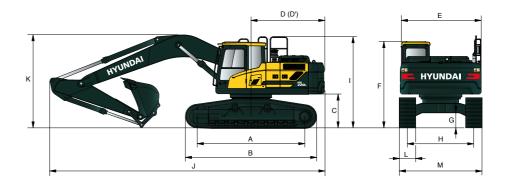


|    |                                  | Unit : mm (it1n) |
|----|----------------------------------|------------------|
|    | Boom length                      | 8,200 (26' 11")  |
|    | Arm length                       | 6,300 (20' 8")   |
| Α  | Max. digging reach               | 15,220 (50' 0")  |
| A' | Max. digging reach on ground     | 15,120 (49' 7")  |
| В  | Max. digging depth               | 11,760 (38' 7")  |
| B' | Max. digging depth (8' level)    | 11,650 (38' 3")  |
| С  | Max. vertical wall digging depth | 9,610 (31' 6")   |
| D  | Max. digging height              | 12,550 (41' 2")  |
| Е  | Max. dumping height              | 10,280 (33' 8")  |
| F  | Min. front swing radius          | 4,870 (16' 0")   |

# **DIMENSIONS & WORKING RANGE**

#### **HX220AL HIGH WALKER DIMENSIONS**

5.68 m (18' 8") BOOM and 2.0 m (6' 7"); 2.4 m (7' 10") & 2.92 m (9' 7") ARM

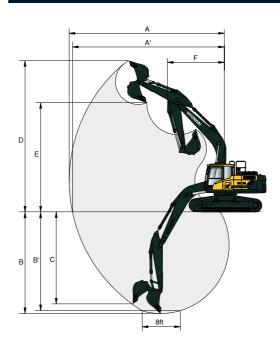


Unit: mm (ft·in)

| Α  | Tumbler distance                  | 3,650 (12' 0") |
|----|-----------------------------------|----------------|
| В  | Overall length of crawler         | 4,404 (14' 4") |
| С  | Ground clearance of counterweight | 1,260 (4' 1")  |
| D  | Tail swing radius                 | 2,890 (9' 5")  |
| D, | Rear-end length                   | 2,770 (9' 1")  |
| E  | Overall width of upperstructure   | 2,740 (9' 0")  |
| F  | Overall height of cabin           | 3,200 (10' 5") |
| G  | Min. ground clearance             | 660 (2' 2")    |
| Н  | Track gauge                       | 2,795 (9' 2")  |
| П  | Overall height of guardrail       | 3,410 (11' 2") |

|   | Boom length         |       |                 |                |                 |                 |                |  |  |
|---|---------------------|-------|-----------------|----------------|-----------------|-----------------|----------------|--|--|
|   | Arm length          |       | 2,000 (6' 7")   | 2,400 (7' 10") | 2,920 (9' 7")   | 3,900 (12' 10") |                |  |  |
| J | Overall length      |       | 9,650 (31' 8")  | 9,550 (31' 4") | 9,470 (31' 1")  | 9,560 (31' 4")  |                |  |  |
| K | Overall height of b | oom   | 3,290 (10' 10") | 3,170 (10' 5") | 3,060 (10' 0")  | 3,450 (11' 4")  |                |  |  |
| _ | Track shoe width    | Type  |                 | Triple grouser |                 |                 |                |  |  |
| L | Hack Shoe width     | Width | 600 (24")       | 700 (28")      | 800 (32")       | 900 (36")       | 700 (28")      |  |  |
| М | Overall width       |       | 3,395 (11' 2")  | 3,495 (11' 6") | 3,595 (11' 10") | 3,695 (12' 2")  | 3,495 (11' 6") |  |  |

#### HX220AL HIGH WALKER WORKING RANGE



|    |                                  |                |                |                 | OHIL. HIH (ILIH  |
|----|----------------------------------|----------------|----------------|-----------------|------------------|
|    | Boom length                      |                | 5,680          | (18' 8")        |                  |
|    | Arm length                       | 2,000 (6' 7")  | 2,400 (7' 10") | 2,920 (9' 7")   | 3,900 (12' 10")  |
| Α  | Max. digging reach               | 9,140 (30' 0") | 9,500 (31' 2") | 9,980 (32' 9")  | 10,910 (35' 10") |
| A' | Max. digging reach on ground     | 8,920 (29' 3") | 9,290 (30' 6") | 9,820 (32' 3")  | 10,730 (35' 2")  |
| В  | Max. digging depth               | 5,630 (18' 6") | 6,010 (19' 9") | 6,550 (21' 6")  | 7,530 (24' 8")   |
| B' | Max. digging depth<br>(8' level) | 5,390 (17' 8") | 5,820 (19' 1") | 6,380 (20' 11") | 7,390 (24' 3")   |
| С  | Max. vertical wall digging depth | 5,090 (16' 8") | 5,630 (18' 6") | 6,100 (20' 0")  | 7,050 (23' 1")   |
| D  | Max. digging height              | 9,330 (30' 7") | 9,530 (31' 3") | 9,780 (32' 1")  | 10,300 (33' 9")  |
| E  | Max. dumping<br>height           | 6,520 (21' 5") | 6,710 (22' 0") | 6,960 (22' 10") | 7,480 (24' 6")   |
| F  | Min. front swing radius          | 3,750 (12' 4") | 3,740 (12' 3") | 3,670 (12' 0")  | 3,700 (12' 2")   |

Unit: mm (ft in

# **BUCKET SELECTION GUIDE & DIGGING FORCE**

#### BUCKETS

All buckets are welded with high-strength steel.













|            | 0.00 (1.05) |
|------------|-------------|
| SAE heaped | 0.92 (1.20) |
| m³ (yd³)   | 1.10 (1.44) |
|            | 1.20 (1.57) |

| 0.80 (1.05) | 1.34 (1.75) | <b>♦</b> 0.90 (1.18) | ◆ 0.87 (1.14) | ◆ 1.20 (1.57) | <b>★</b> 0.52 (0.68) |
|-------------|-------------|----------------------|---------------|---------------|----------------------|
| 0.92 (1.20) |             | ♦ 1.05 (1.37)        |               |               |                      |
| 1.10 (1.44) |             |                      |               |               |                      |
| 1 20 (1.57) |             |                      |               |               |                      |

|                      |                |                      |               |                  | Recommendation mm (ft.in) |                          |                         |                           |                          |                         |                                  |                         |                 |        |
|----------------------|----------------|----------------------|---------------|------------------|---------------------------|--------------------------|-------------------------|---------------------------|--------------------------|-------------------------|----------------------------------|-------------------------|-----------------|--------|
| Capacity<br>m³ (yd³) |                |                      |               | Width<br>mm (in) | Weight<br>kg (lb)         | Tooth<br>(EA)            |                         | -                         | (18' 8")<br>boom         |                         | 8,200<br>(26' 11")<br>Long reach | 5,650                   | (18' 6") 2-piec | e boom |
| SAE<br>heaped        | CECE<br>heaped | Without side cutters | , kg (ib)     | (DA)             | 2,000<br>(6' 7")<br>Arm   | 2,400<br>(7' 10")<br>Arm | 2,920<br>(9' 7")<br>Arm | 3,900<br>(12' 10")<br>Arm | 6,300<br>(20' 8")<br>Arm | 2,000<br>(6' 7")<br>Arm | 2,400<br>(7' 10")<br>Arm         | 2,920<br>(9' 7")<br>Arm |                 |        |
| 0.80 (1.05)          | 0.70 (0.92)    | 1,070 (42.1)         | 770 (1,700)   | 5                | •                         | •                        | •                       | 0                         | -                        | •                       | •                                | •                       |                 |        |
| 0.92 (1.20)          | 0.80 (1.05)    | 1,190 (46.9)         | 820 (1,810)   | 5                | •                         | •                        | •                       | •                         | -                        | •                       | •                                | •                       |                 |        |
| 1.10 (1.44)          | 0.96 (1.26)    | 1,375 (54.1)         | 890 (1,960)   | 5                | •                         | •                        | •                       | <b>A</b>                  | -                        | •                       | •                                | •                       |                 |        |
| 1.20 (1.57)          | 1.05 (1.37)    | 1,390 (54.7)         | 920 (2,030)   | 5                | •                         | •                        | •                       | <b>A</b>                  | -                        | 0                       | •                                | •                       |                 |        |
| 1.34 (1.75)          | 1.17 (1.53)    | 1,525 (60.0)         | 990 (2,180)   | 6                | 0                         |                          | <b>A</b>                | х                         | -                        | 0                       | •                                | <b>A</b>                |                 |        |
| <b>♦</b> 0.90 (1.18) | 0.79 (1.03)    | 1,210 (47.6)         | 880 (1,940)   | 5                | •                         | •                        | •                       | •                         | -                        | •                       | •                                | •                       |                 |        |
| <b>1.05</b> (1.37)   | 0.92 (1.20)    | 1,355 (53.3)         | 940 (2,070)   | 5                | •                         | •                        | •                       | <b>A</b>                  | -                        | •                       | •                                | •                       |                 |        |
| ◆ 0.87 (1.14)        | 0.77 (1.01)    | 1,195 (47.0)         | 940 (2,070)   | 5                | •                         | •                        | •                       | -                         | -                        | •                       | •                                | •                       |                 |        |
| ◆ 1.20 (1.57)        | 1.05 (1.37)    | 1,520 (59.8)         | 1,120 (2,470) | 6                | 0                         | 0                        |                         |                           |                          | 0                       | •                                | •                       |                 |        |
| <b>★</b> 0.52 (0.68) | 0.45 (0.59)    | 945 (37.2)           | 460 (1,010)   | 5                | -                         | -                        |                         | -                         | •                        | -                       | -                                | -                       |                 |        |

- Heavy duty bucket
- Rock-Heavy duty bucket
- ★ Long reach bucket

- Applicable for materials with density of 2100kg/m³ (3500 lb/yd³) or less
- Applicable for materials with density of 1800kg/m³ (3000 lb/yd³) or less
- Applicable for materials with density of 1500kg/m³ (2500 lb/yd³) or less
- ▲ Applicable for materials with density of 1200kg/m³ (2000 lb/yd³) or less
- x Not recommended

#### **ATTACHMENT**

Booms and arms are welded with a low-stress, full-box section design. 5.68 m, 8.2 m Booms and 2.0 m, 2.4 m, 2.92 m, 3.9 m & 6.3 m Arms are available.

| DIGGIN            | G FORC           | E          |                 |                 |                 |                 |                        |                 |                 |                 |        |
|-------------------|------------------|------------|-----------------|-----------------|-----------------|-----------------|------------------------|-----------------|-----------------|-----------------|--------|
| Boom              | Length           | mm (ft.in) |                 | 5,680           | (18' 8")        |                 | 5,650 (18' 6") 2-Piece |                 |                 | 8,200 (26' 11") |        |
| DOUII             | Weight           | kg (lb)    |                 | 1,950           | (4,300)         |                 |                        | 2,600 (5,730)   |                 | 2,350 (5,180)   | Remark |
| Arm               | Length           | mm (ft.in) | 2,000 (6' 7")   | 2,400 (7' 10")  | 2,920 (9' 7")   | 3,900 (12' 10") | 2,000 (6' 7")          | 2,400 (7' 10")  | 2,920 (9' 7")   | 6,300 (20' 8")  | Neman  |
| AIIII             | Weight           | kg (lb)    | 975 (2,150)     | 1,045 (2,300)   | 1,095 (2,410)   | 1,295 (2,850)   | 975 (2,150)            | 1,045 (2,300)   | 1,095 (2,410)   | 1,330 (2,930)   |        |
|                   | kN 133.4 [144.8] |            |                 |                 |                 |                 |                        | 133.4 [144.8]   |                 | 72.6            |        |
|                   | SAE              | kgf        |                 | 13,600          | [14,770]        |                 | 13,600 [14,770]        |                 |                 | 7,400           | ]      |
| Bucket<br>digging |                  | lbf        |                 | 29,980          | [32,550]        |                 |                        | 29,980 [32,550] |                 |                 |        |
| force             | ISO              | kN         |                 | 152.0 [165.0]   |                 |                 |                        | 152.0 [165.0]   |                 | 83.4            |        |
|                   |                  | kgf        |                 | 15,500 [16,830] |                 |                 |                        | 15,500 [16,830] | 8,500           |                 |        |
|                   |                  | lbf        |                 | 34,170 [37,100] |                 |                 |                        | 34,170 [37,100] | 18,740          | "[]:<br>Power   |        |
|                   |                  | kN         | 144.2 [156.5]   | 119.6 [129.9]   | 102.0 [110.7]   | 84.3 [91.6]     | 144.2 [156.5]          | 119.6 [129.9]   | 102.0 [110.7]   | 49.0            | Boost" |
|                   | SAE              | kgf        | 14,700 [15,960] | 12,200 [13,250] | 10,400 [11,290] | 8,600 [9,340]   | 14,700 [15,960]        | 12,200 [13,250] | 10,400 [11,290] | 5,000           |        |
| Arm<br>crowd      |                  | lbf        | 32,410 [35,190] | 26,900 [29,210] | 22,930 [24,900] | 18,960 [20,590] | 32,410 [35,190]        | 26,900 [29,210] | 22,930 [24,900] | 11,020          | ]      |
| force             |                  | kN         | 151.0 [164.0]   | 125.5 [136.3]   | 106.9 [116.1]   | 87.3 [94.8]     | 151.0 [164.0]          | 125.5 [136.3]   | 106.9 [116.1]   | 50.0            |        |
|                   | ISO              | kgf        | 15,400 [16,720] | 12,800 [13,900] | 10,900 [11,830] | 8,900 [9,660]   | 15,400 [16,720]        | 12,800 [13,900] | 10,900 [11,830] | 5,100           |        |
|                   |                  | lbf        | 33,950 [36,860] | 28,220 [30,640] | 24,030 [26,090] | 19,620 [21,300] | 33,950 [36,860]        | 28,220 [30,640] | 24,030 [26,090] | 11,240          |        |

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

# **LIFTING CAPACITY**

Rating over-front Rating over-side or 360 degrees

#### HX220AL

5.68 m (18' 8") Mono boom, 2.00 m (6' 7") arm equipped with 600 mm (24") triple grouser shoe.

|                                |    |         |          |                 | Lift-poir | nt radius |          |         |          |         | At max. Reach |        |
|--------------------------------|----|---------|----------|-----------------|-----------|-----------|----------|---------|----------|---------|---------------|--------|
| Lift-point<br>height<br>m (ft) |    | 3.0 m   | (9.8 ft) | 4.5 m (14.8 ft) |           | 6.0 m (   | 19.7 ft) | 7.5 m ( | 24.6 ft) | Сар     | acity         | Reach  |
|                                |    |         |          |                 |           |           |          |         |          |         |               | m (ft) |
| 7.5 m                          | kg |         |          |                 |           |           |          |         |          | *5,720  | *5,720        | 5.00   |
| (24.6 ft)                      | lb |         |          |                 |           |           |          |         |          | *12,610 | *12,610       | (16.4) |
| 6.0 m                          | kg |         |          |                 |           | *5,460    | 5,440    |         |          | *5,530  | 4,940         | 6.35   |
| (19.7 ft)                      | lb |         |          |                 |           | *12,040   | 11,990   |         |          | *12,190 | 10,890        | (20.8) |
| 4.5 m                          | kg |         |          | *6,900          | *6,900    | *5,810    | 5,310    |         |          | *5,570  | 4,040         | 7.14   |
| (14.8 ft)                      | lb |         |          | *15,210         | *15,210   | *12,810   | 11,710   |         |          | *12,280 | 8,910         | (23.4) |
| 3.0 m                          | kg |         |          | *8,690          | 7,640     | *6,540    | 5,090    | 5,640   | 3,670    | 5,580   | 3,630         | 7.55   |
| (9.8 ft)                       | lb |         |          | *19,160         | 16,840    | *14,420   | 11,220   | 12,430  | 8,090    | 12,300  | 8,000         | (24.8) |
| 1.5 m                          | kg |         |          |                 |           | *7,270    | 4,880    | 5,550   | 3,590    | 5,400   | 3,500         | 7.64   |
| (4.9 ft)                       | lb |         |          |                 |           | *16,030   | 10,760   | 12,240  | 7,910    | 11,900  | 7,720         | (25.1) |
| Ground                         | kg |         |          | *10,520         | 7,090     | 7,580     | 4,760    |         |          | 5,580   | 3,590         | 7.43   |
| Line                           | lb |         |          | *23,190         | 15,630    | 16,710    | 10,490   |         |          | 12,300  | 7,910         | (24.4) |
| -1.5 m                         | kg |         |          | *10,220         | 7,100     | 7,560     | 4,750    |         |          | 6,230   | 3,980         | 6.88   |
| (-4.9 ft)                      | lb |         |          | *22,530         | 15,650    | 16,670    | 10,470   |         |          | 13,730  | 8,770         | (22.6) |
| -3.0 m                         | kg | *12,370 | *12,370  | *9,130          | 7,240     |           |          |         |          | *6,670  | 4,980         | 5.90   |
| (-9.8 ft)                      | lb | *27,270 | *27,270  | *20,130         | 15,960    |           |          |         |          | *14,700 | 10,980        | (19.4) |
| -4.5 m                         | kg |         |          |                 |           |           |          |         |          |         |               | , ,    |
| (-14.8 ft)                     | lb |         |          |                 |           |           |          |         |          |         |               |        |

5.68 m (18' 8") Mono boom, 2.40 m (7' 10") arm equipped with 600 mm (24") triple grouser shoe.

|                                |    |         |          |         | Lift-poir       | nt radius |           |         |           |         | At max. Reach |        |
|--------------------------------|----|---------|----------|---------|-----------------|-----------|-----------|---------|-----------|---------|---------------|--------|
| Lift-point<br>height<br>m (ft) |    | 3.0 m   | (9.8 ft) | 4.5 m   | 4.5 m (14.8 ft) |           | (19.7 ft) | 7.5 m ( | (24.6 ft) | Сар     | acity         | Reach  |
|                                |    |         |          |         |                 | ŀ         |           |         |           |         |               | m (ft) |
| 7.5 m                          | kg |         |          |         |                 |           |           |         |           | *5,080  | *5,080        | 5.58   |
| (24.6 ft)                      | lb |         |          |         |                 |           |           |         |           | *11,200 | *11,200       | (18.3) |
| 6.0 m                          | kg |         |          |         |                 | *5,010    | *5,010    |         |           | *4,610  | 4,430         | 6.82   |
| (19.7 ft)                      | lb |         |          |         |                 | *11,050   | *11,050   |         |           | *10,160 | 9,770         | (22.4) |
| 4.5 m                          | kg |         |          | *6,350  | *6,350          | *5,450    | 5,340     | *5,000  | 3,750     | *4,490  | 3,700         | 7.55   |
| (14.8 ft)                      | lb |         |          | *14,000 | *14,000         | *12,020   | 11,770    | *11,020 | 8,270     | *9,900  | 8,160         | (24.8) |
| 3.0 m                          | kg |         |          | *8,150  | 7,740           | *6,230    | 5,110     | *5,420  | 3,670     | *4,580  | 3,360         | 7.94   |
| (9.8 ft)                       | lb |         |          | *17,970 | 17,060          | *13,730   | 11,270    | *11,950 | 8,090     | *10,100 | 7,410         | (26.1) |
| 1.5 m                          | kg |         |          | *9,710  | 7,270           | *7,030    | 4,880     | 5,530   | 3,570     | *4,860  | 3,230         | 8.03   |
| (4.9 ft)                       | lb |         |          | *21,410 | 16,030          | *15,500   | 10,760    | 12,190  | 7,870     | *10,710 | 7,120         | (26.3) |
| Ground                         | kg |         |          | *10,410 | 7,060           | 7,550     | 4,730     | 5,460   | 3,500     | 5,140   | 3,310         | 7.83   |
| Line                           | lb |         |          | *22,950 | 15,560          | 16,640    | 10,430    | 12,040  | 7,720     | 11,330  | 7,300         | (25.7) |
| -1.5 m                         | kg | *10,830 | *10,830  | *10,330 | 7,040           | 7,500     | 4,690     |         |           | 5,660   | 3,620         | 7.31   |
| (-4.9 ft)                      | lb | *23,880 | *23,880  | *22,770 | 15,520          | 16,530    | 10,340    |         |           | 12,480  | 7,980         | (24.0) |
| -3.0 m                         | kg | *13,260 | *13,260  | *9,490  | 7,140           | *6,960    | 4,770     |         |           | *6,300  | 4,390         | 6.40   |
| (-9.8 ft)                      | lb | *29,230 | *29,230  | *20,920 | 15,740          | *15,340   | 10,520    |         |           | *13,890 | 9,680         | (21.0) |
| -4.5 m                         | kg |         |          | *7,150  | *7,150          |           |           |         |           | *6,320  | *6,320        | 4.89   |
| (-14.8 ft)                     | lb |         |          | *15,760 | *15,760         |           |           |         |           | *13,930 | *13,930       | (16.0) |

- 1. Lifting capacity is based on ISO 10567.
- 2. Lifting capacity of HX A Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- 3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
- 4. (\*) indicates load limited by hydraulic capacity.
- 5. Caution: please be aware of the local regulations and instructions for lifting operations.

# **LIFTING CAPACITY**

Rating over-front Rating over-side or 360 degrees

#### HX220AL

5.68 m (18' 8") Mono boom, 2.92 m (9' 7") arm equipped with 800 mm triple grouser shoe.

|                  |    |         |          |         |          | Lift-poir | nt radius |         |          |         |          |         | At max. Reach |        |
|------------------|----|---------|----------|---------|----------|-----------|-----------|---------|----------|---------|----------|---------|---------------|--------|
| Lift-poi         |    | 1.5 m   | (4.9 ft) | 3.0 m   | (9.8 ft) | 4.5 m (   | 14.8 ft)  | 6.0 m ( | 19.7 ft) | 7.5 m ( | 24.6 ft) | Сар     | acity         | Reach  |
| height<br>m (ft) |    |         |          |         |          |           |           |         |          |         |          |         |               | m (ft) |
| 7.5 m            | kg |         |          |         |          |           |           | *4,460  | *4,460   |         |          | *3,370  | *3,370        | 6.26   |
| (24.6 ft)        | lb |         |          |         |          |           |           | *9,830  | *9,830   |         |          | *7,430  | *7,430        | (20.5) |
| 6.0 m            | kg |         |          |         |          |           |           | *4,460  | *4,460   |         |          | *3,100  | *3,100        | 7.38   |
| (19.7 ft)        | lb |         |          |         |          |           |           | *9,830  | *9,830   |         |          | *6,830  | *6,830        | (24.2) |
| 4.5 m            | kg |         |          |         |          |           |           | *4,970  | *4,970   | *4,710  | 3,900    | *3,020  | *3,020        | 8.07   |
| (14.8 ft)        | lb |         |          |         |          |           |           | *10,960 | *10,960  | *10,380 | 8,600    | *6,660  | *6,660        | (26.5) |
| 3.0 m            | kg |         |          |         |          | *7,410    | *7,410    | *5,800  | 5,300    | *5,070  | 3,790    | *3,070  | *3,070        | 8.43   |
| (9.8 ft)         | lb |         |          |         |          | *16,340   | *16,340   | *12,790 | 11,680   | *11,180 | 8,360    | *6,770  | *6,770        | (27.7) |
| 1.5 m            | kg |         |          |         |          | *9,140    | 7,570     | *6,680  | 5,040    | *5,520  | 3,670    | *3,250  | 3,040         | 8.51   |
| (4.9 ft)         | lb |         |          |         |          | *20,150   | 16,690    | *14,730 | 11,110   | *12,170 | 8,090    | *7,170  | 6,700         | (27.9) |
| Ground           | kg |         |          | *5,930  | *5,930   | *10,140   | 7,270     | *7,330  | 4,860    | 5,600   | 3,570    | *3,590  | 3,090         | 8.32   |
| Line             | lb |         |          | *13,070 | *13,070  | *22,350   | 16,030    | *16,160 | 10,710   | 12,350  | 7,870    | *7,910  | 6,810         | (27.3) |
| -1.5 m           | kg | *6,500  | *6,500   | *10,400 | *10,400  | *10,350   | 7,180     | *7,590  | 4,780    | 5,560   | 3,540    | *4,200  | 3,350         | 7.84   |
| (-4.9 ft)        | lb | *14,330 | *14,330  | *22,930 | *22,930  | *22,820   | 15,830    | *16,730 | 10,540   | 12,260  | 7,800    | *9,260  | 7,390         | (25.7) |
| -3.0 m           | kg | *11,120 | *11,120  | *14,180 | 14,090   | *9,820    | 7,240     | *7,250  | 4,810    |         |          | *5,420  | 3,940         | 7.00   |
| (-9.8 ft)        | lb | *24,520 | *24,520  | *31,260 | 31,060   | *21,650   | 15,960    | *15,980 | 10,600   |         |          | *11,950 | 8,690         | (23.0) |
| -4.5 m           | kg |         |          | *11,610 | *11,610  | *8,190    | 7,450     |         |          |         |          | *6,080  | 5,420         | 5.65   |
| (-14.8 ft)       | lb |         |          | *25,600 | *25,600  | *18,060   | 16,420    |         |          |         |          | *13,400 | 11,950        | (18.5) |

5.68 m (18' 8") Mono boom, 3.90 m (12' 9") arm equipped with 600 mm (24") triple grouser shoe.

|                    |          |         |          |         |          |         |           |           | 51.0 C.  |         |           |        |           |                  |                  |                |
|--------------------|----------|---------|----------|---------|----------|---------|-----------|-----------|----------|---------|-----------|--------|-----------|------------------|------------------|----------------|
|                    |          |         |          |         |          |         | Lift-poir | nt radius |          |         |           |        |           | I                | At max. Reach    | 1              |
| Lift-poi           |          | 1.5 m   | (4.9 ft) | 3.0 m   | (9.8 ft) | 4.5 m ( | 14.8 ft)  | 6.0 m (   | 19.7 ft) | 7.5 m ( | (24.6 ft) | 9.0 m  | (29.5 ft) | Сар              | acity            | Reach          |
| heigh<br>m (ft)    |          |         |          |         |          |         |           |           |          |         |           | ŀ      |           | ·                |                  | m (ft)         |
| 7.5 m<br>(24.6 ft) | kg<br>lb |         |          |         |          |         |           |           |          |         |           |        |           | *2,330<br>*5,140 | *2,330<br>*5,140 | 7.49<br>(24.6) |
| 6.0 m              | kg       |         |          |         |          |         |           |           |          | *3,680  | *3,680    |        |           | *2.170           | *2.170           | 8.44           |
| (19.7 ft)          | lb       |         |          |         |          |         |           |           |          | *8,110  | *8,110    |        |           | *4,780           | *4,780           | (27.7)         |
| 4.5 m              | kg       |         |          |         |          |         |           |           |          | *3,920  | 3,820     | *2,330 | *2,330    | *2,120           | *2,120           | 9.05           |
| (14.8 ft)          | lb       |         |          |         |          |         |           |           |          | *8,640  | 8,420     | *5,140 | *5,140    | *4,670           | *4,670           | (29.7)         |
| 3.0 m              | kg       |         |          |         |          | *5,890  | *5,890    | *4,880    | *4,880   | *4,370  | 3,680     | *3,530 | 2,710     | *2,150           | *2,150           | 9.37           |
| (9.8 ft)           | lb       |         |          |         |          | *12,990 | *12,990   | *10,760   | *10,760  | *9,630  | 8,110     | *7,780 | 5,970     | *4,740           | *4,740           | (30.7)         |
| 1.5 m              | kg       |         |          | *8,630  | *8,630   | *7,850  | 7,470     | *5,870    | 4,900    | *4,920  | 3,510     | *4,080 | 2,630     | *2,250           | *2,250           | 9.45           |
| (4.9 ft)           | lb       |         |          | *19,030 | *19,030  | *17,310 | 16,470    | *12,940   | 10,800   | *10,850 | 7,740     | *8,990 | 5,800     | *4,960           | *4,960           | (31.0)         |
| Ground             | kg       |         |          | *7,210  | *7,210   | *9,310  | 7,000     | *6,730    | 4,640    | 5,330   | 3,370     | *3,890 | 2,570     | *2,440           | *2,440           | 9.28           |
| Line               | lb       |         |          | *15,900 | *15,900  | *20,530 | 15,430    | *14,840   | 10,230   | 11,750  | 7,430     | *8,580 | 5,670     | *5,380           | *5,380           | (30.4)         |
| -1.5 m             | kg       | *5,430  | *5,430   | *9,370  | *9,370   | *10,030 | 6,770     | *7,260    | 4,480    | 5,240   | 3,280     |        |           | *2,780           | 2,610            | 8.85           |
| (-4.9 ft)          | lb       | *11,970 | *11,970  | *20,660 | *20,660  | *22,110 | 14,930    | *16,010   | 9,880    | 11,550  | 7,230     |        |           | *6,130           | 5,750            | (29.0)         |
| -3.0 m             | kg       | *8,510  | *8,510   | *13,040 | *13,040  | *10,030 | 6,730     | 7,250     | 4,440    | 5,220   | 3,270     |        |           | *3,380           | 2,950            | 8.12           |
| (-9.8 ft)          | lb       | *18,760 | *18,760  | *28,750 | *28,750  | *22,110 | 14,840    | 15,980    | 9,790    | 11,510  | 7,210     |        |           | *7,450           | 6,500            | (26.6)         |
| -4.5 m             | kg       | *12,380 | *12,380  | *13,530 | 13,400   | *9,220  | 6,840     | *6,720    | 4,520    |         |           |        |           | *4,660           | 3,700            | 6.99           |
| (-14.8 ft)         | lb       | *27,290 | *27,290  | *29,830 | 29,540   | *20,330 | 15,080    | *14,820   | 9,960    |         |           |        |           | *10,270          | 8,160            | (22.9)         |
| -6.0 m             | kg       |         |          | *10,120 | *10,120  | *6,860  | *6,860    |           |          |         |           |        |           | *5,510           | *5,510           | 5.21           |
| (-19.7 ft)         | lb       |         |          | *22,310 | *22,310  | *15,120 | *15,120   |           |          |         |           |        |           | *12,150          | *12,150          | (17.1)         |

- 1. Lifting capacity is based on ISO 10567
- 2. Lifting capacity of HX A Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- 3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
- 4. (\*) indicates load limited by hydraulic capacity.
- 5. Caution: please be aware of the local regulations and instructions for lifting operations.

# **LIFTING CAPACITY**

Rating over-front Rating over-side or 360 degrees

#### HX220AL

5.68 m (18' 8") Mono boom, 2.92 m (9' 7") arm equipped with 600 mm (24") triple grouser shoe.

|                  |    |         |          |         |          | Lift-poir | nt radius |         |           |         |          |         | At max. Reach |        |
|------------------|----|---------|----------|---------|----------|-----------|-----------|---------|-----------|---------|----------|---------|---------------|--------|
| Lift-poin        |    | 1.5 m   | (4.9 ft) | 3.0 m   | (9.8 ft) | 4.5 m (   | (14.8 ft) | 6.0 m   | (19.7 ft) | 7.5 m ( | 24.6 ft) | Сар     | acity         | Reach  |
| height<br>m (ft) |    |         |          |         |          |           |           |         |           |         |          |         |               | m (ft) |
| 7.5 m            | kg |         |          |         |          |           |           | *4,460  | *4,460    |         |          | *3,370  | *3,370        | 6.26   |
| (24.6 ft)        | lb |         |          |         |          |           |           | *9,830  | *9,830    |         |          | *7,430  | *7,430        | (20.5) |
| 6.0 m            | kg |         |          |         |          |           |           | *4,460  | *4,460    |         |          | *3,100  | *3,100        | 7.38   |
| (19.7 ft)        | lb |         |          |         |          |           |           | *9,830  | *9,830    |         |          | *6,830  | *6,830        | (24.2) |
| 4.5 m            | kg |         |          |         |          |           |           | *4,970  | *4,970    | *4,710  | 3,780    | *3,020  | *3,020        | 8.07   |
| (14.8 ft)        | lb |         |          |         |          |           |           | *10,960 | *10,960   | *10,380 | 8,330    | *6,660  | *6,660        | (26.5) |
| 3.0 m            | kg |         |          |         |          | *7,410    | *7,410    | *5,800  | 5,140     | *5,070  | 3,670    | *3,070  | 3,050         | 8.43   |
| (9.8 ft)         | lb |         |          |         |          | *16,340   | *16,340   | *12,790 | 11,330    | *11,180 | 8,090    | *6,770  | 6,720         | (27.7) |
| 1.5 m            | kg |         |          |         |          | *9,140    | 7,340     | *6,680  | 4,890     | *5,520  | 3,550    | *3,250  | 2,940         | 8.51   |
| (4.9 ft)         | lb |         |          |         |          | *20,150   | 16,180    | *14,730 | 10,780    | *12,170 | 7,830    | *7,170  | 6,480         | (27.9) |
| Ground           | kg |         |          | *5,930  | *5,930   | *10,140   | 7,040     | *7,330  | 4,700     | 5,410   | 3,450    | *3,590  | 2,990         | 8.32   |
| Line             | lb |         |          | *13,070 | *13,070  | *22,350   | 15,520    | *16,160 | 10,360    | 11,930  | 7,610    | *7,910  | 6,590         | (27.3) |
| -1.5 m           | kg | *6,500  | *6,500   | *10,400 | *10,400  | *10,350   | 6,950     | 7,440   | 4,620     | 5,380   | 3,420    | *4,200  | 3,230         | 7.84   |
| (-4.9 ft)        | lb | *14,330 | *14,330  | *22,930 | *22,930  | *22,820   | 15,320    | 16,400  | 10,190    | 11,860  | 7,540    | *9,260  | 7,120         | (25.7) |
| -3.0 m           | kg | *11,120 | *11,120  | *14,180 | 13,660   | *9,820    | 7,010     | *7,250  | 4,650     |         |          | *5,420  | 3,800         | 7.00   |
| (-9.8 ft)        | lb | *24,520 | *24,520  | *31,260 | 30,120   | *21,650   | 15,450    | *15,980 | 10,250    |         |          | *11,950 | 8,380         | (23.0) |
| -4.5 m           | kg |         |          | *11,610 | *11,610  | *8,190    | 7,220     |         |           |         |          | *6,080  | 5,250         | 5.65   |
| (-14.8 ft)       | lb |         | ĺ        | *25,600 | *25,600  | *18,060   | 15,920    |         |           |         |          | *13,400 | 11,570        | (18.5) |

8.20 m (26′ 11″) boom, 6.30 m (20′ 8″) arm equipped with 800 mm triple grouser shoe.

|                       |          |         |          |         |          |         |          |         |          | Lift-point | radius   |         |          |        |           |        |          |        |           | At             | max. Rea       | ach             |
|-----------------------|----------|---------|----------|---------|----------|---------|----------|---------|----------|------------|----------|---------|----------|--------|-----------|--------|----------|--------|-----------|----------------|----------------|-----------------|
| Lift-poi              |          | 1.5 m   | (4.9 ft) | 3.0 m   | (9.8 ft) | 4.5 m ( | 14.8 ft) | 6.0 m ( | 19.7 ft) | 7.5 m (    | 24.6 ft) | 9.0 m ( | 29.5 ft) | 10.5 m | (34.4 ft) | 12.0 m | (39.4 ft | 13.5 m | (44.3 ft) | Сар            | acity          | Reach           |
| heigh<br>m (ft)       |          | r de    | <b>=</b> | ŀ       | <b>1</b> | ŀ       | <b>=</b> | ŀ       | <b>=</b> | ŀ          | <b>#</b> | ŀ       | <b>Æ</b> | ŀ      | <b>=</b>  | ŀ      | <b>=</b> | ŀ      | <b>#</b>  | ŀ              | <b>=</b>       | m (ft)          |
| 10.5 m                | kg       |         |          |         |          |         |          |         |          |            |          |         |          |        | *1,180    |        |          |        |           | *870           | *870           | 10.88           |
| (34.4 ft)             | lb       |         |          |         |          |         |          |         |          |            |          |         |          | *2,600 | *2,600    |        |          |        |           | *1,920         | *1,920         | (35.7)          |
| 9.0 m                 | kg       |         |          |         |          |         |          |         |          |            | l        | l       |          | <br>   |           |        |          |        |           | *820           | *820<br>*1,810 | 11.94           |
| (29.5 ft)<br>7.5 m    | lb<br>kg |         |          |         |          |         |          |         |          |            |          |         |          | *1.870 | *1.870    | *1 /10 | *1 /10   |        |           | *1,810<br>*790 | *790           | (39.2)<br>12.74 |
| (24.6 ft)             | lb       |         |          |         |          |         |          |         |          |            |          |         |          | *4.120 | , , ,     | *3,110 | , ,      |        |           | *1,740         |                |                 |
| 6.0 m                 | kg       |         |          |         |          |         |          |         |          |            |          |         |          | *1.990 |           | *1.780 | _        |        |           | *790           | *790           | 13.31           |
| (19.7 ft)             | lb       |         |          |         |          |         |          |         |          |            |          |         |          | ,      | *4,390    | ,      | ,        |        |           | *1,740         |                |                 |
| 4.5 m                 | kg       |         |          |         |          |         |          |         |          |            |          | *2 290  | *2,290   | _      | *2,170    | _      | _        | *1.050 | *1.050    | *800           | *800           | 13.70           |
| (14.8 ft)             | lb       |         |          | i       | i        |         |          | i i     |          |            |          |         | *5,050   |        | *4,780    |        |          |        | ,         |                | *1,760         |                 |
| 3.0 m                 | kg       |         |          |         |          |         |          |         |          | *2,980     | *2,980   | _       | *2,630   |        | _         | *2,250 | _        | *1,340 | *1,340    | *830           | *830           | 13.92           |
| (9.8 ft)              | lb       |         |          | İ       |          | İ       |          | İ       |          | *6,570     | *6,570   | *5,800  | *5,800   | *5,290 | *5,290    | *4,960 | 4,410    | *2,950 | *2,950    | *1,830         | *1,830         | (45.7)          |
| 1.5 m                 | kg       |         |          | *2,800  | *2,800   | *6,330  | *6,330   | *4,470  | *4,470   | *3,530     | *3,530   | *2,990  | *2,990   | *2,640 | 2,400     | *2,410 | 1,910    | *1,490 | *1,490    | *880           | *880           | 13.97           |
| (4.9 ft)              | lb       |         |          | *6,170  | *6,170   | *13,960 | *13,960  | *9,850  | *9,850   | *7,780     | *7,780   | *6,590  | *6,590   | *5,820 | 5,290     | *5,310 | 4,210    | *3,280 | *3,280    | *1,940         | *1,940         | (45.8)          |
| Ground                | kg       |         |          | *2,410  | *2,410   | *6,270  | *6,270   | *5,260  | 5,020    | *4,050     | 3,710    | *3,340  | 2,870    | *2,880 | 2,270     | *2,580 | 1,830    | *1,470 | *1,470    | *950           | *950           | 13.85           |
| Line                  | lb       |         |          | *5,310  | *5,310   | *13,820 | *13,820  | *11,600 | 11,070   | *8,930     | 8,180    | *7,360  | 6,330    | *6,350 | 5,000     | *5,690 | 4,030    | *3,240 | *3,240    | *2,090         | *2,090         | (45.4)          |
| -1.5 m                | kg       | *1,990  | *1,990   | *2,980  | *2,980   | *5,610  | *5,610   | *5,830  | 4,690    | *4,460     | 3,480    | *3,630  | 2,710    | *3,090 | 2,160     | *2,720 | 1,760    | *1,170 | *1,170    | *1,040         | *1,040         | 13.57           |
| (-4.9 ft)             | lb       | *4,390  | *4,390   | *6,570  | *6,570   | *12,370 | *12,370  | *12,850 | 10,340   | *9,830     | 7,670    | *8,000  |          | *6,810 |           | *6,000 | 3,880    | *2,580 | *2,580    | *2,290         | *2,290         | (44.5)          |
| -3.0 m                | kg       | *2,870  | *2,870   | *3,800  | *3,800   | *6,050  |          |         |          | *4,750     | 3,330    | *3,850  |          | *3,250 |           | *2,810 |          |        |           |                | *1,180         |                 |
| (-9.8 ft)             | lb       | *6,330  | *6,330   | *8,380  |          |         |          | *13,600 |          | *10,470    |          | *8,490  |          | _      | 4,610     | *6,190 |          |        |           | _              | *2,600         | _ /             |
| -4.5 m                | kg       | *3,790  | *3,790   | *4,800  | *4,800   | *7,020  | .,       |         | 4,450    | *4,880     | -,       | *3,960  |          | *3,320 |           | *2,380 |          |        |           | ,              | *1,390         |                 |
| (-14.8 ft)            | lb       | *8,360  | _        |         |          |         |          | *13,870 |          | *10,760    |          |         | 5,600    | *7,320 |           | *5,250 | 3,750    |        |           | _              | *3,060         |                 |
| -6.0 m                | kg       | *4,800  | *4,800   | *5,970  | - /      | *8,340  | .,.      | -,      | 4,470    | *4,850     | -,       | *3,930  |          | -,     | 2,070     |        |          |        |           | , ,            | *1,720         |                 |
| (-19.7 ft)            | lb .     |         | _        |         |          |         |          | *13,650 |          |            |          | _       | 5,620    | *7,170 | 4,560     |        |          |        |           |                | *3,790         |                 |
| -7.5 m                | kg<br>   | *5,950  | .,       | , ,     | *7,410   | , .     | ,        | -,      | 4,590    | *4,600     | -,       | *3,700  | ,        |        |           |        |          |        |           | ,              | 2,190          | 10.37           |
| (-24.6 ft)            |          | *13,120 | *13,120  |         |          |         |          | *12,850 |          |            |          | *8,160  | 5,780    |        |           |        |          |        |           |                | 4,830          | (34.0)          |
| -9.0 m                | kg       |         |          | *9,290  | -,       | *6,700  | .,       | -,      | ,        | *3,980     | -,-      |         |          |        |           |        |          |        |           |                | 2,880          | 8.77            |
| (-29.5 ft)            | lb       |         |          | ^20,480 | ^20,480  | 14,//0  | 14,770   | *11,240 | 10,560   | ^8,770     | 7,760    |         |          |        |           |        |          |        |           | ^6,970         | 6,350          | (28.8)          |
| -10.5 m<br>(-34.4 ft) | kg<br>lb |         |          |         |          |         |          |         |          |            |          |         |          |        |           |        |          |        |           |                |                |                 |

- 1. Lifting capacity is based on ISO 10567.
- 2. Lifting capacity of HX A Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- 3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
- 4. (\*) indicates load limited by hydraulic capacity.
- 5. Caution: please be aware of the local regulations and instructions for lifting operations.

# LIFTING CAPACITY

Rating over-front Rating over-side or 360 degrees

#### **HX220AL 2-PIECE BOOM**

3.673 m boom 2-Piece, 2.92 m (6' 7") arm equipped with 600 mm (24") triple grouser shoe.

|                 |    |         |          |         | Lift-poir | nt radius |          |         |          |         | At max. Reach |        |
|-----------------|----|---------|----------|---------|-----------|-----------|----------|---------|----------|---------|---------------|--------|
| Lift-poi        |    | 3.0 m   | (9.8 ft) | 4.5 m ( | 14.8 ft)  | 6.0 m (   | 19.7 ft) | 7.5 m ( | 24.6 ft) | Cap     | acity         | Reach  |
| heigh<br>m (ft) |    | ·       |          |         |           | ŀ         |          | ŀ       |          |         |               | m (ft) |
| 9.0 m           | kg |         |          |         |           |           |          |         |          | *4,550  | *4,550        | 4.46   |
| (29.5 ft)       | lb |         |          |         |           |           |          |         |          | *10,030 | *10,030       | (14.6) |
| 7.5 m           | kg |         |          | *6,200  | *6,200    | *5,300    | *5,300   |         |          | *3,630  | *3,630        | 6.32   |
| (24.6 ft)       | lb |         |          | *13,670 | *13,670   | *11,680   | *11,680  |         |          | *8,000  | *8,000        | (20.7) |
| 6.0 m           | kg |         |          | *6,430  | *6,430    | *5,760    | 5,560    |         |          | *3,300  | *3,300        | 7.43   |
| (19.7 ft)       | lb |         |          | *14,180 | *14,180   | *12,700   | 12,260   |         |          | *7,280  | *7,280        | (24.4) |
| 4.5 m           | kg | *10,530 | *10,530  | *8,050  | *8,050    | *6,090    | 5,370    | *4,920  | 3,730    | *3,180  | *3,180        | 8.11   |
| (14.8 ft)       | lb | *23,210 | *23,210  | *17,750 | *17,750   | *13,430   | 11,840   | *10,850 | 8,220    | *7,010  | *7,010        | (26.6) |
| 3.0 m           | kg |         |          | *10,100 | 7,820     | *6,730    | 5,080    | *5,130  | 3,610    | *3,200  | 2,950         | 8.47   |
| (9.8 ft)        | lb |         |          | *22,270 | 17,240    | *14,840   | 11,200   | *11,310 | 7,960    | *7,050  | 6,500         | (27.8) |
| 1.5 m           | kg |         |          | *11,830 | 7,210     | *7,620    | 4,800    | *5,440  | 3,470    | *3,350  | 2,840         | 8.55   |
| (4.9 ft)        | lb |         |          | *26,080 | 15,900    | *16,800   | 10,580   | *11,990 | 7,650    | *7,390  | 6,260         | (28.1) |
| Ground          | kg |         |          | 11,830  | 6,880     | 7,480     | 4,590    | 5,370   | 3,370    | *3,640  | 2,890         | 8.36   |
| Line            | lb |         |          | 26,080  | 15,170    | 16,490    | 10,120   | 11,840  | 7,430    | *8,020  | 6,370         | (27.4) |
| -1.5 m          | kg | *11,710 | *11,710  | *10,960 | 6,790     | 7,380     | 4,510    | 5,340   | 3,340    | *4,180  | 3,140         | 7.88   |
| (-4.9 ft)       | lb | *25,820 | *25,820  | *24,160 | 14,970    | 16,270    | 9,940    | 11,770  | 7,360    | *9,220  | 6,920         | (25.9) |
| -3.0 m          | kg | *11,250 | *11,250  | *8,920  | 6,870     | *6,680    | 4,560    |         |          | *4,770  | 3,710         | 7.05   |
| (-9.8 ft)       | lb | *24,800 | *24,800  | *19,670 | 15,150    | *14,730   | 10,050   |         |          | *10,520 | 8,180         | (23.1) |

<sup>1.</sup> Lifting capacity is based on ISO 10567.

# LIFTING CAPACITY

Rating over-front Rating over-side or 360 degrees

#### **HX220AL HIGH WALKER**

8.20 m (26' 11") boom, 6.30 m (20' 8") arm equipped with 800 mm triple grouser shoe.

|                     |            |                  |                  |                  |                  |         |                   |                   | Lift           | -point rad       | dius     |         |           |        |           |        |                  |        |           | At     | max. Rea       | ach    |
|---------------------|------------|------------------|------------------|------------------|------------------|---------|-------------------|-------------------|----------------|------------------|----------|---------|-----------|--------|-----------|--------|------------------|--------|-----------|--------|----------------|--------|
| Lift-poi            |            | 1.5 m            | (4.9 ft)         | 3.0 m            | (9.8 ft)         | 4.5 m ( | 14.8 ft)          | 6.0 m (           | 19.7 ft)       | 7.5 m (          | 24.6 ft) | 9.0 m ( | (29.5 ft) | 10.5 m | (34.4 ft) | 12.0 m | (39.4 ft         | 13.5 m | (44.3 ft) | Cap    | acity          | Reach  |
| heigh<br>m (ft)     |            | ·                | #                | f.               | #                | ŀ       | #                 | <b>₽</b>          | #              | ŀ                | #        | ŀ       | #         | r#     | #         | r r    | #                | f.     | #         | ŀ      | #              | m (ft) |
| 10.5 m              | kg         |                  |                  |                  |                  |         |                   |                   |                |                  |          |         |           | *1,280 |           |        |                  |        |           | *860   | *860           | 11.04  |
| (34.4 ft)           | _          |                  |                  |                  |                  |         |                   |                   |                |                  |          |         |           | *2,820 | *2,820    |        |                  |        |           |        | *1,900         | _ /    |
| 9.0 m               | kg         |                  |                  |                  |                  |         |                   |                   |                |                  |          |         |           |        |           | *880   | *880             |        |           | *810   | *810           | 12.06  |
| (29.5 ft)           | lb .       |                  |                  |                  |                  |         |                   |                   |                |                  |          |         |           | +4.000 | +4.000    | _      | *1,940           |        |           |        | *1,790         |        |
| 7.5 m               | kg         |                  |                  |                  |                  |         |                   |                   |                |                  |          |         | <br>      | ,      | ,         | , .    | *1,470           |        |           | *790   | *790           | 12.82  |
| (24.6 ft)<br>6.0 m  | lb<br>kg   |                  |                  |                  |                  |         |                   |                   |                |                  |          |         |           | _      | _         | _      | *3,240<br>*1.820 |        |           | *790   | *1,740<br>*790 | 13.38  |
| (19.7 ft)           | i -        |                  |                  |                  |                  |         |                   |                   |                |                  |          |         |           | , , ,  | ,         | ,      | *4,010           |        |           |        | *1,740         |        |
| 4.5 m               | kg         |                  |                  |                  |                  |         |                   |                   |                |                  |          | *2.330  | *2.330    | *2,200 | _         | _      | _                | _      | *1.090    | *800   | *800           | 13.74  |
| (14.8 ft)           | lb         | İ                |                  |                  |                  |         |                   |                   |                |                  | İ        |         |           | *4,850 |           |        |                  |        |           | *1,760 | *1,760         | (45.1) |
| 3.0 m               | kg         |                  |                  |                  |                  |         |                   | *3,680            | *3,680         | *3,050           | *3,050   | *2,670  | *2,670    | *2,430 | *2,430    | *2,270 | 2,110            | *1,360 | *1,360    | *830   | *830           | 13.93  |
| (9.8 ft)            | lb         |                  |                  |                  |                  |         |                   | *8,110            | *8,110         | *6,720           | *6,720   | *5,890  | *5,890    | *5,360 | *5,360    | *5,000 | 4,650            | *3,000 | *3,000    | *1,830 | *1,830         | (45.7) |
| 1.5 m               | kg         |                  |                  | *2,610           | *2,610           | *6,530  | *6,530            | *4,580            | *4,580         | *3,610           |          |         |           | *2,670 |           | *2,430 |                  | *1,490 |           | *880   | *880           | 13.96  |
| (4.9 ft)            | lb         |                  |                  | *5,750           | *5,750           | -       | *14,400           |                   | -              | -                | _        |         | _         | *5,890 | _         | _      |                  | *3,280 |           |        | _              | · /    |
| Ground              | kg         |                  |                  | *2,460           | *2,460           | .,      | *6,060            | *5,350            |                | *4,110           |          |         |           | *2,910 |           |        | ,                | *1,450 | ,         |        | *960           | 13.83  |
| Line                | lb         |                  |                  | *5,420           |                  |         | *13,360           |                   |                | *9,060           | _        |         |           |        |           |        |                  |        |           |        |                |        |
| -1.5 m              | kg         | *2,110           | , .              | *3,080           | *3,080           | *5,620  | *5,620            | *5,890            | 3,670          | *4,510           |          |         |           | *3,120 |           |        |                  | *1,100 |           |        |                |        |
| (-4.9 ft)<br>-3.0 m | lb<br>kg   | *4,650<br>*2.990 | *4,650<br>*2.990 | *6,790<br>*3,930 | *6,790<br>*3,930 | *6,160  | *12,390<br>*6,160 | *12,990<br>*6,200 | 8,090<br>3,530 | *9,940<br>*4,770 | 3,530    |         | 2,760     | *3,260 |           |        | 1,830            | *2,430 | ^2,430    |        | *1,210         | _ /    |
| (-9.8 ft)           | l kg<br>lb | *6.590           | *6.590           | *8,660           |                  |         | *13,580           |                   |                | *10,520          |          |         |           | *7,190 |           |        | 4,030            |        |           |        | *2,670         |        |
| -4.5 m              | kg         | *3.920           | *3.920           | *4,940           | *4,940           | *7,180  |                   | *6,290            | 3,470          | *4,890           | _        | _       | _         | *3,320 | _         | *2,210 |                  |        |           |        | *1,430         |        |
| (-14.8 ft)          | lb         | *8.640           |                  |                  |                  | *15,830 |                   | *13,870           |                | *10,780          |          |         |           | *7,320 |           |        |                  |        |           |        | *3,150         |        |
| -6.0 m              | kg         | *4,950           | *4,950           | *6,150           | *6,150           | *8,280  | 7,270             | *6,160            | 3,490          | *4,830           | 3,490    | *3,920  | 2,720     | *3,230 | 2,220     |        |                  |        |           | *1,780 | *1,780         | 11.42  |
| (-19.7 ft)          | lb         | *10,910          | *10,910          | *13,560          | *13,560          | *18,250 | 16,030            | *13,580           | 7,690          | *10,650          | 7,690    | *8,640  | 6,000     | *7,120 | 4,890     |        |                  |        |           | *3,920 | *3,920         | (37.5) |
| -7.5 m              | kg         | *6,110           | *6,110           | *7,630           | *7,630           | *7,630  | 7,480             | *5,760            | 3,570          | *4,540           | 3,570    | *3,640  | 2,800     |        |           |        |                  |        |           | *2,410 | 2,400          | 10.19  |
| (-24.6 ft)          | lb         | *13,470          | *13,470          | _                | _                | *16,820 |                   | *12,700           |                | *10,010          |          | *8,020  | 6,170     |        |           |        |                  |        |           |        | 5,290          |        |
| -9.0 m              | kg         |                  |                  | *9,180           | *9,180           |         | *6,510            | *4,960            | *4,960         | *3,850           | 3,760    |         |           |        |           |        |                  |        |           |        | *3,190         | : .    |
| (-29.5 ft)          | _          |                  |                  | *20,240          | *20,240          | *14,350 | *14,350           | *10,930           | *10,930        | *8,490           | 8,290    |         |           |        |           |        |                  |        |           | *7,030 | *7,030         | (27.9) |
| -10.5 m             | kg         |                  |                  |                  |                  |         |                   |                   |                |                  |          |         |           |        |           |        |                  |        |           |        |                |        |
| (-34.4 ft)          | Ib         |                  |                  |                  |                  |         |                   |                   |                |                  |          |         |           |        |           |        |                  |        |           |        |                |        |

<sup>1.</sup> Lifting capacity is based on ISO 10567.

<sup>2.</sup> Lifting capacity of HX A Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

<sup>3.</sup> The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).

<sup>4. (\*)</sup> indicates load limited by hydraulic capacity.

<sup>5.</sup> Caution: please be aware of the local regulations and instructions for lifting operations.

<sup>2.</sup> Lifting capacity of HX A Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

<sup>3.</sup> The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).

<sup>4. (\*)</sup> indicates load limited by hydraulic capacity.

<sup>5.</sup> Caution: please be aware of the local regulations and instructions for lifting operations.

# **LIFTING CAPACITY**

Rating over-front Rating over-side or 360 degrees

#### **HX220AL HIGH WALKER**

5.68 m (18' 8") Mono boom, 2.00 m (6' 7") arm equipped with 600 mm (24") triple grouser shoe.

|                 |    |         |          |         | Lift-poir | nt radius |          |         |          |         | At max. Reach |        |
|-----------------|----|---------|----------|---------|-----------|-----------|----------|---------|----------|---------|---------------|--------|
| Lift-poi        |    | 3.0 m   | (9.8 ft) | 4.5 m ( | 14.8 ft)  | 6.0 m (   | 19.7 ft) | 7.5 m ( | 24.6 ft) | Cap     | acity         | Reach  |
| heigh<br>m (ft) |    |         |          |         |           |           |          |         |          |         |               | m (ft) |
| 7.5 m           | kg |         |          |         |           |           |          |         |          | *5,670  | *5,670        | 5.23   |
| (24.6 ft)       | lb |         |          |         |           |           |          |         |          | *12,500 | *12,500       | (17.1) |
| 6.0 m           | kg |         |          |         |           | *5,470    | *5,470   |         |          | *5,530  | 5,060         | 6.48   |
| (19.7 ft)       | lb |         |          |         |           | *12,060   | *12,060  |         |          | *12,190 | 11,160        | (21.3) |
| 4.5 m           | kg |         |          | *7,120  | *7,120    | *5,900    | 5,600    |         |          | *5,580  | 4,220         | 7.21   |
| (14.8 ft)       | lb |         |          | *15,700 | *15,700   | *13,010   | 12,350   |         |          | *12,300 | 9,300         | (23.7) |
| 3.0 m           | kg |         |          | *8,930  | 8,030     | *6,650    | 5,370    | *5,740  | 3,900    | *5,720  | 3,840         | 7.58   |
| (9.8 ft)        | lb |         |          | *19,690 | 17,700    | *14,660   | 11,840   | *12,650 | 8,600    | *12,610 | 8,470         | (24.9) |
| 1.5 m           | kg |         |          |         |           | *7,340    | 5,170    | 5,910   | 3,820    | 5,760   | 3,730         | 7.63   |
| (4.9 ft)        | lb |         |          |         |           | *16,180   | 11,400   | 13,030  | 8,420    | 12,700  | 8,220         | (25.0) |
| Ground          | kg |         |          | *10,520 | 7,550     | *7,710    | 5,070    |         |          | 6,010   | 3,870         | 7.37   |
| Line            | lb |         |          | *23,190 | 16,640    | *17,000   | 11,180   |         |          | 13,250  | 8,530         | (24.2) |
| -1.5 m          | kg | *12,400 | *12,400  | *10,130 | 7,580     | *7,550    | 5,070    |         |          | *6,470  | 4,340         | 6.78   |
| (-4.9 ft)       | lb | *27,340 | *27,340  | *22,330 | 16,710    | *16,640   | 11,180   |         |          | *14,260 | 9,570         | (22.2) |
| -3.0 m          | kg | *12,040 | *12,040  | *8,890  | 7,730     |           |          |         |          | *6,690  | 5,540         | 5.73   |
| (-9.8 ft)       | lb | *26,540 | *26,540  | *19,600 | 17,040    |           |          |         |          | *14,750 | 12,210        | (18.8) |
| -4.5 m          | kg |         |          |         |           |           |          |         |          |         |               |        |
| (-14.8 ft)      | lb |         |          |         |           |           |          |         |          |         |               |        |

5.68 m (18' 8") Mono boom, 2.40 m (7' 10") arm equipped with 600 mm (24") triple grouser shoe.

|                      |          |                    |                    |                    | Lift-poir         | nt radius         |                   |                   |                |                   | At max. Reach     |                |
|----------------------|----------|--------------------|--------------------|--------------------|-------------------|-------------------|-------------------|-------------------|----------------|-------------------|-------------------|----------------|
| Lift-poi             |          | 3.0 m              | (9.8 ft)           | 4.5 m (            | 14.8 ft)          | 6.0 m             | (19.7 ft)         | 7.5 m (           | (24.6 ft)      | Сар               | acity             | Reach          |
| heigh<br>m (ft)      |          |                    |                    |                    |                   |                   |                   |                   |                |                   |                   | m (ft)         |
| 7.5 m<br>(24.6 ft)   | kg<br>Ib |                    |                    |                    |                   |                   |                   |                   |                | *4,990<br>*11,000 | *4,990<br>*11,000 | 5.79<br>(19.0) |
| 6.0 m<br>(19.7 ft)   | kg<br>Ib |                    |                    |                    |                   | *5,040<br>*11,110 | *5,040<br>*11,110 |                   |                | *4,580<br>*10,100 | 4,560<br>10,050   | 6.94<br>(22.8) |
| 4.5 m<br>(14.8 ft)   | kg<br>Ib |                    |                    | *6,570<br>*14,480  | *6,570<br>*14,480 | *5,540<br>*12,210 | *5,540<br>*12,210 | *5,190<br>*11,440 | 3,980<br>8,770 | *4,490<br>*9,900  | 3,870<br>8,530    | 7.62<br>(25.0) |
| 3.0 m<br>(9.8 ft)    | kg<br>Ib |                    |                    | *8,390<br>*18,500  | 8,120<br>17,900   | *6,350<br>*14,000 | 5,390<br>11,880   | *5,470<br>*12,060 | 3,900<br>8,600 | *4,600<br>*10,140 | 3,550<br>7,830    | 7.97<br>(26.1) |
| 1.5 m<br>(4.9 ft)    | kg<br>Ib |                    |                    | *9,850<br>*21,720  | 7,690<br>16,950   | *7,120<br>*15,700 | 5,170<br>11,400   | *5,830<br>*12,850 | 3,800<br>8,380 | *4,920<br>*10,850 | 3,450<br>7,610    | 8.02<br>(26.3) |
| Ground<br>Line       | kg<br>Ib |                    |                    | *10,440<br>*23,020 | 7,510<br>16,560   | *7,600<br>*16,760 | 5,040<br>11,110   | 5,820<br>12,830   | 3,730<br>8,220 | *5,520<br>*12,170 | 3,560<br>7,850    | 7.78<br>(25.5) |
| -1.5 m<br>(-4.9 ft)  | kg<br>Ib | *11,820<br>*26,060 | *11,820<br>*26,060 | *10,270<br>*22,640 | 7,500<br>16,530   | *7,600<br>*16,760 | 5,010<br>11,050   |                   |                | *6,070<br>*13,380 | 3,940<br>8,690    | 7.22<br>(23.7) |
| -3.0 m<br>(-9.8 ft)  | kg<br>Ib | *12,960<br>*28,570 | *12,960<br>*28,570 | *9,300<br>*20,500  | 7,620<br>16,800   | *6,760<br>*14,900 | 5,110<br>11,270   |                   |                | *6,330<br>*13,960 | 4,860<br>10,710   | 6.25 (20.5)    |
| -4.5 m<br>(-14.8 ft) | kg<br>Ib |                    |                    |                    |                   |                   |                   |                   |                |                   |                   | . ,            |

- 1. Lifting capacity is based on ISO 10567.
- 2. Lifting capacity of HX A Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- 3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
- 4. (\*) indicates load limited by hydraulic capacity.
- $5. \ Caution: \ please \ be \ aware \ of \ the \ local \ regulations \ and \ instructions \ for \ lifting \ operations.$

# **LIFTING CAPACITY**

Rating over-front Rating over-side or 360 degrees

#### **HX220AL HIGH WALKER**

5.68 m (18' 8") Mono boom, 2.92 m (9' 7") arm equipped with 600 mm (24") triple grouser shoe.

|                 |    |         |          |         |          | Lift-poir | nt radius |         |          |         |          |         | At max. Reach |        |
|-----------------|----|---------|----------|---------|----------|-----------|-----------|---------|----------|---------|----------|---------|---------------|--------|
| Lift-poi        |    | 1.5 m   | (4.9 ft) | 3.0 m   | (9.8 ft) | 4.5 m (   | (14.8 ft) | 6.0 m   | 19.7 ft) | 7.5 m ( | 24.6 ft) | Cap     | acity         | Reach  |
| heigh<br>m (ft) |    |         |          |         |          |           |           | ŀ       |          | ŀ       |          | ŀ       |               | m (ft) |
| 7.5 m           | kg |         |          |         |          |           |           | *4,490  | *4,490   |         |          | *3,320  | *3,320        | 6.44   |
| (24.6 ft)       | lb |         |          |         |          |           |           | *9,900  | *9,900   |         |          | *7,320  | *7,320        | (21.1) |
| 6.0 m           | kg |         |          |         |          |           |           | *4,500  | *4,500   |         |          | *3,080  | *3,080        | 7.49   |
| (19.7 ft)       | lb |         |          |         |          |           |           | *9,920  | *9,920   |         |          | *6,790  | *6,790        | (24.6) |
| 4.5 m           | kg |         |          |         |          |           |           | *5,070  | *5,070   | *4,750  | 4,010    | *3,020  | *3,020        | 8.13   |
| (14.8 ft)       | lb |         |          |         |          |           |           | *11,180 | *11,180  | *10,470 | 8,840    | *6,660  | *6,660        | (26.7) |
| 3.0 m           | kg |         |          |         |          | *7,670    | *7,670    | *5,920  | 5,420    | *5,130  | 3,900    | *3,090  | *3,090        | 8.46   |
| (9.8 ft)        | lb |         |          |         |          | *16,910   | *16,910   | *13,050 | 11,950   | *11,310 | 8,600    | *6,810  | *6,810        | (27.7) |
| 1.5 m           | kg |         |          |         |          | *9,330    | 7,740     | *6,780  | 5,170    | *5,570  | 3,770    | *3,290  | 3,140         | 8.50   |
| (4.9 ft)        | lb |         |          |         |          | *20,570   | 17,060    | *14,950 | 11,400   | *12,280 | 8,310    | *7,250  | 6,920         | (27.9) |
| Ground          | kg |         |          | *6,460  | *6,460   | *10,210   | 7,480     | *7,390  | 5,000    | 5,770   | 3,680    | *3,650  | 3,220         | 8.28   |
| Line            | lb |         |          | *14,240 | *14,240  | *22,510   | 16,490    | *16,290 | 11,020   | 12,720  | 8,110    | *8,050  | 7,100         | (27.2) |
| -1.5 m          | kg | *7,100  | *7,100   | *11,080 | *11,080  | *10,330   | 7,410     | *7,580  | 4,930    | 5,750   | 3,660    | *4,320  | 3,510         | 7.75   |
| (-4.9 ft)       | lb | *15,650 | *15,650  | *24,430 | *24,430  | *22,770   | 16,340    | *16,710 | 10,870   | 12,680  | 8,070    | *9,520  | 7,740         | (25.4) |
| -3.0 m          | kg | *11,800 | *11,800  | *13,920 | *13,920  | *9,690    | 7,480     | *7,130  | 4,980    |         |          | *5,670  | 4,190         | 6.86   |
| (-9.8 ft)       | lb | *26,010 | *26,010  | *30,690 | *30,690  | *21,360   | 16,490    | *15,720 | 10,980   |         |          | *12,500 | 9,240         | (22.5) |
| -4.5 m          | kg |         |          | *11,110 | *11,110  | *7,820    | 7,730     |         |          |         |          | *6,090  | 5,970         | 5.42   |
| (-14.8 ft)      | lb |         |          | *24,490 | *24,490  | *17,240   | 17,040    |         |          |         |          | *13,430 | 13,160        | (17.8) |

5.68 m (18' 8") Mono boom, 3.90 m (12' 9") arm equipped with and 600 mm (24") triple grouser shoe.

|                  |    |         |          |         |          |         | Lift-poir | nt radius |           |         |          |        |           | ,       | At max. Reacl | ı      |
|------------------|----|---------|----------|---------|----------|---------|-----------|-----------|-----------|---------|----------|--------|-----------|---------|---------------|--------|
| Lift-poi         |    | 1.5 m   | (4.9 ft) | 3.0 m   | (9.8 ft) | 4.5 m ( | 14.8 ft)  | 6.0 m     | (19.7 ft) | 7.5 m ( | 24.6 ft) | 9.0 m  | (29.5 ft) | Сар     | acity         | Reach  |
| height<br>m (ft) |    |         |          |         |          |         |           |           |           |         |          |        |           | ŀ       |               | m (ft) |
| 7.5 m            | kg |         |          |         |          |         |           |           |           | *2,760  | *2,760   |        |           | *2,300  | *2,300        | 7.64   |
| (24.6 ft)        | lb |         |          |         |          |         |           |           |           | *6,080  | *6,080   |        |           | *5,070  | *5,070        | (25.1) |
| 6.0 m            | kg |         |          |         |          |         |           |           |           | *3,690  | *3,690   |        |           | *2,160  | *2,160        | 8.54   |
| (19.7 ft)        | lb |         |          |         |          |         |           |           |           | *8,140  | *8,140   |        |           | *4,760  | *4,760        | (28.0) |
| 4.5 m            | kg |         |          |         |          |         |           | *4,100    | *4,100    | *3,970  | *3,970   | *2,560 | *2,560    | *2,120  | *2,120        | 9.11   |
| (14.8 ft)        | lb |         |          |         |          |         |           | *9,040    | *9,040    | *8,750  | *8,750   | *5,640 | *5,640    | *4,670  | *4,670        | (29.9) |
| 3.0 m            | kg |         |          | *9,120  | *9,120   | *6,160  | *6,160    | *5,010    | *5,010    | *4,440  | 3,890    | *3,630 | 2,900     | *2,150  | *2,150        | 9.40   |
| (9.8 ft)         | lb |         |          | *20,110 | *20,110  | *13,580 | *13,580   | *11,050   | *11,050   | *9,790  | 8,580    | *8,000 | 6,390     | *4,740  | *4,740        | (30.8) |
| 1.5 m            | kg |         |          | *7,910  | *7,910   | *8,080  | 7,850     | *6,000    | 5,170     | *4,990  | 3,730    | *4,110 | 2,820     | *2,270  | *2,270        | 9.44   |
| (4.9 ft)         | lb |         |          | *17,440 | *17,440  | *17,810 | 17,310    | *13,230   | 11,400    | *11,000 | 8,220    | *9,060 | 6,220     | *5,000  | *5,000        | (31.0) |
| Ground           | kg |         |          | *7,390  | *7,390   | *9,450  | 7,410     | *6,820    | 4,920     | *5,470  | 3,590    | *3,760 | 2,750     | *2,480  | *2,480        | 9.23   |
| Line             | lb |         |          | *16,290 | *16,290  | *20,830 | 16,340    | *15,040   | 10,850    | *12,060 | 7,910    | *8,290 | 6,060     | *5,470  | *5,470        | (30.3) |
| -1.5 m           | kg | *5,820  | *5,820   | *9,770  | *9,770   | *10,070 | 7,210     | *7,300    | 4,780     | 5,590   | 3,510    |        |           | *2,840  | 2,840         | 8.77   |
| (-4.9 ft)        | lb | *12,830 | *12,830  | *21,540 | *21,540  | *22,200 | 15,900    | *16,090   | 10,540    | 12,320  | 7,740    |        | İ         | *6,260  | 6,260         | (28.8) |
| -3.0 m           | kg | *8,970  | *8,970   | *13,670 | *13,670  | *9,970  | 7,190     | *7,310    | 4,750     | 5,600   | 3,510    |        |           | *3,500  | 3,240         | 7.99   |
| (-9.8 ft)        | lb | *19,780 | *19,780  | *30,140 | *30,140  | *21,980 | 15,850    | *16,120   | 10,470    | 12,350  | 7,740    |        | İ         | *7,720  | 7,140         | (26.2) |
| -4.5 m           | kg | *13,000 | *13,000  | *13,200 | *13,200  | *9,020  | 7,330     | *6,540    | 4,860     |         |          |        |           | *4,940  | 4,130         | 6.80   |
| (-14.8 ft)       | lb | *28,660 | *28,660  | *29,100 | *29,100  | *19,890 | 16,160    | *14,420   | 10,710    |         |          |        |           | *10,890 | 9,110         | (22.3) |
| -6.0 m           | kg |         |          |         |          | *6,270  | *6,270    |           |           |         |          |        |           |         |               |        |
| (-19.7 ft)       | lb |         | İ        |         |          | *13,820 | *13,820   |           | İ         |         |          |        | İ         |         | İ             |        |

- 1. Lifting capacity is based on ISO 10567.
- 2. Lifting capacity of HX A Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- 3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
- 4. (\*) indicates load limited by hydraulic capacity.
- 5. Caution: please be aware of the local regulations and instructions for lifting operations.

# STANDARD/OPTIONAL EQUIPMENT

| STD |
|-----|
| •   |
| STD |
|     |
| •   |
| •   |
| •   |
| •   |
| •   |
|     |
|     |

| CABIN & INTERIOR   | STD |
|--|-----|
| ISO STANDARD CABIN   |     |
| Rise-up type windshield wiper                                | •   |
| Radio / USB player   | •   |
| Handsfree mobile phone system with USB                       | •   |
| 12V power outlet (24V DC to 12V DC converter)                | •   |
| Electric horn  | •   |
| All-weather steel cab with 360°visibility                    | •   |
| Safety glass - tempered glass                                | •   |
| Safety glass - laminated glass, front window & glass         |     |
| Sliding fold-in front window                                 | •   |
| Sliding side window (LH)                                     | •   |
| Lockable door  | •   |
| Hot & cool box   | •   |
| Storage compartment  | •   |
| Ashtray & cigar lighter                                      |     |
| 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                             | •   |
| Automatic powerboost function                                | •   |
| Low speed / High speed                                       | •   |
| Auto idle  | •   |
| Overload warning device                                      | •   |
| Engine Connected Diagnostics                                 | •   |
| Air filters monitoring                                       | •   |
| ECO gauges   | •   |
| Fuel level gauge   | •   |
| DEF level gauge  | •   |
| Hyd. oil temperature gauge                                   | •   |
| Fuel warmer  | •   |
| Clock  | •   |
| Cabin lights (Halogen or LED)                                |     |
| Cabin front window rain guard                                | •   |
| SEAT   | · · |
| Adjustable air suspension seat with heater                   |     |
| CABIN FOPS (ISO 10262) LEVEL 2                               |     |
| FOPS (Falling object protective structure) ISO 10262 Level 2 |     |
| CABIN ROPS   |     |

| SAFETY  | STD |
|---|-----|
| Battery master switch   | •   |
| Rearview camera   |     |
| AAVM (Advanced Around View Monitoring)                              |     |
| Four front working lights (2 boom mounted, 2 front frame mounted)   | •   |
| Travel alarm  |     |
| Rear work lamp (Halogen or LED)                                     |     |
| Beacon lamp (Halogen or LED)  |     |
| Automatic swing brake   | •   |
| Boom holding system   | •   |
| Arm holding system  | •   |
| Safety valve for boom and arm cylinder with overload warning device | •   |
| Safety valve for doze blade cylinder                                | •   |
| Swing lock system   |     |
| Three outside rearview mirror                                       | •   |
| Front guard - wire net  |     |

| OTHER   | STD |
|---|-----|
| BOOMS   |     |
| 5.68 m, 18' 8" Mono                                     | •   |
| 5.65 m, 18' 6" 2-Piece                                  |     |
| 8.2 m, 26' 11" Long reach                               |     |
| ARMS  |     |
| 2.0 m, 6' 7"  |     |
| 2.4 m, 7' 10"   |     |
| 2.92 m, 9' 7"   | •   |
| 3.9 m, 12' 10"  |     |
| 6.3 m, 20' 8" Long reach                                |     |
| Removable clean-out dust net for cooler                 | •   |
| Removable reservoir tank                                | •   |
| Fuel pre-filter with water separator                    | •   |
| Fuel warmer   |     |
| Self-diagnostics system                                 | •   |
| Hi-MATE (Remote management system)                      |     |
| Batteries (2 × 12 V × 100 AH)                           | •   |
| Fuel filler pump with automatic stop function (50L/min) | •   |
| Single-acting piping kit (breaker, etc.)                |     |
| Double-acting piping kit (clamshell, etc.)              |     |
| Rotating Piping Kit                                     |     |
| Quick coupler piping                                    |     |
| Quick coupler   |     |
| Engcon tiltrotator                                      |     |
| Boom floating control                                   |     |
| One pedal straight travel system                        |     |
| Accumulator for lowering work equipment                 | •   |
| Pattern change valve (2 patterns)                       |     |
| Fine swing control system                               |     |
| Tool kit  |     |
| Lower frame under cover (Additional)                    |     |
| Lower frame under cover (Normal)                        | •   |
| TRACK SHOES   |     |
| Triple grousers shoes (600 mm, 24")                     | •   |
| Triple grousers shoe (700 mm, 28")                      |     |
| Triple grousers shoe (800 mm, 32" )                     |     |
| Triple grousers shoe (900 mm, 36")                      |     |
| Double grousers shoe (700 mm, 28")                      |     |
| Track rail guard  | •   |
| Full track rail guard                                   |     |

<sup>\*</sup> Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to International standards.

# **NOTES**

<sup>\*</sup> The photos may include attachments and optional equipment that are not available in your area.

<sup>\*</sup> Materials and specifications are subject to change without advance notice.

<sup>\*</sup> All imperial measurements rounded off to the nearest pound or inch.





Specifications and design are subject to change without notice. Pictures of Hyundai Construction Equipment Europe products may show other than standard equipment.

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