

H4 SERIES

HMK 310 LC



HIDROMEK





New H4 Series

Innovation coming from experience

Being produced with developed hydraulic system design, Hidromek's new H4 Series excavators offer an outstanding performance by working faster, more productively and more efficiently. H4 Series excavators produce more work with less fuel; hence, they are more profitable for their users than ever.

H4
SERIES

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The information and images, and equipment presented in this brochure are either standard or optional depending on the configuration. HİDROMEK has the right to modify the specifications and the designs of the model indicated in this brochure without prior notice.



More work within less time

17 % More productive*

Shortening the work cycle time with bigger bucket capacity and speed, H4 Series carry the productivity to the top level with their new technology.

7 % More efficient*

With improvements to the attachment and hydraulic group, H4 Series excavators ensure more work within less time.

10 % Faster *

With faster hydraulic movements due to developed hydraulic system design, H4 Series excavators ensure more work within less time.

* The data are prepared in comparison with the previous serie in HP mode.



For product video



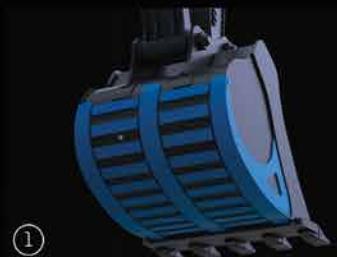




More durable

Produced to have reinforced heavy duty construction considering maximum performance, long life and smooth operation in severe field conditions, HiDROMEK excavators ensure more durability with the improvements made in the new H4 Series.





①

More durable anti-wearing plates
(Hardox 450 HB)



②

Optimized bucket form



③

Reinforced arm supporting parts



④

Reinforced casting tip



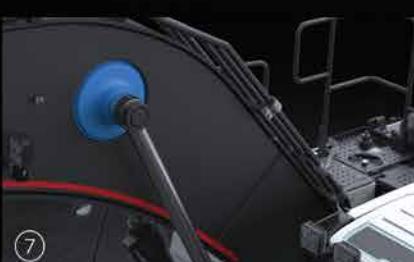
⑤

Heavy duty arm



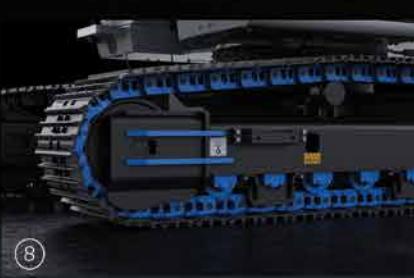
⑥

Reinforced boom structure



⑦

Reinforced boom cylinder cast bearing



⑧

Reinforced lowerframe and
undercarriage components

Reinforced heavy duty construction

With their reinforced heavy duty construction produced at HIDROMEK's modern production facilities and going through sensitive quality-control processes, H4 Series excavators have excellent durability.

Bronze-Graphite Bushings



⑤

Bronze-graphite bushings used in boom-arm and boom-frame connection points increase the lubrication period, and greatly prevent the wear of the pins because of graphite, having a very high grease absorption and retention capability, embedded in the inner structure of the bushings.

④

①



Safeworking environment

ROPS&FOPS cabin

Having the standards of ROPS (Roll Over Protective Structure) & FOPS (Falling Object Protective Structure), H4 Series excavators provide maximum safety and durability.

Wide vision capacity

Designed with giving special importance to occupational safety, H4 Series ensure excellent vision by minimizing the blind spot on the side and rear cameras. Along with the increase in the number of led headlights, the night vision is significantly improved on H4 Series excavators; in addition, there are also red handles and warning labels providing maximum safety for the operator.

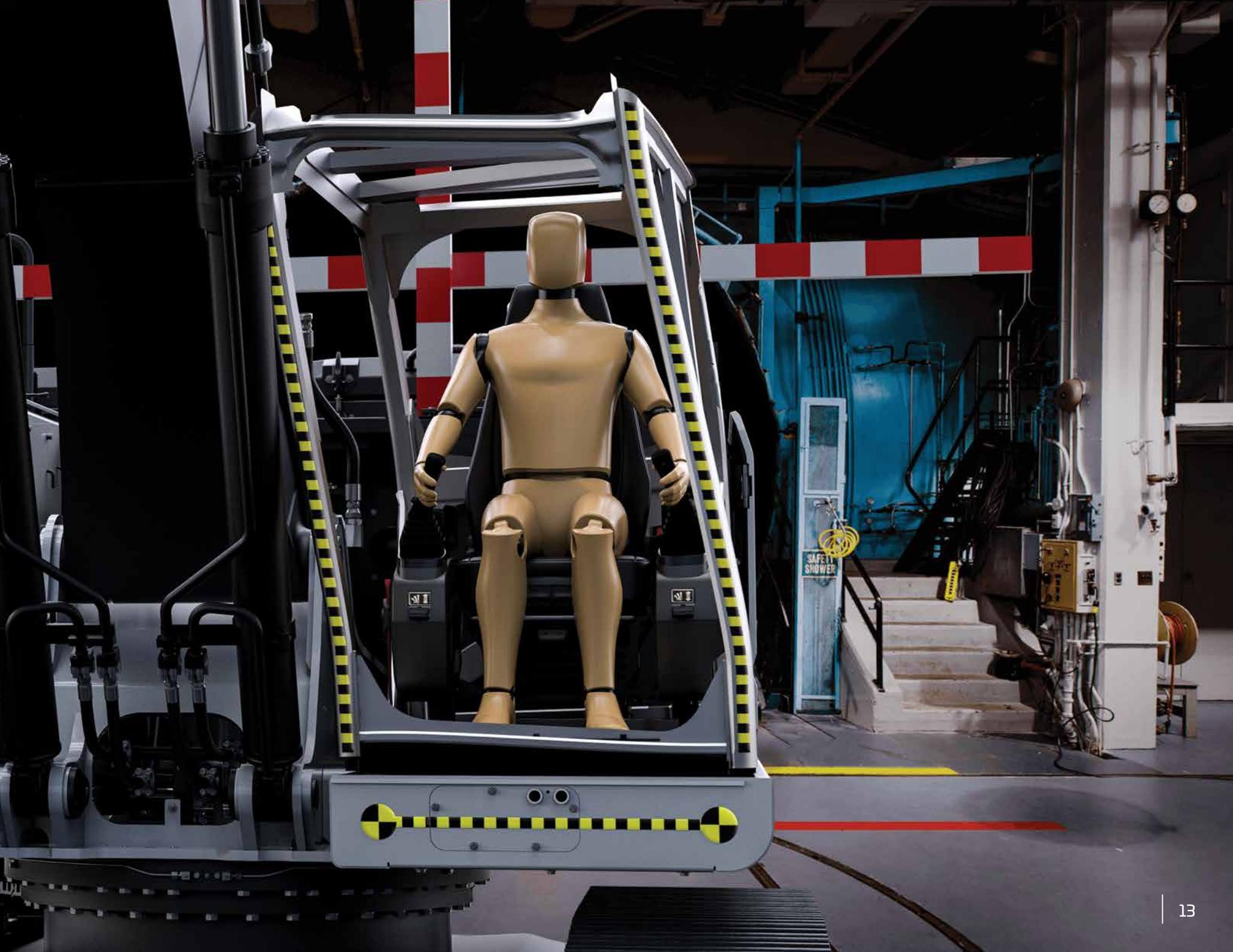
Audio warning systems

H4 Series excavators enable safer working environment with their automatic starting horn, swing warning system and travel warning system.

Flame holder system

Where sparks are dangerous, regeneration inhibit feature is activated from the cabin, so flame from the exhaust is prevented temporarily.





Shaped with technology

Electronic system of H4 Series excavators designed to protect the engine and hydraulic components to provide fuel saving and superior performance.

Automatic stop system

In the new series, automatic stop system through configurable idling and stopping times provides fuel saving by stopping the engine after the machine is on idle. Automatic stop system in H4 Series helps to decrease the operational costs to minimum, and contributes to saving the environment.

Safe fuel transfer pump

"Safe fuel transfer pump" added to H4 Series stops the pump automatically when the tank is full and this feature gets activated also when the pump does not transfer fuel for 30 seconds, and ensures that the pump stops automatically.

Power boost technology

In H4 Series, power boost technology gets activated automatically in the conditions when the machine needs extra power, and ensures that the machine has the proper performance for the work.

8" Touch control panel

8 inch touch control panel is positioned ergonomically at a point that the operator can easily reach it. Touch control panel having high quality hardware and a large screen easily enables to control the machine features and access to machine information.

The features of touch control panel:

- It offers multi-language option
- Music system is integrated into 8 "touch control panel.
- It allows the operator to adjust the flow required for the attachment without leaving the cab and save this information for 20 different attachments.
- Selection of double or single acting line can also be done over the user panel.
- During travel, rear and side view cameras with improved image quality and activated automatically can be controlled.
- Information on the average and instant fuel consumption can be obtained.
- Information on status such as atmospheric pressure, turbo boost pressure, fuel pressure and hydraulic pump pressure can be obtained.
- User can acquire working hour information such as work, attachment and travel.
- Maintenance registries can be obtained, and the user is warned when the maintenance time approaches.
- Failure codes and registries can be obtained.
- Audio warning systems can be controlled.

OPERA, the guide of the field

H4 Series excavators are equipped with Opera (HIDROMEK Operator Interface) for the operator to use the machine easily, and feel comfortable and relaxed as he is in an office environment.

Functions to be controlled by means of Opera

- Engine RPM control
- Access to control panel menu
- Functions of lights, windshield wipers and rear view camera
- Music system control
- Auto stop control of the engine to ensure maximum fuel economy during low idle
- On H4 Series machines, the preheating system available to protect the engine and hydraulic systems can be controlled via Opera.



The aesthetic design of power

The seat ergonomic, air suspended and having 35 degrees adjustable backrest angle is provided in H4 Series, and it enables the operator to work comfortably and without getting tired for long working hours.

H4 Series which has many features* such as proportional control pedals and joysticks, throttle control dial, operator touch screen, interior light, cup holder and heating-cooling box give more importance to user comfort.

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* Other features for user comfort on H4 Series machines can be found on page 21.

Office comfort in construction equipment

Automatic air conditioning system

Air vents and air conditioning system which can automatically adjust itself according to the ambient heat located in the redesigned cabin provide the best cooling performance in its class by 30%.

Wide angle view

On the new series machines, the new two-piece windshield wiper system designed for creating more comfortable work environment provides a wide angle view which increases the work efficiency of the user.

Led headlights for night vision

Led headlights on new H4 Series machines improve the night vision, and enable the operator to work more safely and comfortably.

Dampers

By using 6 silicone dampers on H4 Series excavators, noise, shock and vibration are absorbed and prevented from being transmitted to the cabin under any working condition.



You have the control with HİDROMEK

Telematic system HİDROMEK Smartlink allows the user to easily access to machine location and technical information via computer and mobile phone.

Follow the work time and location of your machine through HİDROMEK Smartlink!

Through GPS tracking system, it is possible to track the location and the work time intervals of the machine.

Analyze your fuel consumption through HİDROMEK Smartlink!

It is possible to analyze fuel consumption according to the working conditions of the machine and daily fuel parameters.

Check the works for which your machine has been used through HİDROMEK Smartlink!

Through working mode information, it is possible to see the daily and total working hours of the machine for excavation and leveling and with crusher or with other optional attachments besides the power mode information and the speed ranges.

Follow your machine's maintenance through HİDROMEK Smartlink!

Under the Alerts list, the machine's upcoming maintenance can be checked while the information of the nearest authorized service can be obtained, and it can be contacted.

Contact the nearest authorized service or regional service through HİDROMEK Smartlink!

With the application, it is possible to obtain the information on Regional and Authorized Services of HİDROMEK After Sales Services as well as the directions to them.

Have performance reports for the selected periods of time for your machines through HİDROMEK Smartlink!

For any selected periods of time, it is possible to have a report on daily fuel consumption, average fuel consumption, power and working modes, daily work time intervals and locations.



To download Smartlink application





Easy maintenance and fast service for H4 Series through safe and easy access

H4 Series excavators, designed considering fast access to hydraulic and engine equipment, provide easy maintenance and service. Most of the maintenance can be easily carried out without getting on the machine, which shortens the service time and increases machine work time.

Automatic greasing system ensures that all parts of the machine can be lubricated from one single center.



ENGINE

Brand & Model ISUZU-6HK1X

Type Water cooled, 4 cycles, 6 cylinders, inline, diesel engine with direct injection, turbocharger and intercooler

Power Gross 264 HP (197 kW) @1900 rpm / SAE J1995

Maximum Gross Torque 1050 Nm (775 lbft) @1500rpm

Displacement 7790 cc (475 cubic inches)

Bore x Stroke 115 x 125 mm (4.5 x 4.9 inches)

Emission Class TIER IV (EPA)

HYDRAULIC SYSTEM

MAIN PUMP

Type 2 axial piston pumps with variable displacement and swashplate

Max. Flow Rate 2 x 266 L/min (2x71 gal/min)

Pilot Pump Gear type, 30,5 L/min (8 gal/min)

WORKING PRESSURE

Attachment 350 kgf/cm² (4978 psi)

Power Boost 380 kgf/cm² (5405 psi)

Travel 350 kgf/cm² (4978 psi)

Swing 285 kgf/cm² (4054 psi)

Pilot 40 kgf/cm² (570 psi)

HYDRAULIC CYLINDERS

Boom 2 x ø 135 x ø 95 x 1455 mm (2 x 5.3" x 3.75" x 57.3")

Arm 1 x ø 150 x ø 105 x 1760 mm (5.9" x 4.13" x 69.3")

Bucket 1 x ø 135 x ø 95 x 1195 mm (5.3" x 3.75" x 47")

SWING SYSTEM

Swing motor Fixed swashplate piston motor integrated with super shock absorber valve

Reduction 2 stage, planetary gear type

Swing Brake Hydraulic disc type, pilot operated and automatically released

Swing Speed 104 rpm

LOWER FRAME

Construction "X" type lower frame with pentagon shaped box type side frames

Shoe Triple grouser

No. of Shoes 2 x 51 pieces

No. of Lower Rollers 2 x 9 pieces

No. of Upper Rollers 2 x 2 pieces

Full Trackguard 2 x 3 pieces

Track Tensioner Hydraulic type with spring cushioning

ELECTRICAL SYSTEM

Voltage 24 V

Battery 2 x 12 V / 150 Ah

Alternator 24 V / 50 A

Starter Motor 24 V / 5 kW

TRAVEL AND BRAKES

Travel Fully hydrostatic

Travel Motor Axial piston motor with 2 speed stages and swashplate

Reduction 2 stage, planetary gear type

Travel Speed High Speed 5,1 km/h (3.2 mph)

Low Speed 3,0 km/h (1.9 mph)

Max. Traction 25460 kgf (56,114 lbf)

Gradeability 35° (%70)

Parking Brake Hydraulic disc type, pilot operated and automatically released

Ground Pressure (With 600 mm - 24" Shoe) 0,61 kgf/cm² (8.7 psi)

FILLING CAPACITIES

Fuel Tank 475 L (125.4 GAL) Engine Cooling System 55 L (14.5 GAL)

Hydraulic Tank 210 L (55.5 GAL) Engine Oil 38 L (10 GAL)

Hydraulic System 395 L (104 GAL) Urea 70 L (18.5 GAL)

OPERATING WEIGHT (kg - lbs)

| | Mono Boom | LR |
|-------------|---------------------|---------------------|
| HMK 310 LC | 32.100 (70,750 lbs) | 34.500 (76,040 lbs) |
| HMK 310 NLC | 32.000 (70,530 lbs) | - |

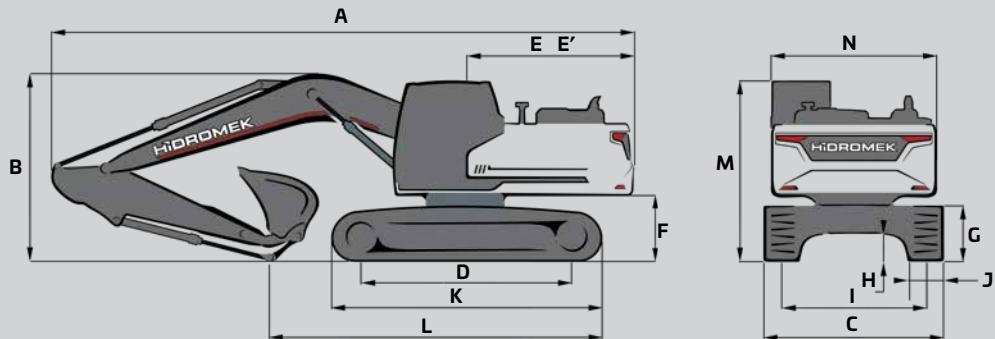
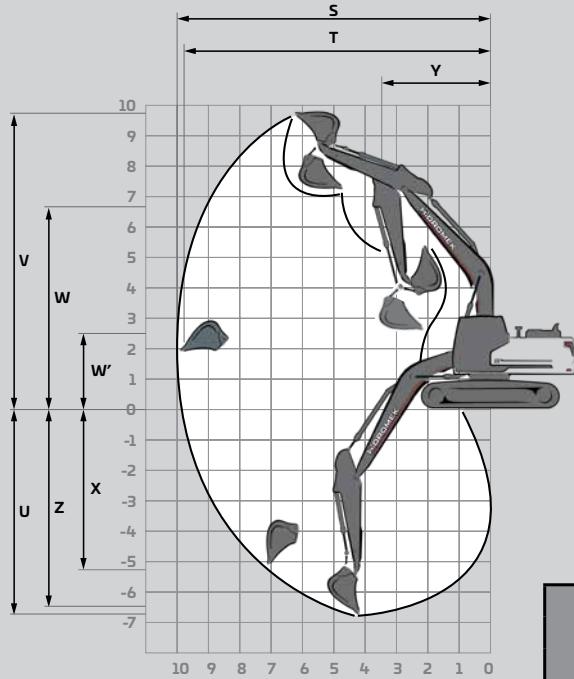
EQUIPMENT

HMK 310 LC

| Engine | Standard | Optional |
|--|----------|----------|
| Water cooled diesel engine with turbocharger and intercooler | ● | |
| Engine pre-heat function | ● | |
| Automatic idling | ● | |
| One touch auto-idle system | ● | |
| Automatic stop function | ● | |
| Two-stage air filter | ● | |
| Air filter clogged indicator | ● | |
| Low engine pressure warning system | ● | |
| Overheat warning system | ● | |
| Adjustable power modes | ● | |
| High altitude working function | ● | |
| Electronical engine control | ● | |
| Hydraulic System | | |
| Boom and arm regeneration valve | ● | |
| Automatic power boost | ● | |
| Smooth boom feature | | 0 |
| Main hydraulic filter | ● | |
| Backup ports (valve) | ● | |
| Cylinder cushioning and contamination seals | ● | |
| Single-acting hydraulic line, breaker | | 0 |
| Double- acting hydraulic line, crusher | | 0 |
| Additional line | | 0 |
| Quick coupling line | | 0 |
| Attachment settings through instrument panel | | 0 |
| OPERATOR'S CAB | | |
| Pressurized and sound isolated cabin | ● | |
| Air-conditioning | ● | |
| Air-suspension seat | ● | |
| Heated seat | | 0 |
| Operator touch screen | ● | |
| Opera control system | ● | |
| Throttle control dial | ● | |
| Automatic travel speed (low / high) | ● | |
| 4 different working modes | ● | |
| Sliding windscreen and removable lower windscreen | ● | |
| Openable left door window | ● | |
| Upper and lower windshield wiper | ● | |
| Joysticks and pedals | ● | |
| Travel pedals and control levers | ● | |
| Proportional controlled pedals and joysticks | | 0 |
| Electric horn | ● | |
| Interior light | ● | |
| Cup-holder | ● | |
| Convenient storage | ● | |
| Convenient storage (for equipment) | ● | |
| Heating & Cooling box | ● | |
| Easy-cleaned floor | ● | |
| 12V power socket | ● | |
| Computer connection port | ● | |
| Radio / mp3 / usb / Aux | | |
| Detachable Movement Levers | | 0 |

| Lower Frame | Standard | Optional |
|---|----------|----------|
| Narrow Lower Chassis (NLC) | | 0 |
| Track width options 700/800 mm (28"-32") | | 0 |
| Lubricated and sealed track components | ● | |
| Dozer blade | | 0 |
| Mooring points for shipment | ● | |
| Safety | | |
| ROPS (Roll Over Protective Structure) | ● | |
| FOPS (Falling Object Protective Structure) | ● | |
| Rear view camera | ● | |
| Side view camera | | 0 |
| Right and left rear view mirrors | ● | |
| Working lamps | ● | |
| LED working lamps | | 0 |
| Rotating beacon | | 0 |
| Swing and travel alarm | | 0 |
| Emergency engine stop switch | ● | |
| Pilot operated and automatically released swing brake | ● | |
| Boom and arm cylinder safety valve | | 0 |
| Overload warning system | | 0 |
| Battery cut-off switch | ● | |
| Handrails by the steps and on the upper frame | ● | |
| Perforated metal non-slip plates | ● | |
| Safety locking device | ● | |
| Safety glass | ● | |
| Emergency hammer | ● | |
| Lockable fuel tank cover | ● | |
| Upper and lower guards for windshield | | 0 |
| Operator's cab ceiling guard | | 0 |
| Fuel Safety System | | 0 |
| Miscellaneous | | |
| Telematic system (HIDROMEK Smartlink) | | 0 |
| GEO System | | 0 |
| Fuel transfer pump with automatic stop | ● | |
| Water sensor on fuel pre-filter | ● | |
| Bio oil B7 | ● | |
| Alternator - Battery | ● | |
| Battery Charge Indicator | ● | |
| Automatic lubrication system | | 0 |
| Working lamp guards | | 0 |
| Hydraulic breaker return line filter | | 0 |
| Double pump combination function | | 0 |
| Choosing single or double acting attachment on the instrument panel | | 0 |
| Choosing the control method for the optional attachment | | 0 |
| Boom cylinder piping guard | | 0 |
| Bucket cylinder rod guard | | 0 |
| Warning horn | ● | |
| Counterweights | | 0 |

● STANDARD O OPTIONAL



DIMENSIONS

| | LC | | NLC | | |
|---|------------------|------------------|------------------|------------------|------------------|
| | Mono Boom | | LR | Mono Boom | |
| BOOM (m / feet/inches) | 6,28 (20.60') | | 10,30 (33.79') | 6,28 (20.60') | |
| ARM (m / feet/inches) | 2,10 (6.89') | *2,50 (8.20') | 3,07 (10.07') | 7,80 (25.59') | 2,50 (8.20') |
| A) Overall Length | 10.930 (430.31") | 10.880 (428.35") | 10.790 (424.80") | 14.800 (582.68") | 10.880 (428.35") |
| B) Overall height (to top of boom) | 3.580 (140.94") | 3.490 (137.40") | 3.320 (130.71") | 3.270 (128.74") | 3.490 (137.40") |
| C) Overall Width | 3.200 (125.98") | | 3.400 (133.86") | 2.990 (117.72") | |
| D) Distance between tumblers | 4.030 (158.66") | | | | |
| E) Distance from center of swing to rear end | 3.235 (127.36") | | | | |
| E') Tail swing radius | 3.255 (128.15") | | | | |
| F) Counterweight Clearance | 1.205 (47.44") | | | | |
| G) Track Height | 1.070 (42.13") | | | | |
| H) Ground Clearance | 500 (19.69") | | | | |
| I) Track Gauge | 2.600 (102.36") | | | 2.390 (94.09") | |
| J) Shoe Width | 600 (24") | | 800 (32") | 600 (24") | |
| K) Track Length | 4.950 (194.88") | | | | |
| L) Length on ground (transport) | 7.540 (2968.50") | 6.780 (2669.29") | 5.860 (2307.08") | 4.820 (1897.63") | 6.780 (2669.29") |
| M) Overall height of cab | 3.140 (123.62") | | | | |
| N) Overall width of upperstructure | 2.990 (117.72") | | | | |
| S) Maximum Digging Reach | 10.020 (394.49") | 10.370 (408.27") | 10.910 (429.53") | 18.360 (722.83") | 10.370 (408.27") |
| T) Maximum Digging Reach on Ground Level | 9.790 (385.43") | 10.150 (399.61") | 10.700 (421.26") | 18.240 (718.11") | 10.150 (399.61") |
| U) Maximum Digging Depth | 6.360 (250.39") | 6.760 (266.14") | 7.330 (288.58") | 14.250 (561.02") | 6.760 (266.14") |
| V) Maximum Digging Height | 9.860 (388.19") | 9.990 (393.31") | 10.290 (405.12") | 14.920 (587.40") | 9.990 (393.31") |
| W) Maximum Dumping Height | 6.870 (270.47") | 7.020 (276.38") | 7.300 (287.40") | 12.550 (494.09") | 7.020 (276.38") |
| W') Minimum Dumping Height | 3.790 (149.21") | 3.310 (130.31") | 2.760 (108.66") | 2.500 (98.43") | 3.310 (130.31") |
| X) Maximum Vertical Digging Depth | 4.890 (192.52") | 5.140 (202.36") | 5.780 (227.56") | 13.700 (539.37") | 5.140 (202.36") |
| Y) Minimum Swing Radius | 4.440 (174.80") | 4.360 (171.65") | 4.280 (168.50") | 5.930 (233.46") | 4.360 (171.65") |
| Z) Maximum Digging Depth (2440 mm (8') level) | 6.140 (241.73") | 6.560 (258.27") | 7.160 (281.89") | 14.140 (556.69") | 6.560 (258.27") |

* Standard

FORCES (kgf - lbf)

| | | LC | | | | NLC | |
|------------------|------------------------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|
| | | Mono Boom | | LR | | Mono Boom | |
| BOOM (M - feet') | | 6,28 (20.60') | | 10,30 (33.79') | | 6,28 (20.60') | |
| ARM (M - feet') | 2,10 (6.89') | 2,50* (8.20') | 3,07 (10.07') | 7,80 (25.59') | 2,50 (8.20') | 3,07 (10.07') | |
| SAE | Bucket Digging Force | 17,200 (37,919 lbf) | | | | 17,200 (37,919 lbf) | |
| | Bucket Digging Force (Power Boost) | 18,700 (41,226 lbf) | | | | 18,700 (41,226 lbf) | |
| | Arm Crowd Force | 18,700 (41,226 lbf) | 15,700 (34,612 lbf) | 13,000 (28,659 lbf) | 4,700 (10,361 lbf) | 15,700 (34,612 lbf) | 13,000 (28,659 lbf) |
| | Arm Crowd Force (Power Boost) | 20,200 (44,532 lbf) | 17,000 (37,478 lbf) | 14,100 (31,084 lbf) | - | 17,000 (37,478 lbf) | 14,100 (31,084 lbf) |
| ISO | Bucket Digging Force | 19,600 (43,210 lbf) | | | | 19,600 (43,210 lbf) | |
| | Bucket Digging Force (Power Boost) | 21,300 (46,957 lbf) | | | | 21,200 (46,737 lbf) | |
| | Arm Crowd Force | 19,600 (43,210 lbf) | 16,400 (36,155 lbf) | 13,600 (29,982 lbf) | 6,900 (15,211 lbf) | 16,400 (36,155 lbf) | 13,600 (29,982 lbf) |
| | Arm Crowd Force (Power Boost) | 21,300 (46,957 lbf) | 17,800 (39,241 lbf) | 14,700 (32,407 lbf) | - | 17,800 (39,241 lbf) | 14,700 (32,407 lbf) |

* Standard

A- Material density less than 2,000 kg/m³ (3370 lbs/yd³)

B- Material density less than 1,800 kg/m³ (3034 lbs/yd³)

C- Material density less than 1,500 kg/m³ (2530 lbs/yd³)

D- Material density less than 1,200 kg/m³ (2022 lbs/yd³)

STANDARD BUCKET



OPTIONAL BUCKET SELECTION SCHEME

General Purpose Bucket



Heavy Duty Type Bucket



HEAVY DUTY

| | | |
|-----|-----------------|--|
| | Width | 1,490 mm (58.66") |
| | Capacity (SAE) | *1,60 m ³ (2.09 yd ³) |
| | Weight | 1,370 kg (3019.48 lbs) |
| | Number of Teeth | 5 |
| ARM | 2,10 m (6.89') | A |
| | *2,50 m (8.20') | B |
| | 3,07 m (10.07') | C |
| | | |

| | 650 mm (25.59") | 750 mm (29.53") | 1,300 mm (51.18") | 1,500 mm (59.06") | 1,700 mm (66.93") | 750 mm (29.53") | 1,095 mm (43.11") | 1,270 mm (50.00") | 1,410 mm (55.51") | 1,550 mm (61.02") | 1,620 mm (63.78") |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|
| Capacity (SAE) | 0,55 m ³ (0.72 yd ³) | 0,60 m ³ (0.78 yd ³) | 1,25 m ³ (1.63 yd ³) | 1,50 m ³ (1.96 yd ³) | 1,70 m ³ (2.22 yd ³) | 0,60 m ³ (0.78 yd ³) | 1,10 m ³ (1.44 yd ³) | 1,30 m ³ (1.70 yd ³) | 1,50 m ³ (1.96 yd ³) | 1,70 m ³ (2.22 yd ³) | 1,80 m ³ (2.35 yd ³) |
| Weight | 730 kg (1608.92 lbs) | 740 kg (1630.96 lbs) | 1,060 kg (2336.24 lbs) | 1,160 kg (2556.64 lbs) | 1,320 kg (2909.28 lbs) | 860 kg (1895.44 lbs) | 1,120 kg (2468.48 lbs) | 1,220 kg (2688.88 lbs) | 1,340 kg (2953.36 lbs) | 1,400 kg (3085.60 lbs) | 1,450 kg (3195.80 lbs) |
| Number of Teeth | 3 | 3 | 5 | 5 | 5 | 3 | 4 | 4 | 5 | 5 | 5 |
| 2,10 m (6.89') | A | A | A | A | B | A | A | A | A | B | C |
| *2,50 m (8.20') | B | A | B | B | C | A | A | A | B | C | C |
| 3,07 m (10.07') | C | A | C | C | C | A | A | A | C | C | D |

QUICK COUPLER



ROCK TYPE BUCKET



POLYP



RIPPER



CLEANING BUCKET



ATTACHMENTS

| LIFTING CAPACITY - kg (lbs) | | | | | | | | | | | HMK 310 LC | | | |
|-----------------------------|-----------------------|------|--------------------|--------------------|---------------------|--------------------|---------------------------|-------------------|------------------------------------|------|--------------|--------------|--|--|
| | Boom: 6,28 m (20.60') | | Arm: 2,5 m (8.20') | | Without bucket | | STD, 600 mm Crawler (24") | | CW: 5200 kg (11,460 lbs) | | | Front : Side | | |
| A, m (feet) | 1,5 (4.92') | | 3,0 (9.84') | | 4,5 (14.76') | | 6,0 (19.68') | | 7,5 (24.61') | | 9,0 (29.53') | | Maximum Reach | |
| B, m (feet) | Front | Side | Front | Side | Front | Side | Front | Side | Front | Side | Front | Side | R, m (feet) | |
| 7,5 (24.61') | | | | | | | *7000 (15428 lbs) | *7000 (15428 lbs) | | | | | *7250 (15979 lbs) 7000 (15428 lbs) 6,80 (22.31') | |
| 6,0 (19.68') | | | | | | | *7400 (16309 lbs) | *7400 (16309 lbs) | *7100 (15648 lbs) 5900 (13003 lbs) | | | | *7200 (15868 lbs) 5550 (12232 lbs) 7,79 (25.56') | |
| 4,5 (14.76') | | | | | *10650 (23,472 lbs) | *10650 (23472 lbs) | *8450 (18623 lbs) | 8100 (17852 lbs) | *7450 (16419 lbs) 5750 (12673 lbs) | | | | *7300 (16089 lbs) 4800 (10579 lbs) 8,39 (27.53') | |
| 3,0 (9.84') | | | | | | | *9750 (21489 lbs) | 7600 (16750 lbs) | *8100 (17852 lbs) 5550 (12232 lbs) | | | | 7050 (15538 lbs) 4450 (9807 lbs) 8,69 (28.51') | |
| 1,5 (4.92') | | | | | | | *10900 (24023 lbs) | 7250 (15979 lbs) | 8600 (18954 lbs) 5300 (11681 lbs) | | | | 6900 (15207 lbs) 4300 (9477 lbs) 8,72 (28.61') | |
| 0 (Ground) | | | | | *15900 (35043 lbs) | 10550 (23252 lbs) | *11550 (25456 lbs) | 7000 (15428 lbs) | 8450 (18623 lbs) 5200 (11460 lbs) | | | | 7100 (15648 lbs) 4400 (9697 lbs) 8,48 (27.82') | |
| -1,5 (-4.92') | | | *12800 (28211 lbs) | *12800 (28211 lbs) | *15450 (34051 lbs) | 10600 (23362 lbs) | *11550 (25456 lbs) | 6950 (15317 lbs) | 8450 (18623 lbs) 5150 (11350 lbs) | | | | 7800 (17191 lbs) 4800 (10579 lbs) 7,95 (26.08') | |
| -3,0 (-9.84') | | | *19200 (42316 lbs) | *19200 (42316 lbs) | *14200 (31296 lbs) | 10800 (23803 lbs) | *10750 (23693 lbs) | 7100 (15648 lbs) | | | | | *8700 (19174 lbs) 5750 (12673 lbs) 7,07 (23.20') | |
| -4,5 (-14.76') | | | *15300 (33721 lbs) | *15300 (33721 lbs) | *11450 (25235 lbs) | 11200 (24684 lbs) | | | | | | | *8750 (19285 lbs) 8100 (17852 lbs) 5,64 (18.50') | |

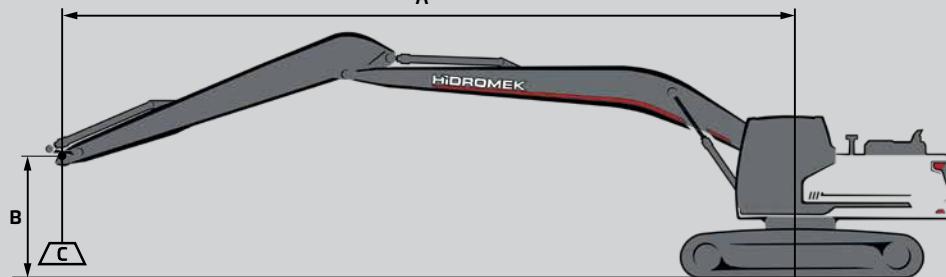
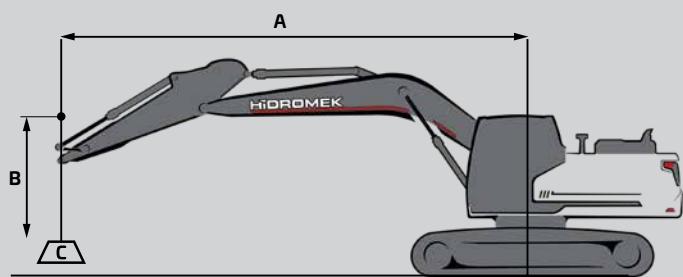
| LIFTING CAPACITY - kg (lbs) | | | | | | | | | | | HMK 310 LC | | | |
|-----------------------------|-----------------------|--------------------|----------------------|--------------------|--------------------|-------------------|---------------------------|-------------------|--------------------------|------------------|-------------------|--------------------|--|--|
| | Boom: 6,28 m (20.60') | | Arm: 3,07 m (10.07') | | Without bucket | | STD, 600 mm Crawler (24") | | CW: 5200 kg (11,460 lbs) | | | Front : Side | | |
| A, m (feet) | 1,5 (4.92') | | 3,0 (9.84') | | 4,5 (14.76') | | 6,0 (19.68') | | 7,5 (24.61') | | 9,0 (29.53') | | Maximum Reach | |
| B, m (feet) | Front | Side | Front | Side | Front | Side | Front | Side | Front | Side | Front | Side | R, m (feet) | |
| 7,5 (24.61') | | | | | | | | | | | | | *4750 (10469 lbs) 7,48 (24.54') | |
| 6,0 (19.68') | | | | | | | | | | | | | *4500 (9918 lbs) 8,39 (27.53') | |
| 4,5 (14.76') | | | | | *9450 (20827 lbs) | *9450 (20827 lbs) | *7750 (17081 lbs) | *7750 (17081 lbs) | *6950 (15317 lbs) | 5850 (12893 lbs) | | | *4500 (9918 lbs) 4350 (9587 lbs) 8,95 (29.36') | |
| 3,0 (9.84') | | | | | *12400 (27329 lbs) | 11750 (25897 lbs) | *9150 (20166 lbs) | 7750 (17081 lbs) | *7650 (16860 lbs) | 5600 (12342 lbs) | 6700 (14766 lbs) | 4200 (9256,80 lbs) | *4600 (10138 lbs) 4050 (8926 lbs) 9,23 (30.28') | |
| 1,5 (4.92') | | | | | *14750 (32509 lbs) | 10900 (24023 lbs) | *10450 (23031 lbs) | 7300 (16089 lbs) | *8400 (18513 lbs) | 5350 (11791 lbs) | 6550 (14436 lbs) | 4100 (9036,40 lbs) | *4900 (10799 lbs) 3900 (8595 lbs) 9,26 (30.38') | |
| 0 (Ground) | | | | | *15700 (34602 lbs) | 10550 (23252 lbs) | *11300 (24905 lbs) | 7000 (15428 lbs) | 8450 (18623 lbs) | 5150 (11350 lbs) | *5950 (13113 lbs) | 4000 (8816,00 lbs) | *5400 (11901 lbs) 4000 (8816 lbs) 9,04 (29.66') | |
| -1,5 (-4.92') | *9000 (19836 lbs) | *9000 (19836 lbs) | *12750 (28101 lbs) | *12750 (28101 lbs) | *15700 (34602 lbs) | 10500 (23142 lbs) | *11550 (25456 lbs) | 6900 (15207 lbs) | 8350 (18403 lbs) | 5100 (11240 lbs) | | | *6250 (13775 lbs) 4300 (9477 lbs) 8,54 (28.02') | |
| -3,0 (-9.84') | *14950 (32949 lbs) | *14950 (32949 lbs) | *20200 (44520 lbs) | *20200 (44520 lbs) | *14850 (32729 lbs) | 10600 (23362 lbs) | *11100 (24464 lbs) | 6950 (15317 lbs) | 8450 (18623 lbs) | 5150 (11350 lbs) | | | *7850 (17301 lbs) 5000 (11020 lbs) 7,72 (25.33') | |
| -4,5 (-14.76') | | | *17600 (38790 lbs) | *17600 (38790 lbs) | *12750 (28101 lbs) | 10950 (24133 lbs) | *9400 (20717 lbs) | 7200 (15868 lbs) | | | | | *8400 (18513 lbs) 6550 (14436 lbs) 6,45 (2116') | |

LIFTING CAPACITY - kg (lbs)
HMK 310 NLC

| | Boom: 6,28 m (20.60') | | Arm: 2,5 m (8.20') | | Without bucket | | STD, 600 mm Crawler (24") | | CW: 6000 kg (13,224 lbs) | | Front | | Side | | |
|----------------|-----------------------|------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------------|----------------------|--------------------------|---------------------|----------------------|---------------------|------------------|------|-------------|
| A, m (feet) | 1,5 (4.92') | | 3,0 (9.84') | | 4,5 (14.76') | | 6,0 (19.68') | | 7,5 (24.61') | | Maximum Reach | | | | |
| B, m (feet) | Front | Side | Front | Side | Front | Side | Front | Side | Front | Side | Front | Side | Front | Side | R, m (feet) |
| 7,5 (24.61') | | | | | | | *7050 (15538 lbs) | *7050 (15538 lbs) | | | *7250 (15979 lbs) | 6800 (14987 lbs) | 6,80 (22.31') | | |
| 6,0 (19.68') | | | | | | | *7400 (16309 lbs) | *7400 (16309 lbs) | *7150 (15758 lbs) | 5750 (12673 lbs) | *7200 (15868 lbs) | 5350 (11791 lbs) | 7,79 (25.56') | | |
| 4,5 (14.76') | | | | | *10700 (23582 lbs) | *10700 (23582 lbs) | *8450 (18623 lbs) | 7800 (17191 lbs) | *7500 (16530 lbs) | 5600 (12342 lbs) | *7300 (16089 lbs) | 4650 (10248 lbs) | 8,39 (27.53') | | |
| 3,0 (9.84') | | | | | | | *9800 (21599 lbs) | 7350 (16199 lbs) | *8150 (17962 lbs) | 5350 (11791 lbs) | 7350 (16199 lbs) | 4300 (9477 lbs) | 8,69 (28.51') | | |
| 1,5 (4.92') | | | | | | | *10950 (24133 lbs) | 7000 (15428 lbs) | 8750 (19285 lbs) | 5150 (11350 lbs) | 7250 (15979 lbs) | 4200 (9256 lbs) | 8,72 (28.61') | | |
| 0 (Ground) | | | | | *15950 (35153 lbs) | 10100 (22260 lbs) | 11600 (25566 lbs) | 6750 (14877 lbs) | 8850 (19505 lbs) | 5050 (11130 lbs) | 7450 (16419 lbs) | 4300 (9477 lbs) | 8,48 (2782') | | |
| -1,5 (-4.92') | | | *12850 (28321 lbs) | *12850 (28321 lbs) | *15500 (34162 lbs) | 10100 (22260 lbs) | 11600 (25566 lbs) | 6700 (14766 lbs) | 8800 (19395 lbs) | 5000 (11020 lbs) | 8150 (17962 lbs) | 4700 (10358 lbs) | 7,95 (26.08') | | |
| -3,0 (-9.84') | | | *19250 (42427 lbs) | 19250 (42427 lbs) | *14250 (31407 lbs) | 10300 (22701 lbs) | *10800 (23803 lbs) | 6850 (15097 lbs) | | | *8750 (19285 lbs) | 5550 (12232 lbs) | 7,07 (23.20') | | |
| -4,5 (-14.76') | | | *15400 (33941 lbs) | *15400 (33941 lbs) | *11500 (25346 lbs) | 10700 (23582 lbs) | | | | | *8800 (19395 lbs) | 7800 (17191 lbs) | 5,64 (18.50') | | |

LIFTING CAPACITY - kg (lbs)
HMK 310 LC LR

| | Boom: 10,3 m (33.79') | | Arm: 7,8 m (25.59') | | Without bucket | | STD, 800 mm Crawler (32") | | CW: 7100 kg (15,648 lbs) | | Front | | Side | | | |
|-----------------|-----------------------|----------------------|----------------------|----------------------|---------------------|----------------------|---------------------------|---------------------|--------------------------|--------------------|---------------------|---------------------|---------------------|--------------------|-------------------|--|
| A, m (feet) | 3,0 (9.84') | | 6,0 (19.68') | | 9,0 (29.53') | | 12,0 (39.37') | | 15,0 (49.21') | | Maximum Reach | | | | | |
| B, m (feet) | Front | Side | Front | Side | Front | Side | Front | Side | Front | Side | Front | Side | Front | Side | R, m (feet) | |
| 12,0 (39.37') | | | | | | | | | | | *1750 (3857 lbs) | *1750 (3857 lbs) | 13,84 (45.41') | | | |
| 9,0 (29.53') | | | | | | | | | | | *2250 (4959 lbs) | *2250 (4959 lbs) | 1650 (3636 lbs) | 1650 (3636 lbs) | 15,58 (51.11') | |
| 6,0 (19.68') | | | | | | | | | | | *2650 (6281 lbs) | 2350 (5179 lbs) | 1700 (3746 lbs) | 1700 (3746 lbs) | 16,60 (54.46') | |
| 3,0 (9.84') | *4350 (9587 lbs) | *4350 (9587 lbs) | *6350 (13995 lbs) | *6350 (13995 lbs) | *4250 (9367 lbs) | *4250 (9367 lbs) | *3350 (7383 lbs) | 3200 (7052 lbs) | *2900 (6391 lbs) | 2150 (4738 lbs) | *1850 (4077 lbs) | 1650 (3636 lbs) | 17,04 (55.90') | | | |
| 0 (Ground) | *2850 (6281 lbs) | *2850 (6281 lbs) | *8600 (18954 lbs) | *8600 (15979 lbs) | 7250 (11571 lbs) | *5250 (9477 lbs) | *3900 (8595 lbs) | 2850 (6281 lbs) | *3150 (6942 lbs) | 1950 (4297 lbs) | *2050 (4518 lbs) | 1600 (3526 lbs) | 16,93 (55.54') | | | |
| -3,0 (-9.84') | *4750 (10469 lbs) | *4750 (10469 lbs) | *9550 (21048 lbs) | *9550 (21048 lbs) | 6550 (14436 lbs) | *5950 (13113 lbs) | 3850 (8485 lbs) | *4300 (9477 lbs) | 2600 (5730 lbs) | 3200 (7052 lbs) | 1850 (4077 lbs) | *2450 (5399 lbs) | 1600 (3526 lbs) | 16,28 (53.41') | | |
| -6,0 (-19.68') | *7000 (15428 lbs) | *7000 (15428 lbs) | *9500 (20938 lbs) | *9500 (20938 lbs) | 6450 (14215 lbs) | *6150 (13554 lbs) | 3700 (8154 lbs) | 4250 (9367 lbs) | 2500 (5510 lbs) | | | 3150 (6942 lbs) | 1850 (4077 lbs) | 15,00 (49.21') | | |
| -9,0 (-29.53') | *9750 (21489 lbs) | *9750 (21489 lbs) | *8600 (18954 lbs) | *8600 (18954 lbs) | 6750 (12562 lbs) | *5700 (8375 lbs) | 3800 (8926 lbs) | *4050 (8926 lbs) | 2550 (5620 lbs) | | | *3600 (7934 lbs) | 2350 (5179 lbs) | 12,91 (42.36') | | |
| -12,0 (-39.37') | | | *6350 (13995 lbs) | *6350 (13995 lbs) | *6350 (9256 lbs) | *4200 (9146 lbs) | 4150 (9146 lbs) | | | | | *3900 (8595 lbs) | *3900 (8595 lbs) | 9,48 (31.10') | | |



A Load Radius
B Load Point Height
C Lifting Capacity

1. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards
2. The load point is the center-line of the bucket pivot mounting pin on the arm
3. Lifting capacity cannot exceed 75% of tipping capacity or 87% of hydraulic capacity.
4. (*) indicates load limited by hydraulic capacity.



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