





Even Stronger Attachment & Component

SE 520 10 a



Hydraulic Drive for Engine Cooling Fan; Will Independent Oil Cooler Fan

Hydraulic drive optimizes the cooling fan rotation speed to improve fuel economy and reduce noise. Also, the independent oil cooler fan better matches cooling to the hydraulic oil temperature, for optimal oil temperature control.



Cooling fan for inter cooler & radiator.

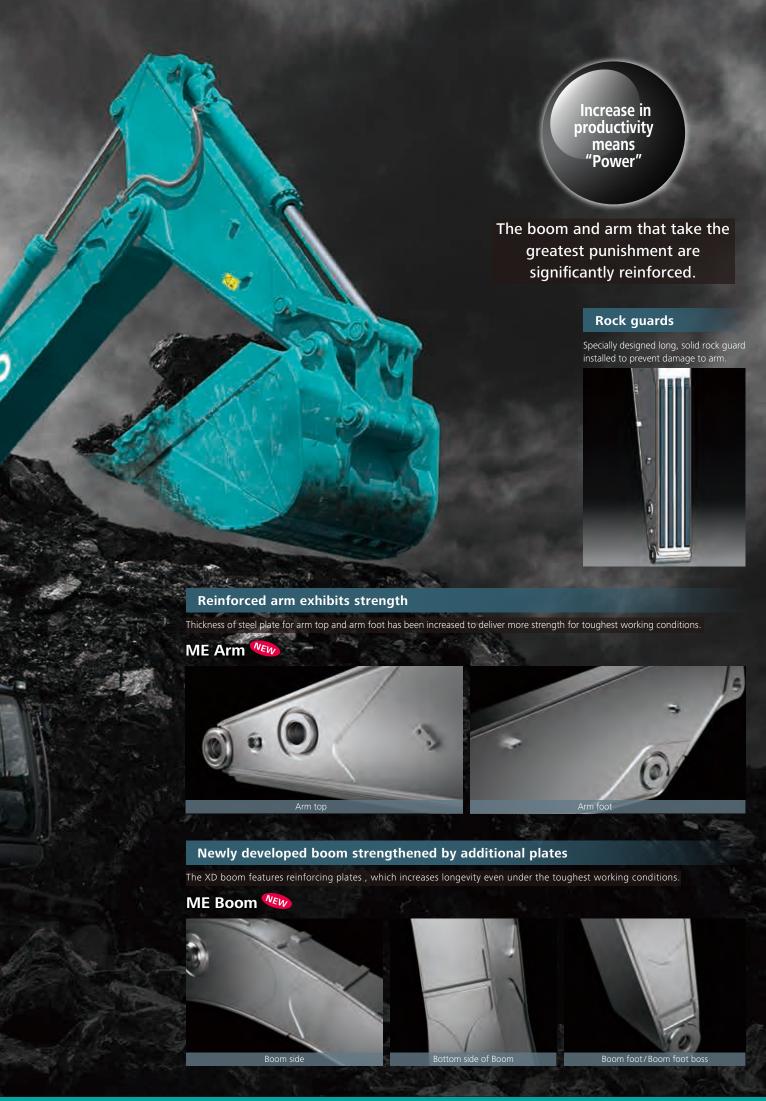


Cooling fan for oil cooler.



Upper Under Covers

Thick covers with increased durability compared to SK500HDLC-8.



Increase in Productivity Means "Power"

Powerful travel system for easy transit over loose stones, and highly reliable filtration system ensure higher machine performance.

Crawlers built for unbeatable durability

Reinforced Guide Frame **1**



Reinforced guide frame prevents deformation caused by impact or encroaching of loose stones.

Thicker Steel Plate For Shoes



Reinforced HD shoes of thick steel plate to master rough, stony ground.

Reinforced Guide Frame 2



Inside of guide frame is reinforced.

Track Links



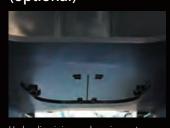
The durability of the track link is increased compared to SK500HDLC-8.

Track Guides



Large, reinforced track guides are installed in four locations.

Lower Frame Underside Cover (optional)



Hydraulic piping and equipment protected against damage from rubble and stony ground.

Double-support Outer Flange Upper Rollers



Double-support outer flanged upper rollers can withstand powerful vibrations.

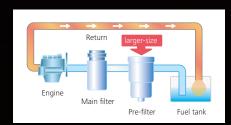


Clean, contaminant-free fuel and hydraulic fluid are essential to stable performance.

The improved filtration systems reduce the risk of mechanical trouble and enhance longevity and durability.

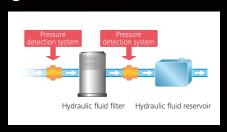
Fuel Filter WEW

The pre-filter, with built-in water separator maximizes filtering performance.



Hydraulic Fluid Filter Clog Detector 🦇

Hydraulic tank pressure sensor monitors the pressure difference between the return line and tank inside pressure to determine the degree of clogging. If the difference exceeds a predetermined level, a warning appears on the multi-display, so any contamination can be trapped by the filter and replaced before it reaches the hydraulic fluid in the tank.



Hydraulic **New** Fluid Filter

Recognized as the best in the industry, our Premium-fine filter separates out even the smallest particles. New cover prevents contamination when changing filters.



Metal Mesh Cover Air Cleaner

Metal mesh cover ensures strength and durability.



Enlarged filter image

Evolution Continues, with Improved Fuel Efficiency.

10% Enhanced fuel saving means "Efficiency"

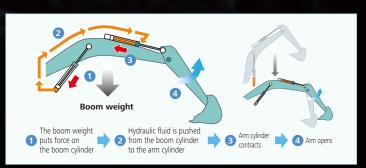
Boom to Arm Regeneration system more efficiently controls hydraulic fluid flow, and significant reduction of in-line resistance and pressure loss. This improves fuel efficiency.

Hydraulic System: Revolutionary technology saves fuel

SX520 10s

Boom to Arm Regeneration System 🚾

When lowering the boom, this system uses the downward force generated by the boom's weight to push fluid to the shovel arm. This greatly reduces the need to apply power from outside the system.



Energy saving system saves fuel further

Fuel Efficient Work Mode ECO Mode Win

The fuel-saving ECO mode is newly provided to the operation mode, selectable according to a desired operation. Fuel consumption can be greatly reduced.

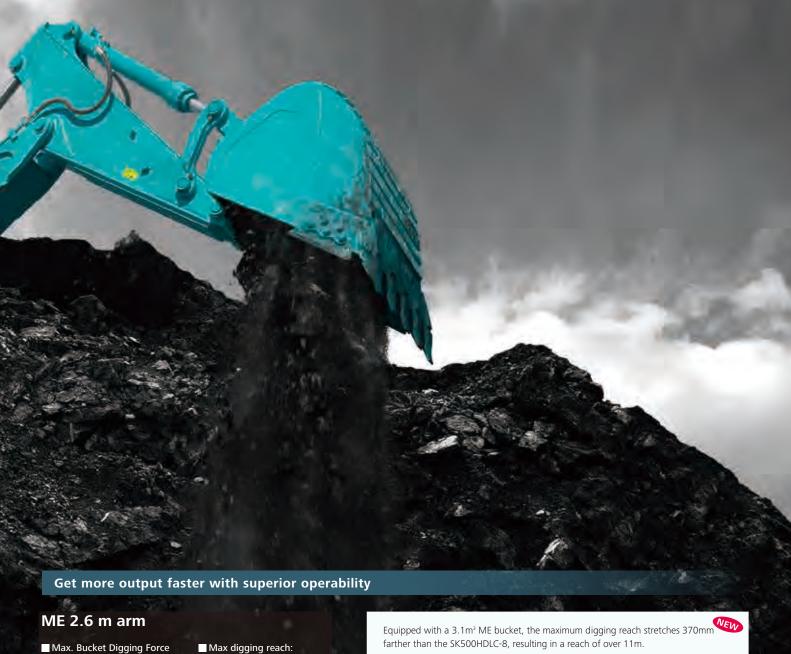
Minimum fuel consumption for utility projects and other work that demands precision

Used to prioritize the amount of work done

H mode, 10% decrease

Used to strike a balance between workloads and fuel efficiency

S mode, 10% decrease



■ Max. Bucket Digging Force

Normal: 282kN

With power boost: 308kN

■ Max. Arm Digging Force
Normal: 239kN

With power boost: 261kN

11,250_{mm}

Max digging depth:

6,820mm

■ Max vertical digging depth: **6,110**mm

Short 3.0 m arm

Max. Bucket Digging Force

Normal: 270kN

With power boost: 295kN

Max. Arm Digging Force

Normal: 224kN

With power boost: 245kN

Max digging reach:

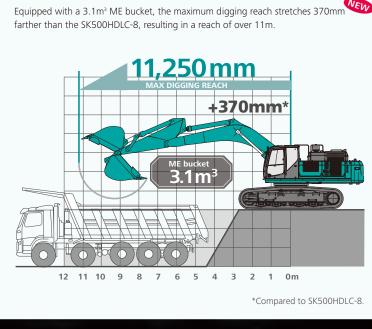
11,770_{mm}

Max digging depth:

7,360_{mm}

Max vertical digging depth:

6,670_{mm}



Top Class Traveling Force

Powerful traveling force and drawbar pulling force deliver plenty of speed when climbing slopes or negotiating bad roads, and the agility to change direction swiftly and smoothly.

■ Drawbar Pulling Force: 415kN

Comfortable Cab is Now Safer than Ever.



Multi-Display in Color Web

Brilliant colors and graphic displays are easy to recognize on the LCD multi-display in the console. The display shows fuel consumption, maintenance intervals, and more.

MAINTENANCE







1 Analog gauge provides an intuitive reading of fuel level and engine

② Green indicator light shows low fuel consumption during operation

water temperature

- 3 Fuel consumption/Switch indicator for rear camera images
- 4 Digging mode switch
- Monitor display switch

Large Cab NEW

4 % larger than the previous cab capacity. Relaxing environment allows work to be performed in comfort.

Air Conditioner **NEW** Louvers behind the Seat



The large air-conditioner has louvers on the back pillars that blow from behind and to the right and left of the operator's seat. They can be adjusted to put a direct flow of cool/warm air on the operator, which means a more comfortable operating environment.

Super-Airtight Cab VEW



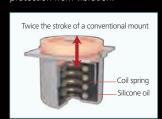


The high level of air-tightness keeps dust out of the cab.

Low Vibration **NEW**



Coil springs absorb small vibrations, and high suspension mounts filled with silicone oil reduce heavy vibration. The long stroke achieved by this system provides excellent protection from vibration.



One-Touch Attachment Mode Switch

A simple touch of a button, switches the hydraulic circuit and flow amount to match attachment changes. Icons help the operator to confirm the proper configuration at a glance.



Comfort



Broad View WEW Helps the Operator

The front window features one large piece of glass without a center pillar on the right side for a wide, unobstructed view.

Large Cab is Easy to Get In and Out Of

The expanded cab provides plenty of room for a large door, more headroom and smoother entry and exit.



More Comfortable Seat Means Higher Productivity







A Light Touch on the Lever Means Smoother, Less Tiring Work



It takes 38% less effort to work the operation lever, which reduces fatigue over long working hours or continued operations.

Interior Equipment Adds to Comfort and Convenience









Safety

Improved WWO Operational Safety Cab Guard (optional)



The top guard (FOPS, Top Guard Level II. (Meets ISO10262)) provided as option. The top-mounted working light ensures a wide field of view.

Wide View During Operations High Visibility for Safety



Greater safety assured by rearview mirrors on left and right.

Rear View Camera (optional)



A rear view camera is installed as option to simplify checking for safety behind the machine. The picture appears on the color monitor.





- Travel alarm(optional)
- Hammer for emergency exit

Efficient Maintenance Keeps the Machine in Peak Operating Condition.



Examples of displaying maintenance information

Machine Information Display Function

- Displays only the maintenance information that's needed, when it's needed
- Self-diagnostic function provides early-warning detection and display of electrical system malfunctions
- Service-diagnostic function makes it easier to check the status of the machine
- Record function of previous breakdowns including irregular and transient malfunction

Easy, On-the-Spot Maintenance

There is ample space in the engine compartment for a mechanic to do maintenance work inside. The distance between steps is lower so entry and exit is easier. And the mechanic can work in comfort, without contortions or unnatural body positions. Finally, the hood is lighter and easier to raise and lower.



Maintenance Work, Daily Checks, Etc., Can Be Done from Ground Level

The layout allows for easy access from the ground for many daily checks and regular maintenance tasks.





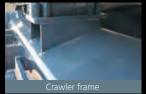


Simple layout for easy access to radiator and cooling system elements.



- 1 Engine oil filter
- 2 Pilot filter
- 3 Pump drain filter
- 4 Fuel filter with built-in water separator

Easy Cleaning



Special crawler frame design for easy mud removal cleaning.



Detachable two-piece floor mat with handles for easy removal. A floor drain is located under floor mat.



Floor mat's raised edges help keep the cab floor free of mud, simplify cleaning.



Engine oil pan equipped with drain valve.



More Efficient Maintenance Inside the Cab

Internal and external air conditioner filters can be easily removed without tools for cleaning.







Engine

| Model | HINO P11C-WF | |
|---------------------------------|---|--|
| Туре | Water-cooled, 4cycle 6cylinder direct injection type diesel engine with intercooler turbo-charger | |
| No. of cylinders 6 | | |
| Bore and stroke 122 mm × 150 mm | | |
| Displacement | 10.52 L | |
| Rated power output | 344 HP (257 kW)/1,850 min ⁻¹ (ISO 14396) | |
| Max. torque | 1,470 N·m/1,400 min ⁻¹ (ISO 14396) | |



Hydraulic System

| Pump | | |
|----------------------------|--|--|
| Туре | Two variable displacement pumps + One gear pump | |
| Max. discharge flow | 2 × 370 L/min | |
| Relief valve setting | | |
| Excavating circuits (main) | 31.4 Mpa | |
| Power boost | 34.3 Mpa | |
| Travel circuit | 34.3 Mpa | |
| Swing circuit | 26.0 Mpa | |
| Pilot control circuit | 5.0 Mpa | |
| Pilot control pump | Gear type | |
| Main control valve | 8-spool | |
| Oil cooler | Air cooled type | |



Swing System

| Swing motor | Axial piston motor | |
|---------------|--|--|
| Brake | Hydraulic; locking automatically when the swing control lever is in neutral position | |
| Parking brake | Wet multiple plate, hydraulic operated automatically | |
| Swing speed | 7.6 min ⁻¹ | |



Travel System

| Travel motors | Variable displacement piston pump | |
|-------------------------|-----------------------------------|--|
| Travel brakes | Hydraulic | |
| Parking brakes | Wet multiple plate | |
| Travel shoes | 50 each side | |
| Travel speed (high/low) | 5.4/3.4 km/h | |
| Drawbar pulling force | 415 kN | |
| Gradeability | 70 % (35 deg) | |



Cab & Control

International Comfort Cab with dust free enclosure and with internal pressure of 97pa (earlier cab 27pa). All-weather, sound-suppressed steel cab mounted on the high suspension mounts filled with silicone oil and equipped with a heavy, insulated floor mat.

| Control |
|--|
| Two hand levers and two foot pedals for travel |
| Two hand levers for excavating and swing |
| Electric rotary-type engine throttle |



Boom, Arm & Bucket

| Boom cylinders | | 170 mm × 1,590 mm | |
|-----------------|-----------------|-------------------|--|
| Arm cylinder | | 190 mm × 1,970 mm | |
| Bucket cylinder | ME 2.6 m arm | 170 mm × 1,429 mm | |
| | Short 3.0 m arm | 160 mm × 1,410 mm | |



Refilling Capacities & Lubrications

| Fuel tank | 638 L | | |
|-----------------------|------------------------|--|--|
| Cooling system | 47.4 L | | |
| Engine oil | 42.5 L | | |
| Travel reduction gear | 2 × 15 L | | |
| Swing reduction gear | 2 × 5 L | | |
| 11 do 25 36 d | 371 L tank oil level | | |
| Hydraulic oil tank | 631 L hydraulic system | | |



Attachments

Backhoe bucket and combination

| | Use | Backhoe bucket | | | |
|------------------|-----------------------------|----------------|-----------------|-------|-------|
| | Use | Heavy digging | Mass Excavating | | |
| Bucket capacity | ISO heaped m ³ | 2.1 | 2.6 | 3.1 | 3.4 |
| 0 | With side cutters mm | 1,660 | 1,550 | 1,760 | 1,920 |
| Opening width | Without side cutters mm | 1,580 | 1,440 | 1,670 | 1,810 |
| No. of teeth | | 5 | 5 | 5 | 6 |
| Bucket weight kg | | 2,270 | 2,370 | 2,580 | 2,710 |
| Combination | 6.5m ME boom and 2.6 ME arm | _ | 0 | 0 | 0 |
| Combination | 3.0m short arm | 0 | _ | _ | _ |





Working Ranges

Unit: m

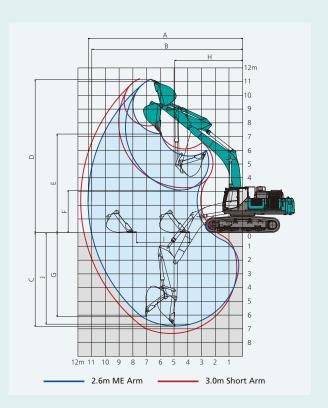
| Boom | ME 6.5 m | 7.0 m |
|--|---------------|------------------|
| Arm Range | ME 2.6 Arm | Short 3.0 Arm |
| A-Max. digging reach | 11.25 | 11.77 |
| B- Max. digging reach at ground level | 11.01 | 11.54 |
| C-Max. digging depth | 6.82 | 7.36 |
| D-Max. digging height | 11.15 | 11.16 |
| E- Max. dumping clearance | 7.18 | 7.72 |
| F- Min. dumping clearance | 3.07 | 3.23 |
| G-Max. vertical wall digging depth | 6.11 | 6.67 |
| H-Min. swing radius | 4.96 | 5.28 |
| I- Horizontal digging stroke at ground level | 3.87 | 5.21 |
| J- Digging depth for 2.4 m(8') flat bottom | 6.66 | 7.2 |
| Bucket capacity ISO heaped m³ | 3.1 | 2.1 |

Digging Force (ISO 6015)

Unit: kN

| Arm length | ME 2.6 Arm | Short 3.0 Arm |
|----------------------|---------------|------------------|
| Bucket digging force | 282/308* | 270/295* |
| Arm crowding force | 239/261* | 224/245* |

*Power Boost engaged.



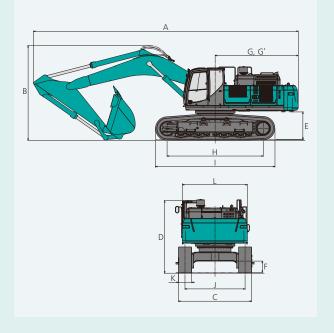
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Dimensions

Unit: mm

| Aı | rm length | ME 2.6 Arm | Short 3.0 Arm |
|----|---|---------------|------------------|
| Α | Overall length | 11,980 | 12,210 |
| В | Overall height (to top of boom) | 4,330 | 3,800 |
| C | Overall width | 3,3 | 50 |
| D | Overall height (to top of cab) | 3,3 | 20 |
| Ε | Ground clearance of rear end* | 1,2 | 60* |
| F | Ground clearance* | 510* | |
| G | G Tail swing radius 3,800 | | 800 |
| G' | G' Distance from center 3,800 | | 300 |
| Н | Tumbler distance | 4,4 | .00 |
| 1 | Overall length of crawler | er 5,460 | |
| J | Track gauge | 2,750 | |
| K | Shoe width | 600 | |
| L | L Overall width of upperstructure 2,980 | | 80 |
| | ************************************** | | |

*Without including height of shoe lug.



Operating Weight & Ground Pressure

In standard trim, with $6.5\,\mathrm{m}$ ME boom, $2.6\,\mathrm{m}$ ME arm, and $3.1\,\mathrm{m}^3$ ISO heaped bucket

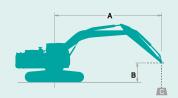
| | <u> </u> | <u> </u> | |
|--------------------------|----------|------------------------------------|--|
| Shaped | | Triple grouser shoes (even height) | |
| Shoe width | mm | 600 | |
| Overall width of crawler | mm | 3,350 | |
| Ground pressure | kPa | 88 | |
| Operating weight | kg | 51,100 | |

In standard trim, with 7.0 m boom, 3.00 m arm, and 2.1 m³ ISO heaped bucket

| Shaped | | Triple grouser shoes (even height) |
|--------------------------|-----|------------------------------------|
| Shoe width | mm | 600 |
| Overall width of crawler | mm | 3,350 |
| Ground pressure | kPa | 87 |
| Operating weight | kg | 50,800 |

Lifting Capacities







A: Reach from swing centerline to arm top B: Arm top height above/below ground C: Lifting capacities in Kilograms Bucket: Without bucket Relief valve setting: 34.3 MPa

| SK520XD | LC-10 | Boom: 6. | Boom: 6.5m Arm: 2.6m Bucket: without Counterweight: 9,800kg Shoe: 600mm (Power Boost) | | | | | | | | | | | |
|---------|-------|----------|---|---------|----------|---------|-------------|---------|----------|---------|----------|---------------|----------|--------|
| A | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | 9.0 m | | At Max. Reach | | |
| В | | 1 | — | 1 | — | 1 | | 1 | — | 1 | — | 1 | — | Radius |
| 9.0 m | kg | | | | | | | | | | | *12,280 | *12,280 | 6.24m |
| 7.5 m | kg | | | | | | | *12,370 | 11,180 | | | *10,690 | *10,690 | 7.56 m |
| 6.0 m | kg | | | | | *13,290 | *13,290 | *12,180 | 11,100 | | | *9,970 | 9,110 | 8.41 m |
| 4.5 m | kg | | | | | *15,080 | 14,950 | *12,920 | 10,710 | | | *9,680 | 8,130 | 8.93 m |
| 3.0 m | kg | | | | | *17,100 | 14,050 | *13,920 | 10,260 | *12,300 | 7,870 | *9,710 | 7,650 | 9.17 m |
| 1.5 m | kg | | | | | *18,650 | 13,390 | *14,790 | 9,890 | 12,480 | 7,710 | *10,040 | 7,540 | 9.15 m |
| G.L. | kg | | | | | *19,280 | 13,070 | *15,200 | 9,670 | | | *10,760 | 7,800 | 8.88 m |
| -1.5 m | kg | | | *24,800 | 20,030 | *18,870 | 13,040 | *14,800 | 9,660 | | | *12,060 | 8,530 | 8.34m |
| -3.0 m | kg | *28,580 | *28,580 | *22,140 | 20,410 | *17,070 | 13,280 | | | | | *12,410 | 10,120 | 7.45 m |
| -4.5 m | kg | | | *16,960 | *16,960 | | | | | | | *11,180 | *11,180 | 6.06 m |

| SK520XDLC-10 Boom: 7.0m Arm: 3.0m Bucket: without Counterweight: 9,800kg Shoe: 600mm (Power Boost) | | | | | | | | | | | | | | |
|--|----|----------|-------------|---------|-------------|---------|----------|---------|----------|---------|----------|---------------|-------------|--------|
| A | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | 9.0 m | | At Max. Reach | | |
| В | | <u> </u> | | 1 | | Ī | — | 1 | — | 1 | — | 1 | | Radius |
| 9.0 m | kg | | | | | | | | | | | *11,190 | *11,190 | 7.36 m |
| 7.5 m | kg | | | | | | | *10,690 | *10,690 | | | *10,840 | 9,250 | 8.51 m |
| 6.0 m | kg | | | | | | | *11,230 | *11,230 | *10,710 | 8,370 | *10,760 | 7,930 | 9.27 m |
| 4.5 m | kg | | | *19,550 | *19,550 | *14,560 | *14,560 | *12,250 | 10,800 | *11,060 | 8,190 | *10,830 | 7,190 | 9.74m |
| 3.0 m | kg | | | | | *16,760 | 14,060 | *13,440 | 10,310 | *11,640 | 7,940 | 10,880 | 6,800 | 9.96 m |
| 1.5 m | kg | | | | | *18,430 | 13,390 | *14,460 | 9,900 | *12,190 | 7,710 | 10,770 | 6,700 | 9.95 m |
| G.L. | kg | | | | | *19,220 | 13,040 | *15,080 | 9,650 | 12,310 | 7,570 | 11,090 | 6,870 | 9.70 m |
| -1.5 m | kg | *10,210 | *10,210 | *23,780 | 19,930 | *19,100 | 12,960 | *15,080 | 9,560 | *12,170 | 7,580 | *11,740 | 7,380 | 9.20 m |
| -3.0 m | kg | *22,160 | *22,160 | *23,210 | 20,220 | *17,990 | 13,110 | *14,150 | 9,680 | | | *11,890 | 8,440 | 8.41 m |
| -4.5 m | kg | *25,270 | *25,270 | *19,700 | *19,700 | *15,310 | 13,510 | | | | | *11,680 | 10,650 | 7.21 m |

Notes:

- 1. Do not attempt to lift or hold any load that is greater than these lift capacities at their specified lift point radius and heights. Weight of all accessories must be deducted from the above lift
- ${\it 2. Lift capacities are based on machine standing on level, firm, and uniform ground. User must}\\$ make allowance for job conditions such as soft or uneven ground, out of level conditions, side loads, sudden stopping of loads, hazardous conditions, experience of personnel, etc.

 3. Arm top defined as lift point.

- 4. The above lifting capacities are in compliance with ISO 10567. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Lifting capacities marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.
- 5. Operator should be fully acquainted with the Operator's and Maintenance Instructions before operating this machine. Rules for safe operation of equipment should be adhered to at all times.

 6. Lift capacities apply to only machine as originally manufactured and normally equipped by
- KOBELCO CONSTRUCTION MACHINERY CO., LTD.
- 7. The above figures indicate machine capacity, but in practice the machine should not be used for lifting loads.



STANDARD EQUIPMENT

ENGINE

- Engine, HINO P11C-WF, diesel engine with turbocharger and intercooler
- Automatic engine deceleration
- Auto Idle Stop (AIS)
- Batteries (2 x 12V 104Ah)
- Starting motor (24V 6kW), 60 amp alternator
- Automatic engine shut-down for low engine oil pressure
- Engine oil pan drain valve
- Double element air cleaner
- Battery shut down
- Pre air cleaner
- Emergency engine shut-off switch

CONTROL

- Working mode selector (H-mode, S-mode and ECO-mode)
- Power Boost

SWING SYSTEM & TRAVEL SYSTEM

- Swing rebound prevention system
- Two-speed travel with automatic shift down
- Sealed & lubricated track links
- Grease-type track adjusters
- 600mm HD triple grouser shoe
- Automatic swing brake
- Tow eyes
- Four track guides each side
- Straight propel system

HYDRAULIC

- Boom regeneration system
- Auto warm up system
- Aluminum hydraulic oil cooler
- Arm interflow system
- Hydraulic fluid filter clog detector

MIRRORS & LIGHTS

- Two rear view mirrors
- Six front working lights (Two for boom, one for boom cylinder, one for right storage box and two for cab)

CAB & CONTROL

- Two control levers, pilot-operated
- Horn, electric
- Cab light (interior)
- Luggage tray
- Large cup holder
- Detachable two-piece floor mat
- Headrest
- Handrails
- Intermittent windshield wiper with double-spray washer
- Skylight
- Tinted safety glass
- Pull-up type front window and removable lower front window
- Easy-to-read multi-display color monitor
- Automatic air conditioner
- Emergency escape hammer
- GEOSCAN
- Suspension seat
- Cab 2 lights
- Swing flasher
- Bluetooth radio, AUX/USB
- 24V outlet

OPTIONAL EQUIPMENT

- Refilling pump
- Rear view camera
- 600mm HD double grouser shoe
- N&B Piping

- Travel alarm
- Lower under cover
- Top guard
- Heavy counterweight

Note: Standard and optional equipment may vary. Consult your KOBELCO dealer for specifics.

GEOSCAN

GEOSCAN allows you to use the Internet to manage information from your office for machines operating in all areas. This provides a wide range of support for your business operations.





Note: This catalog may contain attachments and optional equipment that are not available in your area. And it may contain photographs of machines with specifications that differ from those of machines sold in your areas. Please consult your nearest KOBELCO distributor for those items you require. Due to our policy of continuous product improvements all designs and specifications are subject to change without permission.

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