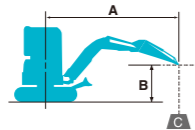


# LIFTING CAPACITIES



Rating over front

Rating over side or 360 degrees

A: Reach from swing centerline to arm top  
 B: Arm top height above/below ground  
 C: Lifting capacities in kilograms  
 Bucket: Without bucket Dozer blade: up  
 Relief valve setting: 23.0 MPa

| SK28SR Cab |    | Arm: 1.18 m, Bucket: without Shoe: 300 mm |        |        |     |       |     |       |     |               |     |        |
|------------|----|---|--------|--------|-----|-------|-----|-------|-----|---------------|-----|--------|
|            |    | 1.0 m                                     |        | 2.0 m  |     | 3.0 m |     | 4.0 m |     | At Max. Reach |     | Radius |
| B          | A  |   |        |        |     |       |     |       |     |               |     |        |
| 3.0 m      | kg |   |        |        |     | *630  | 490 |       |     | 510           | 370 | 3.51 m |
| 2.0 m      | kg |   |        | *1,150 | 890 | 640   | 470 | 400   | 290 | 400           | 290 | 4.00 m |
| 1.0 m      | kg |   |        |        |     | 600   | 430 | 390   | 280 | 370           | 260 | 4.12 m |
| G. L.      | kg |   |        | 1,110  | 730 | 570   | 400 |       |     | 390           | 280 | 3.92 m |
| -1.0 m     | kg | *2,090                                    | *2,090 | 1,130  | 750 | 580   | 410 |       |     | 500           | 350 | 3.32 m |

| SK28SR Canopy |    | Arm: 1.18 m, Bucket: without Shoe: 300 mm |        |        |     |       |     |       |     |               |     |        |
|---------------|----|---|--------|--------|-----|-------|-----|-------|-----|---------------|-----|--------|
|               |    | 1.0 m                                     |        | 2.0 m  |     | 3.0 m |     | 4.0 m |     | At Max. Reach |     | Radius |
| B             | A  |   |        |        |     |       |     |       |     |               |     |        |
| 3.0 m         | kg |   |        |        |     | *630  | 470 |       |     | 480           | 350 | 3.51 m |
| 2.0 m         | kg |   |        | *1,150 | 850 | 610   | 440 | 370   | 270 | 370           | 270 | 4.00 m |
| 1.0 m         | kg |   |        |        |     | 560   | 400 | 360   | 260 | 340           | 250 | 4.12 m |
| G. L.         | kg |   |        | 1,040  | 690 | 540   | 380 |       |     | 360           | 260 | 3.92 m |
| -1.0 m        | kg | *2,090                                    | *2,090 | 1,050  | 700 | 540   | 380 |       |     | 470           | 330 | 3.32 m |

| SK30SR Cab |    | Arm: 1.32 m, Bucket: without Shoe: 300 mm |        |       |      |       |     |       |     |               |      |        |
|------------|----|---|--------|-------|------|-------|-----|-------|-----|---------------|------|--------|
|            |    | 1.0 m                                     |        | 2.0 m |      | 3.0 m |     | 4.0 m |     | At Max. Reach |      | Radius |
| B          | A  |   |        |       |      |       |     |       |     |               |      |        |
| 4.0 m      | kg |   |        |       |      | 780   | 620 |       |     | 740           | 590  | 3.08 m |
| 3.0 m      | kg |   |        |       |      |       |     |       |     | 480           | 380  | 3.97 m |
| 2.0 m      | kg |   |        |       |      | 740   | 580 | 460   | 370 | 400           | 310  | 4.38 m |
| 1.0 m      | kg |   |        |       |      | 680   | 530 | 440   | 350 | 370           | 290  | 4.48 m |
| G. L.      | kg |   |        | 1,250 | 910  | 650   | 500 | 430   | 330 | 390           | 300  | 4.29 m |
| -1.0 m     | kg | *2,050                                    | *2,050 | 1,270 | 930  | 650   | 500 |       |     | 470           | 370  | 3.77 m |
| -2.0 m     | kg |   |        | *970  | *970 |       |     |       |     | *640          | *640 | 2.60 m |

| SK30SR Canopy |    | Arm: 1.32 m, Bucket: without Shoe: 300 mm |        |       |     |       |     |       |     |               |     |        |
|---------------|----|---|--------|-------|-----|-------|-----|-------|-----|---------------|-----|--------|
|               |    | 1.0 m                                     |        | 2.0 m |     | 3.0 m |     | 4.0 m |     | At Max. Reach |     | Radius |
| B             | A  |   |        |       |     |       |     |       |     |               |     |        |
| 4.0 m         | kg |   |        |       |     | 740   | 590 |       |     | 700           | 560 | 3.08 m |
| 3.0 m         | kg |   |        |       |     |       |     |       |     | 450           | 360 | 3.97 m |
| 2.0 m         | kg |   |        |       |     | 700   | 550 | 440   | 350 | 370           | 300 | 4.38 m |
| 1.0 m         | kg |   |        |       |     | 640   | 500 | 420   | 330 | 350           | 270 | 4.48 m |
| G. L.         | kg |   |        | 1,180 | 860 | 610   | 470 | 400   | 320 | 370           | 290 | 4.29 m |
| -1.0 m        | kg | *2,050                                    | *2,050 | 1,200 | 880 | 610   | 470 |       |     | 450           | 350 | 3.77 m |
| -2.0 m        | kg |   |        | *970  | 930 |       |     |       |     | *640          | 620 | 2.60 m |

| SK35SR Cab |    | Arm: 1.37 m, Bucket: without Shoe: 300 mm |        |        |       |       |     |       |     |               |     |        |
|------------|----|---|--------|--------|-------|-------|-----|-------|-----|---------------|-----|--------|
|            |    | 1.0 m                                     |        | 2.0 m  |       | 3.0 m |     | 4.0 m |     | At Max. Reach |     | Radius |
| B          | A  |   |        |        |       |       |     |       |     |               |     |        |
| 4.0 m      | kg |   |        |        |       |       |     |       |     | 800           | 750 | 3.32 m |
| 3.0 m      | kg |   |        |        |       |       |     | 590   | 550 | 550           | 520 | 4.15 m |
| 2.0 m      | kg |   |        |        |       | 900   | 840 | 570   | 540 | 470           | 440 | 4.54 m |
| 1.0 m      | kg |   |        |        |       | 830   | 780 | 550   | 520 | 440           | 420 | 4.63 m |
| G. L.      | kg |   |        | 1,530  | 1,390 | 800   | 740 | 530   | 500 | 460           | 430 | 4.45 m |
| -1.0 m     | kg | *2,290                                    | *2,290 | 1,550  | 1,400 | 800   | 740 |       |     | 550           | 510 | 3.95 m |
| -2.0 m     | kg |   |        | *1,550 | 1,460 |       |     |       |     | 880           | 820 | 2.90 m |

| SK35SR Canopy |    | Arm: 1.37 m, Bucket: without Shoe: 300 mm |        |       |       |       |     |       |     |               |     |        |
|---------------|----|---|--------|-------|-------|-------|-----|-------|-----|---------------|-----|--------|
|               |    | 1.0 m                                     |        | 2.0 m |       | 3.0 m |     | 4.0 m |     | At Max. Reach |     | Radius |
| B             | A  |   |        |       |       |       |     |       |     |               |     |        |
| 4.0 m         | kg |   |        |       |       |       |     |       |     | 770           | 720 | 3.32 m |
| 3.0 m         | kg |   |        |       |       |       |     | 560   | 530 | 530           | 500 | 4.15 m |
| 2.0 m         | kg |   |        |       |       | 860   | 810 | 550   | 520 | 450           | 420 | 4.54 m |
| 1.0 m         | kg |   |        |       |       | 800   | 740 | 520   | 490 | 420           | 400 | 4.63 m |
| G. L.         | kg |   |        | 1,460 | 1,330 | 760   | 710 | 510   | 480 | 440           | 410 | 4.45 m |
| -1.0 m        | kg | *2,290                                    | *2,290 | 1,480 | 1,350 | 760   | 710 |       |     | 520           | 490 | 3.95 m |
| -2.0 m        | kg |   |        | 1,540 | 1,400 |       |     |       |     | 840           | 790 | 2.90 m |

- Notes:**
- 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 capacities.
  - 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.
  - Arm top defined as lift point.
  - 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.
  - 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.
  - Lift capacities apply to only machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.

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 advance notice. Copyright by KOBELCO CONSTRUCTION MACHINERY CO., LTD. No part of this catalog may be reproduced in any manner without notice.

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Inquiries To:

SK28SR/SK30SR/SK35SR-ANZ-101-140603 IF

# KOBELCO

SK28SR-6/SK30SR-6/SK35SR-6

# MINI EXCAVATORS

## SK28SR SK30SR SK35SR



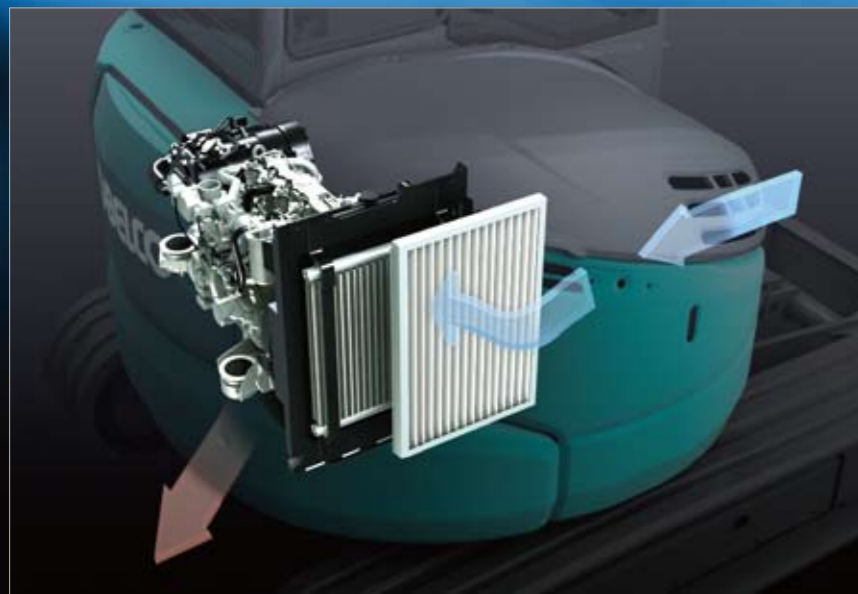
**We Save You Fuel**  
 Achieving a Low-Carbon Society



# Full-Size Performance, Short-Radius Agility and Quiet Operation

## **COMPACT YET TOUGH MINI**

The new KOBELCO SK28SR, SK30SR and SK35SR expand the horizons of mini excavators, and offer practical performance features while maintaining a short tail swing. The new Energy Conservation Mode saves even more fuel, and Kobelco's proprietary iNDR Cooling System ensures quiet operation, protection from dust, and easy maintenance. For greater operator comfort and safety, the spacious cab design offers plenty of room and an unobstructed view. It all adds up to enhanced full-size performance, short-radius agility and a low-noise environment, with exceptional performance features and a full range of value-added functions.





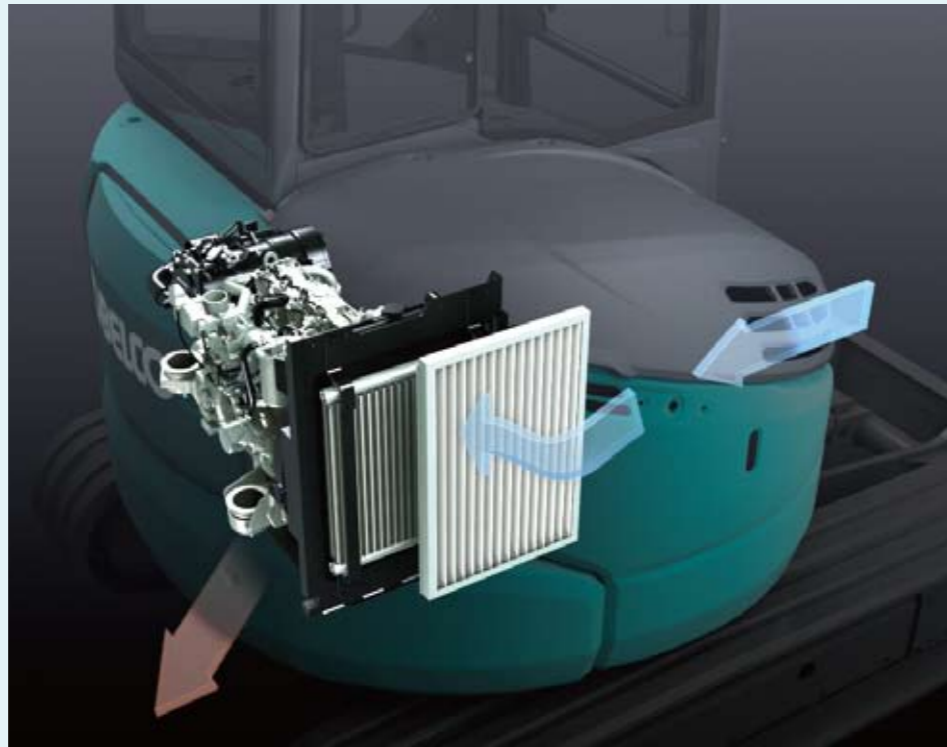
ENVIRONMENT

**iNDr Cooling System**

**The Revolutionary Integrated Noise and Dust Reduction Cooling System**



The highly airtight engine compartment and the offset duct contribute to noise reduction. The iNDr filter fitted in front of the cooling system ensures easy cleaning. The iNDr system on the SR Series mini excavators features air intake at the front of the machine and air exhaust underneath. It functions in the same way as the iNDr System on the SR series machines.



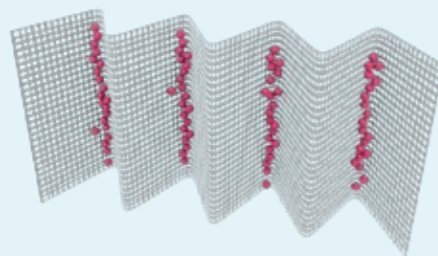
**Visual Checking and Easy Cleaning**

Because the iNDr filter removes dust from the intake air, cooling components stay dirt-free and do not require regular cleaning. The iNDr filter itself can be easily removed and cleaned without the use of tools.



**iNDr Filter**

The stainless-steel filter is extremely effective against dust, with 30-mesh wave-type screen that removes tiny dust particles from the intake air.



•30-mesh means that there are 30 holes formed by horizontal and vertical wires in every square inch of filter.

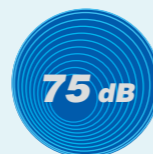
**iNDr Filter Blocks Out Dust**

Outside air goes directly from the intake duct through the iNDr filter for dust removal.



**Ultimate Low Noise**

KOBELCO's exclusive iNDr Cooling System delivers amazingly quiet operation.



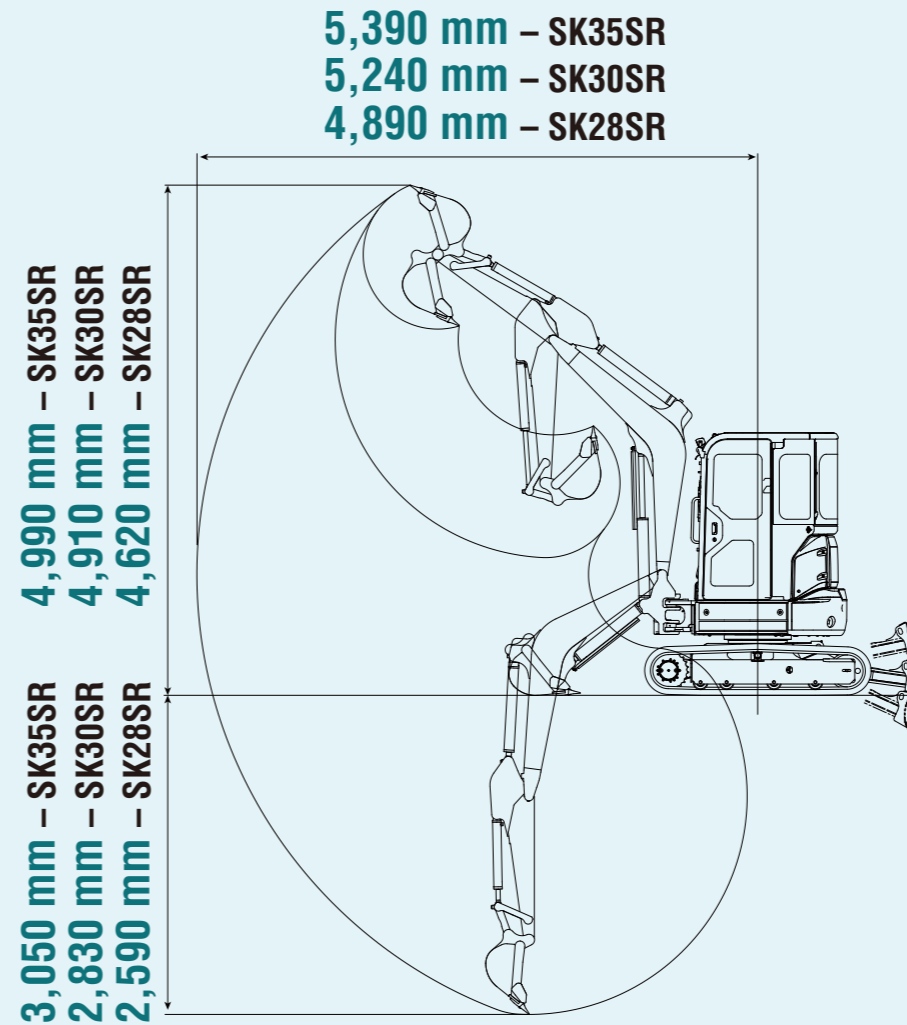
at 1 m backward from machine rearend and 1.5 m height from ground level.

PERFORMANCE

**Compact, yet, Big Performance**

**Wide Working Range**

A larger boom and arm are provided as standard equipment to ensure a wider working range.



**Short Tail Swing**

The compact tail swing improves operating efficiency in limited space.

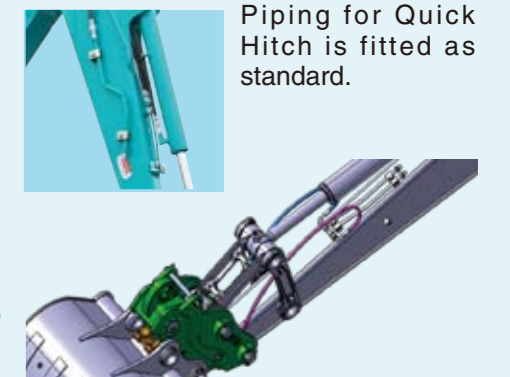


**Easy Transportability**

With an overall height of 2,510 mm, the machine is designed for easy transport.



**Easy Hydraulic Piping for Quick Hitch**





PERFORMANCE

# Fuel Economy and Digging Power

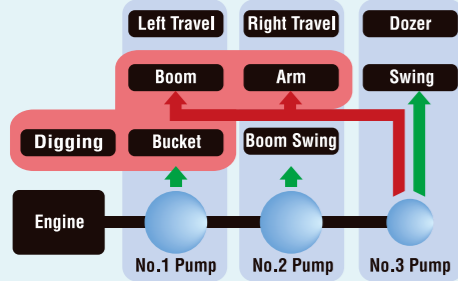
## Solid Digging Performance

### Assured Pump Flow and Pump Pressure

Pump flow of 38.4 L/min for SK30SR and SK35SR and 28.8 L/min for SK28SR, and pressure of 23.0 MPa (relief valve setting), maintain ample power.

### Integrated-Flow Pump System

The instant the machine begins to dig, extra output from the third pump (which otherwise powers the swing and dozer circuit) is directed to the arm circuit and boom circuit (raise) for added power. This ensures fast and smooth arm and boom raising operation even under heavy loads.



### Energy Conservation Mode

SK28SR, SK30SR and SK35SR equipped with S mode, which lowers fuel consumption by up to 25% over previous models.



### One Touch Deceleration

The machine features one-touch deceleration. It allows easy switching to an idling state, reducing the fuel consumption while the machine is at rest.



## Travel Power

### Large Capacity Travel Torque

The large capacity travel torque enables the machine to perform spin turn in low mode even when the dozer is pushing a heavy load.

### Automatic Two-Speed Travel

An automatic shift function ensures smoother, more efficient travel on worksite. When the High mode is selected, the travel system will automatically shift to Low mode whenever the load or climbing grades requires more power.

### Travel Switch

The travel lever is fitted with a button for easy switching to H-Mode travel.



## Powerful and Efficient Dozer Performance

### Dozer-Blade Shape

KOBELCO's unique blade design solves this problem by forming the earth into an arc that always falls forward. Because this prevents earth from falling behind the blade, only "one pass" is needed.



### Hydraulic Pilot-Controlled Dozer Operation Lever



The dozer lever features hydraulic pilot control for precise handling.

MAINTENANCE

# Easy Daily Maintenance

Start-up checks are essential for safe and reliable machine operation. All start-up checks can be performed at ground level, with an easy-to-understand layout and cover design that simplify access and save time.

### Easy Access to Component Under the Seat



Two-piece floor mats for easy washing



Hour meter



### Easy Access to Engine Compartment



High-grade fuel filter



Pre fuel filter with built-in water separator



Air cleaner

### Easy Access to Cooling Unit



iNDR filter



Fuel tank



COMFORT

## Comfortable Work Environment

### Spacious Work Environment

The spacious cab provides optimized control layout for comfortable, easy operation. A greater window area further improves visibility. A clear view is provided at the rear, and there's also more floor space, with a seat that slides further to ensure plenty of leg room.



Seat in photo shows Australian spec.



Seat in photo shows U.S. spec.

### Easy Access

A wide-opening door and a left-hand tilting control console with safety lever that rises high, make it easy for operators to enter and exit the cab.



### Work Light



Work light is mounted under the boom to protect from damage.

### Skylight



### Control Lever

Precise proportional controls (optional) are integrated into the joystick for ease of operation.



### Pattern Changer

Pattern changer allows for increased utilization and flexibility to match operator preference.

*Pattern Changer is standard fitting for Australia.  
Another pattern changer is provided for New Zealand.*

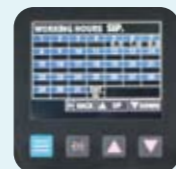


### Color Liquid Crystal Monitor

The color liquid crystal monitor is fitted as standard. Operation data as well as the full range of machine-status data can readily be checked.



Maintenance



Working hours

## Comfortable Operating Environment

### Hammer for emergency exit



### Climate control

The climate control system is located down and to the right of the seat keeping the rear view clear.



Vents to send cooled air toward the operator if he desires.



Seat in photo shows U.S. spec.

### Opening/closing front window

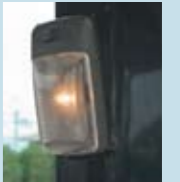
The front window features gas damper cylinders for smooth and easy opening and closing.



### Coat hook



### Room light



### Two-speaker FM/AM radio with station select (optional)



## Operator Safety

### Reliable Cab/Canopy Structure

The high-strength cab/canopy meets ROPS and TOP GUARD LEVEL 1 standards for greater operator safety.





## RELIABILITY

# Reliable Construction

The boom, arm and swing bracket all have large cross-section segments for added attachment strength.

### Strong boom and arm

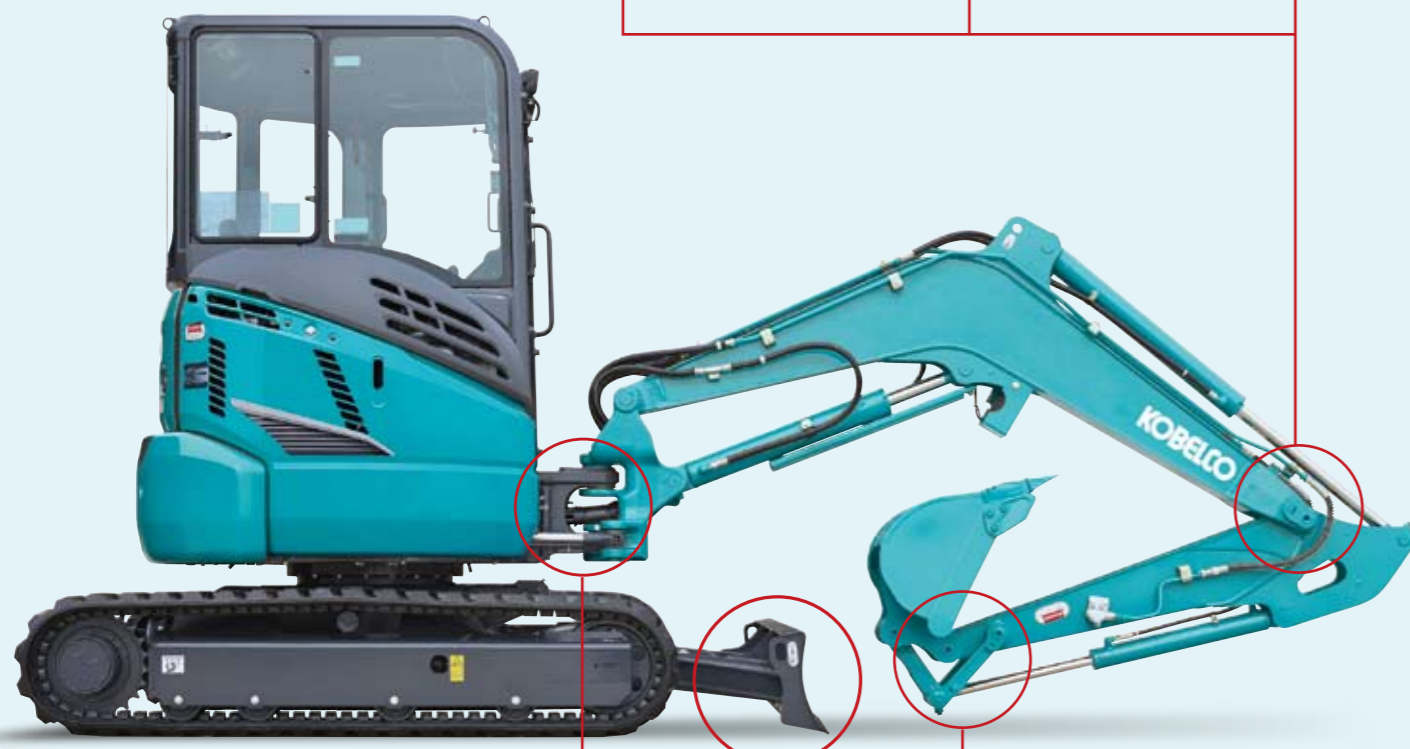
Bolt-tightened pins firmly lock the boom and arm to prevent the boom top from opening laterally.



Forged boom top



Plate type pin



### Swing bracket

Large, thick cast-iron swing bracket/front bracket.



### Hydraulic piping

The hydraulic piping is housed inside the swing bracket.



### Dozer

Box construction dozer supports provide greater strength.



### Bucket

Cast-iron idler link provide greater strength.

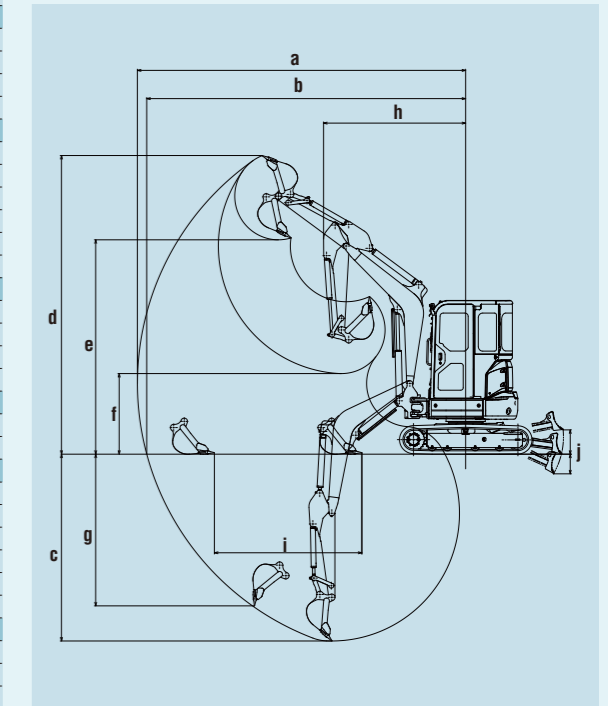
## SPECIFICATIONS

| MODEL                           |                    | SK28SR   | SK30SR             | SK35SR             |
|---------------------------------|--------------------|--|--------------------|--------------------|
| Type                            |                    | SK28SR-6   | SK30SR-6           | SK35SR-6           |
| Machine Mass                    | Cab                | kg   | 2,950              | 3,380              |
|                                 | Canopy             | kg   | 2,790              | 3,220              |
| Bucket Capacity                 |                    | m <sup>3</sup>   | 0.08               | 0.09               |
| Bucket Width (with side cutter) |                    | mm   | 500                | 500                |
| Arm Length                      |                    | m  | 1.18               | 1.32               |
| Bucket Digging Force            |                    | kN   | 24.7               | 27.7               |
| Arm Crowding Force              |                    | kN   | 16.6               | 19.1               |
| <b>ENGINE</b>                   |                    |  |                    |                    |
| Model                           |                    | YANMAR 3TNV82A-B   |                    |                    |
| Type                            |                    | Water cooled, 4-cycle, 3-cylinder, direct injection, diesel engine |                    |                    |
| Power Output                    | (ISO 9249)         | kW/min <sup>-1</sup>   | 17.1/2,400         |                    |
|                                 | (ISO 14396)        | kW/min <sup>-1</sup>   | 18.1/2,400         |                    |
| Max. Torque                     | (ISO 9249)         | N-m/min <sup>-1</sup>  | 77.7/1,440         |                    |
|                                 | (ISO 14396)        | N-m/min <sup>-1</sup>  | 79.4/1,440         |                    |
| Displacement                    |                    | L  | 1.331              |                    |
| Fuel Tank                       |                    | L  | 42                 |                    |
| <b>HYDRAULIC SYSTEM</b>         |                    |  |                    |                    |
| Pump                            |                    | Two variable displacement pumps + One gear pump                    |                    |                    |
| Max. Discharge Flow             |                    | L/min  | 2 x 28.8, 1 x 16.1 | 2 x 38.4, 1 x 19.2 |
| Relief Valve Setting            |                    | MPa  | 23.0               |                    |
| Hydraulic Oil Tank (system)     |                    | L  | 20.4 (41.1)        | 20.4 (44.8)        |
| <b>TRAVEL SYSTEM</b>            |                    |  |                    |                    |
| Travel Motors                   |                    | 2 x axial-piston, two-step motors                                  |                    |                    |
| Parking Brake                   |                    | Oil disc brake per motor   |                    |                    |
| Travel Speed (high/low)         |                    | km/h   | 3.8/2.1            | 4.4/2.5            |
| Gradeability                    |                    | % (degree)   | 58 (30)            |                    |
| Drawbar Pulling Force           | Cab                | kN   | 34.8               | 38.3               |
|                                 | Canopy             | kN   | 34.9               | 38.4               |
| <b>CRAWLER</b>                  |                    |  |                    |                    |
| Shoe                            |                    | mm   | Rubber             |                    |
| Shoe Width                      |                    | mm   | 300                |                    |
| Ground Pressure                 | Cab                | kPa  | 26.3               | 30.1               |
|                                 | Canopy             | kPa  | 24.9               | 28.7               |
| <b>DOZER BLADE</b>              |                    |  |                    |                    |
| Width x Height                  |                    | mm   | 1,550 x 345        | 1,550 x 345        |
| Working Ranges (height/depth)   |                    | mm   | 375/300            | 395/320            |
| <b>SWING SYSTEM</b>             |                    |  |                    |                    |
| Swing Motor                     |                    | Axial piston motor   |                    |                    |
| Parking Brake                   |                    | Oil disc brake, hydraulic operated automatically                   |                    |                    |
| Swing Speed                     |                    | min <sup>-1</sup>  | 8.4                |                    |
| Tail Swing Radius               |                    | mm   | 775                | 850                |
| Min. Front Swing Radius         | Over the front     | mm   | 2,330              | 2,430              |
|                                 | At full boom swing | mm   | 2,040              | 2,030              |
| <b>SIDE DIGGING MECHANISM</b>   |                    |  |                    |                    |
| Type                            |                    | Boom swing   |                    |                    |
| Offset Angle                    | to the left        | degree   | 60                 | 70                 |
|                                 | to the right       | degree   | 55                 | 60                 |

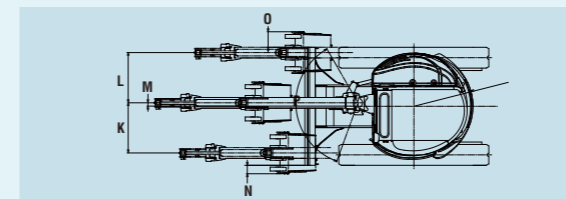
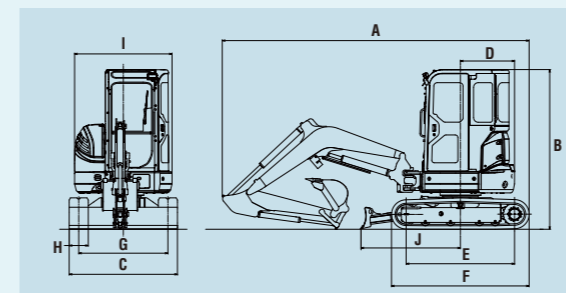
## WORKING RANGES

Unit: mm

| MODEL  | SK28SR  | SK30SR  | SK35SR  |
|--|---------|---------|---------|
| Arm length                                   | 1.18 m  | 1.32 m  | 1.37 m  |
| a- Max. digging reach                        | 4,890   | 5,240   | 5,390   |
| b- Max. digging reach at ground level        | 4,730   | 5,080   | 5,240   |
| c- Max. digging depth                        | 2,590   | 2,830   | 3,050   |
| d- Max. digging height                       | 4,620   | 4,910   | 4,990   |
| e- Max. dumping clearance                    | 3,210   | 3,510   | 3,600   |
| f- Min. dumping clearance                    | 1,330   | 1,320   | 1,330   |
| g- Max. vertical wall digging depth          | 2,410   | 2,510   | 2,620   |
| h- Min. swing radius                         | 2,330   | 2,430   | 2,380   |
| i- Horizontal digging stroke at ground level | 1,810   | 2,140   | 2,320   |
| j- Dozer blade (height/depth)                | 375/300 | 395/320 | 395/320 |



## GENERAL DIMENSIONS



| MODEL   | SK28SR | SK30SR | SK35SR |
|---|--------|--------|--------|
| A Overall length                                      | 4,550  | 4,760  | 4,870  |
| B Overall height                                      | 2,510  | 2,510  | 2,510  |
| C Overall width                                       | 1,550  | 1,550  | 1,700  |
| D Tail swing radius                                   | 775    | 775    | 850    |
| E Tumbler distance                                    | 1,700  | 1,700  | 1,700  |
| F Overall length of crawler                           | 2,160  | 2,160  | 2,160  |
| G Track gauge   | 1,250  | 1,250  | 1,400  |
| H Shoe width  | 300    | 300    | 300    |
| I Overall width of upperstructure                     | 1,530  | 1,530  | 1,530  |
| J Distance from dozer top to center of upperstructure | 1,500  | 1,560  | 1,560  |

| MODEL | SK28SR  | SK30SR  | SK35SR  |
|-------|---------|---------|---------|
| K     | 680     | 720     | 720     |
| L     | 675     | 725     | 725     |
| M     | 50      | 50      | 50      |
| N     | 100     | 150     | 120     |
| O     | 200     | 250     | 225     |
| P     | 60°/55° | 70°/60° | 70°/60° |

## OPTIONAL EQUIPMENT

- N&B (HCP\*) piping
- N&B (foot) piping + Rotating N&B (HCP\*)
- N&B (HCP\*) piping + Rotating N&B (HCP\*)
- ROPS cab with air conditioner
- Radio (only for cab)
- Steel shoe
- Bolt-on Pad shoes (for steel shoes)
- Add-on counterweight (250 kg) + 90 mm tail swing radius
- Boom & arm holding valve
- Wide range of buckets
- Rear view mirror
- Rear under mirror
- BHL lever
- Multi-control valve
- Arm & bucket cylinder cover
- Front guard
- 12 V power source

\*Hand Control Proportional