

## SECTION 1 GENERAL

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## SECTION 1 GENERAL

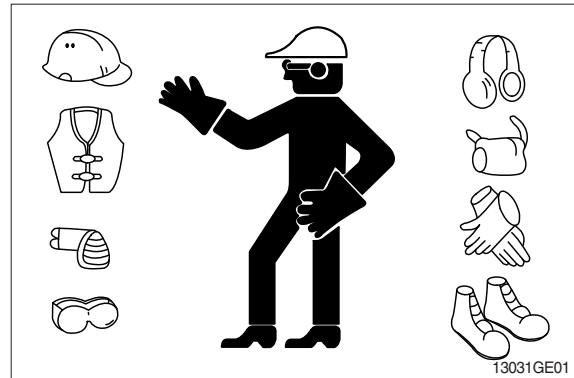
### GROUP 1 SAFETY

#### FOLLOW SAFE PROCEDURE

Unsafe work practices are dangerous. Understand service procedure before doing work; Do not attempt shortcuts.

#### WEAR PROTECTIVE CLOTHING

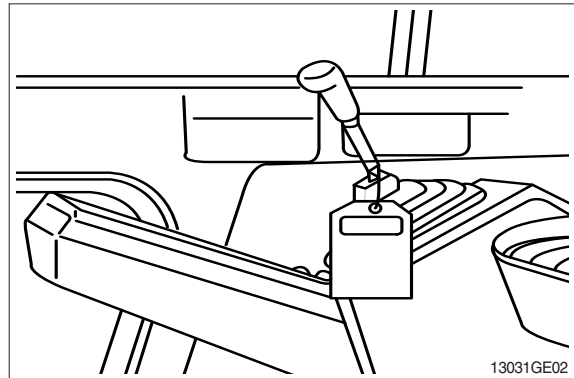
Wear close fitting clothing and safety equipment appropriate to the job.



#### WARN OTHERS OF SERVICE WORK

Unexpected machine movement can cause serious injury.

Before performing any work on the excavator, attach a 「Do Not Operate」 tag on the right side control lever.



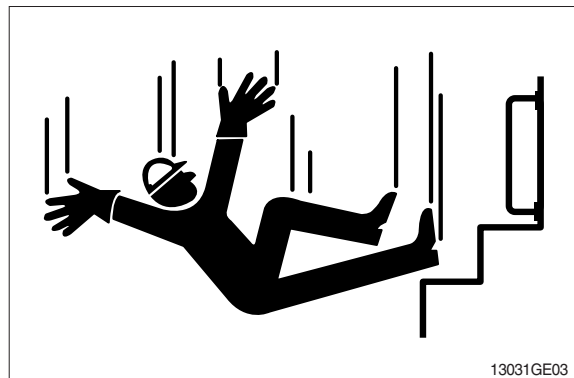
#### USE HANDHOLDS AND STEPS

Falling is one of the major causes of personal injury.

When you get on and off the machine, always maintain a three point contact with the steps and handrails and face the machine. Do not use any controls as handholds.

Never jump on or off the machine. Never mount or dismount a moving machine.

Be careful of slippery conditions on platforms, steps, and handrails when leaving the machine.

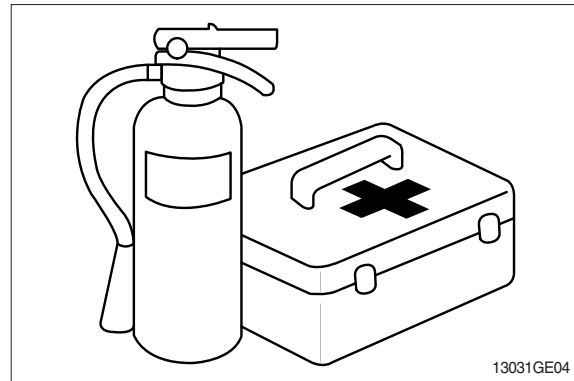


## PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

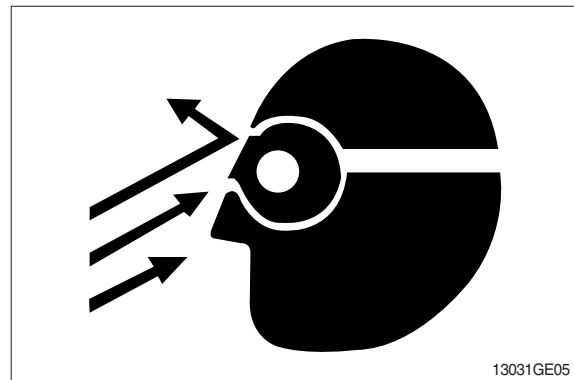
Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



## PROTECT AGAINST FLYING DEBRIS

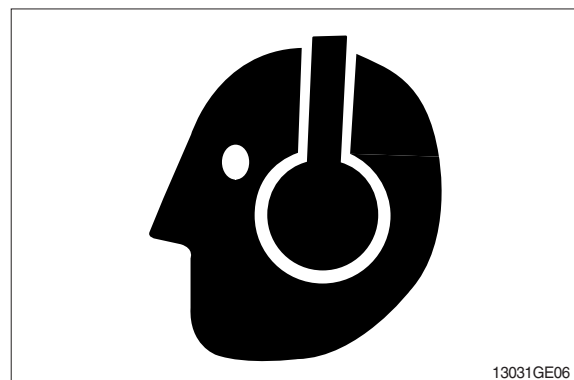
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



## PROTECT AGAINST NOISE

Prolonged exposure to loud noise can cause impairment or loss of hearing.

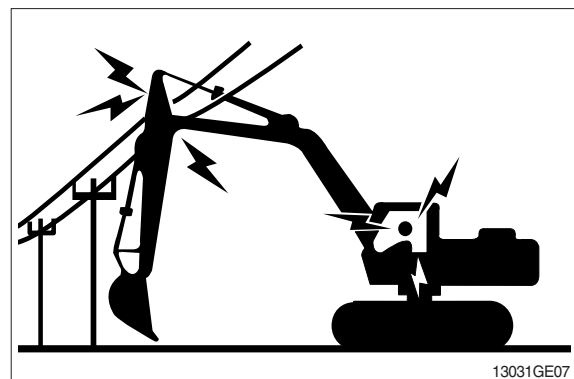
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



## AVOID POWER LINES

Serious injury or death can result from contact with electric lines.

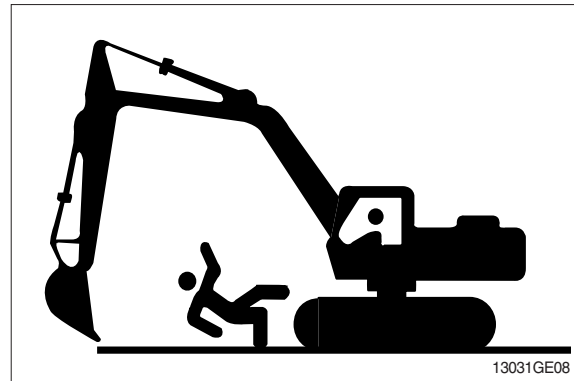
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



## KEEP RIDERS OFF EXCAVATOR

Only allow the operator on the excavator.  
Keep riders off.

Riders on excavator are subject to injury such as being struck by foreign objects and being thrown off the excavator. Riders also obstruct the operator's view resulting in the excavator being operated in an unsafe manner.

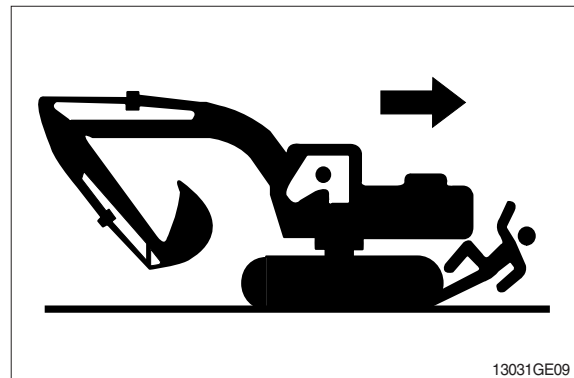


## MOVE AND OPERATE MACHINE SAFELY

Bystanders can be run over. Know the location of bystanders before moving, swinging, or operating the machine.

Always keep the travel alarm in working condition. It warns people when the excavator starts to move.

Use a signal person when moving, swinging, or operating the machine in congested areas. Coordinate hand signals before starting the excavator.



## OPERATE ONLY FROM OPERATOR'S SEAT

Avoid possible injury machine damage. Do not start engine by shorting across starter terminals.

NEVER start engine while standing on ground. Start engine only from operator's seat.



## PARK MACHINE SAFELY

Before working on the machine:

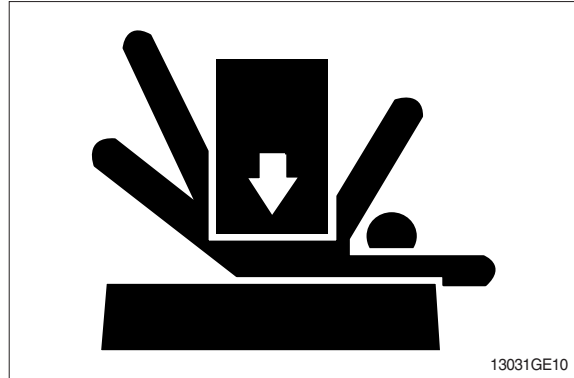
- Park machine on a level surface.
- Lower bucket to the ground.
- Turn auto idle switch off.
- Run engine at 1/2 speed without load for 2 minutes.
- Turn key switch to OFF to stop engine.  
Remove key from switch.
- Move pilot control shutoff lever to locked position.
- Allow engine to cool.

## SUPPORT MACHINE PROPERLY

Always lower the attachment or implement to the ground before you work on the machine. If you must work on a lifted machine or attachment, securely support the machine or attachment.

Do not support the machine on cinder blocks, hollow tiles, or props that may crumble under continuous load.

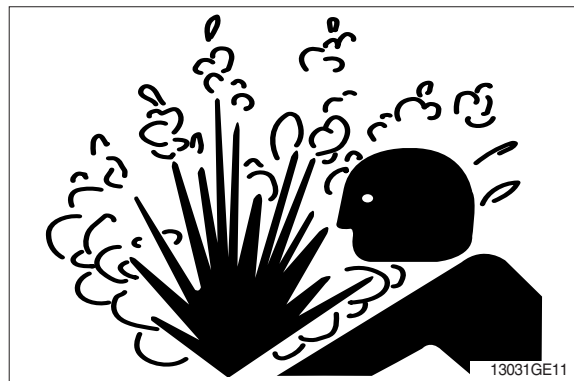
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



## SERVICE COOLING SYSTEM SAFELY

Explosive release of fluids from pressurized cooling system can cause serious burns.

Shut off engine. Only remove filler cap when cool enough to touch with bare hands.



## HANDLE FLUIDS SAFELY-AVOID FIRES

Handle fuel with care; It is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks.

Always stop engine before refueling machine. Fill fuel tank outdoors.



Store flammable fluids away from fire hazards. Do not incinerate or puncture pressurized containers.

Make sure machine is clean of trash, grease, and debris.

Do not store oily rags; They can ignite and burn spontaneously.



## BEWARE OF EXHAUST FUMES

Prevent asphyxiation. Engine exhaust fumes can cause sickness or death.

If you must operate in a building, be positive there is adequate ventilation. Either use an exhaust pipe extension to remove the exhaust fumes or open doors and windows to bring enough outside air into the area.

## REMOVE PAINT BEFORE WELDING OR HEATING

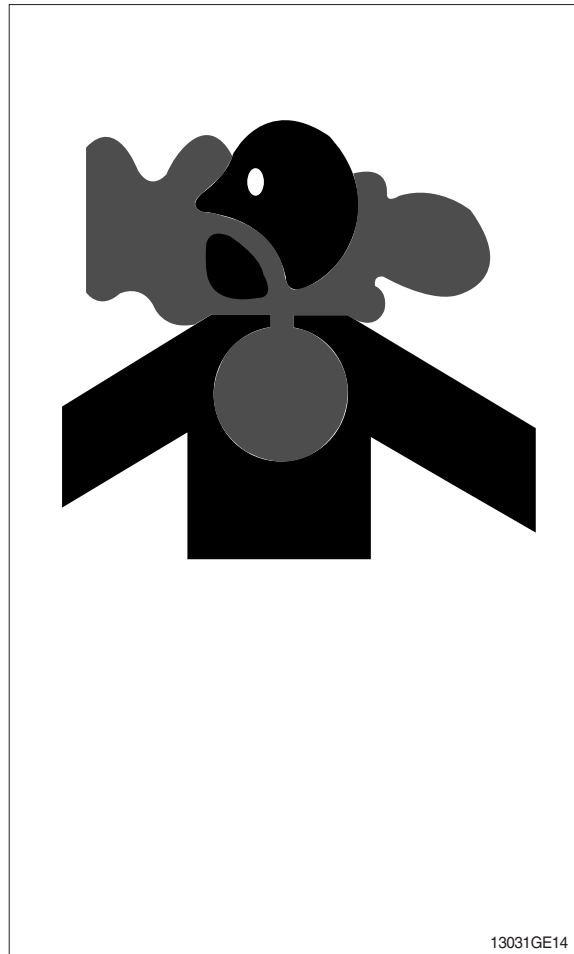
Avoid potentially toxic fumes and dust.

Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.

Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

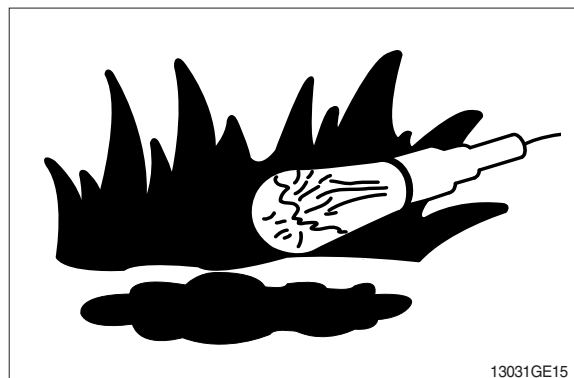
Remove paint before welding or heating:

- If you sand or grind paint, avoid breathing the dust. Wear an approved respirator.
- If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.



## ILLUMINATE WORK AREA SAFELY

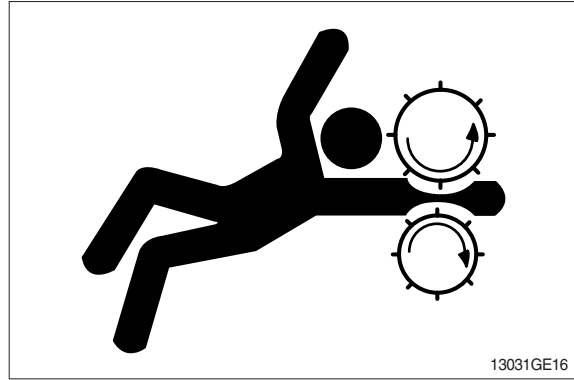
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



## SERVICE MACHINE SAFELY

Tie long hair behind your head. Do not wear a necktie, scarf, loose clothing or necklace when you work near machine tools or moving parts. If these items were to get caught, severe injury could result.

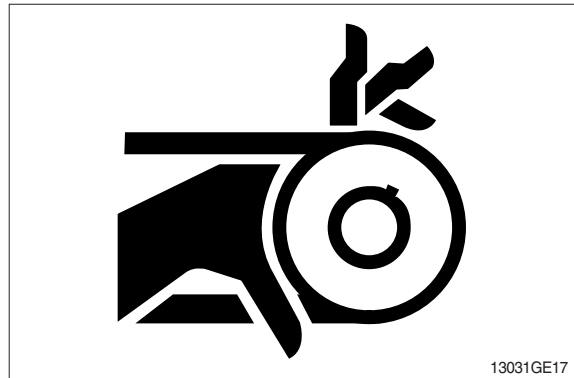
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



## STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

To prevent accidents, use care when working around rotating parts.



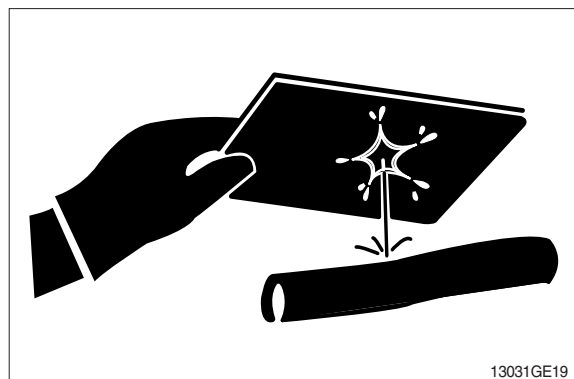
## AVOID HIGH PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result.



## AVOID HEATING NEAR PRESSURIZED FLUID LINES

Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself and bystanders. Do not heat by welding, soldering, or using a torch near pressurized fluid lines or other flammable materials.

Pressurized lines can be accidentally cut when heat goes beyond the immediate flame area. Install fire resisting guards to protect hoses or other materials.



## PREVENT BATTERY EXPLOSIONS

Keep sparks, lighted matches, and flame away from the top of battery. Battery gas can explode.

Never check battery charge by placing a metal object across the posts. Use a volt-meter or hydrometer.

Do not charge a frozen battery; It may explode. Warm battery to 16°C (60°F).



## PREVENT ACID BURNS

Sulfuric acid in battery electrolyte is poisonous. It is strong enough to burn skin, eat holes in clothing, and cause blindness if splashed into eyes.

Avoid the hazard by:

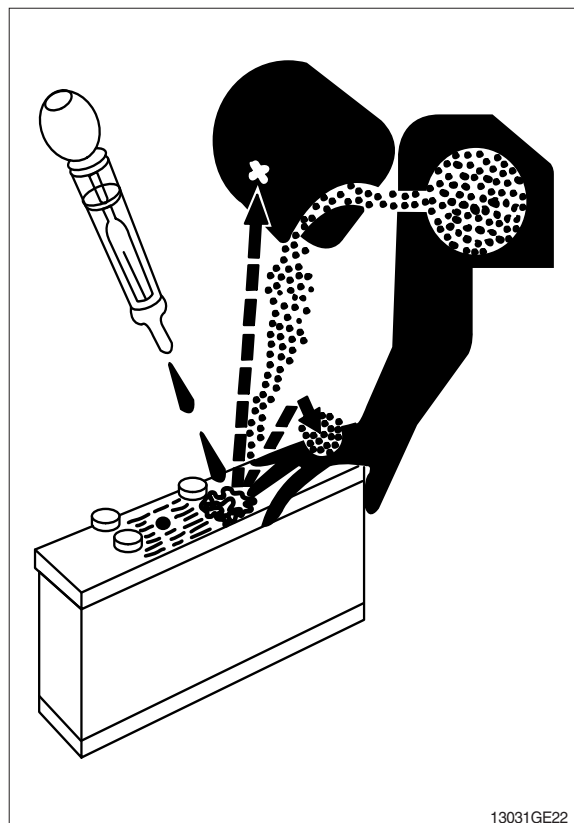
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

If you spill acid on yourself:

1. Flush your skin with water.
2. Apply baking soda or lime to help neutralize the acid.
3. Flush your eyes with water for 10-15 minutes. Get medical attention immediately.

If acid is swallowed:

1. Drink large amounts of water or milk.
2. Then drink milk of magnesia, beaten eggs, or vegetable oil.
3. Get medical attention immediately.



## USE TOOLS PROPERLY

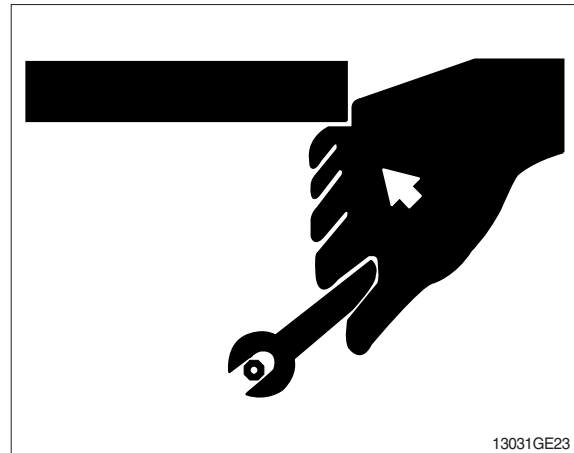
Use tools appropriate to the work.  
Makeshift tools, parts, and procedures can create safety hazards.

Use power tools only to loosen threaded tools and fasteners.

For loosening and tightening hardware, use the correct size tools.

DO NOT use U.S. measurement tools on metric fasteners. Avoid bodily injury caused by slipping wrenches.

Use only recommended replacement parts.  
(See Parts manual)

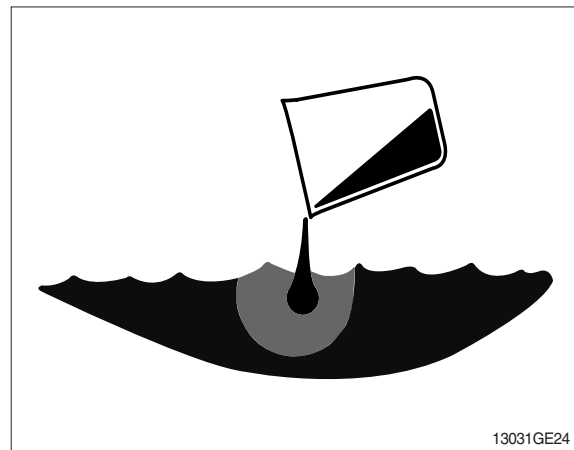


## DISPOSE OF FLUIDS PROPERLY

Improperly disposing of fluids can harm the environment and ecology. Before draining any fluids, find out the proper way to dispose of waste from your local environmental agency.

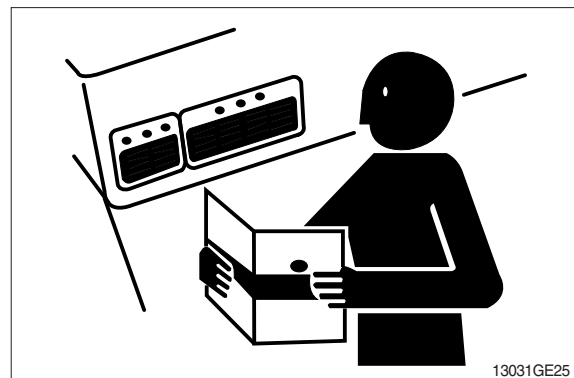
Use proper containers when draining fluids.  
Do not use food or beverage containers that may mislead someone into drinking from them.

DO NOT pour oil into the ground, down a drain, or into a stream, pond, or lake. Observe relevant environmental protection regulations when disposing of oil, fuel, coolant, brake fluid, filters, batteries, and other harmful waste.



## REPLACE SAFETY SIGNS

Replace missing or damaged safety signs. See the machine operator's manual for correct safety sign placement.



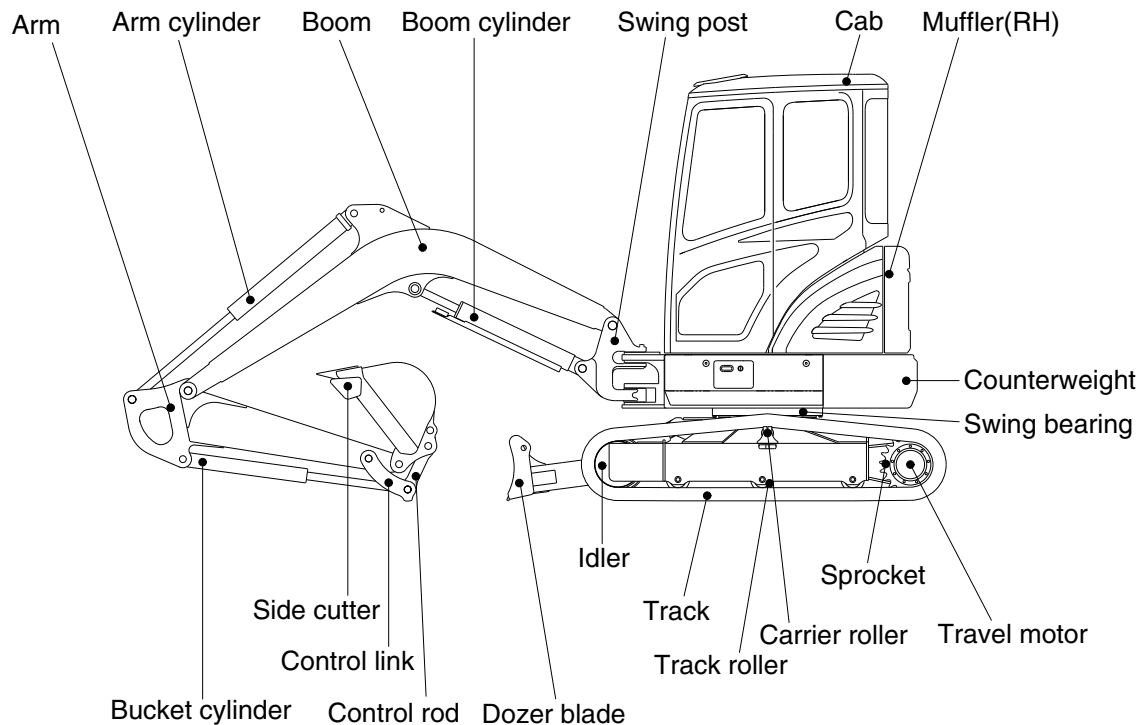
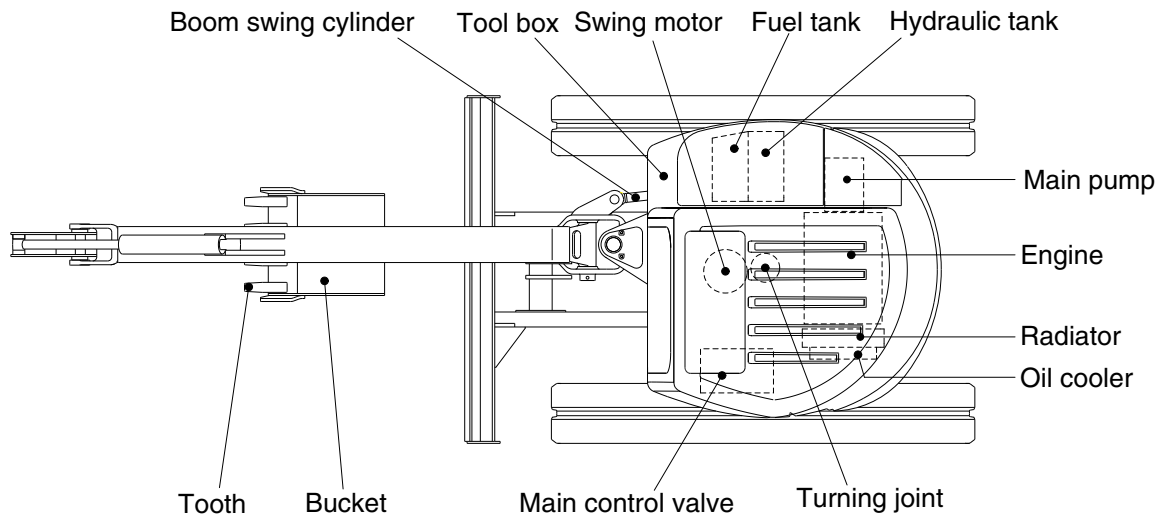
## LIVE WITH SAFETY

Before returning machine to customer, make sure machine is functioning properly, especially the safety systems.

Install all guards and shields.

## GROUP 2 SPECIFICATIONS

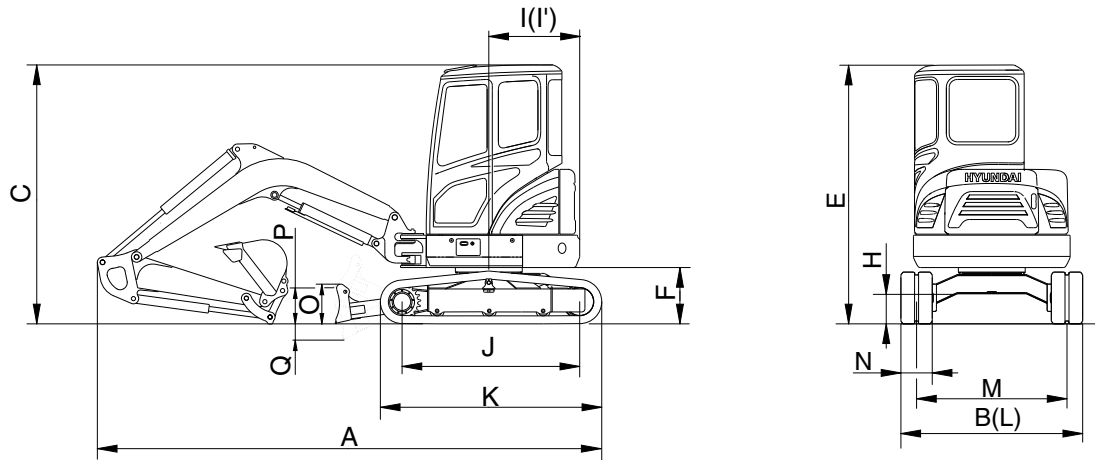
### 1. MAJOR COMPONENT



30Z9AK2SP01

## 2. SPECIFICATIONS

### 1) 2.03 m ( 6' 8") MONO BOOM, 1.12 m ( 3' 8") ARM, WITH BOOM SWING POST

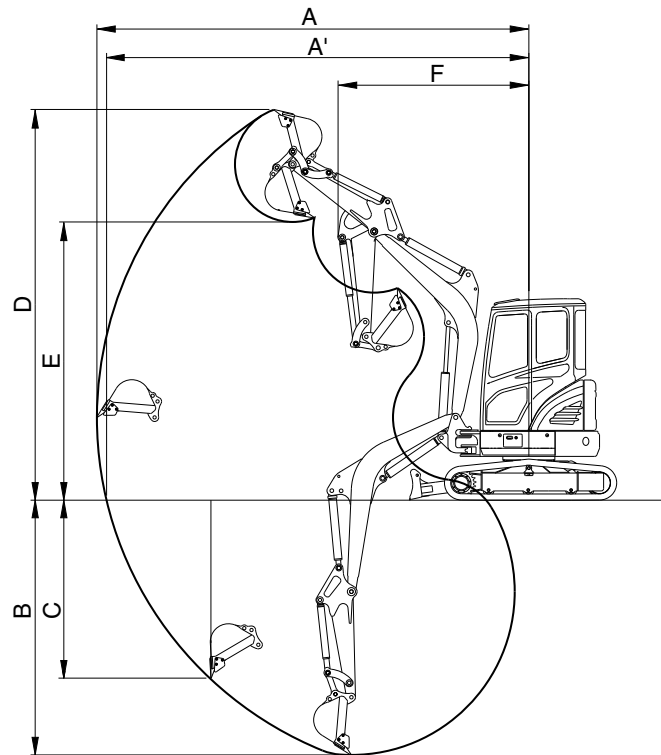


30Z9AK2SP02

| Description                                       |    | Unit          | Specification             |
|---------------------------------------------------|----|---------------|---------------------------|
| Operating weight (cabin / canopy)                 |    | kg (lb)       | 3005 (6620) / 2895 (6380) |
| Bucket capacity (SAE heaped), standard            |    | m³ (yd³)      | 0.08 (0.10)               |
| Overall length                                    | A  | mm (ft-in)    | 4180 (13' 3")             |
| Overall width, with 300 mm shoe                   | B  |               | 1550 (5' 1")              |
| Overall height                                    | C  |               | 2500 (8' 2")              |
| Overall height of cab                             | E  |               | 2500 (8' 2")              |
| Ground clearance of counterweight                 | F  |               | 540 (1' 9")               |
| Minimum ground clearance                          | H  |               | 290 (0' 11")              |
| Rear-end distance                                 | I  |               | 775 (2' 7")               |
| Rear-end swing radius                             | I' |               | 775 (2' 7")               |
| Distance between tumblers                         | J  |               | 1550 (4' 11")             |
| Undercarriage length                              | K  |               | 1970 (6' 6")              |
| Undercarriage width                               | L  |               | 1500 (4' 11")             |
| Track gauge                                       | M  |               | 1250 (4' 1")              |
| Track shoe width, standard                        | N  |               | 300 (9.8")                |
| Height of blade                                   | O  |               | 300 (1' 0")               |
| Ground clearance of blade up                      | P  |               | 350 (1' 2")               |
| Depth of blade down                               | Q  |               | 370 (1' 3")               |
| Travel speed (low/high)                           |    | km/hr (mph)   | 2.4/4.3 (1.5/2.7)         |
| Swing speed                                       |    | rpm           | 9.1                       |
| Gradeability                                      |    | Degree (%)    | 30 (58)                   |
| Ground pressure 300 mm rubber shoe (cab / canopy) |    | kgf/cm² (psi) | 0.27 (3.84) / 0.26 (3.70) |

### 3. WORKING RANGE

#### 1) 2.03 m (6' 8") MONO BOOM WITH BOOM SWING POST



30Z9AK2SP03

| Description                     |     | 1.12 m (3' 8") Arm |
|---------------------------------|-----|--------------------|
| Max digging reach               | A   | 4650 mm (15' 3")   |
| Max digging reach on ground     | A'  | 4515 mm (14' 10")  |
| Max digging depth               | B   | 2500 mm ( 8' 2")   |
| Max vertical wall digging depth | C   | 2085 mm ( 6' 10")  |
| Max digging height              | D   | 4270 mm (14' 10")  |
| Max dumping height              | E   | 2890 mm ( 9' 6")   |
| Min swing radius                | F   | 2055 mm ( 6' 9")   |
| Boom swing radius (left/right)  |     | 75°/50°            |
| Bucket digging force            | SAE | 17.9 kN            |
|                                 |     | 1830 kgf           |
|                                 |     | 4030 lbf           |
|                                 | ISO | 20.1 kN            |
|                                 |     | 2050 kgf           |
|                                 |     | 4520 lbf           |
| Arm crowd force                 | SAE | 13.1 kN            |
|                                 |     | 1340 kgf           |
|                                 |     | 2950 lbf           |
|                                 | ISO | 13.7 kN            |
|                                 |     | 1400 kgf           |
|                                 |     | 3090 lbf           |

## 4. WEIGHT

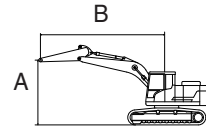
| Item                                                                                          | kg   | lb   |
|-----------------------------------------------------------------------------------------------|------|------|
| Upperstructure assembly                                                                       | 1640 | 3620 |
| Main frame weld assembly                                                                      | 310  | 684  |
| Engine assembly                                                                               | 136  | 300  |
| Main pump assembly                                                                            | 19   | 42   |
| Main control valve assembly                                                                   | 25   | 55   |
| Swing motor assembly                                                                          | 34   | 75   |
| Hydraulic oil tank assembly                                                                   | 35   | 77   |
| Fuel tank assembly                                                                            | 15   | 33   |
| Boom swing post                                                                               | 80   | 180  |
| Counterweight                                                                                 | 230  | 507  |
| Cab assembly                                                                                  | 210  | 460  |
| Lower chassis assembly                                                                        | 910  | 2010 |
| Track frame weld assembly                                                                     | 400  | 880  |
| Swing bearing                                                                                 | 50   | 110  |
| Travel motor assembly                                                                         | 36   | 80   |
| Turning joint                                                                                 | 11   | 24   |
| Track recoil spring                                                                           | 14   | 31   |
| Idler                                                                                         | 21   | 45   |
| Carrier roller                                                                                | 3    | 7    |
| Track roller                                                                                  | 10   | 22   |
| Sprocket                                                                                      | 7    | 15   |
| Rubber track (300 mm)                                                                         | 149  | 328  |
| Dozer blade assembly                                                                          | 125  | 275  |
| Front attachment assembly<br>(2.03 m boom, 1.12 m arm, 0.08 m <sup>3</sup> SAE heaped bucket) | 330  | 730  |
| 2.03 m boom assembly                                                                          | 94   | 207  |
| 1.12 m arm assembly                                                                           | 54   | 119  |
| 0.08 m <sup>3</sup> SAE heaped bucket                                                         | 62   | 137  |
| Boom cylinder assembly                                                                        | 26   | 57   |
| Arm cylinder assembly                                                                         | 26   | 57   |
| Bucket cylinder assembly                                                                      | 20   | 44   |
| Bucket control link assembly                                                                  | 20   | 45   |
| Dozer cylinder assembly                                                                       | 24   | 53   |
| Boom swing cylinder assembly                                                                  | 23   | 51   |

## 5. LIFTING CAPACITIES

| Model    | Type   | Boom        | Arm         | Counterweight | Shoe       | Wheel      | Dozer |      | Outrigger |      |
|----------|--------|-------------|-------------|---------------|------------|------------|-------|------|-----------|------|
| R30Z-9AK | Canopy | Length [mm] | Length [mm] | weight [kg]   | width [mm] | width [mm] | Front | Rear | Front     | Rear |
|          |        | 2030        | 1120        | 220           | 250        | -          | Down  | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree



| Lift-point height (A) |    | Lift-point radius (B)                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | At max. reach                                                                       |                                                                                     |        |
|-----------------------|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|
|                       |    | 2.0 m (6.6 ft)                                                                    |                                                                                   | 2.5 m (8.2 ft)                                                                    |                                                                                   | 3.0 m (9.8 ft)                                                                    |                                                                                   | 3.5 m (11.5 ft)                                                                   |                                                                                   | 4.0 m (13.1 ft)                                                                     |                                                                                     | Capacity                                                                            |                                                                                     | Reach  |
|                       |    |  |  |  |  |  |  |  |  |  |  |  |  | m (ft) |
| 3.5 m                 | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *720                                                                                | 560                                                                                 | 2.64   |
| (11.5 ft)             | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *1590                                                                               | 1230                                                                                | (8.6)  |
| 3.0 m                 | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *690                                                                              | 460                                                                               |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *620                                                                                | 410                                                                                 | 3.20   |
| (9.8 ft)              | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *1520                                                                             | 1010                                                                              |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *1370                                                                               | 900                                                                                 | (10.5) |
| 2.5 m                 | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *690                                                                              | 460                                                                               | *700                                                                              | 350                                                                               |                                                                                     |                                                                                     | *580                                                                                | 340                                                                                 | 3.55   |
| (8.2 ft)              | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *1520                                                                             | 1010                                                                              | *1540                                                                             | 770                                                                               |                                                                                     |                                                                                     | *1280                                                                               | 750                                                                                 | (11.7) |
| 2.0 m                 | kg |                                                                                   |                                                                                   | *830                                                                              | 600                                                                               | *760                                                                              | 450                                                                               | *720                                                                              | 350                                                                               |                                                                                     |                                                                                     | *570                                                                                | 300                                                                                 | 3.78   |
| (6.6 ft)              | lb |                                                                                   |                                                                                   | *1830                                                                             | 1320                                                                              | *1680                                                                             | 990                                                                               | *1590                                                                             | 770                                                                               |                                                                                     |                                                                                     | *1260                                                                               | 660                                                                                 | (12.4) |
| 1.5 m                 | kg |                                                                                   |                                                                                   | *1060                                                                             | 570                                                                               | *870                                                                              | 430                                                                               | *780                                                                              | 340                                                                               |                                                                                     |                                                                                     | *580                                                                                | 280                                                                                 | 3.91   |
| (4.9 ft)              | lb |                                                                                   |                                                                                   | *2340                                                                             | 1260                                                                              | *1920                                                                             | 950                                                                               | *1720                                                                             | 750                                                                               |                                                                                     |                                                                                     | *1280                                                                               | 620                                                                                 | (12.8) |
| 1.0 m                 | kg |                                                                                   |                                                                                   | *1300                                                                             | 550                                                                               | *990                                                                              | 420                                                                               | *840                                                                              | 330                                                                               |                                                                                     |                                                                                     | *600                                                                                | 270                                                                                 | 3.95   |
| (3.3 ft)              | lb |                                                                                   |                                                                                   | *2870                                                                             | 1210                                                                              | *2180                                                                             | 930                                                                               | *1850                                                                             | 740                                                                               |                                                                                     |                                                                                     | *1320                                                                               | 600                                                                                 | (13.0) |
| 0.5 m                 | kg |                                                                                   |                                                                                   | *1450                                                                             | 530                                                                               | *1090                                                                             | 400                                                                               | *890                                                                              | 320                                                                               |                                                                                     |                                                                                     | *650                                                                                | 270                                                                                 | 3.91   |
| (1.6 ft)              | lb |                                                                                   |                                                                                   | *3200                                                                             | 1170                                                                              | *2400                                                                             | 880                                                                               | *1960                                                                             | 710                                                                               |                                                                                     |                                                                                     | *1430                                                                               | 600                                                                                 | (12.8) |
| Ground Line           | kg | *1550                                                                             | 730                                                                               | *1500                                                                             | 520                                                                               | *1130                                                                             | 400                                                                               | *900                                                                              | 320                                                                               |                                                                                     |                                                                                     | *740                                                                                | 290                                                                                 | 3.78   |
|                       | lb | *3420                                                                             | 1610                                                                              | *3310                                                                             | 1150                                                                              | *2490                                                                             | 880                                                                               | *1980                                                                             | 710                                                                               |                                                                                     |                                                                                     | *1630                                                                               | 640                                                                                 | (12.4) |
| -0.5 m                | kg | *2020                                                                             | 730                                                                               | *1450                                                                             | 510                                                                               | *1100                                                                             | 390                                                                               | *850                                                                              | 320                                                                               |                                                                                     |                                                                                     | *820                                                                                | 310                                                                                 | 3.56   |
| (-1.6 ft)             | lb | *4450                                                                             | 1610                                                                              | *3200                                                                             | 1120                                                                              | *2430                                                                             | 860                                                                               | *1870                                                                             | 710                                                                               |                                                                                     |                                                                                     | *1810                                                                               | 680                                                                                 | (11.7) |
| -1.0 m                | kg | *1770                                                                             | 740                                                                               | *1300                                                                             | 520                                                                               | *970                                                                              | 400                                                                               |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *840                                                                                | 360                                                                                 | 3.21   |
| (-3.3 ft)             | lb | *3900                                                                             | 1630                                                                              | *2870                                                                             | 1150                                                                              | *2140                                                                             | 880                                                                               |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *1850                                                                               | 790                                                                                 | (10.5) |
| -1.5 m                | kg | *1330                                                                             | 750                                                                               | *950                                                                              | 530                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *830                                                                                | 490                                                                                 | 2.66   |
| (-4.9 ft)             | lb | *2930                                                                             | 1650                                                                              | *2090                                                                             | 1170                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *1830                                                                               | 1080                                                                                | (8.7)  |

Note 1. Lifting capacity are based on SAE J1097 and ISO 10567.

2. Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The load point is a hook located on the back of the bucket.

4. \*Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

Lifting capacities will vary with different work tools, ground conditions and attachments.

The difference between the weight of a work tool attachment must be subtracted.

Consult your Hyundai dealer regarding the lifting capacities for specific work tools and attachments.

※ Please be aware of the local regulations and instructions for lifting operations.

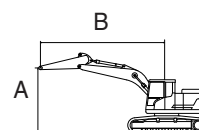
▲ Failure to comply to the rated load can cause possible personal injury or property damage.

Make adjustments to the rated load as necessary for non-standard configurations.

| Model    | Type  | Boom        | Arm         | Counterweight | Shoe       | Wheel      | Dozer |      | Outtriger |      |
|----------|-------|-------------|-------------|---------------|------------|------------|-------|------|-----------|------|
| R30Z-9AK | Cabin | Length [mm] | Length [mm] | weight [kg]   | width [mm] | width [mm] | Front | Rear | Front     | Rear |
|          |       | 2030        | 1120        | 220           | 250        | -          | Down  | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree

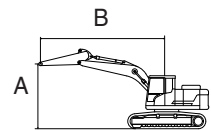


| Lift-point height (A) |          | Lift-point radius (B)                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | At max. reach                                                                       |                                                                                     |                |
|-----------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|
|                       |          | 2.0 m (6.6 ft)                                                                    |                                                                                   | 2.5 m (8.2 ft)                                                                    |                                                                                   | 3.0 m (9.8 ft)                                                                    |                                                                                   | 3.5 m (11.5 ft)                                                                   |                                                                                   | 4.0 m (13.1 ft)                                                                     |                                                                                     | Capacity                                                                            |                                                                                     | Reach          |
|                       |          |  |  |  |  |  |  |  |  |  |  |  |  | m (ft)         |
| 3.5 m<br>(11.5 ft)    | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *720<br>*1590                                                                       | 620<br>1370                                                                         | 2.64<br>(8.6)  |
| 3.0 m<br>(9.8 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *690<br>*1520                                                                     | 500<br>1100                                                                       |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *620<br>*1370                                                                       | 450<br>990                                                                          | 3.20<br>(10.5) |
| 2.5 m<br>(8.2 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *690<br>*1520                                                                     | 500<br>1100                                                                       | *700<br>*1540                                                                     | 390<br>860                                                                        |                                                                                     |                                                                                     | *580<br>*1280                                                                       | 380<br>840                                                                          | 3.55<br>(11.7) |
| 2.0 m<br>(6.6 ft)     | kg<br>lb |                                                                                   |                                                                                   | *830<br>*1830                                                                     | 660<br>1460                                                                       | *760<br>*1680                                                                     | 490<br>1080                                                                       | *720<br>*1590                                                                     | 380<br>840                                                                        |                                                                                     |                                                                                     | *570<br>*1260                                                                       | 340<br>750                                                                          | 3.78<br>(12.4) |
| 1.5 m<br>(4.9 ft)     | kg<br>lb |                                                                                   |                                                                                   | *1060<br>*2340                                                                    | 630<br>1390                                                                       | *870<br>*1920                                                                     | 480<br>1060                                                                       | *780<br>*1720                                                                     | 380<br>840                                                                        |                                                                                     |                                                                                     | *580<br>*1280                                                                       | 320<br>710                                                                          | 3.91<br>(12.8) |
| 1.0 m<br>(3.3 ft)     | kg<br>lb |                                                                                   |                                                                                   | *1300<br>*2870                                                                    | 600<br>1320                                                                       | *990<br>*2180                                                                     | 460<br>1010                                                                       | *840<br>*1850                                                                     | 370<br>820                                                                        |                                                                                     |                                                                                     | *600<br>*1320                                                                       | 310<br>680                                                                          | 3.95<br>(13.0) |
| 0.5 m<br>(1.6 ft)     | kg<br>lb |                                                                                   |                                                                                   | *1450<br>*3200                                                                    | 580<br>1280                                                                       | *1090<br>*2400                                                                    | 450<br>990                                                                        | *890<br>*1960                                                                     | 360<br>790                                                                        |                                                                                     |                                                                                     | *650<br>*1430                                                                       | 310<br>680                                                                          | 3.91<br>(12.8) |
| Ground<br>Line        | kg<br>lb | *1550<br>*3420                                                                    | 810<br>1790                                                                       | *1500<br>*3310                                                                    | 580<br>1280                                                                       | *1130<br>*2490                                                                    | 440<br>970                                                                        | *900<br>*1980                                                                     | 360<br>790                                                                        |                                                                                     |                                                                                     | *740<br>*1630                                                                       | 320<br>710                                                                          | 3.78<br>(12.4) |
| -0.5 m<br>(-1.6 ft)   | kg<br>lb | *2020<br>*4450                                                                    | 810<br>1790                                                                       | *1450<br>*3200                                                                    | 570<br>1260                                                                       | *1100<br>*2430                                                                    | 440<br>970                                                                        | *850<br>*1870                                                                     | 360<br>790                                                                        |                                                                                     |                                                                                     | *820<br>*1810                                                                       | 350<br>770                                                                          | 3.56<br>(11.7) |
| -1.0 m<br>(-3.3 ft)   | kg<br>lb | *1770<br>*3900                                                                    | 820<br>1810                                                                       | *1300<br>*2870                                                                    | 580<br>1280                                                                       | *970<br>*2140                                                                     | 440<br>970                                                                        |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *840<br>*1850                                                                       | 410<br>900                                                                          | 3.21<br>(10.5) |
| -1.5 m<br>(-4.9 ft)   | kg<br>lb | *1330<br>*2930                                                                    | 830<br>1830                                                                       | *950<br>*2090                                                                     | 590<br>1300                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *830<br>*1830                                                                       | 540<br>1190                                                                         | 2.66<br>(8.7)  |

| Model    | Type   | Boom        | Arm         | Counterweight | Shoe       | Wheel      | Dozer |      | Outtriger |      |
|----------|--------|-------------|-------------|---------------|------------|------------|-------|------|-----------|------|
| R30Z-9AK | Canopy | Length [mm] | Length [mm] | weight [kg]   | width [mm] | width [mm] | Front | Rear | Front     | Rear |
|          |        | 2030        | 1120        | 220           | 250        | -          | Up    | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree

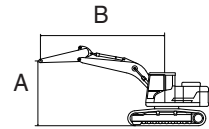


| Lift-point height (A) |          | Lift-point radius (B)                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | At max. reach                                                                       |                                                                                     |                |
|-----------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|
|                       |          | 2.0 m (6.6 ft)                                                                    |                                                                                   | 2.5 m (8.2 ft)                                                                    |                                                                                   | 3.0 m (9.8 ft)                                                                    |                                                                                   | 3.5 m (11.5 ft)                                                                   |                                                                                   | 4.0 m (13.1 ft)                                                                     |                                                                                     | Capacity                                                                            |                                                                                     | Reach          |
|                       |          |  |  |  |  |  |  |  |  |  |  |  |  | m (ft)         |
| 3.5 m<br>(11.5 ft)    | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 660<br>1460                                                                         | 530<br>1170                                                                         | 2.64<br>(8.6)  |
| 3.0 m<br>(9.8 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 530<br>1170                                                                       | 430<br>950                                                                        |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 480<br>1060                                                                         | 380<br>840                                                                          | 3.20<br>(10.5) |
| 2.5 m<br>(8.2 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 530<br>1170                                                                       | 430<br>950                                                                        | 410<br>900                                                                        | 330<br>730                                                                        |                                                                                     |                                                                                     | 400<br>880                                                                          | 320<br>710                                                                          | 3.55<br>(11.7) |
| 2.0 m<br>(6.6 ft)     | kg<br>lb |                                                                                   |                                                                                   | 710<br>1570                                                                       | 560<br>1230                                                                       | 520<br>1150                                                                       | 420<br>930                                                                        | 400<br>880                                                                        | 320<br>710                                                                        |                                                                                     |                                                                                     | 350<br>770                                                                          | 280<br>620                                                                          | 3.78<br>(12.4) |
| 1.5 m<br>(4.9 ft)     | kg<br>lb |                                                                                   |                                                                                   | 680<br>1500                                                                       | 530<br>1170                                                                       | 510<br>1120                                                                       | 400<br>880                                                                        | 400<br>880                                                                        | 320<br>710                                                                        |                                                                                     |                                                                                     | 330<br>730                                                                          | 260<br>570                                                                          | 3.91<br>(12.8) |
| 1.0 m<br>(3.3 ft)     | kg<br>lb |                                                                                   |                                                                                   | 650<br>1430                                                                       | 510<br>1120                                                                       | 490<br>1080                                                                       | 390<br>860                                                                        | 390<br>860                                                                        | 310<br>680                                                                        |                                                                                     |                                                                                     | 320<br>710                                                                          | 260<br>570                                                                          | 3.95<br>(13.0) |
| 0.5 m<br>(1.6 ft)     | kg<br>lb |                                                                                   |                                                                                   | 630<br>1390                                                                       | 490<br>1080                                                                       | 480<br>1060                                                                       | 380<br>840                                                                        | 380<br>840                                                                        | 300<br>660                                                                        |                                                                                     |                                                                                     | 320<br>710                                                                          | 260<br>570                                                                          | 3.91<br>(12.8) |
| Ground<br>Line        | kg<br>lb | 890<br>1960                                                                       | 670<br>1480                                                                       | 620<br>1370                                                                       | 480<br>1060                                                                       | 470<br>1040                                                                       | 370<br>820                                                                        | 380<br>840                                                                        | 300<br>660                                                                        |                                                                                     |                                                                                     | 340<br>750                                                                          | 270<br>600                                                                          | 3.78<br>(12.4) |
| -0.5 m<br>(-1.6 ft)   | kg<br>lb | 890<br>1960                                                                       | 670<br>1480                                                                       | 620<br>1370                                                                       | 480<br>1060                                                                       | 470<br>1040                                                                       | 370<br>820                                                                        | 370<br>820                                                                        | 300<br>660                                                                        |                                                                                     |                                                                                     | 370<br>820                                                                          | 290<br>640                                                                          | 3.56<br>(11.7) |
| -1.0 m<br>(-3.3 ft)   | kg<br>lb | 900<br>1980                                                                       | 680<br>1500                                                                       | 620<br>1370                                                                       | 480<br>1060                                                                       | 470<br>1040                                                                       | 370<br>820                                                                        |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 430<br>950                                                                          | 340<br>750                                                                          | 3.21<br>(10.5) |
| -1.5 m<br>(-4.9 ft)   | kg<br>lb | 920<br>2030                                                                       | 700<br>1540                                                                       | 630<br>1390                                                                       | 490<br>1080                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 580<br>1280                                                                         | 450<br>990                                                                          | 2.66<br>(8.7)  |

| Model    | Type  | Boom        | Arm         | Counterweight | Shoe       | Wheel      | Dozer |      | Outtriger |      |
|----------|-------|-------------|-------------|---------------|------------|------------|-------|------|-----------|------|
| R30Z-9AK | Cabin | Length [mm] | Length [mm] | weight [kg]   | width [mm] | width [mm] | Front | Rear | Front     | Rear |
|          |       | 2030        | 1120        | 220           | 250        | -          | Up    | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree

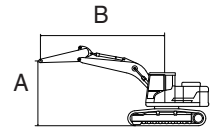


| Lift-point height (A) |    | Lift-point radius (B)                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | At max. reach                                                                       |                                                                                     |        |
|-----------------------|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|
|                       |    | 2.0 m (6.6 ft)                                                                    |                                                                                   | 2.5 m (8.2 ft)                                                                    |                                                                                   | 3.0 m (9.8 ft)                                                                    |                                                                                   | 3.5 m (11.5 ft)                                                                   |                                                                                   | 4.0 m (13.1 ft)                                                                     |                                                                                     | Capacity                                                                            |                                                                                     | Reach  |
|                       |    |  |  |  |  |  |  |  |  |  |  |  |  | m (ft) |
| 3.5 m                 | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *720                                                                                | 580                                                                                 | 2.64   |
| (11.5 ft)             | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *1590                                                                               | 1280                                                                                | (8.6)  |
| 3.0 m                 | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 590                                                                               | 470                                                                               |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 530                                                                                 | 420                                                                                 | 3.20   |
| (9.8 ft)              | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 1300                                                                              | 1040                                                                              |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 1170                                                                                | 930                                                                                 | (10.5) |
| 2.5 m                 | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 590                                                                               | 470                                                                               | 450                                                                               | 360                                                                               |                                                                                     |                                                                                     | 440                                                                                 | 350                                                                                 | 3.55   |
| (8.2 ft)              | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 1300                                                                              | 1040                                                                              | 990                                                                               | 790                                                                               |                                                                                     |                                                                                     | 970                                                                                 | 770                                                                                 | (11.7) |
| 2.0 m                 | kg |                                                                                   |                                                                                   | 780                                                                               | 620                                                                               | 580                                                                               | 460                                                                               | 450                                                                               | 360                                                                               |                                                                                     |                                                                                     | 390                                                                                 | 320                                                                                 | 3.78   |
| (6.6 ft)              | lb |                                                                                   |                                                                                   | 1720                                                                              | 1370                                                                              | 1280                                                                              | 1010                                                                              | 990                                                                               | 790                                                                               |                                                                                     |                                                                                     | 860                                                                                 | 710                                                                                 | (12.4) |
| 1.5 m                 | kg |                                                                                   |                                                                                   | 750                                                                               | 590                                                                               | 560                                                                               | 450                                                                               | 440                                                                               | 350                                                                               |                                                                                     |                                                                                     | 370                                                                                 | 300                                                                                 | 3.91   |
| (4.9 ft)              | lb |                                                                                   |                                                                                   | 1650                                                                              | 1300                                                                              | 1230                                                                              | 990                                                                               | 970                                                                               | 770                                                                               |                                                                                     |                                                                                     | 820                                                                                 | 660                                                                                 | (12.8) |
| 1.0 m                 | kg |                                                                                   |                                                                                   | 720                                                                               | 560                                                                               | 550                                                                               | 430                                                                               | 430                                                                               | 340                                                                               |                                                                                     |                                                                                     | 360                                                                                 | 290                                                                                 | 3.95   |
| (3.3 ft)              | lb |                                                                                   |                                                                                   | 1590                                                                              | 1230                                                                              | 1210                                                                              | 950                                                                               | 950                                                                               | 750                                                                               |                                                                                     |                                                                                     | 790                                                                                 | 640                                                                                 | (13.0) |
| 0.5 m                 | kg |                                                                                   |                                                                                   | 700                                                                               | 540                                                                               | 530                                                                               | 420                                                                               | 420                                                                               | 340                                                                               |                                                                                     |                                                                                     | 360                                                                                 | 290                                                                                 | 3.91   |
| (1.6 ft)              | lb |                                                                                   |                                                                                   | 1540                                                                              | 1190                                                                              | 1170                                                                              | 930                                                                               | 930                                                                               | 750                                                                               |                                                                                     |                                                                                     | 790                                                                                 | 640                                                                                 | (12.8) |
| Ground Line           | kg | 990                                                                               | 750                                                                               | 690                                                                               | 530                                                                               | 530                                                                               | 410                                                                               | 420                                                                               | 330                                                                               |                                                                                     |                                                                                     | 380                                                                                 | 300                                                                                 | 3.78   |
|                       | lb | 2180                                                                              | 1650                                                                              | 1520                                                                              | 1170                                                                              | 1170                                                                              | 900                                                                               | 930                                                                               | 730                                                                               |                                                                                     |                                                                                     | 840                                                                                 | 660                                                                                 | (12.4) |
| -0.5 m                | kg | 990                                                                               | 750                                                                               | 690                                                                               | 530                                                                               | 520                                                                               | 410                                                                               | 420                                                                               | 330                                                                               |                                                                                     |                                                                                     | 410                                                                                 | 320                                                                                 | 3.56   |
| (-1.6 ft)             | lb | 2180                                                                              | 1650                                                                              | 1520                                                                              | 1170                                                                              | 1150                                                                              | 900                                                                               | 930                                                                               | 730                                                                               |                                                                                     |                                                                                     | 900                                                                                 | 710                                                                                 | (11.7) |
| -1.0 m                | kg | 1000                                                                              | 760                                                                               | 690                                                                               | 540                                                                               | 530                                                                               | 410                                                                               |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 480                                                                                 | 380                                                                                 | 3.21   |
| (-3.3 ft)             | lb | 2200                                                                              | 1680                                                                              | 1520                                                                              | 1190                                                                              | 1170                                                                              | 900                                                                               |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 1060                                                                                | 840                                                                                 | (10.5) |
| -1.5 m                | kg | 1020                                                                              | 770                                                                               | 710                                                                               | 550                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 640                                                                                 | 500                                                                                 | 2.66   |
| (-4.9 ft)             | lb | 2250                                                                              | 1700                                                                              | 1570                                                                              | 1210                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 1410                                                                                | 1100                                                                                | (8.7)  |

| Model    | Type   | Boom        | Arm         | Counterweight | Shoe       | Wheel      | Dozer |      | Outtriger |      |
|----------|--------|-------------|-------------|---------------|------------|------------|-------|------|-----------|------|
| R30Z-9AK | Canopy | Length [mm] | Length [mm] | weight [kg]   | width [mm] | width [mm] | Front | Rear | Front     | Rear |
|          |        | 2030        | 1120        | 350           | 250        | -          | Down  | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree

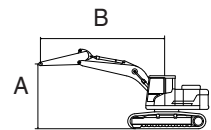


| Lift-point height (A) |          | Lift-point radius (B)                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | At max. reach                                                                       |                                                                                     |                |
|-----------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|
|                       |          | 2.0 m (6.6 ft)                                                                    |                                                                                   | 2.5 m (8.2 ft)                                                                    |                                                                                   | 3.0 m (9.8 ft)                                                                    |                                                                                   | 3.5 m (11.5 ft)                                                                   |                                                                                   | 4.0 m (13.1 ft)                                                                     |                                                                                     | Capacity                                                                            |                                                                                     | Reach          |
|                       |          |  |  |  |  |  |  |  |  |  |  |  |  | m (ft)         |
| 3.5 m<br>(11.5 ft)    | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *720<br>*1590                                                                       | 630<br>1390                                                                         | 2.64<br>(8.6)  |
| 3.0 m<br>(9.8 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *690<br>*1520                                                                     | 520<br>1150                                                                       |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *620<br>*1370                                                                       | 470<br>1040                                                                         | 3.20<br>(10.5) |
| 2.5 m<br>(8.2 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *690<br>*1520                                                                     | 520<br>1150                                                                       | *700<br>*1540                                                                     | 400<br>880                                                                        |                                                                                     |                                                                                     | *580<br>*1280                                                                       | 390<br>860                                                                          | 3.55<br>(11.7) |
| 2.0 m<br>(6.6 ft)     | kg<br>lb |                                                                                   |                                                                                   | *830<br>*1830                                                                     | 680<br>1500                                                                       | *760<br>*1680                                                                     | 510<br>1120                                                                       | *720<br>*1590                                                                     | 400<br>880                                                                        |                                                                                     |                                                                                     | *570<br>*1260                                                                       | 350<br>770                                                                          | 3.78<br>(12.4) |
| 1.5 m<br>(4.9 ft)     | kg<br>lb |                                                                                   |                                                                                   | *1060<br>*2340                                                                    | 650<br>1430                                                                       | *870<br>*1920                                                                     | 490<br>1080                                                                       | *780<br>*1720                                                                     | 390<br>860                                                                        |                                                                                     |                                                                                     | *580<br>*1280                                                                       | 330<br>730                                                                          | 3.91<br>(12.8) |
| 1.0 m<br>(3.3 ft)     | kg<br>lb |                                                                                   |                                                                                   | *1300<br>*2870                                                                    | 630<br>1390                                                                       | *990<br>*2180                                                                     | 480<br>1060                                                                       | *840<br>*1850                                                                     | 380<br>840                                                                        |                                                                                     |                                                                                     | *600<br>*1320                                                                       | 320<br>710                                                                          | 3.95<br>(13.0) |
| 0.5 m<br>(1.6 ft)     | kg<br>lb |                                                                                   |                                                                                   | *1450<br>*3200                                                                    | 610<br>1340                                                                       | *1090<br>*2400                                                                    | 470<br>1040                                                                       | *890<br>*1960                                                                     | 370<br>820                                                                        |                                                                                     |                                                                                     | *650<br>*1430                                                                       | 320<br>710                                                                          | 3.91<br>(12.8) |
| Ground<br>Line        | kg<br>lb | *1550<br>*3420                                                                    | 840<br>1850                                                                       | *1500<br>*3310                                                                    | 600<br>1320                                                                       | *1130<br>*2490                                                                    | 460<br>1010                                                                       | *900<br>*1980                                                                     | 370<br>820                                                                        |                                                                                     |                                                                                     | *740<br>*1630                                                                       | 330<br>730                                                                          | 3.78<br>(12.4) |
| -0.5 m<br>(-1.6 ft)   | kg<br>lb | *2020<br>*4450                                                                    | 840<br>1850                                                                       | *1450<br>*3200                                                                    | 590<br>1300                                                                       | *1100<br>*2430                                                                    | 460<br>1010                                                                       | *850<br>*1870                                                                     | 370<br>820                                                                        |                                                                                     |                                                                                     | *820<br>*1810                                                                       | 360<br>790                                                                          | 3.56<br>(11.7) |
| -1.0 m<br>(-3.3 ft)   | kg<br>lb | *1770<br>*3900                                                                    | 850<br>1870                                                                       | *1300<br>*2870                                                                    | 600<br>1320                                                                       | *970<br>*2140                                                                     | 460<br>1010                                                                       |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *840<br>*1850                                                                       | 420<br>930                                                                          | 3.21<br>(10.5) |
| -1.5 m<br>(-4.9 ft)   | kg<br>lb | *1330<br>*2930                                                                    | 860<br>1900                                                                       | *950<br>*2090                                                                     | 610<br>1340                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *830<br>*1830                                                                       | 560<br>1230                                                                         | 2.66<br>(8.7)  |

| Model    | Type  | Boom        | Arm         | Counterweight | Shoe       | Wheel      | Dozer |      | Outtriger |      |
|----------|-------|-------------|-------------|---------------|------------|------------|-------|------|-----------|------|
| R30Z-9AK | Cabin | Length [mm] | Length [mm] | weight [kg]   | width [mm] | width [mm] | Front | Rear | Front     | Rear |
|          |       | 2030        | 1120        | 350           | 250        | -          | Down  | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree

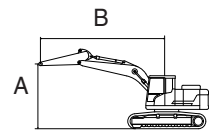


| Lift-point height (A) |    | Lift-point radius (B)                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | At max. reach                                                                       |                                                                                     |        |
|-----------------------|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|
|                       |    | 2.0 m (6.6 ft)                                                                    |                                                                                   | 2.5 m (8.2 ft)                                                                    |                                                                                   | 3.0 m (9.8 ft)                                                                    |                                                                                   | 3.5 m (11.5 ft)                                                                   |                                                                                   | 4.0 m (13.1 ft)                                                                     |                                                                                     | Capacity                                                                            |                                                                                     | Reach  |
|                       |    |  |  |  |  |  |  |  |  |  |  |  |  | m (ft) |
| 3.5 m                 | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *720                                                                                | 690                                                                                 | 2.64   |
| (11.5 ft)             | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *1590                                                                               | 1520                                                                                | (8.6)  |
| 3.0 m                 | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *690                                                                              | 570                                                                               |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *620                                                                                | 510                                                                                 | 3.20   |
| (9.8 ft)              | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *1520                                                                             | 1260                                                                              |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *1370                                                                               | 1120                                                                                | (10.5) |
| 2.5 m                 | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *690                                                                              | 560                                                                               | *700                                                                              | 440                                                                               |                                                                                     |                                                                                     | *580                                                                                | 430                                                                                 | 3.55   |
| (8.2 ft)              | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *1520                                                                             | 1230                                                                              | *1540                                                                             | 970                                                                               |                                                                                     |                                                                                     | *1280                                                                               | 950                                                                                 | (11.7) |
| 2.0 m                 | kg |                                                                                   |                                                                                   | *830                                                                              | 740                                                                               | *760                                                                              | 550                                                                               | *720                                                                              | 440                                                                               |                                                                                     |                                                                                     | *570                                                                                | 380                                                                                 | 3.78   |
| (6.6 ft)              | lb |                                                                                   |                                                                                   | *1830                                                                             | 1630                                                                              | *1680                                                                             | 1210                                                                              | *1590                                                                             | 970                                                                               |                                                                                     |                                                                                     | *1260                                                                               | 840                                                                                 | (12.4) |
| 1.5 m                 | kg |                                                                                   |                                                                                   | *1060                                                                             | 710                                                                               | *870                                                                              | 540                                                                               | *780                                                                              | 430                                                                               |                                                                                     |                                                                                     | *580                                                                                | 360                                                                                 | 3.91   |
| (4.9 ft)              | lb |                                                                                   |                                                                                   | *2340                                                                             | 1570                                                                              | *1920                                                                             | 1190                                                                              | *1720                                                                             | 950                                                                               |                                                                                     |                                                                                     | *1280                                                                               | 790                                                                                 | (12.8) |
| 1.0 m                 | kg |                                                                                   |                                                                                   | *1300                                                                             | 680                                                                               | *990                                                                              | 530                                                                               | *840                                                                              | 420                                                                               |                                                                                     |                                                                                     | *600                                                                                | 350                                                                                 | 3.95   |
| (3.3 ft)              | lb |                                                                                   |                                                                                   | *2870                                                                             | 1500                                                                              | *2180                                                                             | 1170                                                                              | *1850                                                                             | 930                                                                               |                                                                                     |                                                                                     | *1320                                                                               | 770                                                                                 | (13.0) |
| 0.5 m                 | kg |                                                                                   |                                                                                   | *1450                                                                             | 660                                                                               | *1090                                                                             | 510                                                                               | *890                                                                              | 410                                                                               |                                                                                     |                                                                                     | *650                                                                                | 350                                                                                 | 3.91   |
| (1.6 ft)              | lb |                                                                                   |                                                                                   | *3200                                                                             | 1460                                                                              | *2400                                                                             | 1120                                                                              | *1960                                                                             | 900                                                                               |                                                                                     |                                                                                     | *1430                                                                               | 770                                                                                 | (12.8) |
| Ground Line           | kg | *1550                                                                             | 920                                                                               | *1500                                                                             | 650                                                                               | *1130                                                                             | 510                                                                               | *900                                                                              | 410                                                                               |                                                                                     |                                                                                     | *740                                                                                | 370                                                                                 | 3.78   |
|                       | lb | *3420                                                                             | 2030                                                                              | *3310                                                                             | 1430                                                                              | *2490                                                                             | 1120                                                                              | *1980                                                                             | 900                                                                               |                                                                                     |                                                                                     | *1630                                                                               | 820                                                                                 | (12.4) |
| -0.5 m                | kg | *2020                                                                             | 920                                                                               | *1450                                                                             | 650                                                                               | *1100                                                                             | 500                                                                               | *850                                                                              | 410                                                                               |                                                                                     |                                                                                     | *820                                                                                | 400                                                                                 | 3.56   |
| (-1.6 ft)             | lb | *4450                                                                             | 2030                                                                              | *3200                                                                             | 1430                                                                              | *2430                                                                             | 1100                                                                              | *1870                                                                             | 900                                                                               |                                                                                     |                                                                                     | *1810                                                                               | 880                                                                                 | (11.7) |
| -1.0 m                | kg | *1770                                                                             | 930                                                                               | *1300                                                                             | 660                                                                               | *970                                                                              | 510                                                                               |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *840                                                                                | 460                                                                                 | 3.21   |
| (-3.3 ft)             | lb | *3900                                                                             | 2050                                                                              | *2870                                                                             | 1460                                                                              | *2140                                                                             | 1120                                                                              |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *1850                                                                               | 1010                                                                                | (10.5) |
| -1.5 m                | kg | *1330                                                                             | 940                                                                               | *950                                                                              | 670                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *830                                                                                | 610                                                                                 | 2.66   |
| (-4.9 ft)             | lb | *2930                                                                             | 2070                                                                              | *2090                                                                             | 1480                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *1830                                                                               | 1340                                                                                | (8.7)  |

| Model    | Type   | Boom        | Arm         | Counterweight | Shoe       | Wheel      | Dozer |      | Outtriger |      |
|----------|--------|-------------|-------------|---------------|------------|------------|-------|------|-----------|------|
| R30Z-9AK | Canopy | Length [mm] | Length [mm] | weight [kg]   | width [mm] | width [mm] | Front | Rear | Front     | Rear |
|          |        | 2030        | 1120        | 350           | 250        | -          | Up    | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree

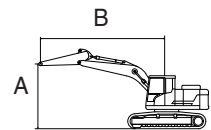


| Lift-point height (A) |          | Lift-point radius (B)                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | At max. reach                                                                       |                                                                                     |                |
|-----------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|
|                       |          | 2.0 m (6.6 ft)                                                                    |                                                                                   | 2.5 m (8.2 ft)                                                                    |                                                                                   | 3.0 m (9.8 ft)                                                                    |                                                                                   | 3.5 m (11.5 ft)                                                                   |                                                                                   | 4.0 m (13.1 ft)                                                                     |                                                                                     | Capacity                                                                            |                                                                                     | Reach          |
|                       |          |  |  |  |  |  |  |  |  |  |  |  |  | m (ft)         |
| 3.5 m<br>(11.5 ft)    | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *720<br>*1590                                                                       | 600<br>1320                                                                         | 2.64<br>(8.6)  |
| 3.0 m<br>(9.8 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 600<br>1320                                                                       | 490<br>1080                                                                       |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 540<br>1190                                                                         | 440<br>970                                                                          | 3.20<br>(10.5) |
| 2.5 m<br>(8.2 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 600<br>1320                                                                       | 490<br>1080                                                                       | 460<br>1010                                                                       | 380<br>840                                                                        |                                                                                     |                                                                                     | 450<br>990                                                                          | 370<br>820                                                                          | 3.55<br>(11.7) |
| 2.0 m<br>(6.6 ft)     | kg<br>lb |                                                                                   |                                                                                   | 800<br>1760                                                                       | 640<br>1410                                                                       | 590<br>1300                                                                       | 480<br>1060                                                                       | 460<br>1010                                                                       | 370<br>820                                                                        |                                                                                     |                                                                                     | 410<br>900                                                                          | 330<br>730                                                                          | 3.78<br>(12.4) |
| 1.5 m<br>(4.9 ft)     | kg<br>lb |                                                                                   |                                                                                   | 770<br>1700                                                                       | 610<br>1340                                                                       | 580<br>1280                                                                       | 460<br>1010                                                                       | 450<br>990                                                                        | 370<br>820                                                                        |                                                                                     |                                                                                     | 380<br>840                                                                          | 310<br>680                                                                          | 3.91<br>(12.8) |
| 1.0 m<br>(3.3 ft)     | kg<br>lb |                                                                                   |                                                                                   | 740<br>1630                                                                       | 580<br>1280                                                                       | 560<br>1230                                                                       | 450<br>990                                                                        | 450<br>990                                                                        | 360<br>790                                                                        |                                                                                     |                                                                                     | 370<br>820                                                                          | 300<br>660                                                                          | 3.95<br>(13.0) |
| 0.5 m<br>(1.6 ft)     | kg<br>lb |                                                                                   |                                                                                   | 720<br>1590                                                                       | 570<br>1260                                                                       | 550<br>1210                                                                       | 440<br>970                                                                        | 440<br>970                                                                        | 350<br>770                                                                        |                                                                                     |                                                                                     | 370<br>820                                                                          | 300<br>660                                                                          | 3.91<br>(12.8) |
| Ground<br>Line        | kg<br>lb | 1020<br>2250                                                                      | 780<br>1720                                                                       | 710<br>1570                                                                       | 560<br>1230                                                                       | 540<br>1190                                                                       | 430<br>950                                                                        | 430<br>950                                                                        | 350<br>770                                                                        |                                                                                     |                                                                                     | 390<br>860                                                                          | 310<br>680                                                                          | 3.78<br>(12.4) |
| -0.5 m<br>(-1.6 ft)   | kg<br>lb | 1020<br>2250                                                                      | 780<br>1720                                                                       | 710<br>1570                                                                       | 550<br>1210                                                                       | 540<br>1190                                                                       | 430<br>950                                                                        | 430<br>950                                                                        | 350<br>770                                                                        |                                                                                     |                                                                                     | 420<br>930                                                                          | 340<br>750                                                                          | 3.56<br>(11.7) |
| -1.0 m<br>(-3.3 ft)   | kg<br>lb | 1030<br>2270                                                                      | 790<br>1740                                                                       | 710<br>1570                                                                       | 560<br>1230                                                                       | 540<br>1190                                                                       | 430<br>950                                                                        |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 490<br>1080                                                                         | 390<br>860                                                                          | 3.21<br>(10.5) |
| -1.5 m<br>(-4.9 ft)   | kg<br>lb | 1050<br>2310                                                                      | 800<br>1760                                                                       | 730<br>1610                                                                       | 570<br>1260                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 660<br>1460                                                                         | 520<br>1150                                                                         | 2.66<br>(8.7)  |

| Model    | Type  | Boom        | Arm         | Counterweight | Shoe       | Wheel      | Dozer |      | Outtriger |      |
|----------|-------|-------------|-------------|---------------|------------|------------|-------|------|-----------|------|
| R30Z-9AK | Cabin | Length [mm] | Length [mm] | weight [kg]   | width [mm] | width [mm] | Front | Rear | Front     | Rear |
|          |       | 2030        | 1120        | 350           | 250        | -          | Up    | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree

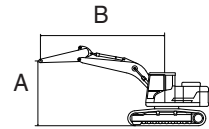


| Lift-point height (A) |          | Lift-point radius (B)                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | At max. reach                                                                       |                                                                                     |                |
|-----------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|
|                       |          | 2.0 m (6.6 ft)                                                                    |                                                                                   | 2.5 m (8.2 ft)                                                                    |                                                                                   | 3.0 m (9.8 ft)                                                                    |                                                                                   | 3.5 m (11.5 ft)                                                                   |                                                                                   | 4.0 m (13.1 ft)                                                                     |                                                                                     | Capacity                                                                            |                                                                                     | Reach          |
|                       |          |  |  |  |  |  |  |  |  |  |  |  |  | m (ft)         |
| 3.5 m<br>(11.5 ft)    | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *720<br>*1590                                                                       | 650<br>1430                                                                         | 2.64<br>(8.6)  |
| 3.0 m<br>(9.8 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 660<br>1460                                                                       | 530<br>1170                                                                       |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 590<br>1300                                                                         | 480<br>1060                                                                         | 3.20<br>(10.5) |
| 2.5 m<br>(8.2 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 660<br>1460                                                                       | 530<br>1170                                                                       | 510<br>1120                                                                       | 410<br>900                                                                        |                                                                                     |                                                                                     | 500<br>1100                                                                         | 400<br>880                                                                          | 3.55<br>(11.7) |
| 2.0 m<br>(6.6 ft)     | kg<br>lb |                                                                                   |                                                                                   | *830<br>*1830                                                                     | 690<br>1520                                                                       | 650<br>1430                                                                       | 520<br>1150                                                                       | 510<br>1120                                                                       | 410<br>900                                                                        |                                                                                     |                                                                                     | 450<br>990                                                                          | 360<br>790                                                                          | 3.78<br>(12.4) |
| 1.5 m<br>(4.9 ft)     | kg<br>lb |                                                                                   |                                                                                   | 840<br>1850                                                                       | 670<br>1480                                                                       | 630<br>1390                                                                       | 510<br>1120                                                                       | 500<br>1100                                                                       | 400<br>880                                                                        |                                                                                     |                                                                                     | 420<br>930                                                                          | 340<br>750                                                                          | 3.91<br>(12.8) |
| 1.0 m<br>(3.3 ft)     | kg<br>lb |                                                                                   |                                                                                   | 810<br>1790                                                                       | 640<br>1410                                                                       | 620<br>1370                                                                       | 490<br>1080                                                                       | 490<br>1080                                                                       | 390<br>860                                                                        |                                                                                     |                                                                                     | 410<br>900                                                                          | 330<br>730                                                                          | 3.95<br>(13.0) |
| 0.5 m<br>(1.6 ft)     | kg<br>lb |                                                                                   |                                                                                   | 790<br>1740                                                                       | 620<br>1370                                                                       | 600<br>1320                                                                       | 480<br>1060                                                                       | 480<br>1060                                                                       | 390<br>860                                                                        |                                                                                     |                                                                                     | 410<br>900                                                                          | 330<br>730                                                                          | 3.91<br>(12.8) |
| Ground<br>Line        | kg<br>lb | 1120<br>2470                                                                      | 850<br>1870                                                                       | 780<br>1720                                                                       | 610<br>1340                                                                       | 600<br>1320                                                                       | 470<br>1040                                                                       | 480<br>1060                                                                       | 380<br>840                                                                        |                                                                                     |                                                                                     | 430<br>950                                                                          | 340<br>750                                                                          | 3.78<br>(12.4) |
| -0.5 m<br>(-1.6 ft)   | kg<br>lb | 1120<br>2470                                                                      | 860<br>1900                                                                       | 780<br>1720                                                                       | 610<br>1340                                                                       | 590<br>1300                                                                       | 470<br>1040                                                                       | 480<br>1060                                                                       | 380<br>840                                                                        |                                                                                     |                                                                                     | 470<br>1040                                                                         | 370<br>820                                                                          | 3.56<br>(11.7) |
| -1.0 m<br>(-3.3 ft)   | kg<br>lb | 1130<br>2490                                                                      | 860<br>1900                                                                       | 780<br>1720                                                                       | 610<br>1340                                                                       | 600<br>1320                                                                       | 470<br>1040                                                                       |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 540<br>1190                                                                         | 430<br>950                                                                          | 3.21<br>(10.5) |
| -1.5 m<br>(-4.9 ft)   | kg<br>lb | 1150<br>2540                                                                      | 880<br>1940                                                                       | 800<br>1760                                                                       | 630<br>1390                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 730<br>1610                                                                         | 580<br>1280                                                                         | 2.66<br>(8.7)  |

| Model    | Type   | Boom        | Arm         | Counterweight | Shoe       | Wheel      | Dozer |      | Outtriger |      |
|----------|--------|-------------|-------------|---------------|------------|------------|-------|------|-----------|------|
| R30Z-9AK | Canopy | Length [mm] | Length [mm] | weight [kg]   | width [mm] | width [mm] | Front | Rear | Front     | Rear |
|          |        | 2030        | 1350        | 220           | 250        | -          | Down  | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree

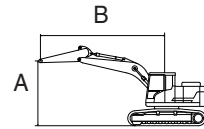


| Lift-point height (A) |    | Lift-point radius (B)                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | At max. reach                                                                       |                                                                                     |        |
|-----------------------|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|
|                       |    | 2.0 m (6.6 ft)                                                                    |                                                                                   | 2.5 m (8.2 ft)                                                                    |                                                                                   | 3.0 m (9.8 ft)                                                                    |                                                                                   | 3.5 m (11.5 ft)                                                                   |                                                                                   | 4.0 m (13.1 ft)                                                                     |                                                                                     | Capacity                                                                            |                                                                                     | Reach  |
|                       |    |  |  |  |  |  |  |  |  |  |  |  |  | m (ft) |
| 3.5 m                 | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *550                                                                                | 460                                                                                 | 2.99   |
| (11.5 ft)             | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *1210                                                                               | 1010                                                                                | (9.8)  |
| 3.0 m                 | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *490                                                                                | 360                                                                                 | 3.48   |
| (9.8 ft)              | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *1080                                                                               | 790                                                                                 | (11.4) |
| 2.5 m                 | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *590                                                                              | 460                                                                               | *620                                                                              | 350                                                                               |                                                                                     |                                                                                     | *470                                                                                | 300                                                                                 | 3.80   |
| (8.2 ft)              | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *1300                                                                             | 1010                                                                              | *1370                                                                             | 770                                                                               |                                                                                     |                                                                                     | *1040                                                                               | 660                                                                                 | (12.5) |
| 2.0 m                 | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *670                                                                              | 450                                                                               | *660                                                                              | 350                                                                               | *470                                                                                | 270                                                                                 | *460                                                                                | 270                                                                                 | 4.01   |
| (6.6 ft)              | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *1480                                                                             | 990                                                                               | *1460                                                                             | 770                                                                               | *1040                                                                               | 600                                                                                 | *1010                                                                               | 600                                                                                 | (13.1) |
| 1.5 m                 | kg | *1220                                                                             | 830                                                                               | *920                                                                              | 580                                                                               | *790                                                                              | 430                                                                               | *720                                                                              | 340                                                                               | *680                                                                                | 270                                                                                 | *470                                                                                | 260                                                                                 | 4.13   |
| (4.9 ft)              | lb | *2690                                                                             | 1830                                                                              | *2030                                                                             | 1280                                                                              | *1740                                                                             | 950                                                                               | *1590                                                                             | 750                                                                               | *1500                                                                               | 600                                                                                 | *1040                                                                               | 570                                                                                 | (13.5) |
| 1.0 m                 | kg |                                                                                   |                                                                                   | *1180                                                                             | 550                                                                               | *930                                                                              | 420                                                                               | *790                                                                              | 330                                                                               | *710                                                                                | 270                                                                                 | *480                                                                                | 250                                                                                 | 4.17   |
| (3.3 ft)              | lb |                                                                                   |                                                                                   | *2600                                                                             | 1210                                                                              | *2050                                                                             | 930                                                                               | *1740                                                                             | 730                                                                               | *1570                                                                               | 600                                                                                 | *1060                                                                               | 550                                                                                 | (13.7) |
| 0.5 m                 | kg | *1340                                                                             | 730                                                                               | *1380                                                                             | 530                                                                               | *1040                                                                             | 400                                                                               | *860                                                                              | 320                                                                               | *740                                                                                | 260                                                                                 | *520                                                                                | 250                                                                                 | 4.13   |
| (1.6 ft)              | lb | *2950                                                                             | 1610                                                                              | *3040                                                                             | 1170                                                                              | *2290                                                                             | 880                                                                               | *1900                                                                             | 710                                                                               | *1630                                                                               | 570                                                                                 | *1150                                                                               | 550                                                                                 | (13.5) |
| Ground Line           | kg | *1540                                                                             | 720                                                                               | *1480                                                                             | 510                                                                               | *1110                                                                             | 390                                                                               | *890                                                                              | 310                                                                               | *610                                                                                | 260                                                                                 | *580                                                                                | 260                                                                                 | 4.01   |
|                       | lb | *3400                                                                             | 1590                                                                              | *3260                                                                             | 1120                                                                              | *2450                                                                             | 860                                                                               | *1960                                                                             | 680                                                                               | *1340                                                                               | 570                                                                                 | *1280                                                                               | 570                                                                                 | (13.2) |
| -0.5 m                | kg | *2020                                                                             | 720                                                                               | *1480                                                                             | 510                                                                               | *1120                                                                             | 390                                                                               | *890                                                                              | 310                                                                               |                                                                                     |                                                                                     | *670                                                                                | 280                                                                                 | 3.80   |
| (-1.6 ft)             | lb | *4450                                                                             | 1590                                                                              | *3260                                                                             | 1120                                                                              | *2470                                                                             | 860                                                                               | *1960                                                                             | 680                                                                               |                                                                                     |                                                                                     | *1480                                                                               | 620                                                                                 | (12.5) |
| -1.0 m                | kg | *1920                                                                             | 720                                                                               | *1380                                                                             | 510                                                                               | *1040                                                                             | 390                                                                               |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *790                                                                                | 320                                                                                 | 3.49   |
| (-3.3 ft)             | lb | *4230                                                                             | 1590                                                                              | *3040                                                                             | 1120                                                                              | *2290                                                                             | 860                                                                               |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *1740                                                                               | 710                                                                                 | (11.4) |
| -1.5 m                | kg | *1570                                                                             | 730                                                                               | *1140                                                                             | 520                                                                               | *800                                                                              | 400                                                                               |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *800                                                                                | 400                                                                                 | 3.01   |
| (-4.9 ft)             | lb | *3460                                                                             | 1610                                                                              | *2510                                                                             | 1150                                                                              | *1760                                                                             | 880                                                                               |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *1760                                                                               | 880                                                                                 | (9.9)  |
| -2.0 m                | kg | *890                                                                              | 760                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *740                                                                                | 650                                                                                 | 2.21   |
| (-6.6 ft)             | lb | *1960                                                                             | 1680                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *1630                                                                               | 1430                                                                                | (7.2)  |

| Model    | Type  | Boom        | Arm         | Counterweight | Shoe       | Wheel      | Dozer |      | Outtriger |      |
|----------|-------|-------------|-------------|---------------|------------|------------|-------|------|-----------|------|
| R30Z-9AK | Cabin | Length [mm] | Length [mm] | weight [kg]   | width [mm] | width [mm] | Front | Rear | Front     | Rear |
|          |       | 2030        | 1350        | 220           | 250        | -          | Down  | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree

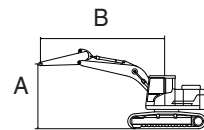


| Lift-point height (A) |          | Lift-point radius (B)                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | At max. reach                                                                       |                                                                                     |                |
|-----------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|
|                       |          | 2.0 m (6.6 ft)                                                                    |                                                                                   | 2.5 m (8.2 ft)                                                                    |                                                                                   | 3.0 m (9.8 ft)                                                                    |                                                                                   | 3.5 m (11.5 ft)                                                                   |                                                                                   | 4.0 m (13.1 ft)                                                                     |                                                                                     | Capacity                                                                            |                                                                                     | Reach          |
|                       |          |  |  |  |  |  |  |  |  |  |  |  |  | m (ft)         |
| 3.5 m<br>(11.5 ft)    | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *550<br>*1210                                                                       | 500<br>1100                                                                         | 2.99<br>(9.8)  |
| 3.0 m<br>(9.8 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *490<br>*1080                                                                       | 390<br>860                                                                          | 3.48<br>(11.4) |
| 2.5 m<br>(8.2 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *590<br>*1300                                                                     | 510<br>1120                                                                       | *620<br>*1370                                                                     | 390<br>860                                                                        |                                                                                     |                                                                                     | *470<br>*1040                                                                       | 340<br>750                                                                          | 3.80<br>(12.5) |
| 2.0 m<br>(6.6 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *670<br>*1480                                                                     | 500<br>1100                                                                       | *660<br>*1460                                                                     | 390<br>860                                                                        | *470<br>*1040                                                                       | 310<br>680                                                                          | *460<br>*1010                                                                       | 310<br>680                                                                          | 4.01<br>(13.1) |
| 1.5 m<br>(4.9 ft)     | kg<br>lb | *1220<br>*2690                                                                    | 910<br>2010                                                                       | *920<br>*2030                                                                     | 640<br>1410                                                                       | *790<br>*1740                                                                     | 480<br>1060                                                                       | *720<br>*1590                                                                     | 380<br>840                                                                        | *680<br>*1500                                                                       | 300<br>660                                                                          | *470<br>*1040                                                                       | 290<br>640                                                                          | 4.13<br>(13.5) |
| 1.0 m<br>(3.3 ft)     | kg<br>lb |                                                                                   |                                                                                   | *1180<br>*2600                                                                    | 610<br>1340                                                                       | *930<br>*2050                                                                     | 460<br>1010                                                                       | *790<br>*1740                                                                     | 370<br>820                                                                        | *710<br>*1570                                                                       | 300<br>660                                                                          | *480<br>*1060                                                                       | 280<br>620                                                                          | 4.17<br>(13.7) |
| 0.5 m<br>(1.6 ft)     | kg<br>lb | *1340<br>*2950                                                                    | 810<br>1790                                                                       | *1380<br>*3040                                                                    | 580<br>1280                                                                       | *1040<br>*2290                                                                    | 450<br>990                                                                        | *860<br>*1900                                                                     | 360<br>790                                                                        | *740<br>*1630                                                                       | 290<br>640                                                                          | *520<br>*1150                                                                       | 280<br>620                                                                          | 4.13<br>(13.5) |
| Ground<br>Line        | kg<br>lb | *1540<br>*3400                                                                    | 800<br>1760                                                                       | *1480<br>*3260                                                                    | 570<br>1260                                                                       | *1110<br>*2450                                                                    | 440<br>970                                                                        | *890<br>*1960                                                                     | 350<br>770                                                                        | *610<br>*1340                                                                       | 290<br>640                                                                          | *580<br>*1280                                                                       | 290<br>640                                                                          | 4.01<br>(13.2) |
| -0.5 m<br>(-1.6 ft)   | kg<br>lb | *2020<br>*4450                                                                    | 800<br>1760                                                                       | *1480<br>*3260                                                                    | 560<br>1230                                                                       | *1120<br>*2470                                                                    | 430<br>950                                                                        | *890<br>*1960                                                                     | 350<br>770                                                                        |                                                                                     |                                                                                     | *670<br>*1480                                                                       | 310<br>680                                                                          | 3.80<br>(12.5) |
| -1.0 m<br>(-3.3 ft)   | kg<br>lb | *1920<br>*4230                                                                    | 800<br>1760                                                                       | *1380<br>*3040                                                                    | 570<br>1260                                                                       | *1040<br>*2290                                                                    | 430<br>950                                                                        |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *790<br>*1740                                                                       | 350<br>770                                                                          | 3.49<br>(11.4) |
| -1.5 m<br>(-4.9 ft)   | kg<br>lb | *1570<br>*3460                                                                    | 810<br>1790                                                                       | *1140<br>*2510                                                                    | 570<br>1260                                                                       | *800<br>*1760                                                                     | 440<br>970                                                                        |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *800<br>*1760                                                                       | 440<br>970                                                                          | 3.01<br>(9.9)  |
| -2.0 m<br>(-6.6 ft)   | kg<br>lb | *890<br>*1960                                                                     | 840<br>1850                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *740<br>*1630                                                                       | 720<br>1590                                                                         | 2.21<br>(7.2)  |

| Model    | Type   | Boom        | Arm         | Counterweight | Shoe       | Wheel      | Dozer |      | Outtriger |      |
|----------|--------|-------------|-------------|---------------|------------|------------|-------|------|-----------|------|
| R30Z-9AK | Canopy | Length [mm] | Length [mm] | weight [kg]   | width [mm] | width [mm] | Front | Rear | Front     | Rear |
|          |        | 2030        | 1350        | 220           | 250        | -          | Up    | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree

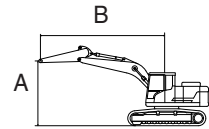


| Lift-point height (A) |    | Lift-point radius (B)                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | At max. reach                                                                       |                                                                                     |        |
|-----------------------|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|
|                       |    | 2.0 m (6.6 ft)                                                                    |                                                                                   | 2.5 m (8.2 ft)                                                                    |                                                                                   | 3.0 m (9.8 ft)                                                                    |                                                                                   | 3.5 m (11.5 ft)                                                                   |                                                                                   | 4.0 m (13.1 ft)                                                                     |                                                                                     | Capacity                                                                            |                                                                                     | Reach  |
|                       |    |  |  |  |  |  |  |  |  |  |  |  |  | m (ft) |
| 3.5 m                 | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 530                                                                                 | 430                                                                                 | 2.99   |
| (11.5 ft)             | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 1170                                                                                | 950                                                                                 | (9.8)  |
| 3.0 m                 | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 410                                                                                 | 330                                                                                 | 3.48   |
| (9.8 ft)              | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 900                                                                                 | 730                                                                                 | (11.4) |
| 2.5 m                 | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 540                                                                               | 430                                                                               | 410                                                                               | 330                                                                               |                                                                                     |                                                                                     | 350                                                                                 | 280                                                                                 | 3.80   |
| (8.2 ft)              | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 1190                                                                              | 950                                                                               | 900                                                                               | 730                                                                               |                                                                                     |                                                                                     | 770                                                                                 | 620                                                                                 | (12.5) |
| 2.0 m                 | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 530                                                                               | 420                                                                               | 410                                                                               | 330                                                                               | 320                                                                                 | 260                                                                                 | 320                                                                                 | 260                                                                                 | 4.01   |
| (6.6 ft)              | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 1170                                                                              | 930                                                                               | 900                                                                               | 730                                                                               | 710                                                                                 | 570                                                                                 | 710                                                                                 | 570                                                                                 | (13.1) |
| 1.5 m                 | kg | 1010                                                                              | 780                                                                               | 690                                                                               | 540                                                                               | 510                                                                               | 410                                                                               | 400                                                                               | 320                                                                               | 320                                                                                 | 250                                                                                 | 300                                                                                 | 240                                                                                 | 4.13   |
| (4.9 ft)              | lb | 2230                                                                              | 1720                                                                              | 1520                                                                              | 1190                                                                              | 1120                                                                              | 900                                                                               | 880                                                                               | 710                                                                               | 710                                                                                 | 550                                                                                 | 660                                                                                 | 530                                                                                 | (13.5) |
| 1.0 m                 | kg |                                                                                   |                                                                                   | 660                                                                               | 510                                                                               | 490                                                                               | 390                                                                               | 390                                                                               | 310                                                                               | 310                                                                                 | 250                                                                                 | 290                                                                                 | 230                                                                                 | 4.17   |
| (3.3 ft)              | lb |                                                                                   |                                                                                   | 1460                                                                              | 1120                                                                              | 1080                                                                              | 860                                                                               | 860                                                                               | 680                                                                               | 680                                                                                 | 550                                                                                 | 640                                                                                 | 510                                                                                 | (13.7) |
| 0.5 m                 | kg | 900                                                                               | 680                                                                               | 630                                                                               | 490                                                                               | 480                                                                               | 380                                                                               | 380                                                                               | 300                                                                               | 310                                                                                 | 240                                                                                 | 290                                                                                 | 230                                                                                 | 4.13   |
| (1.6 ft)              | lb | 1980                                                                              | 1500                                                                              | 1390                                                                              | 1080                                                                              | 1060                                                                              | 840                                                                               | 840                                                                               | 660                                                                               | 680                                                                                 | 530                                                                                 | 640                                                                                 | 510                                                                                 | (13.5) |
| Ground Line           | kg | 880                                                                               | 660                                                                               | 610                                                                               | 470                                                                               | 470                                                                               | 360                                                                               | 370                                                                               | 290                                                                               | 300                                                                                 | 240                                                                                 | 300                                                                                 | 240                                                                                 | 4.01   |
|                       | lb | 1940                                                                              | 1460                                                                              | 1340                                                                              | 1040                                                                              | 1040                                                                              | 790                                                                               | 820                                                                               | 640                                                                               | 660                                                                                 | 530                                                                                 | 660                                                                                 | 530                                                                                 | (13.2) |
| -0.5 m                | kg | 880                                                                               | 660                                                                               | 610                                                                               | 470                                                                               | 460                                                                               | 360                                                                               | 370                                                                               | 290                                                                               |                                                                                     |                                                                                     | 330                                                                                 | 260                                                                                 | 3.80   |
| (-1.6 ft)             | lb | 1940                                                                              | 1460                                                                              | 1340                                                                              | 1040                                                                              | 1010                                                                              | 790                                                                               | 820                                                                               | 640                                                                               |                                                                                     |                                                                                     | 730                                                                                 | 570                                                                                 | (12.5) |
| -1.0 m                | kg | 890                                                                               | 670                                                                               | 610                                                                               | 470                                                                               | 460                                                                               | 360                                                                               |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 370                                                                                 | 290                                                                                 | 3.49   |
| (-3.3 ft)             | lb | 1960                                                                              | 1480                                                                              | 1340                                                                              | 1040                                                                              | 1010                                                                              | 790                                                                               |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 820                                                                                 | 640                                                                                 | (11.4) |
| -1.5 m                | kg | 900                                                                               | 680                                                                               | 620                                                                               | 480                                                                               | 470                                                                               | 370                                                                               |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 470                                                                                 | 370                                                                                 | 3.01   |
| (-4.9 ft)             | lb | 1980                                                                              | 1500                                                                              | 1370                                                                              | 1060                                                                              | 1040                                                                              | 820                                                                               |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 1040                                                                                | 820                                                                                 | (9.9)  |
| -2.0 m                | kg | *890                                                                              | 700                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *740                                                                                | 600                                                                                 | 2.21   |
| (-6.6 ft)             | lb | *1960                                                                             | 1540                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *1630                                                                               | 1320                                                                                | (7.2)  |

| Model    | Type  | Boom        | Arm         | Counterweight | Shoe       | Wheel      | Dozer |      | Outtriger |      |
|----------|-------|-------------|-------------|---------------|------------|------------|-------|------|-----------|------|
| R30Z-9AK | Cabin | Length [mm] | Length [mm] | weight [kg]   | width [mm] | width [mm] | Front | Rear | Front     | Rear |
|          |       | 2030        | 1350        | 220           | 250        | -          | Up    | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree

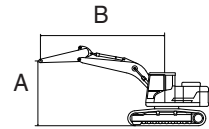


| Lift-point<br>height (A) |          | Lift-point radius (B)                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | At max. reach                                                                       |                                                                                     |                |
|--------------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|
|                          |          | 2.0 m (6.6 ft)                                                                    |                                                                                   | 2.5 m (8.2 ft)                                                                    |                                                                                   | 3.0 m (9.8 ft)                                                                    |                                                                                   | 3.5 m (11.5 ft)                                                                   |                                                                                   | 4.0 m (13.1 ft)                                                                     |                                                                                     | Capacity                                                                            |                                                                                     | Reach          |
|                          |          |  |  |  |  |  |  |  |  |  |  |  |  | m (ft)         |
| 3.5 m<br>(11.5 ft)       | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *550<br>*1210                                                                       | 470<br>1040                                                                         | 2.99<br>(9.8)  |
| 3.0 m<br>(9.8 ft)        | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 460<br>1010                                                                         | 370<br>820                                                                          | 3.48<br>(11.4) |
| 2.5 m<br>(8.2 ft)        | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 590<br>1300                                                                       | 470<br>1040                                                                       | 460<br>1010                                                                       | 370<br>820                                                                        |                                                                                     |                                                                                     | 390<br>860                                                                          | 320<br>710                                                                          | 3.80<br>(12.5) |
| 2.0 m<br>(6.6 ft)        | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 580<br>1280                                                                       | 460<br>1010                                                                       | 450<br>990                                                                        | 360<br>790                                                                        | 360<br>790                                                                          | 290<br>640                                                                          | 360<br>790                                                                          | 290<br>640                                                                          | 4.01<br>(13.1) |
| 1.5 m<br>(4.9 ft)        | kg<br>lb | 1110<br>2450                                                                      | 850<br>1870                                                                       | 760<br>1680                                                                       | 600<br>1320                                                                       | 560<br>1230                                                                       | 450<br>990                                                                        | 440<br>970                                                                        | 350<br>770                                                                        | 360<br>790                                                                          | 280<br>620                                                                          | 340<br>750                                                                          | 270<br>600                                                                          | 4.13<br>(13.5) |
| 1.0 m<br>(3.3 ft)        | kg<br>lb |                                                                                   |                                                                                   | 730<br>1610                                                                       | 570<br>1260                                                                       | 550<br>1210                                                                       | 430<br>950                                                                        | 430<br>950                                                                        | 340<br>750                                                                        | 350<br>770                                                                          | 280<br>620                                                                          | 330<br>730                                                                          | 260<br>570                                                                          | 4.17<br>(13.7) |
| 0.5 m<br>(1.6 ft)        | kg<br>lb | 1000<br>2200                                                                      | 750<br>1650                                                                       | 700<br>1540                                                                       | 540<br>1190                                                                       | 530<br>1170                                                                       | 420<br>930                                                                        | 420<br>930                                                                        | 330<br>730                                                                        | 350<br>770                                                                          | 270<br>600                                                                          | 330<br>730                                                                          | 260<br>570                                                                          | 4.13<br>(13.5) |
| Ground<br>Line           | kg<br>lb | 980<br>2160                                                                       | 740<br>1630                                                                       | 690<br>1520                                                                       | 530<br>1170                                                                       | 520<br>1150                                                                       | 410<br>900                                                                        | 420<br>930                                                                        | 330<br>730                                                                        | 340<br>750                                                                          | 270<br>600                                                                          | 340<br>750                                                                          | 270<br>600                                                                          | 4.01<br>(13.2) |
| -0.5 m<br>(-1.6 ft)      | kg<br>lb | 980<br>2160                                                                       | 740<br>1630                                                                       | 680<br>1500                                                                       | 520<br>1150                                                                       | 520<br>1150                                                                       | 400<br>880                                                                        | 410<br>900                                                                        | 320<br>710                                                                        |                                                                                     |                                                                                     | 370<br>820                                                                          | 290<br>640                                                                          | 3.80<br>(12.5) |
| -1.0 m<br>(-3.3 ft)      | kg<br>lb | 990<br>2180                                                                       | 740<br>1630                                                                       | 680<br>1500                                                                       | 530<br>1170                                                                       | 520<br>1150                                                                       | 400<br>880                                                                        |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 420<br>930                                                                          | 330<br>730                                                                          | 3.49<br>(11.4) |
| -1.5 m<br>(-4.9 ft)      | kg<br>lb | 1000<br>2200                                                                      | 750<br>1650                                                                       | 690<br>1520                                                                       | 530<br>1170                                                                       | 530<br>1170                                                                       | 410<br>900                                                                        |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 520<br>1150                                                                         | 410<br>900                                                                          | 3.01<br>(9.9)  |
| -2.0 m<br>(-6.6 ft)      | kg<br>lb | *890<br>*1960                                                                     | 780<br>1720                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *740<br>*1630                                                                       | 670<br>1480                                                                         | 2.21<br>(7.2)  |

| Model    | Type   | Boom        | Arm         | Counterweight | Shoe       | Wheel      | Dozer |      | Outtriger |      |
|----------|--------|-------------|-------------|---------------|------------|------------|-------|------|-----------|------|
| R30Z-9AK | Canopy | Length [mm] | Length [mm] | weight [kg]   | width [mm] | width [mm] | Front | Rear | Front     | Rear |
|          |        | 2030        | 1350        | 350           | 250        | -          | Down  | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree

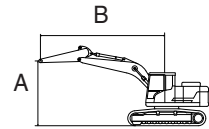


| Lift-point height (A) |          | Lift-point radius (B)                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | At max. reach                                                                       |                                                                                     |                |
|-----------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|
|                       |          | 2.0 m (6.6 ft)                                                                    |                                                                                   | 2.5 m (8.2 ft)                                                                    |                                                                                   | 3.0 m (9.8 ft)                                                                    |                                                                                   | 3.5 m (11.5 ft)                                                                   |                                                                                   | 4.0 m (13.1 ft)                                                                     |                                                                                     | Capacity                                                                            |                                                                                     | Reach          |
|                       |          |  |  |  |  |  |  |  |  |  |  |  |  | m (ft)         |
| 3.5 m<br>(11.5 ft)    | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *550<br>*1210                                                                       | 520<br>1150                                                                         | 2.99<br>(9.8)  |
| 3.0 m<br>(9.8 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *490<br>*1080                                                                       | 410<br>900                                                                          | 3.48<br>(11.4) |
| 2.5 m<br>(8.2 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *590<br>*1300                                                                     | 520<br>1150                                                                       | *620<br>*1370                                                                     | 400<br>880                                                                        |                                                                                     |                                                                                     | *470<br>*1040                                                                       | 350<br>770                                                                          | 3.80<br>(12.5) |
| 2.0 m<br>(6.6 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *670<br>*1480                                                                     | 510<br>1120                                                                       | *660<br>*1460                                                                     | 400<br>880                                                                        | *470<br>*1040                                                                       | 320<br>710                                                                          | *460<br>*1010                                                                       | 320<br>710                                                                          | 4.01<br>(13.1) |
| 1.5 m<br>(4.9 ft)     | kg<br>lb | *1220<br>*2690                                                                    | 940<br>2070                                                                       | *920<br>*2030                                                                     | 660<br>1460                                                                       | *790<br>*1740                                                                     | 500<br>1100                                                                       | *720<br>*1590                                                                     | 390<br>860                                                                        | *680<br>*1500                                                                       | 320<br>710                                                                          | *470<br>*1040                                                                       | 300<br>660                                                                          | 4.13<br>(13.5) |
| 1.0 m<br>(3.3 ft)     | kg<br>lb |                                                                                   |                                                                                   | *1180<br>*2600                                                                    | 630<br>1390                                                                       | *930<br>*2050                                                                     | 480<br>1060                                                                       | *790<br>*1740                                                                     | 380<br>840                                                                        | *710<br>*1570                                                                       | 310<br>680                                                                          | *480<br>*1060                                                                       | 290<br>640                                                                          | 4.17<br>(13.7) |
| 0.5 m<br>(1.6 ft)     | kg<br>lb | *1340<br>*2950                                                                    | 840<br>1850                                                                       | *1380<br>*3040                                                                    | 610<br>1340                                                                       | *1040<br>*2290                                                                    | 470<br>1040                                                                       | *860<br>*1900                                                                     | 370<br>820                                                                        | *740<br>*1630                                                                       | 310<br>680                                                                          | *520<br>*1150                                                                       | 290<br>640                                                                          | 4.13<br>(13.5) |
| Ground<br>Line        | kg<br>lb | *1540<br>*3400                                                                    | 830<br>1830                                                                       | *1480<br>*3260                                                                    | 590<br>1300                                                                       | *1110<br>*2450                                                                    | 460<br>1010                                                                       | *890<br>*1960                                                                     | 370<br>820                                                                        | *610<br>*1340                                                                       | 300<br>660                                                                          | *580<br>*1280                                                                       | 300<br>660                                                                          | 4.01<br>(13.2) |
| -0.5 m<br>(-1.6 ft)   | kg<br>lb | *2020<br>*4450                                                                    | 830<br>1830                                                                       | *1480<br>*3260                                                                    | 590<br>1300                                                                       | *1120<br>*2470                                                                    | 450<br>990                                                                        | *890<br>*1960                                                                     | 360<br>790                                                                        |                                                                                     |                                                                                     | *670<br>*1480                                                                       | 320<br>710                                                                          | 3.80<br>(12.5) |
| -1.0 m<br>(-3.3 ft)   | kg<br>lb | *1920<br>*4230                                                                    | 830<br>1830                                                                       | *1380<br>*3040                                                                    | 590<br>1300                                                                       | *1040<br>*2290                                                                    | 450<br>990                                                                        |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *790<br>*1740                                                                       | 370<br>820                                                                          | 3.49<br>(11.4) |
| -1.5 m<br>(-4.9 ft)   | kg<br>lb | *1570<br>*3460                                                                    | 840<br>1850                                                                       | *1140<br>*2510                                                                    | 600<br>1320                                                                       | *800<br>*1760                                                                     | 460<br>1010                                                                       |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *800<br>*1760                                                                       | 460<br>1010                                                                         | 3.01<br>(9.9)  |
| -2.0 m<br>(-6.6 ft)   | kg<br>lb | *890<br>*1960                                                                     | 870<br>1920                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *740<br>*1630                                                                       | *740<br>*1630                                                                       | 2.21<br>(7.2)  |

| Model    | Type  | Boom        | Arm         | Counterweight | Shoe       | Wheel      | Dozer |      | Outtriger |      |
|----------|-------|-------------|-------------|---------------|------------|------------|-------|------|-----------|------|
| R30Z-9AK | Cabin | Length [mm] | Length [mm] | weight [kg]   | width [mm] | width [mm] | Front | Rear | Front     | Rear |
|          |       | 2030        | 1350        | 350           | 250        | -          | Down  | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree

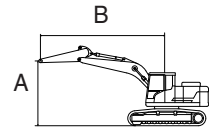


| Lift-point height (A) |          | Lift-point radius (B)                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | At max. reach                                                                       |                                                                                     |                |
|-----------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|
|                       |          | 2.0 m (6.6 ft)                                                                    |                                                                                   | 2.5 m (8.2 ft)                                                                    |                                                                                   | 3.0 m (9.8 ft)                                                                    |                                                                                   | 3.5 m (11.5 ft)                                                                   |                                                                                   | 4.0 m (13.1 ft)                                                                     |                                                                                     | Capacity                                                                            |                                                                                     | Reach          |
|                       |          |  |  |  |  |  |  |  |  |  |  |  |  | m (ft)         |
| 3.5 m (11.5 ft)       | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *550<br>*1210                                                                       | *550<br>1210                                                                        | 2.99<br>(9.8)  |
| 3.0 m (9.8 ft)        | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *490<br>*1080                                                                       | 440<br>970                                                                          | 3.48<br>(11.4) |
| 2.5 m (8.2 ft)        | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *590<br>*1300                                                                     | 570<br>1260                                                                       | *620<br>*1370                                                                     | 440<br>970                                                                        |                                                                                     |                                                                                     | *470<br>*1040                                                                       | 380<br>840                                                                          | 3.80<br>(12.5) |
| 2.0 m (6.6 ft)        | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *670<br>*1480                                                                     | 560<br>1230                                                                       | *660<br>*1460                                                                     | 440<br>970                                                                        | *470<br>*1040                                                                       | 350<br>770                                                                          | *460<br>*1010                                                                       | 350<br>770                                                                          | 4.01<br>(13.1) |
| 1.5 m (4.9 ft)        | kg<br>lb | *1220<br>*2690                                                                    | 1020<br>2250                                                                      | *920<br>*2030                                                                     | 720<br>1590                                                                       | *790<br>*1740                                                                     | 540<br>1190                                                                       | *720<br>*1590                                                                     | 430<br>950                                                                        | *680<br>*1500                                                                       | 350<br>770                                                                          | *470<br>*1040                                                                       | 330<br>730                                                                          | 4.13<br>(13.5) |
| 1.0 m (3.3 ft)        | kg<br>lb |                                                                                   |                                                                                   | *1180<br>*2600                                                                    | 690<br>1520                                                                       | *930<br>*2050                                                                     | 530<br>1170                                                                       | *790<br>*1740                                                                     | 420<br>930                                                                        | *710<br>*1570                                                                       | 340<br>750                                                                          | *480<br>*1060                                                                       | 320<br>710                                                                          | 4.17<br>(13.7) |
| 0.5 m (1.6 ft)        | kg<br>lb | *1340<br>*2950                                                                    | 920<br>2030                                                                       | *1380<br>*3040                                                                    | 660<br>1460                                                                       | *1040<br>*2290                                                                    | 510<br>1120                                                                       | *860<br>*1900                                                                     | 410<br>900                                                                        | *740<br>*1630                                                                       | 340<br>750                                                                          | *520<br>*1150                                                                       | 320<br>710                                                                          | 4.13<br>(13.5) |
| Ground Line           | kg<br>lb | *1540<br>*3400                                                                    | 910<br>2010                                                                       | *1480<br>*3260                                                                    | 650<br>1430                                                                       | *1110<br>*2450                                                                    | 500<br>1100                                                                       | *890<br>*1960                                                                     | 400<br>880                                                                        | *610<br>*1340                                                                       | 330<br>730                                                                          | *580<br>*1280                                                                       | 330<br>730                                                                          | 4.01<br>(13.2) |
| -0.5 m (-1.6 ft)      | kg<br>lb | *2020<br>*4450                                                                    | 910<br>2010                                                                       | *1480<br>*3260                                                                    | 640<br>1410                                                                       | *1120<br>*2470                                                                    | 500<br>1100                                                                       | *890<br>*1960                                                                     | 400<br>880                                                                        |                                                                                     |                                                                                     | *670<br>*1480                                                                       | 360<br>790                                                                          | 3.80<br>(12.5) |
| -1.0 m (-3.3 ft)      | kg<br>lb | *1920<br>*4230                                                                    | 910<br>2010                                                                       | *1380<br>*3040                                                                    | 650<br>1430                                                                       | *1040<br>*2290                                                                    | 500<br>1100                                                                       |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *790<br>*1740                                                                       | 400<br>880                                                                          | 3.49<br>(11.4) |
| -1.5 m (-4.9 ft)      | kg<br>lb | *1570<br>*3460                                                                    | 920<br>2030                                                                       | *1140<br>*2510                                                                    | 650<br>1430                                                                       | *800<br>*1760                                                                     | 510<br>1120                                                                       |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *800<br>*1760                                                                       | 500<br>1100                                                                         | 3.01<br>(9.9)  |
| -2.0 m (-6.6 ft)      | kg<br>lb | *890<br>*1960                                                                     | *890<br>*1960                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *740<br>*1630                                                                       | *740<br>*1630                                                                       | 2.21<br>(7.2)  |

| Model    | Type   | Boom        | Arm         | Counterweight | Shoe       | Wheel      | Dozer |      | Outtriger |      |
|----------|--------|-------------|-------------|---------------|------------|------------|-------|------|-----------|------|
| R30Z-9AK | Canopy | Length [mm] | Length [mm] | weight [kg]   | width [mm] | width [mm] | Front | Rear | Front     | Rear |
|          |        | 2030        | 1350        | 350           | 250        | -          | Up    | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree

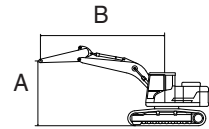


| Lift-point height (A) |          | Lift-point radius (B)                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | At max. reach                                                                       |                                                                                     |                |
|-----------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|
|                       |          | 2.0 m (6.6 ft)                                                                    |                                                                                   | 2.5 m (8.2 ft)                                                                    |                                                                                   | 3.0 m (9.8 ft)                                                                    |                                                                                   | 3.5 m (11.5 ft)                                                                   |                                                                                   | 4.0 m (13.1 ft)                                                                     |                                                                                     | Capacity                                                                            |                                                                                     | Reach          |
|                       |          |  |  |  |  |  |  |  |  |  |  |  |  | m (ft)         |
| 3.5 m<br>(11.5 ft)    | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *550<br>*1210                                                                       | 490<br>1080                                                                         | 2.99<br>(9.8)  |
| 3.0 m<br>(9.8 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 470<br>1040                                                                         | 380<br>840                                                                          | 3.48<br>(11.4) |
| 2.5 m<br>(8.2 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *590<br>*1300                                                                     | 490<br>1080                                                                       | 470<br>1040                                                                       | 380<br>840                                                                        |                                                                                     |                                                                                     | 410<br>900                                                                          | 330<br>730                                                                          | 3.80<br>(12.5) |
| 2.0 m<br>(6.6 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 600<br>1320                                                                       | 480<br>1060                                                                       | 460<br>1010                                                                       | 380<br>840                                                                        | 370<br>820                                                                          | 300<br>660                                                                          | 370<br>820                                                                          | 300<br>660                                                                          | 4.01<br>(13.1) |
| 1.5 m<br>(4.9 ft)     | kg<br>lb | 1140<br>2510                                                                      | 880<br>1940                                                                       | 780<br>1720                                                                       | 620<br>1370                                                                       | 580<br>1280                                                                       | 470<br>1040                                                                       | 450<br>990                                                                        | 370<br>820                                                                        | 370<br>820                                                                          | 300<br>660                                                                          | 350<br>770                                                                          | 280<br>620                                                                          | 4.13<br>(13.5) |
| 1.0 m<br>(3.3 ft)     | kg<br>lb |                                                                                   |                                                                                   | 750<br>1650                                                                       | 590<br>1300                                                                       | 560<br>1230                                                                       | 450<br>990                                                                        | 440<br>970                                                                        | 360<br>790                                                                        | 360<br>790                                                                          | 290<br>640                                                                          | 340<br>750                                                                          | 270<br>600                                                                          | 4.17<br>(13.7) |
| 0.5 m<br>(1.6 ft)     | kg<br>lb | 1030<br>2270                                                                      | 780<br>1720                                                                       | 720<br>1590                                                                       | 570<br>1260                                                                       | 550<br>1210                                                                       | 440<br>970                                                                        | 430<br>950                                                                        | 350<br>770                                                                        | 360<br>790                                                                          | 290<br>640                                                                          | 340<br>750                                                                          | 270<br>600                                                                          | 4.13<br>(13.5) |
| Ground<br>Line        | kg<br>lb | 1010<br>2230                                                                      | 770<br>1700                                                                       | 710<br>1570                                                                       | 550<br>1210                                                                       | 540<br>1190                                                                       | 430<br>950                                                                        | 430<br>950                                                                        | 340<br>750                                                                        | 350<br>770                                                                          | 280<br>620                                                                          | 350<br>770                                                                          | 280<br>620                                                                          | 4.01<br>(13.2) |
| -0.5 m<br>(-1.6 ft)   | kg<br>lb | 1010<br>2230                                                                      | 770<br>1700                                                                       | 700<br>1540                                                                       | 550<br>1210                                                                       | 530<br>1170                                                                       | 420<br>930                                                                        | 420<br>930                                                                        | 340<br>750                                                                        |                                                                                     |                                                                                     | 380<br>840                                                                          | 300<br>660                                                                          | 3.80<br>(12.5) |
| -1.0 m<br>(-3.3 ft)   | kg<br>lb | 1010<br>2230                                                                      | 770<br>1700                                                                       | 700<br>1540                                                                       | 550<br>1210                                                                       | 530<br>1170                                                                       | 420<br>930                                                                        |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 430<br>950                                                                          | 340<br>750                                                                          | 3.49<br>(11.4) |
| -1.5 m<br>(-4.9 ft)   | kg<br>lb | 1030<br>2270                                                                      | 780<br>1720                                                                       | 710<br>1570                                                                       | 560<br>1230                                                                       | 540<br>1190                                                                       | 430<br>950                                                                        |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 540<br>1190                                                                         | 430<br>950                                                                          | 3.01<br>(9.9)  |

| Model    | Type  | Boom        | Arm         | Counterweight | Shoe       | Wheel      | Dozer |      | Outtriger |      |
|----------|-------|-------------|-------------|---------------|------------|------------|-------|------|-----------|------|
| R30Z-9AK | Cabin | Length [mm] | Length [mm] | weight [kg]   | width [mm] | width [mm] | Front | Rear | Front     | Rear |
|          |       | 2030        | 1350        | 350           | 250        | -          | Up    | -    | -         | -    |

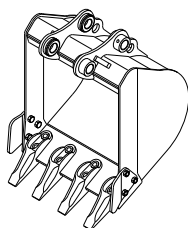
·  : Rating over-front

·  : Rating over-side or 360 degree



| Lift-point height (A) |          | Lift-point radius (B)                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | At max. reach                                                                       |                                                                                     |                |
|-----------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|
|                       |          | 2.0 m (6.6 ft)                                                                    |                                                                                   | 2.5 m (8.2 ft)                                                                    |                                                                                   | 3.0 m (9.8 ft)                                                                    |                                                                                   | 3.5 m (11.5 ft)                                                                   |                                                                                   | 4.0 m (13.1 ft)                                                                     |                                                                                     | Capacity                                                                            |                                                                                     | Reach          |
|                       |          |  |  |  |  |  |  |  |  |  |  |  |  | m (ft)         |
| 3.5 m<br>(11.5 ft)    | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *550<br>*1210                                                                       | 530<br>1170                                                                         | 2.99<br>(9.8)  |
| 3.0 m<br>(9.8 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *490<br>*1080                                                                       | 420<br>930                                                                          | 3.48<br>(11.4) |
| 2.5 m<br>(8.2 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *590<br>*1300                                                                     | 530<br>1170                                                                       | 510<br>1120                                                                       | 420<br>930                                                                        |                                                                                     |                                                                                     | 450<br>990                                                                          | 360<br>790                                                                          | 3.80<br>(12.5) |
| 2.0 m<br>(6.6 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 650<br>1430                                                                       | 520<br>1150                                                                       | 510<br>1120                                                                       | 410<br>900                                                                        | 410<br>900                                                                          | 330<br>730                                                                          | 410<br>900                                                                          | 330<br>730                                                                          | 4.01<br>(13.1) |
| 1.5 m<br>(4.9 ft)     | kg<br>lb | *1220<br>*2690                                                                    | 960<br>2120                                                                       | 850<br>1870                                                                       | 670<br>1480                                                                       | 640<br>1410                                                                       | 510<br>1120                                                                       | 500<br>1100                                                                       | 400<br>880                                                                        | 400<br>880                                                                          | 330<br>730                                                                          | 380<br>840                                                                          | 310<br>680                                                                          | 4.13<br>(13.5) |
| 1.0 m<br>(3.3 ft)     | kg<br>lb |                                                                                   |                                                                                   | 820<br>1810                                                                       | 640<br>1410                                                                       | 620<br>1370                                                                       | 490<br>1080                                                                       | 490<br>1080                                                                       | 390<br>860                                                                        | 400<br>880                                                                          | 320<br>710                                                                          | 370<br>820                                                                          | 300<br>660                                                                          | 4.17<br>(13.7) |
| 0.5 m<br>(1.6 ft)     | kg<br>lb | 1130<br>2490                                                                      | 860<br>1900                                                                       | 790<br>1740                                                                       | 620<br>1370                                                                       | 600<br>1320                                                                       | 480<br>1060                                                                       | 480<br>1060                                                                       | 380<br>840                                                                        | 390<br>860                                                                          | 320<br>710                                                                          | 380<br>840                                                                          | 300<br>660                                                                          | 4.13<br>(13.5) |
| Ground<br>Line        | kg<br>lb | 1110<br>2450                                                                      | 850<br>1870                                                                       | 780<br>1720                                                                       | 610<br>1340                                                                       | 590<br>1300                                                                       | 470<br>1040                                                                       | 470<br>1040                                                                       | 380<br>840                                                                        | 390<br>860                                                                          | 310<br>680                                                                          | 390<br>860                                                                          | 310<br>680                                                                          | 4.01<br>(13.2) |
| -0.5 m<br>(-1.6 ft)   | kg<br>lb | 1110<br>2450                                                                      | 840<br>1850                                                                       | 770<br>1700                                                                       | 600<br>1320                                                                       | 590<br>1300                                                                       | 460<br>1010                                                                       | 470<br>1040                                                                       | 370<br>820                                                                        |                                                                                     |                                                                                     | 420<br>930                                                                          | 330<br>730                                                                          | 3.80<br>(12.5) |
| -1.0 m<br>(-3.3 ft)   | kg<br>lb | 1120<br>2470                                                                      | 850<br>1870                                                                       | 770<br>1700                                                                       | 600<br>1320                                                                       | 590<br>1300                                                                       | 460<br>1010                                                                       |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 470<br>1040                                                                         | 380<br>840                                                                          | 3.49<br>(11.4) |
| -1.5 m<br>(-4.9 ft)   | kg<br>lb | 1130<br>2490                                                                      | 860<br>1900                                                                       | 780<br>1720                                                                       | 610<br>1340                                                                       | 600<br>1320                                                                       | 470<br>1040                                                                       |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 590<br>1300                                                                         | 470<br>1040                                                                         | 3.01<br>(9.9)  |
| -2.0 m<br>(-6.6 ft)   | kg<br>lb | *890<br>*1960                                                                     | 880<br>1940                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *740<br>*1630                                                                       | *740<br>*1630                                                                       | 2.21<br>(7.2)  |

## 6. BUCKET SELECTION GUIDE



0.08 m<sup>3</sup> SAE  
heaped bucket

| Capacity                                     |                                                | Width                  |                     | Weight            | Recommendation                                                                                          |
|----------------------------------------------|------------------------------------------------|------------------------|---------------------|-------------------|---------------------------------------------------------------------------------------------------------|
|                                              |                                                |                        |                     |                   | 2.03 m (6' 8") boom                                                                                     |
| SAE<br>heaped                                | CECE<br>heaped                                 | Without<br>side cutter | With<br>side cutter |                   | 1.12 m (3' 8") arm                                                                                      |
| 0.08m <sup>3</sup><br>(0.10yd <sup>3</sup> ) | 0.06 m <sup>3</sup><br>(0.08 yd <sup>3</sup> ) | 450 mm<br>(17.7")      | 510 mm<br>(20")     | 60 kg<br>(132 lb) | Applicable for materials with density of 1600 kgf/m <sup>3</sup><br>(2700 lb /yd <sup>3</sup> ) or less |

## 7. UNDERCARRIAGE

### (1) TRACKS

X-leg type center frame is integrally welded with reinforced box-section track frames. The design includes dry tracks, lubricated rollers, idlers, sprockets, hydraulic track adjusters with shock absorbing springs and assembled track-type tractor shoes with triple grousers.

### (2) TYPES OF SHOES

| Model    | Shapes           |                           | Rubber track                                                                       |               |
|----------|------------------|---------------------------|------------------------------------------------------------------------------------|---------------|
|          |                  |                           |  |               |
|          |                  |                           | Cab                                                                                | Canopy        |
| R30Z-9AK | Shoe width       | mm (in)                   | 300 (12")                                                                          | 300 (12")     |
|          | Operating weight | kg (lb)                   | 3005 (6620)                                                                        | 2895 (6380)   |
|          | Ground pressure  | kgf/cm <sup>2</sup> (psi) | 0.29 (4.12)                                                                        | 0.27 (3.84)   |
|          | Overall width    | mm (ft-in)                | 1550 ( 5' 1")                                                                      | 1550 ( 5' 1") |

### (3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

| Item            | Quantity |
|-----------------|----------|
| Carrier rollers | 1 EA     |
| Track rollers   | 3 EA     |

## 8. SPECIFICATIONS FOR MAJOR COMPONENTS

### 1) ENGINE

| Item                                | Specification                                         |
|-------------------------------------|-------------------------------------------------------|
| Model                               | Kubota D1305                                          |
| Type                                | 4-cycle vertical overhead valve, diesel fuel          |
| Cooling method                      | Water cooling                                         |
| Number of cylinders and arrangement | 3 cylinders, in-line                                  |
| Firing order                        | 1-2-3                                                 |
| Combustion chamber type             | Swirl chamber type                                    |
| Cylinder bore × stroke              | 78 × 88 mm (3.07" × 3.46")                            |
| Piston displacement                 | 1261 cc (77.0 cu in)                                  |
| Compression ratio                   | 24 : 1                                                |
| Rated gross horse power (SAE J1995) | 24.9 Hp at 2400 rpm (18.5 kW at 2400 rpm)             |
| Maximum torque at 1600 rpm          | 8.3 kgf · m (60.0 lbf · ft)                           |
| Engine oil quantity                 | 5.7 ℓ (1.5 U.S. gal)                                  |
| Dry weight                          | 102 kg (225 lb)                                       |
| High idling speed                   | 2350 ± 50 rpm                                         |
| Low idling speed                    | 1400 ± 50 rpm                                         |
| Rated fuel consumption              | 192 g/Hp · hr at 2400 rpm (257 g/kW · hr at 2400 rpm) |
| Starting motor                      | 12V-1.4 kW                                            |
| Alternator                          | 12V-40 A                                              |
| Battery                             | 1 × 12 V × 58 Ah (5h rating)                          |

### 2) MAIN PUMP

| Item           | Specification                                  |
|----------------|------------------------------------------------|
| Type           | Variable displacement tandem axis piston pumps |
| Capacity       | 2 × 12 cc/rev                                  |
| Rated oil flow | 2 × 27.6 ℓ /min (7.3 U.S. gpm / 6.1 U.K. gpm)  |
| Rated speed    | 2300 rpm                                       |

### 3) GEAR PUMP

| Item           | Specification                                          |
|----------------|--------------------------------------------------------|
| Type           | Fixed displacement gear pump single stage              |
| Capacity       | 8.5/4.5 cc/rev                                         |
| Rated oil flow | 19.6/10.4 ℓ /min (5.2/2.7 U.S. gpm / 4.3/2.3 U.K. gpm) |

### 4) MAIN CONTROL VALVE

| Item                                     | Specification                                                           |
|------------------------------------------|-------------------------------------------------------------------------|
| Type                                     | Sectional, 9 spools (12 blocks)                                         |
| Operating method                         | Hydraulic pilot system                                                  |
| Main relief valve pressure : P1, P2 / P3 | 220 kgf/cm <sup>2</sup> (3130 psi) / 175 kgf/cm <sup>2</sup> (2490 psi) |
| Overload relief valve pressure           | 240 kgf/cm <sup>2</sup> (3410 psi)                                      |

### 5) SWING MOTOR

| Item                   | Specification                                |
|------------------------|----------------------------------------------|
| Type                   | Fixed displacement axial piston motor        |
| Capacity               | 12.5 cc/rev                                  |
| Relief pressure        | 170 kgf/cm <sup>2</sup> (2420 psi)           |
| Braking system         | Automatic, spring applied hydraulic released |
| Braking torque         | 7.0 kgf · m (50.6 lbf · ft)                  |
| Brake release pressure | 25~50 kgf/cm <sup>2</sup> (356~710 psi)      |
| Reduction gear type    | 2 - stage planetary                          |

### 6) TRAVEL MOTOR

| Item                   | Specification                                |
|------------------------|----------------------------------------------|
| Type                   | Variable displacement axial piston motor     |
| Relief pressure        | 220 kgf/cm <sup>2</sup> (3130 psi)           |
| Reduction gear type    | 2-stage planetary                            |
| Braking system         | Automatic, spring applied hydraulic released |
| Brake release pressure | 19 kgf/cm <sup>2</sup> (270 psi)             |
| Braking torque         | 5.7 kgf · m (41 lbf · ft)                    |

## 7) CYLINDER

| Item                |                             | Specification      |
|---------------------|-----------------------------|--------------------|
| Boom cylinder       | Bore dia × Rod dia × Stroke | Ø75 × Ø45 × 565 mm |
|                     | Cushion                     | Extend only        |
| Arm cylinder        | Bore dia × Rod dia × Stroke | Ø70 × Ø45 × 500 mm |
|                     | Cushion                     | Extend and retract |
| Bucket cylinder     | Bore dia × Rod dia × Stroke | Ø55 × Ø35 × 420 mm |
|                     | Cushion                     | -                  |
| Boom swing cylinder | Bore dia × Rod dia × Stroke | Ø75 × Ø40 × 400 mm |
|                     | Cushion                     | -                  |
| Dozer cylinder      | Bore dia × Rod dia × Stroke | Ø95 × Ø50 × 140 mm |
|                     | Cushion                     | -                  |

※ Discoloration of cylinder rod can occur when the friction reduction additive of lubrication oil spreads on the rod surface.

※ Discoloration does not cause any harmful effect on the cylinder performance.

## 8) BUCKET

| Item     | Capacity                                    |                                             | Tooth quantity | Width               |                  |
|----------|---------------------------------------------|---------------------------------------------|----------------|---------------------|------------------|
|          | SAE heaped                                  | CECE heaped                                 |                | Without side cutter | With side cutter |
| Standard | 0.08 m <sup>3</sup> (0.10 yd <sup>3</sup> ) | 0.06 m <sup>3</sup> (0.08 yd <sup>3</sup> ) | 4              | 450 mm (17.7")      | 510 mm (20")     |

## 9. RECOMMENDED OILS

HYUNDAI genuine lubricating oils have been developed to offer the best performance and service life for your equipment. These oils have been tested according to the specifications of HYUNDAI and, therefore, will meet the highest safety and quality requirements.

We recommend that you use only HYUNDAI genuine lubricating oils and grease officially approved by HYUNDAI.

| Service point                | Kind of fluid                                            | Capacity<br>ℓ (U.S. gal) | Ambient temperature °C ( °F)                   |              |             |             |                                     |                |            |            |             |
|------------------------------|----------------------------------------------------------|--------------------------|------------------------------------------------|--------------|-------------|-------------|-------------------------------------|----------------|------------|------------|-------------|
|                              |                                                          |                          | -50<br>(-58)                                   | -30<br>(-22) | -20<br>(-4) | -10<br>(14) | 0<br>(32)                           | 10<br>(50)     | 20<br>(68) | 30<br>(86) | 40<br>(104) |
| Engine oil pan               | Engine oil                                               | 5.7 (1.5)                | ★SAE 5W-40                                     |              |             |             |                                     |                |            |            |             |
|                              |                                                          |                          |                                                |              |             |             |                                     | SAE 30         |            |            |             |
|                              |                                                          |                          |                                                |              |             |             |                                     | SAE 10W        |            |            |             |
|                              |                                                          |                          |                                                |              |             |             |                                     | SAE 10W-30     |            |            |             |
|                              |                                                          |                          |                                                |              |             |             |                                     | SAE 15W-40     |            |            |             |
| Final drive                  | Gear oil                                                 | 0.6×2<br>(0.16×2)        | ★SAE 75W-90                                    |              |             |             |                                     |                |            |            |             |
|                              |                                                          |                          |                                                |              |             |             |                                     | SAE 85W-140    |            |            |             |
| Hydraulic tank               | Hydraulic oil                                            | Tank;<br>27 (7.1)        | ★ISO VG 15                                     |              |             |             |                                     |                |            |            |             |
|                              |                                                          |                          |                                                |              |             |             | ISO VG 46, HBHO VG 46★ <sup>3</sup> |                |            |            |             |
|                              |                                                          | System;<br>55 (14.5)     |                                                |              |             |             | ISO VG 68                           |                |            |            |             |
| Fuel tank                    | Diesel fuel★ <sup>1</sup>                                | 30 (7.9)                 | ★ASTM D975 NO.1                                |              |             |             |                                     |                |            |            |             |
|                              |                                                          |                          |                                                |              |             |             |                                     | ASTM D975 NO.2 |            |            |             |
| Fitting<br>(grease nipple)   | Grease                                                   | As required              | ★NLGI NO.1                                     |              |             |             |                                     |                |            |            |             |
|                              |                                                          |                          |                                                |              |             |             |                                     | NLGI NO.2      |            |            |             |
| Radiator<br>(reservoir tank) | Mixture of<br>antifreeze<br>and soft water★ <sup>2</sup> | 5.0 (1.3)                | Ethylene glycol base permanent type (50 : 50)  |              |             |             |                                     |                |            |            |             |
|                              |                                                          |                          | ★Ethylene glycol base permanent type (60 : 40) |              |             |             |                                     |                |            |            |             |

**SAE** : Society of Automotive Engineers

**API** : American Petroleum Institute

**ISO** : International Organization for Standardization

**NLGI** : National Lubricating Grease Institute

**ASTM** : American Society of Testing and Material

**UTTO** : Universal Tractor Transmission Oil

★ : Cold region

Russia, CIS, Mongolia

★<sup>1</sup> : Ultra low sulfur diesel

- sulfur content ≤ 15 ppm

★<sup>2</sup> : Soft water

City water or distilled water

★<sup>3</sup> : Hyundai Bio Hydraulic Oil

- For more information, contact HYUNDAI dealers.

※ Using any lubricating oils other than HYUNDAI genuine products may lead to a deterioration of performance and cause damage to major components.

※ Do not mix HYUNDAI genuine oil with any other lubricating oil as it may result in damage to the systems of major components.

※ Do not use any engine oil other than that specified above, as it may clog the diesel particulate filter(DPF).

※ For HYUNDAI genuine lubricating oils and grease for use in regions with extremely low temperatures, please contact HYUNDAI dealers.