## Hydraulic Excavator R 9250 Arctic

Operating Weight with Backhoe Attachment: 250,000 kg/551,155 lb with Shovel Attachment: 253,500 kg/558,870 lb Engine Output: 960 kW/1287 hp Bucket Capacity: 13,00 - 17,00 m $^3$ /17.0 - 22.2 yd $^3$  Shovel Capacity: 11,00 - 17,00 m $^3$ /14.4 - 22.2 yd $^3$  Operating Temperature: -40 °C to +40 °C/-40 °F to +104 °F



# LIEBHERR

# **Technical Data**



| 1 Cummins diesel engine<br>Rating per<br>SAE J 1995<br>Model | _QSK45 `                                                                                                                                     |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| туре                                                         | _ 12 cylinder turbocharged V-engine<br>after-cooler                                                                                          |
| Displacement                                                 | two separate water cooling circuits<br>direct injection system<br>45 l/2745 in <sup>3</sup>                                                  |
|                                                              | _ 159/190 mm / 6.26/7.48 in                                                                                                                  |
|                                                              | _fans driven via hydraulic piston motor                                                                                                      |
| Air cleaner                                                  | dry-type air cleaner with pre-cleaner, with automatic dust ejector, primary and safety elements                                              |
| Fuel tank                                                    | _5440 I/1434 gal                                                                                                                             |
| Electrical system                                            |                                                                                                                                              |
| Voltage                                                      |                                                                                                                                              |
| Batteries<br>Alternator                                      |                                                                                                                                              |
| Engine idling                                                |                                                                                                                                              |
| Electronic engine                                            |                                                                                                                                              |
| control system                                               | <ul> <li>engine speed sensing over the entire<br/>engine RPM range. Provides integration of<br/>engine with other machine systems</li> </ul> |



### **Hydraulic System**

| Hydraulic pumps for attachment and |                                                                                   |
|------------------------------------|-----------------------------------------------------------------------------------|
| travel drive                       | _3 variable flow axial piston pumps                                               |
| Max. flow                          | _2 x 771 l/min. + 1 x 579 l/min./                                                 |
|                                    | 2 x 204 gpm + 1 x 153 gpm                                                         |
| Max. hydr. pressure                | _320 bar/4,640 psi                                                                |
| Hydraulic pump                     | O                                                                                 |
| for swing drive                    | 2 reversible swash plate pumps, closed-<br>loop circuit                           |
| May flow                           | _2 x 352 l/min./2 x 93 gpm                                                        |
| Max. hydr. pressure                |                                                                                   |
| Pump regulation                    |                                                                                   |
| · amp regulation                   | pressure compensation                                                             |
|                                    | flow compensation                                                                 |
|                                    | automatic oil flow optimizer                                                      |
| Hydraulic tank capacity            | _2281 I/602 gal                                                                   |
| Hydraulic system                   |                                                                                   |
| capacity                           |                                                                                   |
| Hydraulic oil filter               | _filtration of entire return flow, 1 high pres-<br>sure filter for each main pump |
| Hydraulic oil cooler               |                                                                                   |
|                                    |                                                                                   |



### **Hydraulic Controls**

| Servo circuit        | _independant, electric over hydraulic pro-  |
|----------------------|---------------------------------------------|
|                      | portional controls of each function         |
| Emergency control    | via accumulator for all attachment func-    |
|                      | tions with stopped engine                   |
| Power distribution   | via monoblock control valves with inte-     |
|                      | grated primary relief valves and flanged on |
|                      | secondary valves for travel                 |
| Flow summation       | to attachment and travel drive              |
| Control functions    |                                             |
| Attachment and       |                                             |
| swing                | proportional via joystick levers            |
| Travel               | proportional via foot pedals or hand levers |
| Bottom dump bucket _ | proportional via foot pedals                |



### **Swing Drive**

| Hydraulic motor     | _2 Liebherr axial piston motors                                                           |
|---------------------|-------------------------------------------------------------------------------------------|
| Swing gear          | _2 Liebherr planetary reduction gears                                                     |
| Swing ring          | Liebherr, sealed triple roller swing ring,                                                |
|                     | internal teeth                                                                            |
| Swing speed         | _0-4.1 rpm                                                                                |
| Swing torque        | _800 kNm/59,004 lbf ft                                                                    |
| Swing-Holding brake | hydraulically actuated, maintenance-free, multi-disc brakes integrated in each swing gear |
|                     |                                                                                           |



#### **Uppercarriage**

| Design              | torque resistant designed upper frame in     |
|---------------------|----------------------------------------------|
| <u> </u>            | box type construction for superior strength  |
|                     | and durability                               |
| Attachment mounting | _ parallel longitudinal main girders in box- |
| _                   | section construction                         |
| Catwalks            | on the left side of the uppercarriage        |



### Service Flap

| hydraulically actuated service flap, easily accessible from ground level to allow:  – fuel fast refill  – engine oil quick change                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul> <li>swing ring teeth grease barrel refilling via grease filter</li> <li>attachment/swing ring bearing grease barrel refilling via grease filter</li> <li>hydraulic oil refill</li> <li>hydraulic oil draining</li> <li>splitterbox oil refill</li> <li>windshield wash water refilling</li> </ul> |
| t                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                        |

Qı

# **Technical Data**



### Operator's Cab

| Design                      | resiliently mounted, sound insulated,<br>large windows for all around visibility,<br>integrated falling object protection FOPS                                                                                                             |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator's seat             | suspended, body-contoured with shock absorber, adjustable to operator's weight                                                                                                                                                             |
| Cabin windows               | _20,5 mm/0.8 in tinted armored glass for front window and right hand side windows, all other windows in tinted safety glass, high pressure windshield-washer system 75 l/20 gal watertank, sun louvers on all windows in heavy duty design |
| Heating system/             | 3                                                                                                                                                                                                                                          |
|                             | _heavy duty, high output air conditioner and<br>heater unit                                                                                                                                                                                |
| Cabin pressurization        | ventilation with filter                                                                                                                                                                                                                    |
| Controls                    |                                                                                                                                                                                                                                            |
| Monitoring Automatic engine | via LCD-Display, data memory                                                                                                                                                                                                               |
| shut off                    | engine self-controlled shut off                                                                                                                                                                                                            |
| Destroking of main          | in case of low bydraulic oil loyel                                                                                                                                                                                                         |
| Safety functions            | in case of low hydraulic oil level<br>aditional gauges with constant display for:<br>engine speed, hourmeter, voltmeter, safety<br>mode for engine speed control and pump<br>regulation                                                    |



#### **Undercarriage**

| Oliderta                                       | illuge                                                                                                         |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Design                                         | _3-piece undercarriage,<br>box type structures for center piece and<br>side frames,<br>stress relieved         |
| Hydraulic motor                                | _2 axial piston motors per side frame                                                                          |
|                                                | Liebherr planetery reduction gear                                                                              |
| Travel speed                                   |                                                                                                                |
| Parking brake                                  | _spring engaged, hydraulically pressure released wet multi-disc brakes for each travel motor, maintenance-free |
| Track components                               | _D 12, maintenance-free                                                                                        |
| Track rollers/ Carrier rollers Automatic track | _9/2                                                                                                           |
| tensioner<br>Transport                         | _ hydraulic and grease tensioner<br>_ undercarriage side frames are removable                                  |



### **Central Lubrication System**

| Туре           | Lincoln Centromatic lubrication system, for                                |
|----------------|----------------------------------------------------------------------------|
| Grease pumps   | the entire attachment and swing ring Lincoln Flowmaster pump plus separate |
| r the property | pump for swing ring teeth                                                  |
| Capacity       | 80 l/21.1 gal bulk container for attachment                                |
|                | and swing ring, separated 15 l/4.0 gal bulk                                |
|                | container for swing ring teeth                                             |
| Refill         | via the service flap for both containers, fill                             |
|                | line with grease filters                                                   |
| Option         | 200 I/53 gal grease bulk container for                                     |
| •              | attachment and swing ring refilling via                                    |
|                | grease filter from service flan                                            |



#### **Attachment**

| Design                  | box-type structure with large steel castings<br>in all high-stress areas                         |
|-------------------------|--------------------------------------------------------------------------------------------------|
| Stick                   | wear protection underneath lower beam plate                                                      |
| Pivots                  | sealed and floating pins                                                                         |
| Hydraulic cylinder      |                                                                                                  |
| Hydraulic connections _ |                                                                                                  |
| Pivots bucket-to-stick  | nange commoduenc                                                                                 |
| bucket-to-link          | O-ring sealed and completely enclosed                                                            |
| Lubrication             | connected to the centralized lubrication system, each lubrication point independently lubricated |

### **Arctic Kit**

### **Electrical Preheating prior to Engine**

The hydraulic excavator can be preheated with an external electric power supply (65 kW, 400 V, 50 Hz). The electric power supply must be connected to the excavator through a connector situated on the cab elevation. The following heating equipments are installed on the excavator and each heater is designed to heat a part of the machine:

| Electrically driven water engine preheater units | 2 preheaters from 4 kW<br>automatic preheating/warm keeping (own<br>thermostat) of coolant of diesel engine |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Electrically driven warm                         |                                                                                                             |
| air blowers                                      | 5 blowers from 3 kW                                                                                         |
|                                                  | automatic warm keeping (blowers with own thermostat) of the ambient air temperature in                      |
|                                                  | pumps compartment, main valves compart-                                                                     |
|                                                  | ment, cab elevation and engine compartment,                                                                 |

|   |                             | warm keeping of the hydraulic piloting units and electric boxes |
|---|-----------------------------|-----------------------------------------------------------------|
| E | Electrical oil heater units |                                                                 |
|   | in the hydraulic tank       | _7 resistors from 2 kW                                          |
|   | •                           | automatic preheating/warm keeping (own                          |
|   |                             | thermostat) of hydraulic oil in the hydraulic tan               |
|   | in the splitterbox          | _2 resistors from 500 W                                         |
|   |                             | automatic preheating/warm keeping (own                          |
|   |                             | thermostat) of splitterbox oil                                  |
|   | in the engine oil pan       | _4 resistors from 500 W                                         |
|   |                             | automatic preheating/warm keeping (own                          |
|   |                             | thermostat) of engine oil                                       |
|   | in the suction pines        | 4 resistors from 500 W                                          |

automatic preheating/warm keeping (own thermostat) of hydraulic oil in the suction pipes

| Electrical heating cabin   | , ,                                          |
|----------------------------|----------------------------------------------|
| windows                    | filaments in the windshield and all the side |
|                            | windows                                      |
|                            | automatic defrosting of the cabin windows    |
| Electrical cabin preheater | 1 preheater from 3 kW                        |
|                            | automatic preheating/warm keeping (own       |
|                            | thermostat) of the cabin                     |
| Heating covers around the  |                                              |

grease containers \_\_\_\_\_ automatic preheating/warm keeping (own

|                           | thermostat) of the greasing tank               |
|---------------------------|------------------------------------------------|
| Heating covers around the | ,                                              |
| batteries                 | _automatic preheating/warm keeping (own        |
|                           | thermostat) of batteries                       |
| 24 V resistor heating     | resistors from 20 W and 150 W                  |
|                           | automatic heating and drying of electric boxes |
|                           | and operator's seat                            |
| Two forced circulating    |                                                |

| heating system | 1 preheaters from 9 kW                     |
|----------------|--------------------------------------------|
|                | automatic preheating/warm keeping of all   |
|                | working pumps, slew pumps, fan pumps, slew |
|                | motors, drive motors and valves blocs      |
| Fuel preheater | heat exchanger with warm engine coolant,   |
|                | preheated fuel at the entry of the engine  |

#### **Electrical Heating After Engine Start** (without Electrical Supply)

Continuous flushing of swing and travel motors with an additional gear pump, in order to supply oil at operating temperature even if travel or swing functions are not actuated.

Continuous preheating fuel with a warm engine coolant heat exchanger.

### **Stand-by Heating Operation**

If the machine is turned off for more than one hour and the ambient air temperature is below  $-10\,^{\circ}\text{C}$ , connect the external generator set to start the heaters (auto-regulated) in order to maintain the excavator in predefined

| temperature and to be able to | o restart quickly.                                                                                                                                                                                                     |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Heated areas                  | operator's cab, cab elevation, valve bank                                                                                                                                                                              |
|                               | compartment, engine compartment                                                                                                                                                                                        |
| Heated components             | <ul> <li>engine and splitter box, main, slew, oilcooler,<br/>watercooler pumps, batteries, travel, swing<br/>motors, main valves blocks, electrical boxes<br/>and joysticks, grease pumps and control valve</li> </ul> |

#### Insulation

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#### **Central Lubrication System**

| Design            | _ thermal insulated grease containers, large nominal width for all grease lines, special |
|-------------------|------------------------------------------------------------------------------------------|
| Heated components | injector for cold climate _ electro thermal wrap around, both grease con-                |
|                   | tainers                                                                                  |

#### Features of the Electrical Preheating **System**

Electrical system is designed corresponding to europeen standards 400 V/230 V/50 Hz. Optionally the system can be delivered corresponding to CSA standards

| _ | Different | components | with CSA | approval |  |
|---|-----------|------------|----------|----------|--|

| <ul> <li>Different tension and fre</li> </ul> | quency 440 V/254 V/60 Hz                       |
|-----------------------------------------------|------------------------------------------------|
| Safety IT-System                              | isolated ground, monitoring of: short circuit, |
|                                               | overload, isolation; system reactions: warning |
|                                               | (acoustical/optical), shut down                |
| Battery charge                                | continuously during standstill                 |
| 24 V board network                            | continuous power supply                        |
| Accessory parts                               | additional alternator to angure 100 % lighting |

and heating, additional battery pack for emergency lighting

#### **Steel Construction**

The steel structures of the Liebherr standard excavators are good for -40°C. Minimum required are Charpy impact values of 27 joule at minimum ambient temperature. Liebherr requirements: for steel plates LH 380 .36 Joule at -40 °C for casting parts for mining AOD (Argon Oxygen Decarburizing) or VLS (Very Low Sufur) steel > 60 Joule at -20 °C

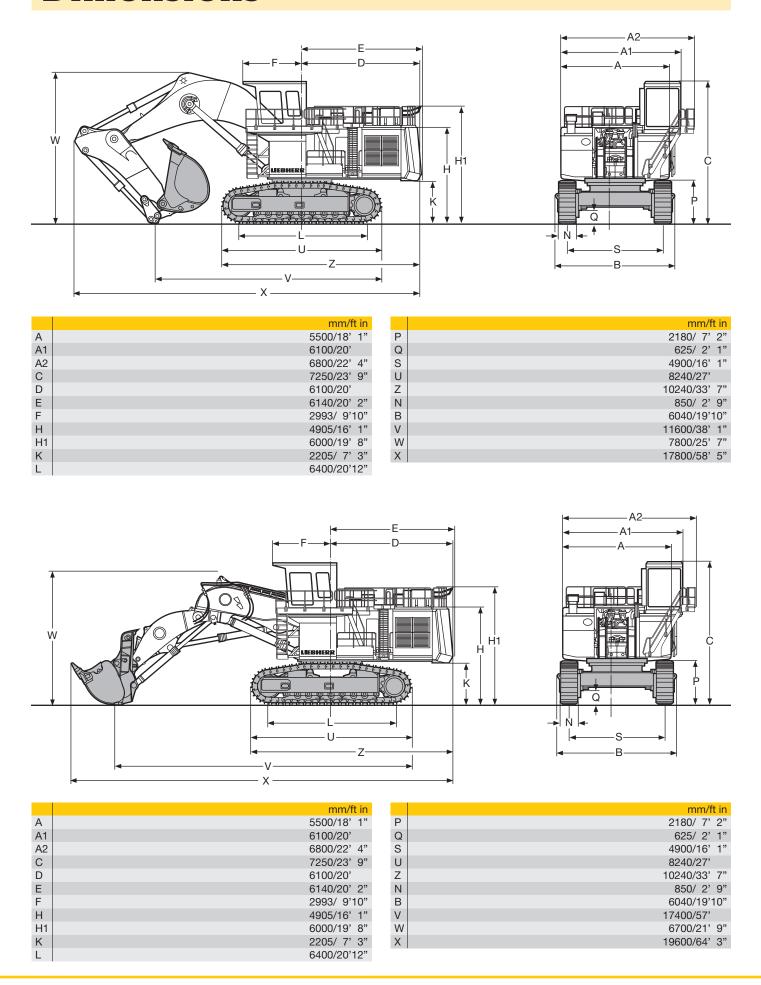
#### **Operator's Cab**

| Design         | increased thermal insulation at walls, roofs and cab floor                                                                                                                                                                               |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Heating system | heating capacity adapted to arctic conditions, windshield and front side windows preheated to defrost, and also insulation glass, heated operator's seat (minimum temperature inside the operator's cab during standstill +15 °C/+59 °F) |
| Controls       | _ electrical boxes and joysticks equipped with 24 V electrical heating elements                                                                                                                                                          |

#### **Additionnal Measures**

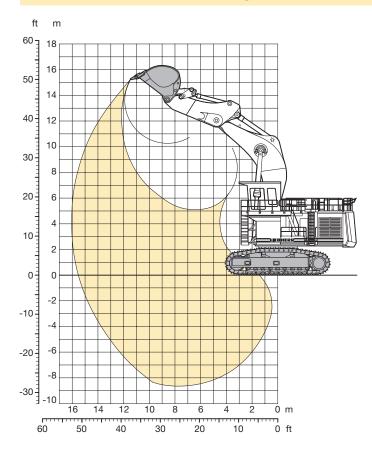
| Low temperature          |                                                 |
|--------------------------|-------------------------------------------------|
| adapted lubricants       | for uppercarriage, for undercarriage            |
| Undercarriage components |                                                 |
| in -40 °C version        | track tensioning, track roller, idler wheel     |
| Uppercarriage components |                                                 |
| in -40 °C version        | _splitter box, gear pumps, accumulators,        |
|                          | fan drive motors                                |
| Attachment               | use of special low temperature hoses for upper- |
|                          | carriage to attachment and attachment hoses     |

### **Dimensions**



### **Backhoe Attachment**

with Gooseneck Boom 9,00 m/29'6" and Stick 4,00 m/13'1"



### **Digging Envelope**

| 15,50 m/50'10"                           |
|------------------------------------------|
| 15,20 m/49'10"                           |
| 10,30 m/33'10"                           |
| 8,70 m/28' 7"                            |
|                                          |
| 780 kN (79,5 t)/175,350 lbf (175,267 lb) |
| 859 kN (87,5 t)/193,111 lbf (192,904 lb) |
|                                          |

# **Operating Weight and Ground Pressure**

The operating weight includes the basic machine with backhoe attachment and a 15,00 m³/19.6 yd³ bucket.

| Pad width       | mm/in                   | 850/34         |
|-----------------|-------------------------|----------------|
| Weight          | kg/lb                   | 250000/551,155 |
| Ground pressure | kg/cm <sup>2</sup> /psi | 2,08/29.58     |

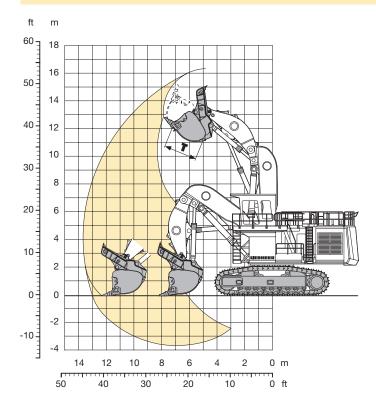
| Buckets                                          |             |              |              |              |              |
|--------------------------------------------------|-------------|--------------|--------------|--------------|--------------|
| Cutting width                                    | mm/in       | 2950/1161)   | 3300/1301)   | 3500/1381)   | 3700/1451)   |
| Capacity ISO 7451                                | m³/yd³      | 13,00/17.00  | 15,00/19.62  | 16,00/20.93  | 17,00/22.24  |
| Weight                                           | kg/lb       | 14100/31,090 | 14500/31,970 | 15000/33,070 | 15900/35,060 |
| Suitable for material up to a specific weight of | t/m³/lb/yd³ | 2,00/3,400   | 1,80/3,060   | 1,65/2,800   | 1,50/2,550   |

<sup>1)</sup> Heavy duty rock bucket with teeth size 85 SV 2

Additional buckets on request

## **Shovel Attachment**

with Shovel Boom 6,37 m/20'9" and Stick 4,20 m/13'8"



#### **Digging Envelope**

| Max. reach at ground level | 13,00 m/42'8" |
|----------------------------|---------------|
| Max. dump height           | 11,00 m/36'   |
| Max. crowd length          | 4,00 m/13'    |
| Bucket opening width T     | 2,15 m/ 7'1"  |
|                            |               |

Crowd force at ground level 1050 kN (107,2 t)/236,336 lbf (236,050 lb)

Max. crowd force 1210 kN (123,5 t)/272,271 lbf (272,019 lb)

Max. breakout force 935 kN ( 95,4 t)/210,321 lbf (210,197 lb)

# **Operating Weight and Ground Pressure**

The operating weight includes the basic machine with front shovel attachment and a 15,00  $\rm m^3/19.6~yd^3$  bucket.

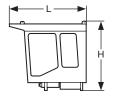
| Pad width       | mm/in                   | 850/33         |
|-----------------|-------------------------|----------------|
| Weight          | kg/lb                   | 253500/558,870 |
| Ground pressure | kg/cm <sup>2</sup> /psi | 2,12/30.15     |

| Buckets                                          |             |              |              |              |              |
|--------------------------------------------------|-------------|--------------|--------------|--------------|--------------|
| Cutting width                                    | mm/in       | 3700/1451)   | 3700/1451)   | 3700/1451)   | 3700/1451)   |
| Capacity ISO 7451                                | m³/yd³      | 11,00/14.3   | 13,00/17.0   | 15,00/19.6   | 17,00/22.2   |
| Weight                                           | kg/lb       | 27000/59,520 | 27500/60,630 | 27000/59,520 | 27200/59,970 |
| Suitable for material up to a specific weight of | t/m³/lb/yd³ | 2,40/4,000   | 2,00/3,400   | 1,80/3,000   | 1,50/2,500   |

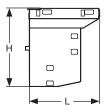
 $<sup>^{\</sup>rm 1)}$  Bottom dump bucket with Delta cutting edge and teeth size 85 SV 2

Additional bottom dump buckets on request

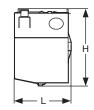
# **Component Dimensions and Weights**



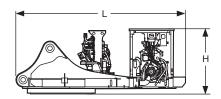
| Cab      |          |            |
|----------|----------|------------|
| L Length | mm/ft in | 3215/10'6" |
| H Height | mm/ft in | 2885/ 9'6" |
| Width    | mm/ft in | 1900/ 6'3" |
| Weight   | ka/lb    | 3400/7.500 |



| Cab Elevati | ion      |            |
|-------------|----------|------------|
| L Length    | mm/ft in | 2315/7' 6" |
| H Height    | mm/ft in | 2457/8'    |
| Width       | mm/ft in | 1496/8'19" |
| Weight      | kg/lb    | 3060/6,746 |



| F | vel Tank |          |            |
|---|----------|----------|------------|
| L | Length   | mm/ft in | 2550/ 8'3" |
| Н | Height   | mm/ft in | 3450/11'3" |
|   | Width    | mm/ft in | 3045/10'   |
|   | Weight   | kg/lb    | 1950/4,300 |

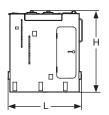


### Rotation Deck (with swing ring, swing gears, control valve bracket and engine with pumps)

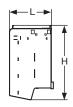
| L Length | mm/ft in | 7670/25' 2"  |
|----------|----------|--------------|
| H Height | mm/ft in | 2855/ 9' 4"  |
| Width    | mm/ft in | 4099/13'44"  |
| Weight   | kg/lb    | 39500/87,082 |



| C | ounterweight |          |              |
|---|--------------|----------|--------------|
| L | Length       | mm/ft in | 1025/ 3'3"   |
| Н | Height       | mm/ft in | 2730/ 8'9"   |
|   | Width        | mm/ft in | 6000/19'7"   |
|   | Weight       | kg/lb    | 25320/55,820 |

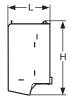


| <b>Hydraulic T</b> | ank      |             |
|--------------------|----------|-------------|
| L Length           | mm/ft in | 2325/7'6"   |
| H Height           | mm/ft in | 2582/8'5"   |
| Width              | mm/ft in | 1354/4'4"   |
| Weight             | kg/lb    | 5390/11,883 |

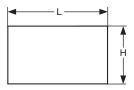


| Oil Radiator Installation |        |          |            |  |
|---------------------------|--------|----------|------------|--|
| L                         | Length | mm/ft in | 1595/5'2"  |  |
| Н                         | Height | mm/ft in | 2660/8'7"  |  |
|                           | Width  | mm/ft in | 2070/6'8"  |  |
|                           | Weight | kg/lb    | 1750/3,858 |  |

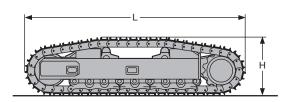
# **Component Dimensions and Weights**



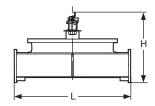
| Water Radiator Installation |          |            |
|-----------------------------|----------|------------|
| L Length                    | mm/ft in | 1565/5'1"  |
| H Height                    | mm/ft in | 2660/8'7"  |
| Width                       | mm/ft in | 2430/7'9"  |
| Weight                      | ka/lb    | 2980/6.569 |



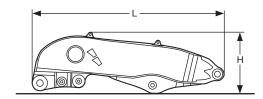
| S | mall Pieces |          |            |
|---|-------------|----------|------------|
| L | Length      | mm/ft in | 4500/14'7" |
| Н | Height      | mm/ft in | 2600/ 8'5" |
|   | Width       | mm/ft in | 2000/ 6'5" |
|   | Weight      | kg/lb    | 4500/9,920 |



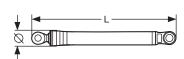
| Side Frame (two) |                            |          |                      |
|------------------|----------------------------|----------|----------------------|
| L                | Length                     | mm/ft in | 8240/27'             |
| Н                | Height                     | mm/ft in | 2180/ 7'1"           |
|                  | Width over travel drive    | mm/ft in | 2190/ 7'2"           |
|                  | Width without travel drive | mm/ft in | 1335/ 4'4"           |
|                  | Weight                     | kg/lb    | 2 x 37000/2 x 81,570 |



| Undercarri | Girder   |              |
|------------|----------|--------------|
| L Length   | mm/ft in | 3650/12'     |
| H Height   | mm/ft in | 2190/ 7'2"   |
| Width      | mm/ft in | 4420/ 4'5"   |
| Weight     | kg/lb    | 18500/40,785 |

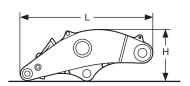


| <b>Shovel Boo</b> | m        |              |
|-------------------|----------|--------------|
| L Length          | mm/ft in | 7000/23'     |
| H Height          | mm/ft in | 2600/ 8'5"   |
| Width             | mm/ft in | 3300/10'8"   |
| Weight            | kg/lb    | 19240/42,417 |



| for Shovel Attachment |          |                    |  |
|-----------------------|----------|--------------------|--|
| L Length              | mm/ft in | 4300/14'1"         |  |
| Ø Diameter            | mm/ft in | 500/ 1'6"          |  |
| Weight                | kg/lb    | 2 x 3088/2 x 6,807 |  |

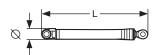
**Hoist Cylinder (two)** 



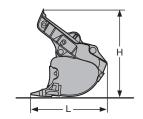
| <b>Shovel Stick</b> | k        |              |
|---------------------|----------|--------------|
| L Length            | mm/ft in | 4800/15'7"   |
| H Height            | mm/ft in | 2000/ 6'5"   |
| Width               | mm/ft in | 3100/10'1"   |
| Weight              | kg/lb    | 11750/25,904 |

2 x 3140/2 x 6,922

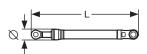
# **Component Dimensions and Weights**



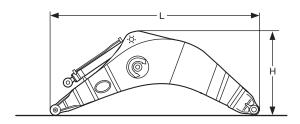
| C | rowd     | Cylinder | (two)    |                    |
|---|----------|----------|----------|--------------------|
| L | Length   | l        | mm/ft in | 3640/12'           |
| Ø | Diameter | I        | mm/ft in | 365/ 1'2"          |
|   | Weight   |          | kg/lb    | 2 x 1340/2 x 2,954 |



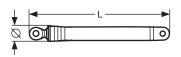
| <b>Bottom Du</b> | mp Bucket | 15,00 m <sup>3</sup> /19.6 yd <sup>3</sup> |
|------------------|-----------|--------------------------------------------|
| L Length         | mm/ft in  | 3600/11'8"                                 |
| H Height         | mm/ft in  | 3900/12'8"                                 |
| Width            | mm/ft in  | 3800/12'5"                                 |
| Weight           | kg/lb     | 27000/59,524                               |



# Bucket Tilt Cylinder (two) L Length mm/ft in mm/ft in mm/ft in weight 3830/12'5" Ø Diameter mm/ft in kg/lb 365/ 1'2" Veight kg/lb 2 x 1545/2 x 3,406



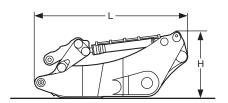
| Gooseneck<br>with Stick ( |          |              |
|---------------------------|----------|--------------|
| L Length                  | mm/ft in | 9600/31'5"   |
| H Height                  | mm/ft in | 3900/12'8"   |
| Width                     | mm/ft in | 2200/ 7'2"   |
| Weight                    | kg/lb    | 24500/54,013 |



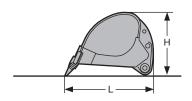
Weight

# Hoist Cylinders (two) for Backhoe Attachment L Length mm/ft in 4580/15' Ø Diameter mm/ft in 500/ 1'6"

kg/lb



| Stick with Bucket Cylinders |          |              |  |
|-----------------------------|----------|--------------|--|
| L Length                    | mm/ft in | 5900/19'3"   |  |
| H Height                    | mm/ft in | 2600/ 8'5"   |  |
| Width                       | mm/ft in | 2000/ 6'5"   |  |
| Weight                      | kg/lb    | 16020/35,318 |  |



| B | ackhoe | Bucket   | 15,00 m <sup>3</sup> /19.6 yd <sup>3</sup> |
|---|--------|----------|--------------------------------------------|
| L | Length | mm/ft in | 3900/12'8"                                 |
| Н | Height | mm/ft in | 2900/ 9'5"                                 |
|   | Width  | mm/ft in | 3400/11'1"                                 |
|   | Weight | kg/lb    | 13150/28,990                               |