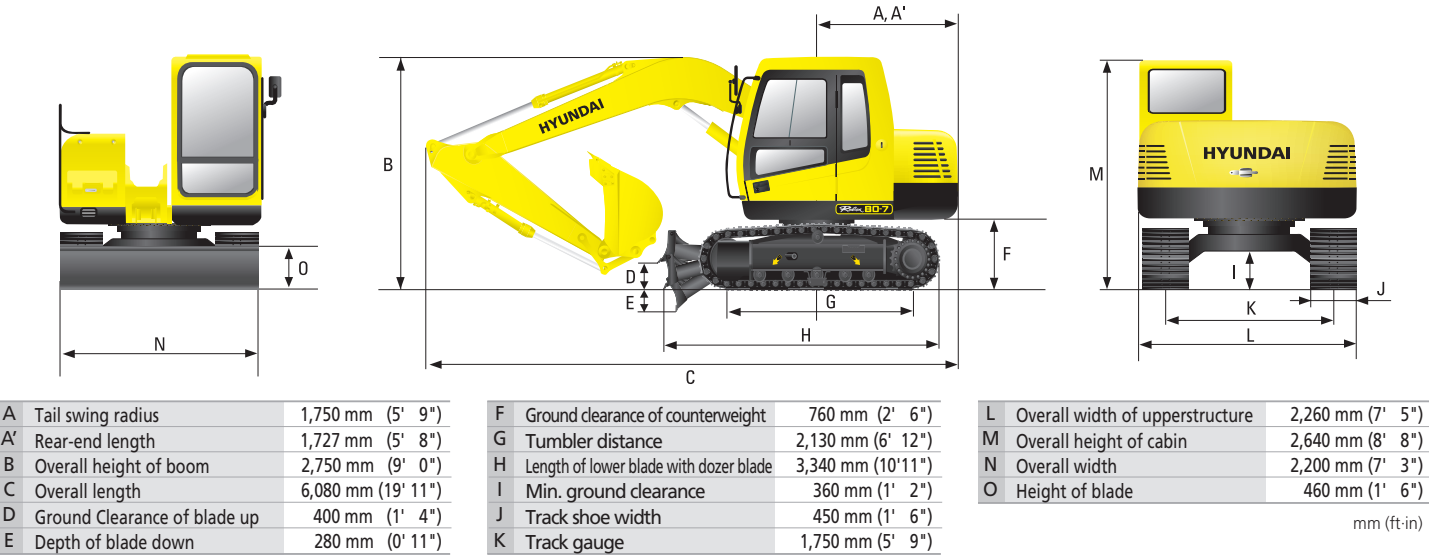
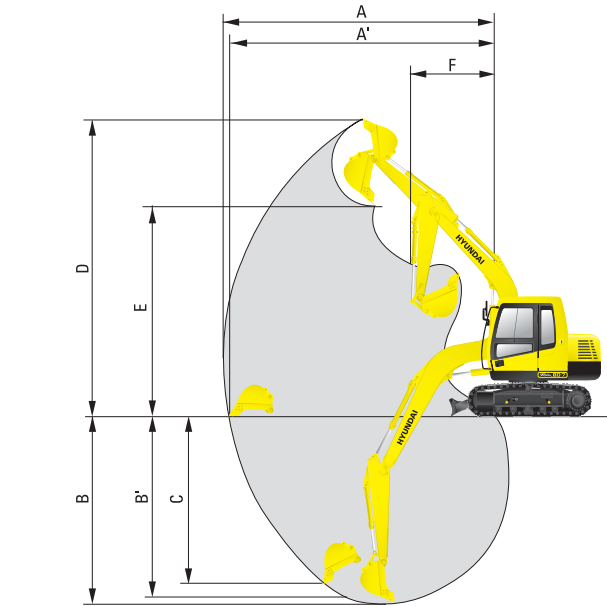


Dimensions



Working ranges



|             |                              |    |                                |                    |
|-------------|------------------------------|----|--------------------------------|--------------------|
| Boom length | 3,700 mm (12' 2")            | B' | Max. digging depth (8ft level) | 3,810 mm (12' 6")  |
| Arm length  | 1,670 mm (5' 6")             | C  | Max. vertical digging depth    | 3,200 mm (10' 6")  |
| A           | Max. digging reach           | D  | Max. digging height            | 7,260 mm (23' 10") |
| A'          | Max. digging reach at ground | E  | Max. dumping height            | 5,170 mm (16' 12") |
| B           | Max. digging depth           | F  | Min. swing radius              | 1,750 mm (5' 9")   |

mm (ft-in)

Standard Equipment

- ISO standard cabin**

  - All-weather steel cab with all-around visibility
  - Safety glass windows
  - Rise-up type windshield wiper
  - Sliding fold-in front window
  - Sliding side window
  - Lockable door
  - Hot & cool box
  - Accessory box & Ashtray

**Heater & Defroster**

**Self diagnostic system**

**Starting aid (air grid heater), cold weather**

**Centralized monitoring**

  - Engine speed
  - Gauges
    - Fuel level gauge
    - Engine coolant temperature gauge
  - Warning
    - Engine coolant & Fuel level
    - Engine oil pressure
    - Engine coolant temperature
    - Hyd. oil temperature
    - Low battery
    - Air cleaner clogging

**Door and cab locks, one key**
- AM/FM radio and USB player**

  - Remote control switch

**Two outside rearview mirrors**

**Fully adjustable suspension seat with seat belt**

**Slidable joystick, pilot-operated**

**Console box tilting system(LH.)**

**Three front working lights**

**Electric horn**

**Batteries (2 x 12V x 68AH)**

**Battery master switch**

**Removable clean out screen for oil cooler**

**Automatic swing brake**

**Removable reservoir tank**

**Water separator, fuel line**

**Boom holding system**

**Arm holding system**

**Counterweight (540kg, 1190lb)**

**Mono boom (3.7m, 12' 2")**

**Arm (1.67m, 5' 6")**

**Track shoes (450m, 18")**

**Track rail guard**

**Cabin roof-cover steel**

Optional Equipment

- Air-conditioner (5000 kcal/hr, 20000 BTU/hr)**

**Fuel filler pump (35ℓ /min, 9.3 US gpm)**

**Beacon lamp**

**Safety lock valve for boom cylinder**

**Single acting piping kit (breaker, etc)**

**Double acting piping kit (clamshell, etc)**

**Accumulator, work equipment lowering**

**Travel alarm**

**Lever Pattern Change Valve**

**12 volt power outlet (24V DC to 12V DC converter)**
- Lower frame under cover**

**Tool kit**

**Operator suit**

**Adjustable air suspension seat**

**Cabin roof-cover transparent**

**Adjustable air suspension seat with heater**

**Mechanical air suspension seat with heater**

**Track shoes (600 mm, 24 ")**

**Rubber track (450mm, 18")**

\* Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to International standards.  
\* The photos may include attachments and optional equipment that are not available in your area.  
\* Materials and specifications are subject to change without advance notice. \* All imperial measurements rounded off to the nearest pound or inch.

PLEASE CONTACT

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Some of the photos may include optional equipment.

 **HYUNDAI MIDI EXCAVATOR**  
Applied Tier 2 Engine  
**80-7**

 **HYUNDAI**  
HEAVY INDUSTRIES CO.,LTD.

We build a better future

# Hyundai *Robex* 80-7

Maximized Workability

Comfortable Operating Environment

Improve Fuel Efficiency

Advanced Hydraulic System

Greater Ability For Precise And Fine Operations By Better Controllability

Enhanced Durability & Reliability



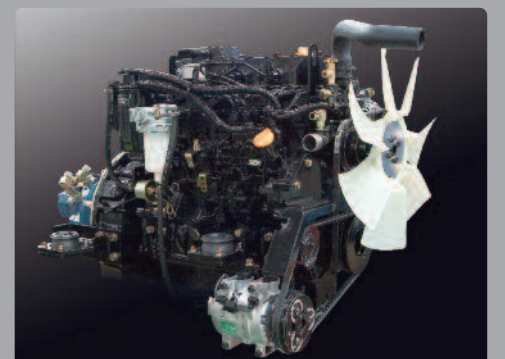
Powerful Low Emission Engine **Tier II**

**YANMAR 4TNV98**

**60HP / 2,100rpm**

Yanmar 4TNV98 engine provides 25.2 kgf-m (247 lbf-ft) of maximum torque with 60 HP at 2,100 rpm of rated power.

This means the R80-7 runs with the most power in its class, giving you more power to get the job done.



# Technology in Cab Design

## Wide, Comfortable Operating Space

All the controls are designed and positioned according to the latest ergonomic research. Reinforced pillars have also been added for greater cab rigidity.



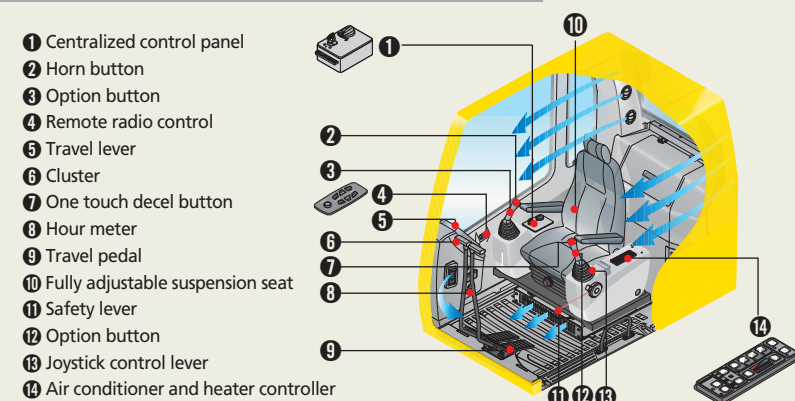
Some of the photos may include optional equipment.

# Reliability & Serviceability



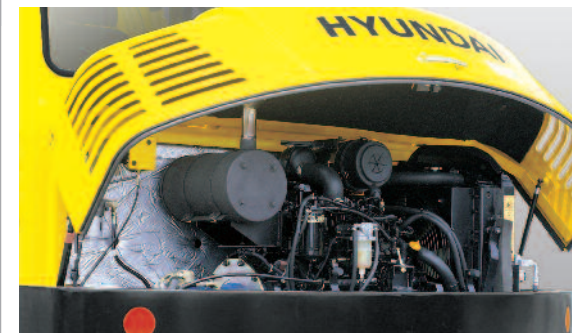
## Convenient and Comfortable Space

The best working conditions in a pleasant environment.



1 Wide, Comfortable Operating Space 2 Steel Cover Sunroof  
3 Dial Type Engine Speed Switch and Key Switch

## Easy Maintenance and Serviceability



### Easy to Maintain Engine Components

The R80-7 was built with accessibility in mind. All doors, covers and hoods were built for complete open access. You'll find that the R80-7 offers plenty of space to complete your regular maintenance and service hassle-free.

### Centralized Tool Box & Fuse Box



### Battery Master Switch



The battery master switch enables checking and maintaining the battery while minimizing the discharge of battery.



### Wide Cab with Excellent Visibility

The cab is roomy and ergonomically designed with low noise level and good visibility. A full view front window and large rear and side windows provide excellent visibility in all directions.



### Highly Sensitive Joystick and Easy Entrance

New joystick grips for precise control have been equipped with double switches. (Left: Power boost / One touch deceleration, Right: Horn/Optional)



### Storage box and Cup Holder

An additional storage box and cup holder are located behind operator's seat, and it keeps food and beverages cool or hot.



### Rear Emergency Exit Window

Rear Exit Window is designed with easy exit for operator's safety.



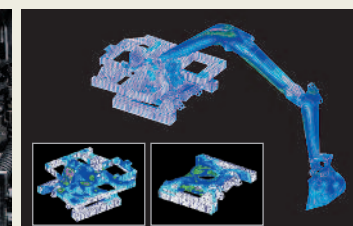
### Easy Change Air Cleaner

The R80-7 is fitted with durable plastic air cleaner for easy maintenance and quick service.



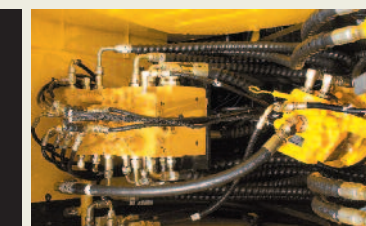
### High Capacity Water Separator & Fuel Filter

To protect the injection system, high capacity fuel filter and transparent water separator are applied.



### FEM (Finite Element Method)

Durability of structure is proven through FEM(Finite Element Method) analysis and long term durability test.



### Powerful and Precise Swing Control

Improved shock absorbing characteristics makes stopping a precise and smooth action.

# Specifications



## Engine

| Model                            |     |                | Yanmar 4TNV98                                                                          |
|----------------------------------|-----|----------------|----------------------------------------------------------------------------------------|
| Type                             |     |                | Water cooled, 4 cycle Diesel<br>4 cylinders in line, direct injection,<br>low emission |
| Rated flywheel<br>horse<br>power | SAE | J1995 (gross)  | 60 HP (44 kW) at 2100 rpm                                                              |
|                                  |     | J1349 (net)    | 58 HP (43 kW) at 2100 rpm                                                              |
|                                  | DIN | 6271/1 (gross) | 60.4 PS (44 kW) at 2100 rpm                                                            |
|                                  |     | 6271/1 (net)   | 59 PS (43 kW) at 2100 rpm                                                              |
| Max. torque                      |     |                | 25.2 kgf·m (247 lbf·ft) at 1000 rpm                                                    |
| Bore x stroke                    |     |                | 98 mm (3.86") x 110 mm (4.33")                                                         |
| Displacement                     |     |                | 3319 cc (202 cu in)                                                                    |
| Battery                          |     |                | 2 x 12 V x 68 AH                                                                       |
| Starter motor                    |     |                | 24 V-3.5 kW                                                                            |
| Alternator                       |     |                | 24V-40 A                                                                               |



## Hydraulic System

| Main pump                     |                                                                           |
|-------------------------------|---------------------------------------------------------------------------|
| Type                          | Two Variable displacement piston pumps                                    |
| Rated flow                    | 2 x 75.6ℓ /min                                                            |
| Sub-pump for pilot circuit    | Gear pump                                                                 |
| Hydraulic motors              |                                                                           |
| Travel                        | Two speed axial piston motor with counter balance valve and parking brake |
| Swing                         | Axial piston motor with automatic brake                                   |
| Relief valve setting          |                                                                           |
| Implement circuits            | 280 kgf/cm <sup>2</sup> (3980 psi)                                        |
| Travel circuit                | 300 kgf/cm <sup>2</sup> (4267 psi)                                        |
| Swing circuit                 | 210 kgf/cm <sup>2</sup> (2990 psi)                                        |
| Pilot circuit                 | 35 kgf/cm <sup>2</sup> ( 500 psi)                                         |
| Service valve                 | Installed                                                                 |
| Hydraulic cylinders           |                                                                           |
| No. of cylinder-bore x stroke | Boom : 1 - 115 x 980 mm (4.5" x 38.6")                                    |
|                               | Arm : 1 - 95 x 860 mm (3.7" x 33.9")                                      |
|                               | Bucket : 1 - 85 x 665 mm (3.3" x 26.2")                                   |
|                               | Dozer blade : 1 - 110 x 152 mm (4.3" x 6.0")                              |



## Drives & Brakes

|                               |                                           |
|-------------------------------|-------------------------------------------|
| Drive method                  | Full hydrostatic type                     |
| Drive motor                   | Axial piston motor, in-shoe design        |
| Reduction system              | Planetary reduction gear                  |
| Max. drawbar pull             | 6,400 kgf (11,700 lbf)                    |
| Max. travel speed(high)/(low) | 4.8 km/hr (2.5 mph) / 3.0 km/hr (1.4 mph) |
| Gradeability                  | 35° (70%)                                 |
| Parking brake                 | Multi-wet disc                            |



## Swing System

|                           |                          |
|---------------------------|--------------------------|
| Swing motor               | Axial piston motor       |
| Swing reduction           | Planetary gear reduction |
| Swing circuit lubrication | Grease - bathed          |
| Swing brake               | Multi wet disc           |
| Swing speed               | 12.0 rpm                 |



## Control

Pilot pressure-operated joysticks and pedal with detachable lever provide almost effortless and fatigueless operation.

|                        |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
| Pilot control          | Two joysticks with one safety lever (LH): Swing and arm, (RH): Boom and bucket(ISO) |
| Traveling and steering | Two levers with pedals                                                              |
| Engine throttle        | Mechanical, cable type                                                              |
| External Lights        | Two lights mounted on the boom one below the cab                                    |



## Coolant & Lubricant Capacity

| (refilling)               | liter | US gal | UK gal |
|---------------------------|-------|--------|--------|
| Fuel tank                 | 135.0 | 35.7   | 29.7   |
| Engine coolant (6.57+4.2) | 10.8  | 2.9    | 2.4    |
| Engine oil                | 12.0  | 3.2    | 2.6    |
| Swing device-gear oil     | 1.5   | 0.4    | 0.3    |
| Final drive(each)         | 1.2   | 0.3    | 0.2    |
| Hydraulic tank            | 75.0  | 19.8   | 16.5   |
| Hydraulic system          | 130.0 | 34.3   | 28.6   |



## Undercarriage

X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricate rollers, track adjusters with shock absorbing springs and sprockets, and track chain with triple grouser shoes.

|                                    |                     |
|------------------------------------|---------------------|
| Center frame                       | X - leg type        |
| Track frame                        | Pentagonal box type |
| No. of shoes on each side          | 38                  |
| No. of carrier roller on each side | 1                   |
| No. of track roller on each side   | 5                   |



## Operating Weight (approximate)

Operating weight, including 3,700 mm (12' 2") boom, 1,670 mm (5' 6") arm, SAE heaped 0.28 m<sup>3</sup> (0.37 yd<sup>3</sup>) backhoe bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

| Major component weight       |                      |  |
|------------------------------|----------------------|--|
| Upper structure              | 3,060 kg ( 6,610 lb) |  |
| Counterweight                | 540 kg ( 1190 lb)    |  |
| Mono boom(with arm cylinder) | 610 kg ( 1340 lb)    |  |

### Operating Weight

| Shoes(Triple grouser) mm (in) | Operating weight kg (lb) | Ground pressure kgf/cm <sup>2</sup> (psi) |
|-------------------------------|--------------------------|-------------------------------------------|
| * 450 (18")                   | 7,800 (17,200)           | 0.33(4.69)                                |
| 600 (24")                     | 7,960 (17,550)           | 0.28(3.98)                                |

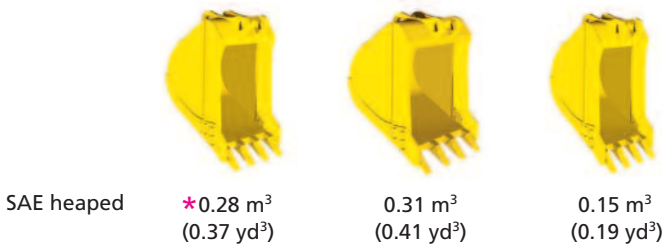
\*: Standard equipment



## Buckets

| Capacity                                    |                                            | Width                |                   | Weight         | 3.70m (12' 2") Boom |
|---------------------------------------------|--------------------------------------------|----------------------|-------------------|----------------|---------------------|
| SAE heaped                                  | CECE heaped                                | Without side cutters | With side cutters |                | 1.67m (5'6") arm    |
| *0.28m <sup>3</sup> (0.37 yd <sup>3</sup> ) | 0.25m <sup>3</sup> (0.33 yd <sup>3</sup> ) | 665mm (26.2")        | 760mm (29.9")     | 230kg (510 lb) | □                   |
| 0.31m <sup>3</sup> (0.41 yd <sup>3</sup> )  | 0.27m <sup>3</sup> (0.35 yd <sup>3</sup> ) | 720mm (28.3")        | 815mm (32.1")     | 245kg (540 lb) | □                   |
| 0.15m <sup>3</sup> (0.19 yd <sup>3</sup> )  | 0.13m <sup>3</sup> (0.17 yd <sup>3</sup> ) | 390mm (15.4")        | 460mm (18.1")     | 190kg (420 lb) | □                   |

\*: Standard backhoe bucket □ Applicable for materials with density 1600 kg/m<sup>3</sup> (2,700 lb/yd<sup>3</sup>) or less



| Arm                  | Length Weight | * 1,670 mm (5' 6")               |
|----------------------|---------------|----------------------------------|
|                      |               | 310 kg (680 lb)                  |
| Bucket digging force | SAE           | 44.1 kN<br>4500 kgf<br>9920 lbf  |
|                      | ISO           | 51.0 kN<br>5200 kgf<br>11460 lbf |
| Arm crowd force      | SAE           | 38.2 kN<br>3900 kgf<br>8600 lbf  |
|                      | ISO           | 39.2 kN<br>4000 kgf<br>8820 lbf  |

\*: Standard Arm (Arm weight including cylinder and linkage)



## Lifting Capacities R80-7

• Boom : 3.7m(12'2") • Arm : 1.67m(5' 6") • Bucket : 0.28 m<sup>3</sup> (0.37 yd<sup>3</sup>) SAE heaped • Shoe : 450mm(18") triple grouser the dozer blade up

| Load point height m(ft) |       | Load radius     |                 |                |                |              |              | At max. reach |              |                |
|-------------------------|-------|-----------------|-----------------|----------------|----------------|--------------|--------------|---------------|--------------|----------------|
|                         |       | 1.5m(5ft)       |                 | 3.0m(10ft)     |                | 4.5m(15ft)   |              | Capacity      |              | Reach          |
|                         |       | □               | □               | □              | □              | □            | □            | □             | □            | m (ft)         |
| 5.0m (15ft)             | kg lb |                 |                 | *1810<br>*3990 | *1810<br>*3990 |              |              | 1160<br>2560  | 1050<br>2310 | 5.06<br>(16.6) |
| 4.0m (15ft)             | kg lb | *3900<br>*8600  | *3900<br>*8600  | *2380<br>*5250 | *2380<br>*5250 | 1390<br>3060 | 1250<br>2760 | 880<br>1940   | 790<br>1740  | 5.75<br>(18.9) |
| 3.0m (10ft)             | kg lb |                 |                 | 2540<br>5600   | 2230<br>4920   | 1290<br>2840 | 1160<br>2560 | 790<br>1740   | 710<br>1570  | 5.95<br>(19.5) |
| Ground Line             | kg lb |                 |                 | 2340<br>5160   | 2040<br>4500   | 1210<br>2670 | 1080<br>2380 | 820<br>1810   | 740<br>1630  | 5.70<br>(18.7) |
| 2.0m (5ft)              | kg lb | *4800<br>*10580 | *4800<br>*10580 | 2300<br>5070   | 2000<br>4410   | 1190<br>2620 | 1060<br>2340 | 1050<br>2310  | 950<br>2090  | 4.93<br>(16.2) |
| 1.0m (5ft)              | kg lb | *3960<br>*8730  | *3960<br>*8730  | *2340<br>*5160 | 2100<br>4630   |              |              |               |              |                |

• Boom : 3.7m(12'2") • Arm : 1.67m(5' 6") • Bucket : 0.28 m<sup>3</sup> (0.37 yd<sup>3</sup>) SAE heaped • Shoe : 450mm(18") triple grouser the dozer blade down

| Load point height m(ft) |       | Load radius     |                 |                |                |                |              | At max. reach  |              |                |
|-------------------------|-------|-----------------|-----------------|----------------|----------------|----------------|--------------|----------------|--------------|----------------|
|                         |       | 1.5m(5ft)       |                 | 3.0m(10ft)     |                | 4.5m(15ft)     |              | Capacity       |              | Reach          |
|                         |       | □               | □               | □              | □              | □              | □            | □              | □            | m (ft)         |
| 4.5m (15ft)             | kg lb |                 |                 | *1810<br>*3990 | *1810<br>*3990 |                |              | *1690<br>*3730 | 1120<br>2470 | 5.06<br>(16.6) |
| 3.0m (10ft)             | kg lb | *3900<br>*8600  | *3900<br>*8600  | *2380<br>*5250 | *2380<br>*5250 | *1930<br>*4250 | 1330<br>2930 | *1710<br>*3770 | 850<br>1870  | 5.75<br>(18.9) |
| 1.5m (5ft)              | kg lb |                 |                 | *3330<br>*7340 | 2400<br>5290   | *2230<br>*4920 | 1240<br>2730 | *1760<br>*3880 | 760<br>1680  | 5.95<br>(19.5) |
| Ground Line             | kg lb |                 |                 | *3800<br>*8380 | 2200<br>4850   | *2420<br>*5340 | 1160<br>2560 | *1810<br>*3990 | 790<br>1740  | 5.70<br>(18.7) |
| -1.5m (5ft)             | kg lb | *4800<br>*10580 | *4800<br>*10580 | *3560<br>*7850 | 2160<br>4760   | *2220<br>*4890 | 1140<br>2510 | *1790<br>*3950 | 1010<br>2230 | 4.93<br>(16.2) |
| -3.0m (10ft)            | kg lb | *3960<br>*8730  | *3960<br>*8730  | *2340<br>*5160 | 2260<br>4980   |                |              |                |              |                |

NOTES 1. Lifting capacity is based on SAE J1097, ISO 10567.  
2. Lifting capacity of the Robex Series 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 (standard equipment) located on the back of the bucket.  
4. (\*) indicates load limited by hydraulic capacity.