Standard Equipment

ISO standard cab
All-weather steel cab with all-around visibility
Safety glass windows
Rear-view type windshield wiper
Sliding fold-in front door
Sliding side window
Loudspeaker door
Accessory box & Ash tray
Alcohol and cigarette
Radio remote switch
CD player

Computer Aided Power Optimization
(Non-CAP0 system)
2-power mode, 3-work mode, 2-user mode
Auto deceleration & one touch deceleration system
Auto warm-up system
Auto overheat prevention system

FATC (Full Automatic Temperature Control)
Heater & Defroster
Self diagnostic system
Centralized monitoring

LCD display
Engine speed
Clock & Error code
Warning
Fuel level
Check Engine & CPU
Engine oil pressure
Engine coolant temperature
Low battery
Air cleaner clogging
Power boost
Engine overheat prevention
Autolocate (touch) decrecel
Preheat (Air grids heater)
Door and cab locks, one key
Two outside rearview mirrors
Fully adjustable suspension seat with seat belt
Driver joystick, pilot-operated
Console box tilting system (LA)
10BA front working light
3BA Rear working light
Electric horn
Battery box (4 x 12V x 200AH)
Battery master switch
Removable reservoir tank
Automatic swing brake
Water separator & Fuel pre-filter, final line

Optional Equipment

Sun visor for cabin inside
Fuel filler pump (35.2 liters, 12USGallons)
Beacon lamp
Safety lock valve for boom cylinder with overload warning device
Safety lock valve for arm cylinder
Single acting piping kit (breaker, etc)
Double acting piping kit (clamshell, etc)
Accumulator, work equipment lowering
Engine oil temperature gauge (20V DC, 12V DC converter)
Electric transducer
Air-conditioner (20000BTU/hr)
Four way seat heater
Various optional Booms
Long boom (9.6m, 31’ 3”)
Long boom (9.8m, 32’ 1”)

Various optional Arms
Long arm (5.5m, 18’ 1”)
Long arm (5.7m, 18’ 8”)

Various optional Buckets
Standard bucket (4.53m3, 5.93yd3)
Narrow bucket (3.4m3, 4.45yd3)
Light duty bucket (4.8m3, 6.28yd3)
Light duty bucket (5.1m3, 6.67yd3)
Rock bucket (3.4m3, 4.45yd3)

Cabin lights
FOPS / FOG (ISO 10262)
Cabin Roof-Cover Transparency

Track shoes
Double grouser shoe (1000mm, 39”)
Double grouser shoe (1000mm, 39”)

Prohibiting system
Test kit
Operator suit
Special cowl
Tropical kit
Seat
Mechanical Suspension seat with heater
Adjustable air suspension seat with heater

Stand and optional equipment may vary. Contact your Hyundai dealer for more information. The machine shown may vary according to International standards.

All US measurement rounded off to nearest pounds or inches.
Built for Maximum Power, Performance, Reliability.

A new chapter in construction equipment has now begun. Making the dream a reality.

Robex 800LC-7A
Technology in Cab Design

Visibility
- Even more visibility than before, for safer, more efficient operating.

Excellent Ventilation
- Ventilation has been improved by the addition of the larger fresh air intake system, and by providing additional air flow throughout the cab.
- Sliding front and side windows provide improved ventilation.
- A large sunroof offers upward visibility and additional ventilation.

Comfortable Operator Environment
- The control levers and seat can be adjusted to provide maximum operator comfort.
- The seat is fully adjustable for optimum operating position, reducing operator fatigue.
- Console boxes slide forward and backward for improved accessibility.
- The proportional pressure controls reduce unnecessary exertion while ensuring precise operation.
- Large windows allow excellent visibility in all directions.

Low noise design
- The Robex 7 series was designed with low operation noise in mind.
- Hyundai engineering helps to keep interior and exterior noise levels to a minimum.
- The cab’s noise levels have been additionally reduced by improving the door seals for the cab and engine compartments.
- An insulated diesel engine compartment with sound-damping material also reduces noise.
Operating Environment

Improved Intelligent Display
Instrument Panel is installed in front of RH console box. It is easy to check all critical systems with easy-to-read indicators.

Minimization of Shock and Vibration through Cab Mounting System
The application of Viscous Mounting to the cabin support provides the operator with a much improved ride. The operator work efficiency will increase as the shock and noise level in the cabin decreases.

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.

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.

Smooth Travel Pedal and Foot Rests

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.

Highly Sensitive Joystick and Easy Entrance
New joystick grips for precise control have been equipped with 4 switches.

Easy-to-Reach Control Panels
Switches and other essential controls are located near the operator. This helps keep operator movement to a minimum, enhancing control with less operator fatigue.

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

Raise-up Wiper and Cabin Lights
Raise-up wiper has enhanced for the better front view. Cabin Lights enhances safety by brightly lighting the surroundings during night work.

The best working conditions in a pleasant environment.
Advanced Hydraulic System

The advanced CAPO (Computer Aided Power Optimization) system maintains engine and pump flow in optimum levels. Mode selections are designed for various work loads and maximum performance while reducing fuel consumption.

Features such as auto deceleration and power boost are included in the system. The system monitors engine speed, coolant temperature, and hydraulic oil temperature. Contained within the system are self-diagnostic capabilities which are displayed by error codes on the cluster.

Auto Deceleration System

When remote control valves are in neutral position more than 4 seconds, CPU controller instructs the actuator to reduce engine speed to 1,150rpm. This decreases fuel consumption and reduces cab noise levels.

Max. Flow Cut-off System

For precise control and finishing work, the Max. Flow Cut-off System reduces pump flow, thus allowing smooth operation.

Self Diagnosis System

The CPU controller diagnoses problems in the CAPO system caused by electric and hydraulic malfunctions and displays them on the LCD monitor of the cluster through error codes. This controller has the capacity to identify 48 distinct types of errors. As the information from this device, such as engine rpm, main pump delivery pressure, battery voltage, hyd. temperature, and the state of all types of electric switches, provides the operator with a much more exact state of machine operating condition.

This makes the machine easier to troubleshoot when anything does go wrong.

One Touch Decel System

When the one touch decel switch is pressed, CPU controller controls the actuator to reduce engine speed to 800 rpm. And then the one touch decel switch is pressed again, the engine speed recovers.

Pump Flow Control System

In neutral position: Pump flow is reduced to a minimum to eliminate power loss. In operation: Maximum pump flow is delivered to the actuator to increase the speed. With movement of the control lever, pump flow is automatically adjusted and the actuator speed can be proportionally controlled.

Boom & Arm Holding System

The holding valves in the main control valve prevents the boom & arm from dropping over an extended period in neutral position.

Arm Flow Regeneration System

Arm flow regeneration valve provides smooth arm-in operation without cavitation.

Hydraulic Damper in Travel Pedal

Improved travel controllability & feeling by shock reduction when starting and stopping.

Track Rail Guide & Adjusters

Durable track rail guides keep track links in place. Track adjustment is made easy with standard grease cylinder track adjusters and shock absorbing springs. (Full Track Guide : Option)

Reinforced Bucket and Bucket Linkage

Sealed and adjustable bucket linkage provides less wear of pins and bushes as well as silent operation. The design includes bucket link durability and anti wear characteristics. Additional reinforcement plates on cutting edge section. Reinforced bucket is made with thicker steel and additional lateral plate.

Powerful and Preciser Swing Control

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

Increased Higher Performance

Setting the standard in clean, efficient power.

The QSX15 features dual overhead cams for superior performance. The first cam drives up to 30,000 psi (2,000 bar) of fuel injection for cleaner, more powerful combustion. The second cam operates the intake and exhaust valves, with a separate set of lobes specifically designed to operate the optional intercooler. TM capable of up to 400hp (298kW). Improved power cylinder components provide up to 40% longer life before cylinder wear out. A patented wastegated turbo with variable step settings delivers maximum performance without over boost at high speeds and increased airflow at lower speeds for improved responsiveness.

The six cylinders, turbo-charged, 4 cycle. Charge air-cooled engine is built for power, reliability, economy and low emissions. This engine meets Tier 3 emissions regulations.

CUMMINS QSX15 Engine

The six cylinders, turbo-charged, 4 cycle. Charge air-cooled engine is built for power, reliability, economy and low emissions. This engine meets Tier 3 emissions regulations.
Reliability & Serviceability

Full open doors and master key system provide easy access for servicing.

Side Cover with Left & Right Swing Open Type
Easy access to vital components gives unrestricted view of component allows easy maintenance and repair.

Centralized Electric Control Box and Easy Change Air Cleaner Assembly
Electric control box and Air cleaner are centralized in one or the same compartment for easy service.

Highly efficient Hydraulic Pump
Pump output capacity has been increased.

Easy to maintain engine components
The cooling and preheating system are provided for optimum and immediate operation, guaranteeing longer life for the engine and hydraulic components. Servicing of the engine and hydraulics is considerably simplified due to total accessibility.

Large tool box for extra storage

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

#### Engine

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Cerevisus DXS 15</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Watercooled, 4-cylinder Diesel, 6-Cylinders in line, direct injection, Turbocharged, Charged air cooled, Low emission</td>
</tr>
</tbody>
</table>

#### Hydraulic system

<table>
<thead>
<tr>
<th>Main pump</th>
<th>Type</th>
<th>74 Kgf/cm² (1,080 psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow</td>
<td></td>
<td>2.5 m³/min(115.5 gpm) (8.9 gpm)</td>
</tr>
<tr>
<td>Sub-pump</td>
<td></td>
<td>Gear pump</td>
</tr>
<tr>
<td>Cross-sensing and fuel saving pump system</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Hydraulic motors

<table>
<thead>
<tr>
<th>Description</th>
<th>R490LC-7A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Travel</td>
<td>Two speed axial piston motor with brake valve and parking brake</td>
</tr>
<tr>
<td>Swing</td>
<td>Axial piston motor with automatic brake</td>
</tr>
<tr>
<td>Relief valve setting</td>
<td></td>
</tr>
<tr>
<td>Implement circuit</td>
<td>330 Kgf/cm² (4,860 psi)</td>
</tr>
<tr>
<td>Travel</td>
<td>260 Kgf/cm² (3,800 psi)</td>
</tr>
<tr>
<td>Power boost (boom, arm, bucket)</td>
<td>360 Kgf/cm² (5,500 psi)</td>
</tr>
<tr>
<td>Swing circuit</td>
<td>260 Kgf/cm² (3,760 psi)</td>
</tr>
<tr>
<td>Pilot circuit</td>
<td>40 Kgf/cm² (58 psi)</td>
</tr>
<tr>
<td>Service valve</td>
<td>Installed</td>
</tr>
</tbody>
</table>

#### Hydraulic cylinders

<table>
<thead>
<tr>
<th>No. of cylinder x rod x stroke</th>
<th>Boom : 2-200 x 140 x 1,480 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Arm : 1-376 x 160 x 2,290 mm</td>
</tr>
<tr>
<td></td>
<td>Bucket : 1-280 x 140 x 1,560 mm</td>
</tr>
</tbody>
</table>

#### Drives & Brakes

<table>
<thead>
<tr>
<th>Description</th>
<th>Fully hydrostatic type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive method</td>
<td>Axial piston motor, in-shoe design</td>
</tr>
<tr>
<td>Reduction system</td>
<td>Planetary reduction gear</td>
</tr>
<tr>
<td>Max. drawbar pull</td>
<td>4,060 Kgf (8,900 lb)</td>
</tr>
<tr>
<td>Max. drawbar pull (ISO)</td>
<td>3,250 Kgf (7,180 lb)</td>
</tr>
<tr>
<td>Gradeability</td>
<td>35%</td>
</tr>
<tr>
<td>Parking brake</td>
<td>Multi-wet disc</td>
</tr>
</tbody>
</table>

#### Control

<table>
<thead>
<tr>
<th>Description</th>
<th>Power Boost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine throttle</td>
<td>Electric, Dial type</td>
</tr>
<tr>
<td>External Lights</td>
<td>Two lights mounted on the boom box under the battery box</td>
</tr>
</tbody>
</table>

### SAE specifications

<table>
<thead>
<tr>
<th>Capacity (mp/hr)</th>
<th>Width mm (in)</th>
<th>Weight (kgf)</th>
<th>Recommendation (mp/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAE heaped</td>
<td>3.40 (4.45)</td>
<td>4.53 (6.0)</td>
<td>4.80 (6.20)</td>
</tr>
<tr>
<td>SAE heaped</td>
<td>3.40 (4.45)</td>
<td>5.10 (6.07)</td>
<td>3.40 (4.45)</td>
</tr>
</tbody>
</table>

#### Backhoe attachment

- Boom arms are of all-welded, low-stress, full-box-section design. 7,100mm (23’7”), 8,050mm (26’5”), 8,200mm (26’9”) boom and 2,950mm (9’8”), 3,400mm (11’2”), 3,600mm (11’8”) arms are available. Hyundai Backhoes are all-welded, high-strength steel implements.

#### Operation weight (approximate)

| Operating weight, including 7,200mm (23’7”) boom, 2,500mm (9’8”) arm, SAE heaped 4.53 m³ (6.03 yd³) backhoe bucket, lubricant, coolant, fuel, fuel tank, hydraulic tank and the standard equipment. |

<table>
<thead>
<tr>
<th>Major component weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper structure</td>
</tr>
<tr>
<td>Counterweight</td>
</tr>
<tr>
<td>Boom (with Arm cylinder)</td>
</tr>
</tbody>
</table>

#### Digging force

<table>
<thead>
<tr>
<th>Description</th>
<th>* 2,700 (3’7”)</th>
<th>6,050 (16’9”)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Booms</td>
<td>1.27 (2’0”)</td>
<td>3.40 (4.45)</td>
</tr>
<tr>
<td>Arm length</td>
<td>0.90 (3’0”)</td>
<td>2.50 (8’2”)</td>
</tr>
<tr>
<td>Arm width</td>
<td>0.50 (2’0”)</td>
<td>1.05 (4’0”)</td>
</tr>
</tbody>
</table>

#### Bucket specifications

- **SAE heaped (3’7”)**
- **4.53 (6.0) mm**
- **4.80 (6.20) mm**
- **5.10 (6.07) mm**
- **3.40 (4.45) mm**

**Remark**

- Applicable for materials with density of 2,000 kg/m³ (125 lb/yd³) or less
- Applicable for materials with density of 1,800 kg/m³ (115 lb/yd³) or less
- Applicable for materials with density of 1,100 kg/m³ (70 lb/yd³) or less

<table>
<thead>
<tr>
<th>Note</th>
<th>Arm width including bucket cylinder and linkage.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>*Standard arm</td>
</tr>
</tbody>
</table>
### Dimensions

#### Working ranges

- **Dimension 1:** [Image]
- **Dimension 2:** [Image]

### Lifting Capacities

#### Lifting capacities

<table>
<thead>
<tr>
<th>Load point (m)</th>
<th>3.0m (10.0ft)</th>
<th>4.5m (15.0ft)</th>
<th>6.0m (20.0ft)</th>
<th>7.5m (25.0ft)</th>
<th>9.0m (30.0ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>30°</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Normal load</td>
<td>7,200(24')</td>
<td>5,340(17')</td>
<td>3,870(12')</td>
<td>3,000(10')</td>
<td>2,500(8')</td>
</tr>
<tr>
<td>Over-side</td>
<td>*3,8980</td>
<td>*2,9280</td>
<td>*2,5700</td>
<td>*2,0540</td>
<td>*1,8540</td>
</tr>
<tr>
<td>Over-front</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**
1. Lifting capacity is based on SAE J097, 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. * indicates load limited by hydraulic capacity.
### Lifting Capacities

#### Boom: 8,500 mm (28')  
**Amm: 3,400 mm (11'2")**  
**Bucket: 3.4m³ (4.45yd³) SAE heel**  
**Shoe: 1700mm x 2110mm audacious shoe and 12,500kg (27,560lb) counterweight.**

<table>
<thead>
<tr>
<th>Load point height (m)</th>
<th>3.0m (10')</th>
<th>4.5m (16')</th>
<th>6.0m (20')</th>
<th>9.0m (30')</th>
<th>15m (50')</th>
<th>Capacity (m³)</th>
<th>Reach (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(-3.0ft)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(-15.0ft)</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(-10.0ft)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>(-5.0ft)</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>(0.0ft)</td>
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<tr>
<td>(5.0ft)</td>
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<td></td>
</tr>
<tr>
<td>(10.0ft)</td>
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<td></td>
<td></td>
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<tr>
<td>(15.0ft)</td>
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<tr>
<td>(20.0ft)</td>
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<tr>
<td>(25.0ft)</td>
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<td></td>
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<tr>
<td>(30.0ft)</td>
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<td></td>
</tr>
<tr>
<td>(35.0ft)</td>
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</tr>
</tbody>
</table>

**NOTES:**
1. Lift capacity is based on SAE J2037, ISO 10807.
2. Lift capacity of the Robex Series does not exceed 75% of tipping load with the machine on firm, level ground.
3. The load point is a hook (standard equipment) located on the back of the bucket.
4. (1) indicates load limited by hydraulic capacity.

#### Load radius at max. reach:
- **Shoe:** 3.40 m (11' 2")
- **Arm:** 3.60 m (11' 8")

**NOTES:**
1. Lift capacity is based on SAE J2037, ISO 10807.
2. Lift capacity of the Robex Series does not exceed 75% of tipping load with the machine on firm, level ground.
3. The load point is a hook (standard equipment) located on the back of the bucket.
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