



ROBEX 160LC-7

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 & Ash-tray

Computer Aided Power Optimization(New CAPO) system

- 2-power mode, 3-work mode, 2-user mode
- Auto deceleration & one touch deceleration system
- Auto warm up system
- Auto overheat prevention system

Heater & Defroster

Self diagnostic system

Starting Aid, cold weather

Centralized monitoring

- LCD display
 - Engine speed
 - Clock & Error code
- Gauges
 - Fuel level gauge
 - Engine coolant temperature gauge
 - Hyd. oil temperature gauge
- Warning
 - Engine coolant & Fuel level
 - Check Engine & CPU
 - Engine oil pressure
 - Engine coolant temperature
 - Hyd. oil temperature
 - Low battery
 - Air cleaner clogging
- Indicator
 - Power max.
 - Preheat & Engine warming-up
 - One touch decel

Door and cab locks, one key

AM/FM radio and cassette

- Radio remote 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 12 V x 100 AH)

Battery master switch

Automatic swing brake

Removable reservoir tank

Water separator, fuel line

Boom holding system

Arm holding system

Counterweight (2950 kg, 6500 lb)

Mono boom (5.1 m, 16' 9")

Arm (2.6m, 8' 6")

Track shoes (600 mm, 24")

Track rail guard

Optional Equipment

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

Sun visor for cabin inside

Fuel filler pump(36 ℓ /min, 9.5 USgpm)

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

12 volt power supply(DC - DC converter)

Electric transducer

Travel alarm

Various optional Arms

· Short arm (2.20 m, 7' 3")

· Long arm (3.10 m, 10' 2")

Various optional Buckets(SAE heaped)

· Standard bucket (0.70m³, 1.20 yd³)

· Narrow bucket (0.39 m³, 0.51 yd³)

· Narrow bucket (0.50 m³, 0.44 yd³)

· Narrow bucket (0.64 m³, 0.55 yd³)

· Light duty bucket(0.89 m³, 1.16 yd³)

· Heavy duty bucket(0.69 m³, 0.9 yd³)

Cabin lights

Cabin FOPS/FOG (IOS 10262)

Cabin Roof Cover - Transparent Type

Track shoes

· Triple grousers shoe (500mm, 20")

· Triple grousers shoe (700mm, 28")

Lower frame under cover

Preheating system

Tool kit

Operator suit

Special cooling

· Air vent type side door

Low noise kit

Manual throttle cable for emergency

Building a better future
Global Leader

Robex NEW 7 SERIES

160LC-7

160LCD-7

Tier II Engine



CRAWLER EXCAVATOR

Mitsubishi S6S-DT :

94 kW/ 126 hp

Operating Weight (STD) :

17,400 kg (38,360 lb)

Bucket capacity, SAE :

0.39~0.89m³ (0.51~1.16yd³)

Standard 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.

HYUNDAI
HEAVY INDUSTRIES CO., LTD.
CONSTRUCTION EQUIPMENT DIVISION

HEAD OFFICE 1 CHEONHA - DONG, DONG-KU, ULSAN, KOREA
(Sales Office) TEL : (82)52)230 - 7970, 7729 FAX (82)52)230 - 7720, 7979
U.S. Operation 955 ESTES AVENUE ELK GROVE VILLAGE IL... 60007
TEL : (1)847 - 437 - 3333 FAX : (1)847 - 437 - 3574
European Operation VOSSENDAAL 11, 2440 GEEL, BELGIUM
TEL : (32)14 - 562200 FAX : (32)14 - 593405 - 06

PLEASE CONTACT

OOO "Техномир"
664024 Россия, Иркутская область, г. Иркутск,
ул. Тракторная, д.18а оф.12.
www.hyundai-mir.ru
(3952) 722-735, (3952) 722-745, (3952) 722-785

www.hyundai-ce.com

2004. 2 Rev 1.

■ Photo may include optional equipment.

HYUNDAI
HEAVY INDUSTRIES CO., LTD.

Built for Maximum Power, Performance, Reliability.

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



※ Photo may include optional equipment.

Operator's Comfort is Foremost. Wide Cab Exceeds Industry Standards.



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 7series 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.



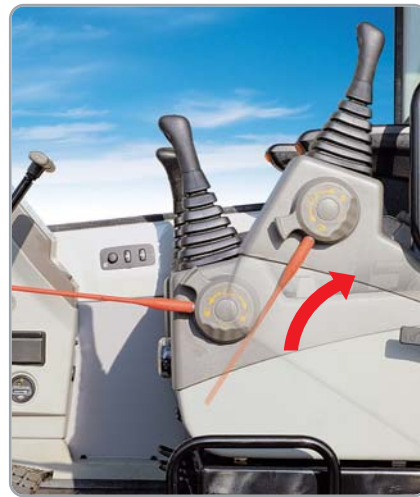
1 2 3
 1 Wide, Comfortable Operating Space 2 Steel Cover Sunroof 3 Dial Type Engine Speed Switch and Key Switch





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 max / One touch deceleration, Right: Horn/Optional)



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.

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.



Remote Radio Control and Deluxe Cassette

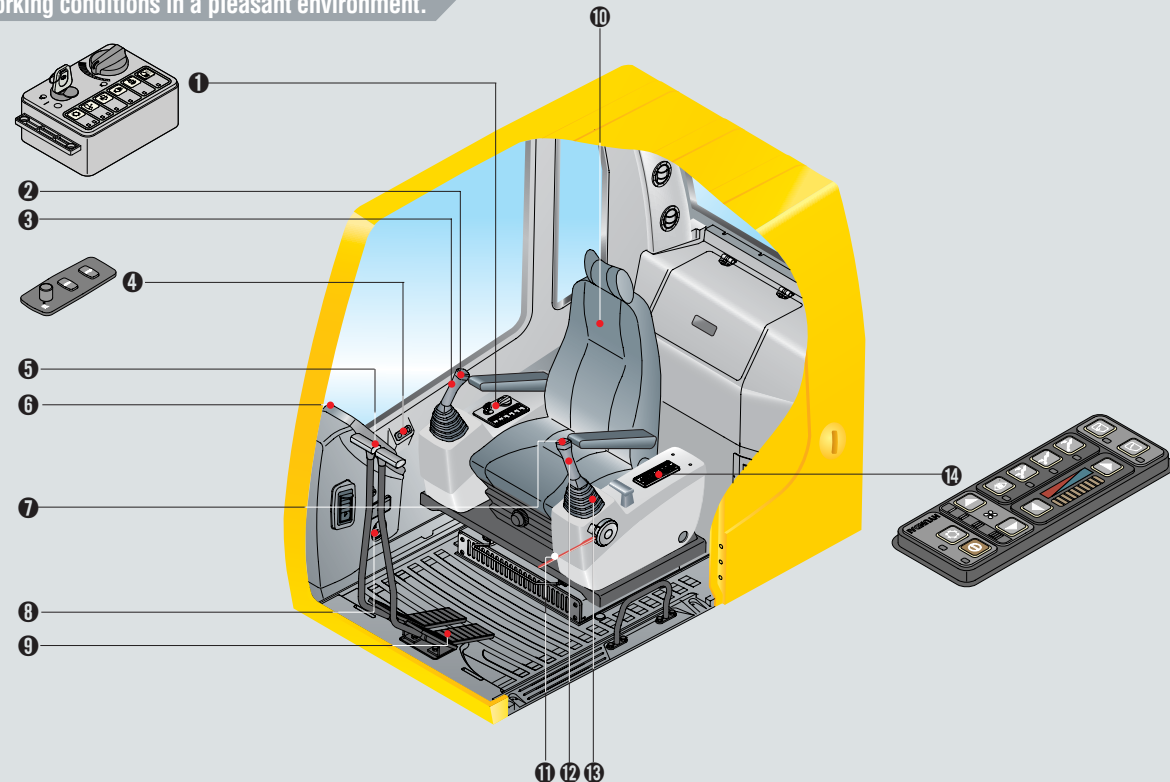


Raise-up Wiper and Cabin Lights

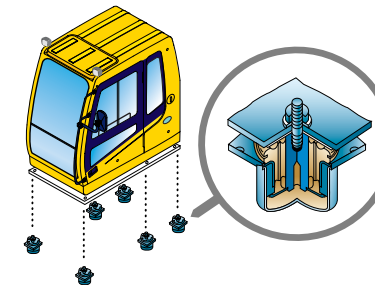
Raise-up wiper has enhanced for the better front view. Cabin Lights enhances safety by brightly lighting the surroundings during night work (optional).



The best working conditions in a pleasant environment.



- 1 Centralized control panel
- 2 Horn button
- 3 Option button
- 4 Remote Radio control
- 5 Travel lever
- 6 Cluster
- 7 One touch decel button
- 8 Hour meter
- 9 Travel pedal
- 10 Fully adjustable suspension seat
- 11 Safety lever
- 12 Power boost button
- 13 Joystick control lever
- 14 Air Conditioner and Heater controller



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.

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.



Smooth Travel Pedal and Foot Rests



Rear Emergency Exit Window

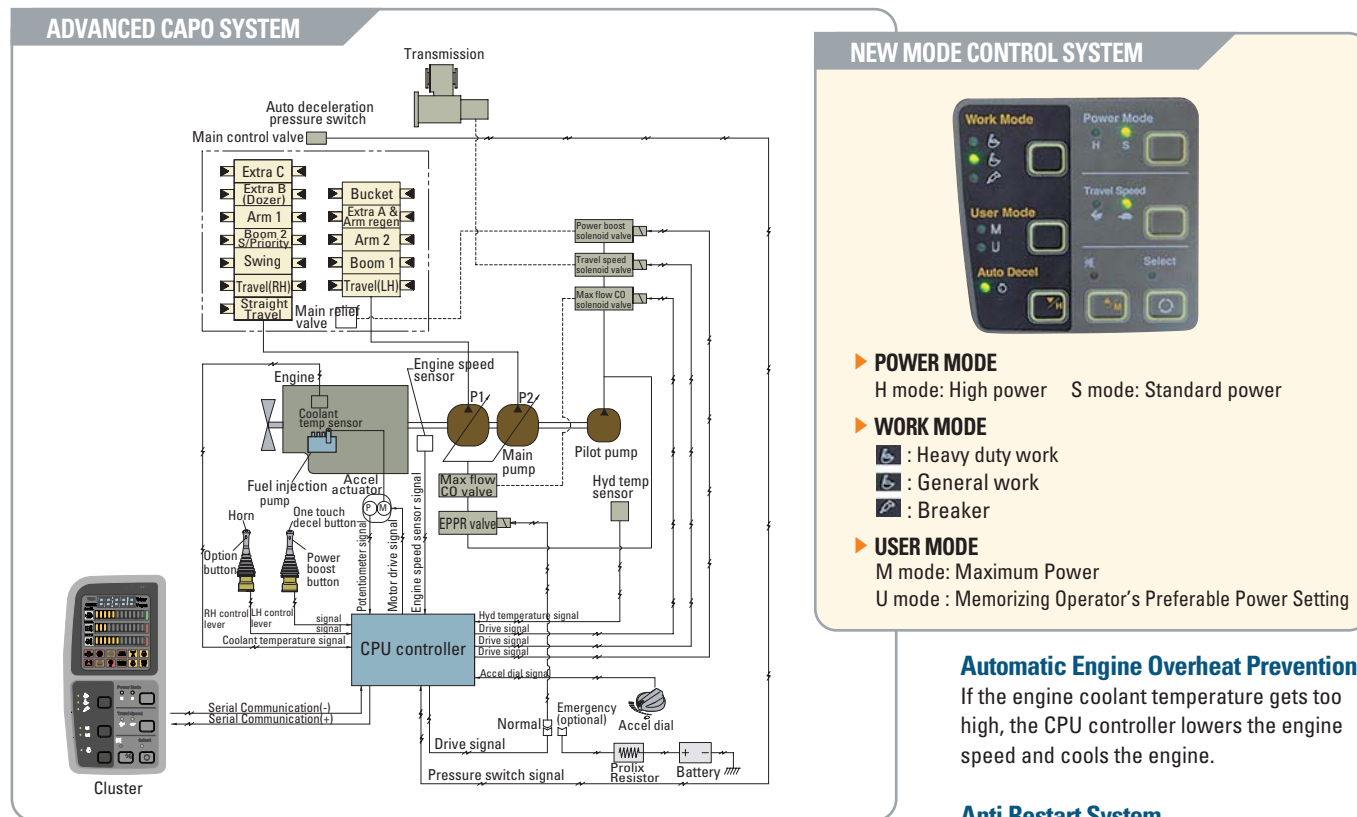
Rear Exit Window is designed with easy exit for operator's safety.



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.





Advanced CAPO System

The Advanced CAPO(Computer Aided Power Optimization) system maintains engine and mutual pump power at optimum levels. Mode selections are designed for various work loads and maintaining high 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.

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.

Arm Flow Regeneration System

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

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.

Auto Deceleration System

When remote-control valves are in neutral position more than 4 seconds, CPU controller instructs the accel actuator to reduce engine speed to 1200rpm. This decreases, fuel consumption and reduced cab noise levels.

One Touch Decel System

When the one touch decel switch is pressed, CPU controller controls to reduce engine speed to 950 rpm. And then the one touch decel switch is pressed again, the engine speed recovers.

Max. Flow Cut-off System

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

NEW MODE CONTROL SYSTEM

- ▶ **POWER MODE**
H mode: High power S mode: Standard power
- ▶ **WORK MODE**
[Icon] : Heavy duty work
[Icon] : General work
[Icon] : Breaker
- ▶ **USER MODE**
M mode: Maximum Power
U mode : Memorizing Operator's Preferable Power Setting

Automatic Engine Overheat Prevention

If the engine coolant temperature gets too high, the CPU controller lowers the engine speed and cools the engine.

Anti Restart System

The new system protects the starter from restarting during engine operation, even if the operator accidentally turns the start key again.

Power boost control System

When the power boost system is activated, digging power increases about 10%. It is especially useful when extra power is temporarily needed, for instance, when digging hard earth and rock, or if the bucket teeth are stopped by a stubborn tree root.

Automatic Warming-up System

After the engine is started, if the engine coolant temperature is low, the CPU controller increases the engine speed and automatically increases the pump flow rate to warm up the engine more effectively.

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.

Hydraulic Damper in Travel Pedal

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

Mitsubishi S6S-DT Engine

The six cylinders turbo-charged and charged air cooled, engine is built for power, reliability and economy. This engine meets EPA tier II and EU stage II emission regulation.



Reliability You Can Depend On

Mitsubishi S6S-DT engine is ideal solution for the toughest work environment. The engine is built from a cast iron, skirted block with main bearing support between each cylinder. This combination provides maximum strength, rigidity, and crankshaft support. Special liquid cooling results in uniform temperature distribution.

Compact Engine Size

The compact size of the engine makes it easier to service than other engines. The low engine height allows easy access for maintenance due to a side-mounted, gear-driven camshaft.

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.



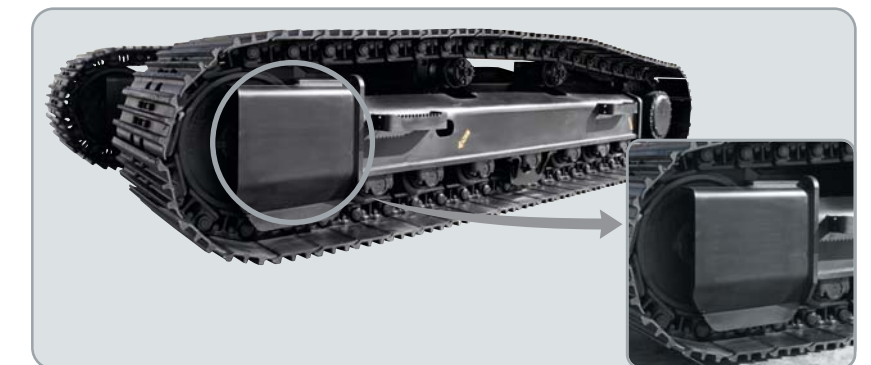
Strong and Stable Lower Frame

Reinforced box-section frame is all welded, low-stress, high-strength steel. It guarantees safety and resistance against external impact when driving on rough ground and working on wet sites through high tensile strength steel panels, with highly durable upper and lower rollers and track guards. Long undercarriage incorporates heavy duty excavator style components. X-leg type center frame is integrally welded for maximum strength and durability.



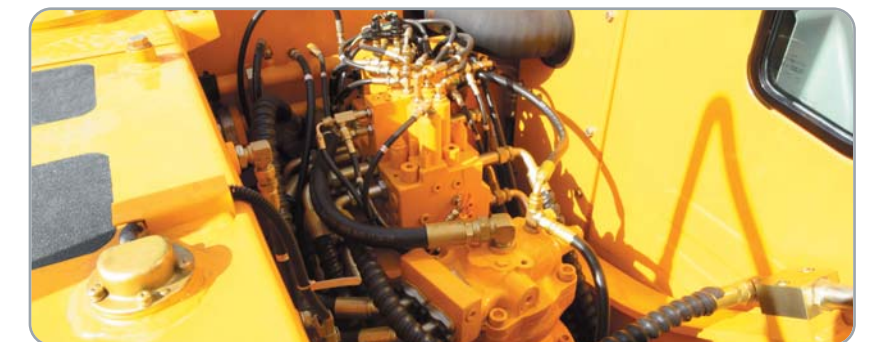
Track Rail Guide & Adjusters

Durable track rail guides keep track links in place. Track adjustment is made easy with standard grease cylinder track adjusters and shock absorbing springs.



Powerful and Preciser Swing Control

Improved shock absorbing characteristics make stopping a precise and smooth action

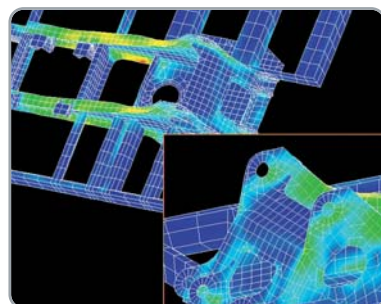


Full open doors and master key system provide easy access for servicing.

Handrails and foot steps are applied for safety



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



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



Large tool box for extra storage



Highly efficient Hydraulic Pump
Pump output and Hydraulic tank capacity have been increased. A pilot pump has been installed resulting in improved control sensitivity.



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.



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.

Engine

Model		Mitsubishi S6S-DT	
Type		Water cooled, 4 cycle Diesel, 6-cylinders in line, direct injection, turbocharged charger and air cooled	
Rated flywheel horse power	SAE	J1995 (gross)	126 HP (94 kW) at 2100 rpm
		J1349 (net)	116 HP (87 kW) at 2100 rpm
	DIN	6271/1 (gross)	128 PS (94 kW) at 2100 rpm
		6271/1 (net)	118 PS (87 kW) at 2100 rpm
Max. torque		42.5 kgf·m(307 lbf·ft) at 1500 rpm	
Bore		94 mm (3.70")	
Stroke		120 mm (4.72")	
Piston displacement		4996cc (305 in ³)	
Batteries		2 x 12 V x 100 AH	
Starting motor		24 V, 5.0kW	
Alternator		24V, 50 Amp	

Hydraulic system

Main pump	
Type	Two variable displacement piston pumps
Rated flow	2 × 168 ℓ/min (44.4 US gpm / 37.0 UK gpm)
Sub-pump for pilot circuit	Gear pump
Cross-sensing and fuel saving pump system	
Hydraulic motors	
Travel	Two speed axial piston motor with brake valve and parking brake
Swing	Axial piston motor with automatic brake
Relief valve setting	
Implement circuits	330 kgf/cm ² (4690 psi)
Travel	330 kgf/cm ² (4690 psi)
Power boost (boom, arm, bucket)	360 kgf/cm ² (5120 psi)
Swing circuit	240 kgf/cm ² (3410 psi)
Pilot circuit	35 kgf/cm ² (500 psi)
Service valve	Installed
Hydraulic cylinders	
No. of cylinder-bore x rod x stroke	Boom: 2-115 × 80 × 1090 mm (4.5" × 3.1" × 42.9")
	Arm: 1-120 × 85 × 1340 mm (4.7" × 3.3" × 52.8")
	Bucket: 1-115 × 80 × 950 mm (4.5" × 3.1" × 37.4")
	Blade: 2-110 × 75 × 320 mm (4.3" × 3.0" × 12.6")
	2PCS 1st: 2-115 × 80 × 960 mm (4.5" × 3.1" × 37.8")
	2nd: 1-160 × 95 × 650 mm (6.3" × 3.7" × 25.6")

Drives & Brakes

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	15,700 kgf (34600 lbf)
Max. travel speed(high) / (low)	5.6 km/hr (3.5 mph) / 3.7 km/hr (2.3 mph)
Gradeability	30° (58 %)
Parking brake	Wet multi-disc

Control

Pilot operated joysticks and pedals provide easy 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	Electric, Accel dial switch (Manual throttle cable installed for emergency)
Lights	Two lights mounted on the boom, one under the tool box

Swing system

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Wet multi-disc
Swing speed	12.1 rpm

Coolant & Lubricant capacity

(refilling)	liter	US gal	UK gal
Fuel tank	260	68.7	57.2
Engine coolant	30	7.9	6.6
Engine oil	16.5	4.4	3.6
Swing device	5	1.3	1.1
Final drive(each)	3	0.8	0.7
Hydraulic system	240	63.4	52.8
Hydraulic tank	160	42.3	35.2

Undercarriage

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

Center frame	X - leg type
Track frame	Pentagonal box type
No. of shoes on each side	49
No. of carrier rollers on each side	2
No. of track rollers on each side	7
No. of track (rail) guard on each side	1

Operating weight (approximate)

Operating weight, including 5100 mm (16'9") mono boom, 2600mm (8'6")arm, heaped 0.70m³ (0.92 yd³)backhoe bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.







Major component weight	
Upperstructure	4,530 kg (9,900 lb)
Counterweight	2,950 kg (6,500 lb)
5.1m(16' 9") Mono boom(with arm cylinder)	1,250 kg (2,760 lb)
Hydraulic adjustable boom(with arm cylinder)	1,780 kg (3,920 lb)

Operating weight

Shoes(Triple grouser) mm(in)	Operating weight kg(lb)	Ground pressure kgf/cm ² (psi)
500(20")	R160LC-7	17150(37810)
	R160LCD-7	18150(40010)
※ 600(24")	R160LC-7	17400(38360)
	R160LCD-7	18400(40570)
700(28")	R160LC-7	17650(38910)
	R160LCD-7	18650(41120)

※ Standard equipment

Buckets

SAE heaped m ³ (yd ³)	0.39(0.51)	0.50(0.65)	0.64(0.84)	※ 0.70(0.92)	0.89(1.16)	0.69(0.90)
						

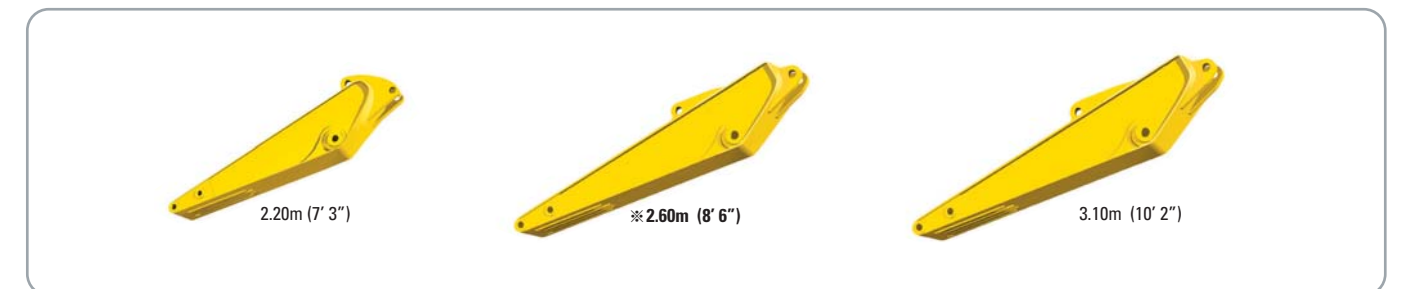
Capacity m ³ (yd ³)		Width mm (in)		Weight kg(lb)	Recommendation m (ft.in)					
SAE heaped	CECE heaped	Without side cutters	With side cutters		Boom	※ 5.1m (16' 9") Mono boom			5.1m (16' 9") Hydraulic adjustable boom	
					Arm	2.2m (7' 3")	※ 2.6m (8' 6")	3.1m (10' 2")	2.2m (7' 3")	2.6m (8' 6")
0.39(0.51)	0.34(0.44)	620(24.4")	740(29.1")	410(900)	●	●	●	●	●	●
0.50(0.65)	0.44(0.58)	760(29.9")	880(34.6")	470(1,040)	●	●	●	●	●	●
0.64(0.84)	0.55(0.72)	920(36.2")	1,040(40.9)	510(1,120)	●	●	■	●	●	■
※ 0.70(0.92)	0.60(0.78)	990(39")	1,110(43.7")	540(1,190)	●	■	▲	■	▲	▲
0.89(1.16)	0.77(1.01)	1,220(48.0")	1,340(52.8")	610(1,340)	■	▲	-	▲	-	-
■ 0.69(0.90)	0.62(0.81)	990(39.0")	-	700(1,540)	●	■	▲	■	▲	▲

※: Standard backhoe bucket
■: Heavy-duty

●: Applicable for materials with density of 2,000 kg / m³ (3,370 lb/ yd³) or less
■: Applicable for materials with density of 1,600 kg / m³ (2,700 lb/ yd³) or less
▲: Applicable for materials with density of 1,100 kg / m³ (1,850 lb/ yd³) or less

Backhoe attachment

Boom and arms are of all-welded, low-stress, full-box section design. 5.1m(16'9") mono boom, 5.1m(16'9") hydraulic adjustable boom and 2.20m (7'3"), 2.60m(8'6"), 3.10m(10'2") arms are available. Buckets are all-welded, high-strength steel implements.

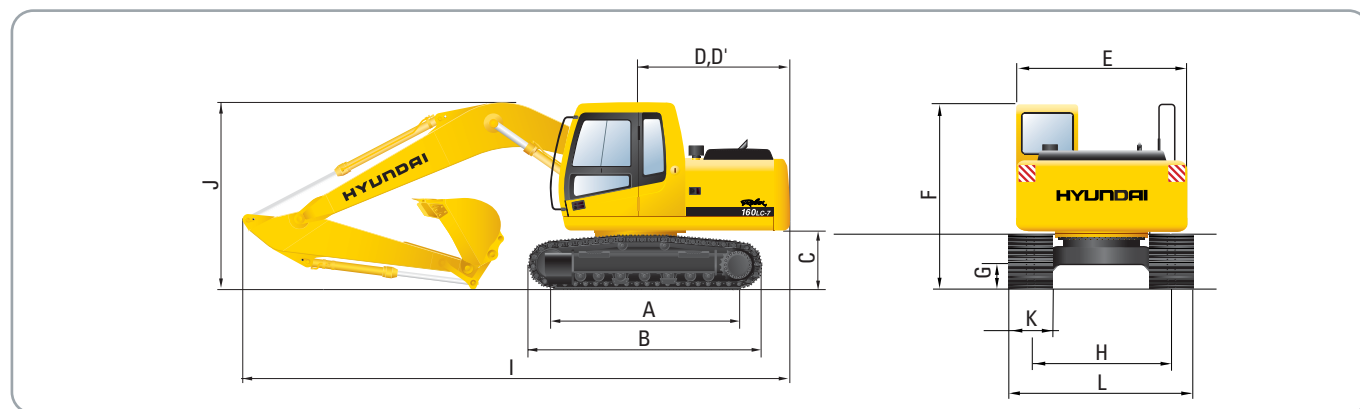


Digging force

Arm	Length	m(ft.in)	2.20 (7'3")	※ 2.60 (8' 6")	3.10 (10' 2")	Remark
			Weight	kg(lb)	810 (1,790)	
Bucket digging force	SAE	kN	108.6 [118.4]	108.6 [118.4]	108.6 [118.4]	[]: Power Boost
		kgf	11070 [12080]	11070 [12080]	11070 [12080]	
ISO	kN	124.5 [135.9]	124.5 [135.9]	124.5 [135.9]		
	kgf	12700 [13850]	12700 [13850]	12700 [13850]		
Arm crowd force	SAE	kN	85.2 [93.0]	75.0 [81.8]	67.4 [73.5]	
		kgf	8690 [9480]	7650 [8350]	6870 [7490]	
ISO	kN	89.0 [97.1]	77.6 [84.6]	69.4 [75.7]		
	kgf	9080 [9910]	7910 [8630]	7080 [7720]		

Note : Arm weight including bucket cylinder and linkage. ※ Standard arm

Dimensions R160LC-7

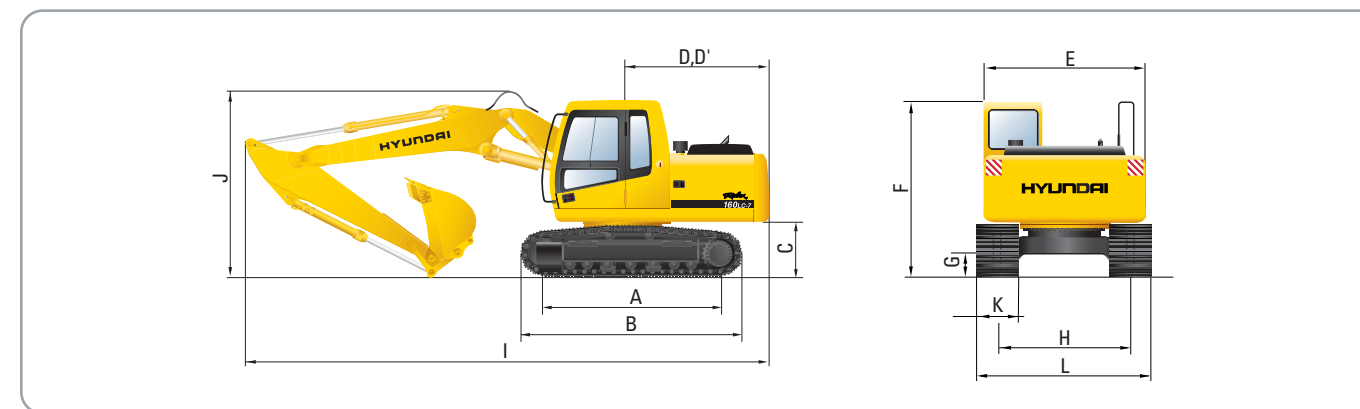


	mm (ft · in)	
A	Tumbler distance	3190 (10' 6")
B	Overall length of crawler	3980 (13' 1")
C	Ground clearance of counterweight	1035 (3' 5")
D	Tail swing radius	2530 (8' 4")
D'	Rear-end length	2480 (8' 2")
E	Overall width of upperstructure	2475 (8' 1")
F	Overall height of cab	2915 (9' 7")
G	Min. ground clearance	460 (1' 6")
H	Track gauge	1990 (6' 6")

	mm (ft · in)	mm (ft · in)		
Boom length		※ 5100(16' 9")		
Arm length	2200 (7' 3")	※ 2600 (8' 6")	3100 (10' 2")	
I	Overall length	8620 (28' 3")	8600 (28' 3")	8600 (28' 3")
J	Overall height of boom	2960 (9' 9")	2910 (9' 7")	3090 (10' 2")
K	Track shoe width	500 (20")	※ 600 (24")	700 (28")
L	Overall width	2490 (8' 2")	2590 (8' 6")	2690 (8' 10")

※ Standard Equipment

Dimensions R160LC-7, 2-Piece boom

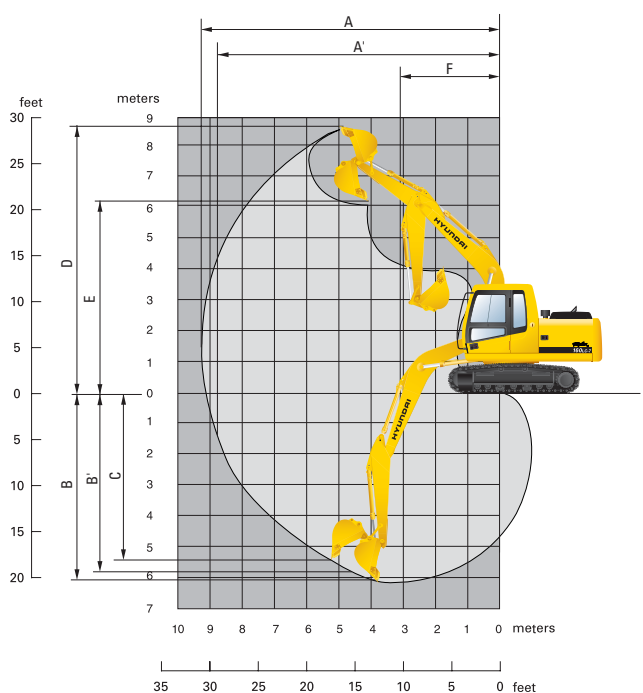


	mm (ft · in)	
A	Tumbler distance	3190 (10' 6")
B	Overall length of crawler	3980 (13' 1")
C	Ground clearance of counterweight	1035 (3' 5")
D	Tail swing radius	2530 (8' 4")
D'	Rear-end length	2480 (8' 2")
E	Overall width of upperstructure	2475 (8' 1")
F	Overall height of cab	2915 (9' 7")
G	Min. ground clearance	460 (1' 6")
H	Track gauge	1990 (6' 6")

	mm (ft · in)	mm (ft · in)		
Boom length		※ 5100(16' 9")		
Arm length	2200 (7' 3")	2600 (8' 6")	3100 (10' 2")	
I	Overall length	8580 (28' 2")	8570 (28' 1")	8600 (28' 3")
J	Overall height of boom	3040 (9' 12")	3050 (10' 0")	3090 (10' 2")
K	Track shoe width	500 (20")	※ 600 (24")	700 (28")
L	Overall width	2490 (8' 2")	2590 (8' 6")	2690 (8' 10")

※ Standard Equipment

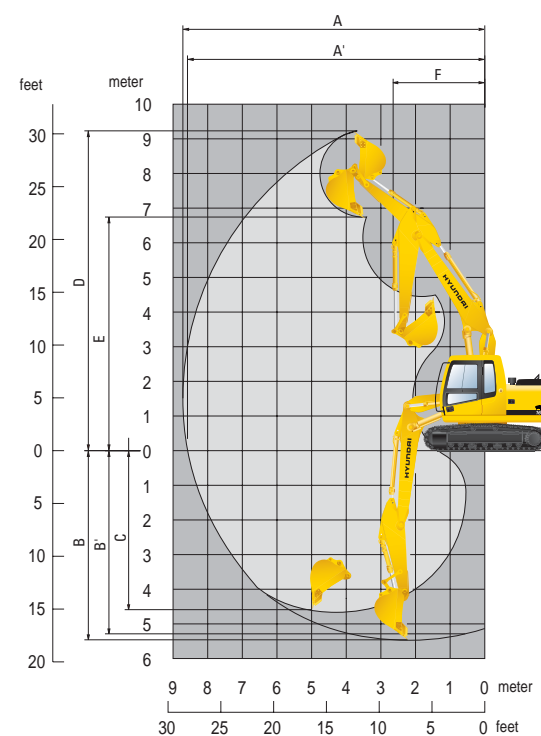
Working ranges



	mm (ft · in)	mm (ft · in)		
Boom length		※ 5100 (16' 9")		
Arm length	2200 (7' 3")	※ 2600 (8' 6")	3100 (10' 2")	
A	Max. digging reach	8690 (28' 6")	9030 (29' 8")	9450 (31' 0")
A'	Max. digging reach on ground	8530 (27' 12")	8870 (29' 1")	9300 (30' 6")
B	Max. digging depth	5660 (18' 7")	6060 (19' 11")	6560 (21' 6")
B'	Max. digging depth (8' level)	5440 (17' 10")	5860 (19' 3")	6370 (20' 11")
C	Max. vertical wall digging depth	5140 (16' 10")	5440 (17' 10")	5730 (18' 10")
D	Max. digging height	8740 (28' 8")	8870 (29' 1")	8970 (29' 5")
E	Max. dumping height	6100 (20' 0")	6240 (20' 6")	6380 (20' 11")
F	Min. swing radius	3180 (10' 5")	3170 (10' 5")	3180 (10' 5")

※ Standard Equipment

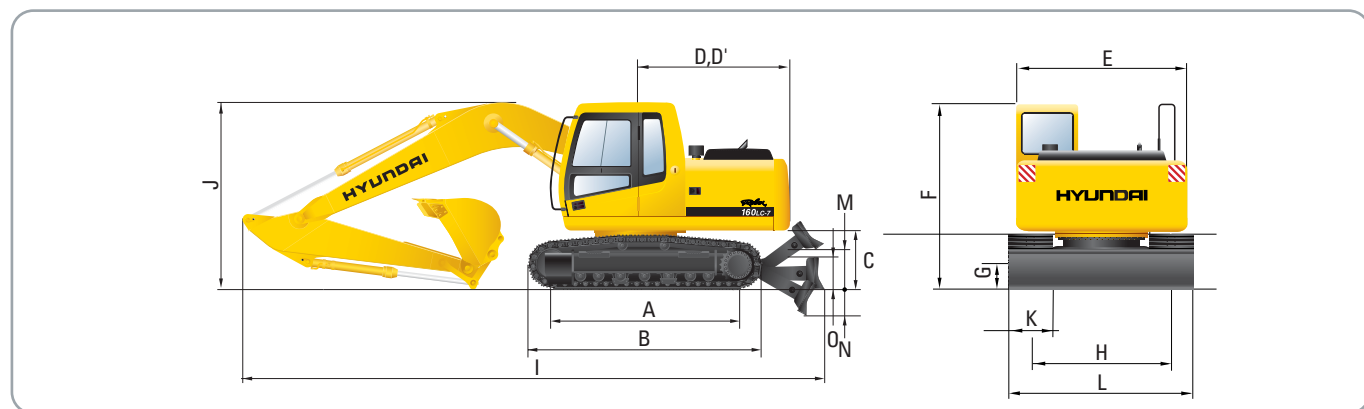
Working ranges



	mm (ft · in)	mm (ft · in)		
Boom length		※ 5100 (16' 9")		
Arm length	2200 (7' 3")	2600 (8' 6")	3100 (10' 2")	
A	Max. digging reach	8750 (28' 8")	9110 (29' 11")	9450 (31' 0")
A'	Max. digging reach on ground	8600 (28' 3")	8960 (29' 5")	9300 (30' 6")
B	Max. digging depth	5460 (17' 11")	5830 (19' 2")	6560 (21' 6")
B'	Max. digging depth (8' level)	5350 (17' 7")	5750 (18' 10")	6370 (20' 11")
C	Max. vertical wall digging depth	4670 (15' 4")	5030 (16' 6")	5730 (18' 10")
D	Max. digging height	9390 (30' 10")	9600 (31' 6")	8970 (29' 5")
E	Max. dumping height	6680 (21' 11")	6900 (22' 8")	6380 (20' 11")
F	Min. swing radius	3130 (10' 3")	2970 (9' 9")	3180 (10' 5")

※ Standard Equipment

Dimensions R160LCD-7

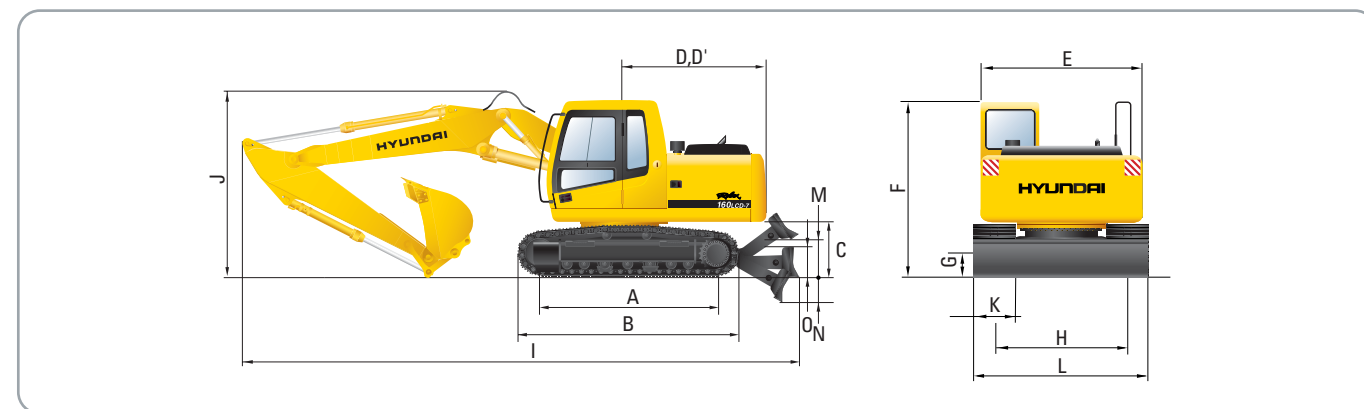


	mm (ft · in)	
A	Tumbler distance	3190 (10' 6")
B	Overall length of crawler	3980 (13' 1")
C	Ground clearance of counterweight	1035 (3' 5")
D	Tail swing radius	2530 (8' 4")
D'	Rear-end length	2480 (8' 2")
E	Overall width of upperstructure	2475 (8' 1")
F	Overall height of cab	2915 (9' 7")
G	Min. ground clearance	460 (1' 6")
H	Track gauge	1990 (6' 6")
M	Ground clearance of blade up	780 (2' 7")
N	Depth of blade down	520 (1' 8")
O	Height of blade	645 (2' 1")
	Width of blade	2590 (8' 6")

	mm (ft · in)		
	Boom length	※ 5100(16' 9")	
	Arm length	2200 (7' 3")	※ 2600 (8' 6")
I	Overall length	9010 (29' 7")	8990 (29' 6")
J	Overall height of boom	2960 (9' 9")	2910 (9' 7")
			3090 (10' 2")
K	Track shoe width	500 (20")	※ 600 (24")
			700 (28")
L	Overall width	2490 (8' 2")	2590 (8' 6")
			2690 (8' 10")

※ Standard Equipment

Dimensions R160LCD-7, 2-Piece boom

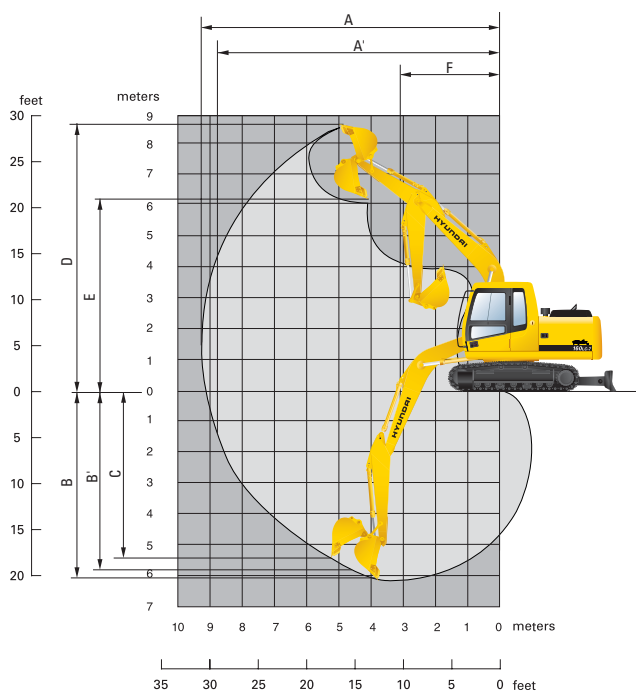


	mm (ft · in)	
A	Tumbler distance	3190 (10' 6")
B	Overall length of crawler	3980 (13' 1")
C	Ground clearance of counterweight	1035 (3' 5")
D	Tail swing radius	2530 (8' 4")
D'	Rear-end length	2480 (8' 2")
E	Overall width of upperstructure	2475 (8' 1")
F	Overall height of cab	2915 (9' 7")
G	Min. ground clearance	460 (1' 6")
H	Track gauge	1990 (6' 6")
M	Ground clearance of blade up	780 (2' 7")
N	Depth of blade down	520 (1' 8")
O	Height of blade	645 (2' 1")
	Width of blade	2590 (8' 6")

	mm (ft · in)		
	Boom length	※ 5100(16' 9")	
	Arm length	※ 2200 (7' 3")	2600 (8' 6")
I	Overall length	8970 (29' 5")	8960 (29' 5")
J	Overall height of boom	3040 (9' 12")	3050 (10' 0")
K	Track shoe width	500 (20")	※ 600 (24")
			700 (28")
L	Overall width	2490 (8' 2")	2590 (8' 6")
			2690 (8' 10")

※ Standard Equipment

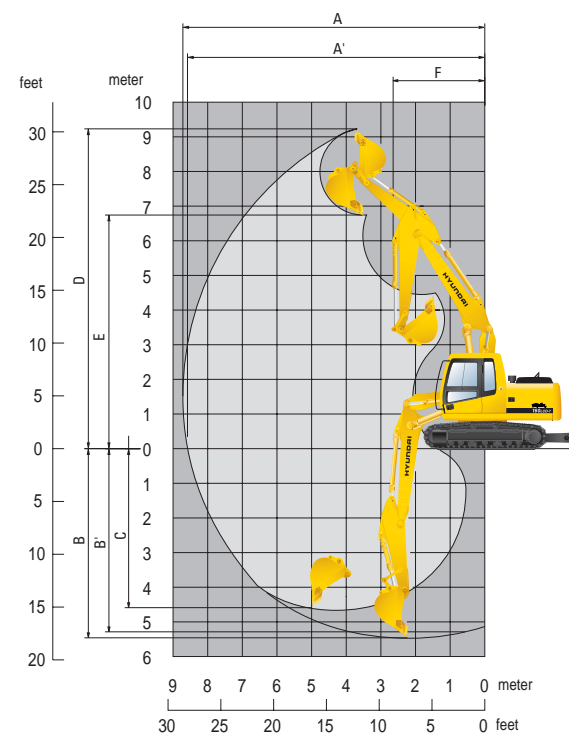
Working ranges



	mm (ft · in)		
	Boom length	※ 5100 (16' 9")	
	Arm length	2200 (7' 3")	※ 2600 (8' 6")
			3100 (10' 2")
A	Max. digging reach	8690 (28' 6")	9030 (29' 8")
A'	Max. digging reach on ground	8530 (27' 12")	8870 (29' 1")
B	Max. digging depth	5660 (18' 7")	6060 (19' 11")
B'	Max. digging depth (8' level)	5440 (17' 10")	5860 (19' 3")
C	Max. vertical wall digging depth	5140 (16' 10")	5440 (17' 10")
			5730 (18' 10")
D	Max. digging height	8740 (28' 8")	8870 (29' 1")
			8970 (29' 5")
E	Max. dumping height	6100 (20' 0")	6240 (20' 6")
			6380 (20' 11")
F	Min. swing radius	3180 (10' 5")	3170 (10' 5")
			3180 (10' 5")

※ Standard Equipment

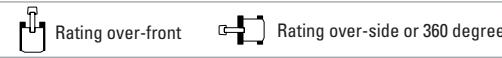
Working ranges



	mm (ft · in)	
	Boom length	※ 5100 (16' 9")
	Arm length	2200 (7' 3")
		2600 (8' 6")
A	Max. digging reach	8750 (28' 8")
		9110 (29' 11")
A'	Max. digging reach on ground	8600 (28' 3")
		8960 (29' 5")
B	Max. digging depth	5460 (17' 11")
		5830 (19' 2")
B'	Max. digging depth (8' level)	5350 (17' 7")
		5750 (18' 10")
C	Max. vertical wall digging depth	4670 (15' 4")
		5030 (16' 6")
D	Max. digging height	9390 (30' 10")
		9600 (31' 6")
E	Max. dumping height	6680 (21' 11")
		6900 (22' 8")
F	Min. swing radius	3130 (10' 3")
		2970 (9' 9")

※ Standard Equipment

Lifting capacities R160LCD-7



• Boom : 5.10m (16' 9") • Arm : 2.2 m (7' 3") • Bucket : 0.70 m³ SAE heaped • Shoe : 600mm(24") triple grouser with 2.95ton (6,500 lb) counterweight 512260

Load point height m(ft)		Load radius										At max. reach		
		1.5 m(5.0 ft)		3.0 m(10.0 ft)		4.5 m(15.0 ft)		6.0 m(20.0 ft)		Capacity		Reach		
												m (ft)		
7.5 m 25.0 ft	kg lb											*3400 *7500	*3400 *7500	5.81 (19.1)
6.0 m 20.0 ft	kg lb											*3340 *7360	2440 5380	7.16 (23.5)
4.5 m 15.0 ft	kg lb					*4260 *9390	*4260 *9390	*3820 *8420	3190 7030	*3370 *7430	1980 4370	7.92 (26.0)		
3.0 m 10.0 ft	kg lb			*8470 *18670	*8470 *18670	*5390 *11880	4820 10630	*4280 *9440	3060 6750	3160 6970	1770 3900	8.30 (27.2)		
1.5 m 5.0 ft	kg lb					*6540 *14420	4460 9830	*4800 *10580	2900 6390	3090 6810	1720 3790	8.34 (27.4)		
Ground Line	kg lb			*6700 *14770	*6700 *14770	*7150 *15760	4250 9370	5010 11050	2780 6130	3230 7120	1790 3950	8.06 (26.4)		
-1.5 m -5.0 ft	kg lb	*6610 *14570	*6610 *14570	*10490 *23130	7950 17530	*7070 *15590	4190 9240	4960 10930	2740 6040	*3610 *7960	2060 4540	7.42 (24.3)		
-3.0 m -10.0 ft	kg lb	*10560 *23280	*10560 *23280	*8970 *19780	8100 17860	*6210 *13690	4240 9350				*3380 *7450	2730 6020	6.28 (20.6)	
-4.5 m -15.0 ft	kg lb			*5840 *12870	*5840 *12870									

• Boom : 5.10m (16' 9") • Arm : 2.6 m (8' 6") • Bucket : 0.70 m³ SAE heaped • Shoe : 600mm(24") triple grouser with 2.95ton (6,500 lb) counterweight 512660

Load point height m(ft)		Load radius										At max. reach		
		1.5 m(5.0 ft)		3.0 m(10.0 ft)		4.5 m(15.0 ft)		6.0 m(20.0 ft)		7.5 m(25.0 ft)		Capacity		Reach
													m (ft)	
7.5 m 25.0 ft	kg lb											*3080 *6790	*3080 *6790	6.33 (20.8)
6.0 m 20.0 ft	kg lb							*2760 *6080	*2760 *6080			*3070 *6770	2210 4870	7.56 (24.8)
4.5 m 15.0 ft	kg lb							*3500 *7720	3210 7080			*3120 *6880	1820 4010	8.28 (27.2)
3.0 m 10.0 ft	kg lb			*7360 *16230	*7360 *16230	*4940 *10890	4870 10740	*4000 *8820	3060 6750	*2560 *5640	2070 4560	2940 6480	1630 3590	8.64 (28.3)
1.5 m 5.0 ft	kg lb			*7670 *16910	*7670 *16910	*6190 *13650	4480 9880	*4570 *10080	2890 6370	*3340 *7360	1990 4390	2870 6330	1570 3460	8.68 (28.5)
Ground Line	kg lb			*7420 *16360	*7420 *16360	*6980 *15390	4220 9300	4980 10980	2750 6060	*3170 *6990	1930 4250	2980 6570	1630 3590	8.42 (27.6)
-1.5 m -5.0 ft	kg lb	*6300 *13890	*6300 *13890	*10000 *22050	7840 17280	*7090 *15630	4120 9080	4900 10800	2680 5910			3350 *7390	1850 4080	7.81 (25.6)
-3.0 m -10.0 ft	kg lb	*9330 *20570	*9330 *20570	*9580 *21120	7950 17530	*6480 *14290	4150 9150	*4530 *9990	2710 5970			*3370 *7430	2380 5250	6.75 (22.1)
-4.5 m -15.0 ft	kg lb			*6950 *15320	*6950 *15320	*4610 *10160	4320 9520							

• Boom : 5.10m (16' 9") • Arm : 3.1 m (11' 1") • Bucket : 0.70 m³ SAE heaped • Shoe : 600mm(24") triple grouser with 2.95ton (6,500 lb) counterweight 513160

Load point height m(ft)		Load radius										At max. reach		
		1.5 m(5.0 ft)		3.0 m(10.0 ft)		4.5 m(15.0 ft)		6.0 m(20.0 ft)		7.5 m(25.0 ft)		Capacity		Reach
													m (ft)	
7.5 m 25.0 ft	kg lb											*2730 *6020	2650 5840	6.92 (22.7)
6.0 m 20.0 ft	kg lb							*2640 *5820	*2640 *5820			*2760 *6080	1970 4340	8.05 (26.4)
4.5 m 15.0 ft	kg lb							*3110 *6860	*3110 *6860	*1940 *4280	*1940 *4280	*2830 *6240	1630 3590	8.73 (28.6)
3.0 m 10.0 ft	kg lb					*4380 *9660	*4380 *9660	*3640 *8020	3080 6790	*2840 *6260	2070 4560	2700 5950	1470 3240	9.06 (29.7)
1.5 m 5.0 ft	kg lb			*9510 *20970	8480 18700	*5730 *12630	4530 9990	*4290 *9460	2890 6370	*3560 *7850	1980 4370	2630 5800	1410 3110	9.10 (29.9)
Ground Line	kg lb			*8210 *18100	7890 17390	*6710 *14790	4220 9300	*4810 *10600	2730 6020	3490 7690	1900 4190	2720 6000	1460 3220	8.85 (29.0)
-1.5 m -5.0 ft	kg lb	*5960 *13140	*5960 *13140	*9730 *21450	7740 17060	*7050 *15540	4070 8970	4850 10690	2630 5800	*2970 *6550	1850 4080	3010 6640	1630 3590	8.28 (27.2)
-3.0 m -10.0 ft	kg lb	*8420 *18560	*8420 *18560	*10150 *22380	7800 17200	*6700 *14770	4050 8930	*4750 *10470	2620 5780			*3290 *7250	2030 4480	7.30 (24.0)
-4.5 m -15.0 ft	kg lb	*11640 *25660	*11640 *25660	*8040 *17730	8020 17680	*5380 *11860	4170 9190							

NOTES
1. Lifting capacity are 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.

Lifting capacities R160LCD-7 (2-Piece boom)



• Boom : 5.10m (16' 9") • Arm : 2.2 m (7' 3") • Bucket : 0.70 m³ SAE heaped • Shoe : 600mm(24") triple grouser with 2.95ton (6,500 lb) counterweight 502260

Load point height m(ft)		Load radius										At max. reach		
		1.5 m(5.0 ft)		3.0 m(10.0 ft)		4.5 m(15.0 ft)		6.0 m(20.0 ft)		7.5 m(25.0 ft)		Capacity		Reach
													m (ft)	
6.0 m 20.0 ft	kg lb											*3390 *7470	2360 5200	7.24 (23.8)
4.5 m 15.0 ft	kg lb											*3860 *8510	3190 7030	7.99 (26.2)
3.0 m 10.0 ft	kg lb											*5440 *11990	4810 10600	8.36 (27.4)
1.5 m 5.0 ft	kg lb											*6500 *14330	4430 9770	8.41 (27.6)
Ground Line	kg lb					*5860 *12920	*5860 *12920	*7040 *15520	4200 9260	5020 11070	2750 6060	3200 7050	1750 3860	8.13 (26.7)
-1.5 m -5.0 ft	kg lb	*5850 *12900	*5850 *12900	*9740 *21470	7880 17370	*6890 *15190	4140 9130	*4940 *10890	2710 5970			*3340 *7360	2010 4430	7.50 (24.6)
-3.0 m -10.0 ft	kg lb			*8500 *18740	8070 17790	*5940 *13100	4220 9300					*2930 *6460	2680 5910	6.37 (20.9)

• Boom : 5.10m (16' 9") • Arm : 2.6 m (8' 6") • Bucket : 0.70 m³ SAE heaped • Shoe : 600mm(24") triple grouser with 2.95ton (6,500 lb) counterweight 502660

Load point height m(ft)		Load radius										At max. reach		
		1.5 m(5.0 ft)		3.0 m(10.0 ft)		4.5 m(15.0 ft)		6.0 m(20.0 ft)		7.5 m(25.0 ft)		Capacity		Reach
													m (ft)	
6.0 m 20.0 ft	kg lb											*3120 *6880	2130 4700	7.66 (25.1)
4.5 m 15.0 ft	kg lb											*3110 *6860	1760 3880	8.37 (27.5)
3.0 m 10.0 ft	kg lb											*4020 *8860	3050 6720	8.72 (28.6)
1.5 m 5.0 ft	kg lb											*6640 *14640	*6640 *14640	8.77 (28.8)
Ground Line	kg lb					*6650 *14660	*6650 *14660	*6880 *15170	4180 9220	*4930 *10870	2720 6000	3530 7780	1910 4210	8.50 (27.9)
-1.5 m -5.0 ft	kg lb	*5680 *12520	*5680 *12520	*9340 *20590	7760 17110	*6930 *15280	4080 8990	4910 10820	2650 5840			*3210 *7080	1800 3970	7.90 (25.9)
-3.0 m -10.0 ft	kg lb	*8890 *19600	*8890 *19600	*9150 *20170	7900 17420	*6240 *13760	4110 9060	*4340 *9570	2680 5910			*2970 *6550	2320 5110	6.86 (22.5)
-4.5 m -15.0 ft	kg lb			*6330 *13960	*6330 *13960	*4220 *9300	*4220 *9300							

NOTES
1. Lifting capacity are 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.