

# SPECIFICATIONS

# HYUNDAI EXCAVATOR R360LC-7A

## Engine

Model		Cummins QSL	
Type		Water cooled, 4 cycle Diesel, 6-Cylinders in line, direct injection, turbocharged, charger air cooled low emission	
Rated flywheel horse power	SAE	J1995 (gross)	296 HP (221 kW) at 1,850 rpm
		J1349 (net)	271 HP (202 kW) at 1,850 rpm
	DIN	6271/1 (gross)	300 PS (221 kW) at 1,850 rpm
		6271/1 (net)	275 PS (202 kW) at 1,850 rpm
Max. torque		148.0 kgf·m(1,070 lbf·ft) at 1,400 rpm	
Bore x stroke		114 x 144.5 mm (4.5" x 5.3")	
Piston		8,900 cc (540 cu in)	
Batteries		2 x 12 V x 160 AH	
Starting motor		24 V, 7.5kW	
Alternator		24V, 50 Amp	

## Hydraulic system

Main pump	
Type	Two variable displacement piston pumps
Max. flow	2×288 ℓ/min (76.6 US gpm / 63.8 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 <sup>2</sup> (4,690 psi)
Travel	360 kgf/cm <sup>2</sup> (4,765 psi)
Power boost (boom, arm, bucket)	360 kgf/cm <sup>2</sup> (5,120 psi)
Swing circuit	260 kgf/cm <sup>2</sup> (3,700 psi)
Pilot circuit	35 kgf/cm <sup>2</sup> (500 psi)
Service valve	Installed
Hydraulic cylinders	
No. of cylinder-bore x stroke	Boom: 2-160×1,500 mm (6.3"×59.1")
	Arm: 1-170×1,760 mm (6.7"×69.3")
	Bucket: 1-150×1,295 mm (5.9"×51.0")

## Drives & Brakes

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	31,000 kgf (68,350 lbf)
Max. travel speed(high) / (low)	4.8 km/hr (2.8 mph) / 3.0 km/hr (2.0 mph)
Gradeability	35° (70 %)
Parking brake	Multi wet disc

## Control

Pilot pressure operated joysticks and pedals 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	Electric, Dial type
External lights	Two lights mounted on the boom one under the battery box

## Swing system

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing circuit lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	9.0 rpm

## Coolant & Lubricant capacity

(refilling)	liter	US gal	UK gal
Fuel tank	520	137.4	114.4
Engine coolant	45.0	11.9	9.9
Engine oil	33.5	8.8	7.4
Swing device	8.0	1.6	1.3
Final drive(each)	7.0	1.8	1.5
Hydraulic system	420	111.0	92.4
Hydraulic tank	230	60.8	50.6

## Undercarriage

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

Center frame	X - leg type
Track frame	Pentagonal box type
No. of shoes on each side	51
No. of carrier roller on each side	2
No. of track roller on each side	9
No. of track guard on each side	2

## Operating weight (approximate)

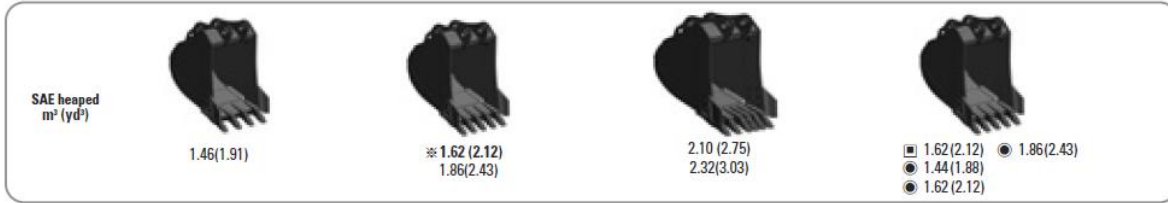
Operating weight, including 6,500m (21' 4") boom, 3,200 m (10' 6") arm, SAE heaped 1.62 m<sup>3</sup> (2.12 yd<sup>3</sup>) backhoebucket, lubricant, coolant.

### Operating weight

Shoes(Triple grouser) mm(in)	Operating weight kg(lb)	Ground pressure kgf/cm <sup>2</sup> (psi)
※ 600(24)	36,100(79,590)	0.64(9.10)
700(28)	36,500(80,600)	0.56(7.96)
750(30)	36,725(81,000)	0.52(7.39)
800(32)	36,950(81,500)	0.49(6.97)
900(36)	37,400(82,500)	0.44(6.26)

※ Standard equipment

## Buckets



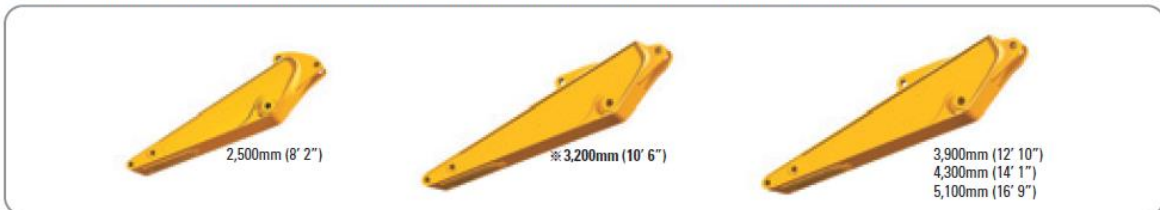
Capacity m <sup>3</sup> (yd <sup>3</sup> )		Width mm (in)		Weight kg(lb)	Recommendation mm(ft.in)					
SAE heaped	CECE heaped	Without side cutters	With side cutters		Boom		※ 6,500 (21' 4")		6,150 (20' 2")	8,600 (28' 3")
					Arm	2,500 (8' 2")	※ 3,200 (10' 6")	3,900 (12' 10")	4,300 (14' 1")	2,500 (8' 2")
1.46(1.91)	1.27(1.66)	1,380(54.3)	1,510(59.4)	1,170(2,580)	●	●	●	■	●	▲
※ 1.62(2.12)	1.40(1.83)	1,440(56.7)	1,570(61.8)	1,280(2,820)	●	●	■	■	●	-
1.86(2.43)	1.60(2.1)	1,620(63.8)	1,750(68.9)	1,390(3,060)	●	●	■	▲	●	-
2.10(2.75)	1.80(2.4)	1,810(71.3)	1,940(76.4)	1,520(3,350)	■	■	▲	-	●	-
2.32(3.03)	2.00(2.62)	1,990(78.3)	2,120(83.5)	1,760(3,880)	▲	▲	▲	-	■	-
■ 1.62(2.12)	1.40(1.83)	1,540(60.6)	-	1,570(3,460)	●	■	▲	▲	●	-
● 1.44(1.88)	1.27(1.66)	1280(50.4)	-	1,565(3,450)	●	●	■	▲	●	-
● 1.62(2.12)	1.40(1.83)	1,545(60.8)	-	1,610(3,550)	●	■	▲	▲	●	-
● 1.86(2.43)	1.60(2.1)	1,725(67.9)	-	1,710(3,770)	■	▲	-	-	■	-

※ : Standard backhoe bucket  
 ■ : Heavy-duty  
 ● : Rock-Heavy duty bucket

● : Applicable for materials with density of 2,000 kg / m<sup>3</sup> (3,370 lb/ yd<sup>3</sup>) or less  
 ■ : Applicable for materials with density of 1,600 kg / m<sup>3</sup> (2,700 lb/ yd<sup>3</sup>) or less  
 ▲ : Applicable for materials with density of 1,100 kg / m<sup>3</sup> (1,850 lb/ yd<sup>3</sup>) or less

## Backhoe Attachmet

Boom and arms are of all-welded, low-stress, full-box section design. 6,500mm(21' 4") 6,150mm(20'2"), 8,600(28'3")boom and 2,500mm(8' 2"), 3,200mm(10' 7"), 3,900mm(12' 10"), 4,300mm(14' 1") 5,100mm(16'9")arms are available. Buckets are all-welded, high-strength steel implements.

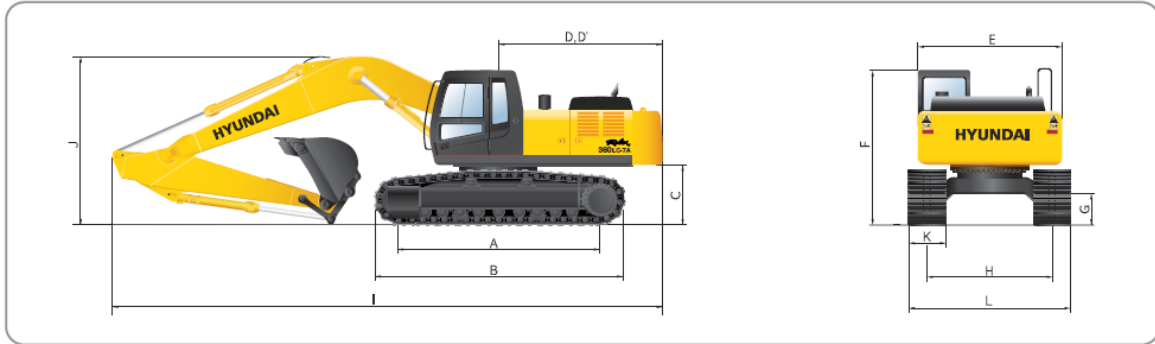


## Digging force

Arm	Length	mm(ft.in)	2,500 (8' 2")	※ 3,200 (10' 6")	3,900 (12' 10")	4,300 (14' 1")	Remark
	Weight	kg(lb)	1,930 (4,260)	1,960 (4,320)	2,170 (4,780)	2,290 (5,050)	
Bucket digging force	SAE	kN	201.0 [219.3]	201.0 [219.3]	201.0 [219.3]	201.0 [219.3]	[ ]: Power Boost
		kgf	20500 [22360]	20500 [22360]	20500 [22360]	20500 [22360]	
	lbf	45190 [49300]	45190 [49300]	45190 [49300]	45190 [49300]		
ISO	kN	228.5 [249.3]	228.5 [249.3]	228.5 [249.3]	228.5 [249.3]		
	kgf	23300 [25420]	23300 [25420]	23300 [25420]	23300 [25420]		
	lbf	51370 [56040]	51370 [56040]	51370 [56040]	51370 [56040]		
Arm crowd force	SAE	kN	184.4 [201.1]	152.0 [165.8]	135.3 [147.6]	124.5 [135.9]	
		kgf	18800 [20510]	15500 [16910]	13800 [15050]	12700 [13850]	
	lbf	41450 [45220]	34170 [37280]	30420 [33190]	28000 [30550]		
ISO	kN	192.2 [209.7]	156.9 [171.2]	139.3 [151.9]	128.5 [140.1]		
	kgf	19600 [21380]	16000 [17450]	14200 [15490]	13100 [14290]		
	lbf	43210 [47140]	35270 [38480]	31310 [34160]	28880 [31510]		

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

**Dimensions**

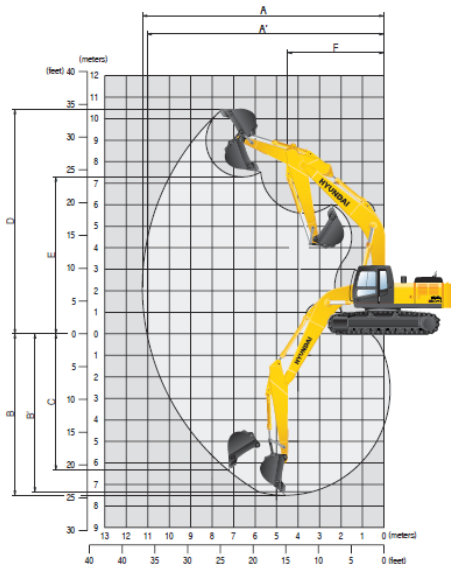


mm (ft · in)		
A	Tumbler distance	4,340 (14' 3")
B	Overall length of crawler	5,280 (17' 4")
C	Ground clearance of counterweight	1,290 (4' 3")
D	Tail swing radius	3,415 (11' 2")
D'	Rear-end length	3,350 (11' 0")
E	Overall width of upperstructure	2,980 (9' 9")
F	Overall height of cab	3,175 (10' 5")
G	Min. ground clearance	550 (1' 10")
H	Track gauge	2,740 (9' 0")

		mm (ft · in)					
	Boom length	※ 6,500 (21' 4")				6,150 (20' 2")	8,600 (28' 3")
	Arm length	2,500 (8' 2")	※ 3,200 (10' 6")	3,900 (12' 10")	4,300 (14' 1")	2,500 (8' 2")	5,100 (16' 9")
I	Overall length	11,240 (36' 11")	11,120 (36' 6")	11,070 (36' 4")	11,050 (36' 3")	10,880 (35' 8")	13,070 (42' 11")
J	Overall height of boom	3,700 (12' 2")	3,440 (11' 3")	3,870 (12' 8")	4,270 (14' 0")	3,830 (12' 7")	4,830 (15' 10")
K	Track shoe width	※ 600 (24")	700 (28")	750 (30")	800 (32")	900 (36")	
L	Overall width	3,340 (10' 11")	3,440 (11' 3")	3,490 (11' 5")	3,540 (11' 7")	3,640 (11' 11")	

※ Standard Equipment

**Working ranges**



		mm (ft · in)					
	Boom length	※ 6,500 (21' 4")				6,150 (20' 2")	8,600 (28' 3")
	Arm length	2,500 (8' 2")	※ 3,200 (10' 6")	3,900 (12' 10")	4,300 (14' 1")	2,500 (8' 2")	5,100 (16' 9")
A	Max. digging reach	10,720 (35' 2")	11,250 (36' 11")	11,870 (38' 11")	12,380 (39' 12")	10,330 (33' 11")	15,300 (50' 2")
A'	Max. digging reach on ground	10,490 (34' 5")	11,000 (36' 1")	11,670 (38' 3")	12,180 (40' 0")	10,100 (33' 2")	15,120 (49' 7")
B	Max. digging depth	6,800 (22' 4")	7,500 (24' 7")	8,200 (26' 11")	8,600 (28' 3")	6,440 (21' 2")	11,210 (36' 9")
B'	Max. digging depth (8' level)	6,620 (21' 9")	7,350 (24' 1")	8,070 (26' 6")	8,480 (27' 10")	6,260 (20' 6")	11,100 (36' 5")
C	Max. vertical wall digging depth	5,940 (19' 6")	6,340 (20' 10")	7,040 (23' 1")	7,550 (24' 9")	5,500 (18' 1")	10,070 (33' 0")
D	Max. digging height	10,470 (34' 4")	10,430 (34' 3")	10,650 (34' 11")	11,210 (36' 9")	10,200 (33' 6")	13,160 (43' 2")
E	Max. dumping height	7,270 (23' 10")	7,290 (23' 11")	7,510 (24' 8")	8,030 (26' 4")	7,020 (23' 0")	9,990 (32' 9")
F	Min. swing radius	4,630 (14' 2")	4,560 (14' 12")	4,550 (14' 11")	4,570 (14' 12")	4,320 (14' 2")	6,040 (19' 10")

※ Standard Equipment

# LIFTING CAPABILITIES

# HYUNDAI EXCAVATOR R360LC-7A



## Lifting capacities



Rating over-front



Rating over-side or 360 degree

• Boom : 6.15m (20' 2") • Arm : 2.5 m (8' 2") • Bucket : 1.62 m<sup>2</sup> (2.12 yd<sup>2</sup>) SAE heaped • Shoe : 600mm(24") triple grouser with 6,500kg (14,330 lb) CW

Load point height m(ft)	kg lb	Load radius								At max. reach		
		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	
		Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	kg	m (ft)	
9.0 m 30.0 ft										*7640	*7640	6.65 (21.8)
7.5 m 25.0 ft										*16840	*16840	8.02 (26.3)
6.0 m 20.0 ft										*7520	5970	8.88 (29.1)
4.5 m 15.0 ft										*16580	13160	9.38 (30.8)
3.0 m 10.0 ft										*7580	4800	9.58 (31.4)
1.5 m 5.0 ft										*16710	10580	9.52 (31.2)
Ground Line										*7200	4190	9.58 (31.2)
-1.5 m										15870	9240	9.58 (31.4)
-5.0 ft										6790	3890	9.52 (31.2)
-3.0 m										14970	8580	9.58 (31.4)
-10.0 ft										14970	8580	9.52 (31.2)
-4.5 m										14880	8440	9.52 (31.2)
-15.0 ft										14880	8440	9.52 (31.2)

• Boom : 6.5m (21' 4") • Arm : 2.5 m (8' 2") • Bucket : 1.62 m<sup>2</sup> (2.12 yd<sup>2</sup>) SAE heaped • Shoe : 600mm(24") triple grouser with 6,500kg (14,330 lb) CW

Load point height m(ft)	kg lb	Load radius								At max. reach		
		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	
		Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	kg	m (ft)	
9.0 m 30.0 ft										*6900	*6900	7.22 (23.7)
7.5 m 25.0 ft										*15210	*15210	8.49 (27.9)
6.0 m 20.0 ft										*6870	5190	8.99 (29.2)
4.5 m 15.0 ft										*15150	11440	9.29 (30.5)
3.0 m 10.0 ft										*6970	4240	9.77 (32.1)
1.5 m 5.0 ft										*15370	9350	9.97 (32.7)
Ground Line										*6560	3720	9.97 (32.1)
-1.5 m										14440	8200	9.97 (32.1)
-5.0 ft										6210	3470	9.97 (32.1)
-3.0 m										13690	7650	9.97 (32.1)
-10.0 ft										6180	3430	9.97 (32.1)
-4.5 m										13620	7560	9.97 (32.1)
-15.0 ft										14310	7960	9.97 (32.1)

• Boom : 6.5m (21' 4") • Arm : 3.2 m (10' 6") • Bucket : 1.62 m<sup>2</sup> (2.12 yd<sup>2</sup>) SAE heaped • Shoe : 600mm(24") triple grouser with 6,500kg (14,330 lb) CW

Load point height m(ft)	kg lb	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)		9.0m(30.0 ft)		Capacity	Reach	
		Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	kg	m (ft)	
9.0 m 30.0 ft														*6020	*6020	7.97 (26.1)
7.5 m 25.0 ft														*13270	*13270	9.12 (29.9)
6.0 m 20.0 ft														*6110	4650	9.87 (32.4)
4.5 m 15.0 ft														*10120	*10120	10.45 (34.4)
3.0 m 10.0 ft														*6710	6590	10.32 (33.9)
1.5 m 5.0 ft														*14790	14530	10.5 (34.4)
Ground Line														*4490	4440	10.45 (34.4)
-1.5 m														9790	13270	10.45 (34.4)
-5.0 ft														*6400	4260	10.45 (34.4)
-3.0 m														14110	9390	10.45 (34.4)
-10.0 ft														4080	5670	10.45 (34.4)
-4.5 m														8990	12500	10.45 (34.4)
-6.0 m														5900	3240	10.45 (34.4)
-20.0 ft														8660	13010	10.45 (34.4)

• Boom : 6.5m (21' 4") • Arm : 3.9 m (12' 10") • Bucket : 1.62 m<sup>2</sup> (2.12 yd<sup>2</sup>) SAE heaped • Shoe : 600mm(24") triple grouser with 6,500kg (14,330 lb) CW

















Load point height m(ft)	kg lb	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)		9.0m(30.0 ft)		Capacity	Reach	
		Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	kg	m (ft)	
9.0 m 30.0 ft														*5290	5130	8.81 (28.9)
7.5 m 25.0 ft														*11560	11310	9.85 (32.3)
6.0 m 20.0 ft														*5420	4000	10.54 (34.6)
4.5 m 15.0 ft														*11950	8820	10.95 (35.9)
3.0 m 10.0 ft														*3660	3660	11.13 (36.5)
1.5 m 5.0 ft														*8070	4400	11.07 (36.3)
Ground Line														*6660	6330	11.07 (36.3)
-1.5 m														9790	11860	11.07 (36.3)
-5.0 ft														*12320	7410	11.13 (36.5)
-3.0 m														4440	5380	11.13 (36.5)
-10.0 ft														*6860	4230	11.13 (36.5)
-4.5 m														9330	11290	11.13 (36.5)
-6.0 m														4000	5060	11.07 (36.3)
-20.0 ft														8820	11160	11.07 (36.3)



# LIFTING CAPABILITIES

# HYUNDAI EXCAVATOR R360LC-7A

• Boom : 8.6m (28' 2") • Arm : 5.1m (16' 7") • Bucket : 1.46 m<sup>3</sup> (1.90 yd<sup>3</sup>) SAE heaped • Shoe : 600mm(24") triple grouser with 8,100kg (17,860 lb) CW

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)	9.0 m(30.0 ft)	10.5 m(35.0 ft)	12.0 m(40.0 ft)	13.5 m(45.0 ft)	Capacity	Reach									
																	m	ft		
9.0 m 30.0 ft																	*3130	2420	12.91	
																	*6900	5340	(42.4)	
7.5 m 25.0 ft																	*3200	2020	13.61	
																	*7050	4450	(44.7)	
6.0 m 20.0 ft																	*3290	1750	14.10	
																	*7250	3860	(46.3)	
4.5 m 15.0 ft																	3320	1570	14.40	
																	7320	3460	(47.2)	
3.0 m 10.0 ft																	3180	1460	14.53	
																	7010	3220	(47.7)	
1.5 m 5.0 ft																	*3140	1410	14.49	
																	*6920	3110	(47.5)	
Ground Line																	3190	1430	14.28	
																	7030	3150	(46.9)	
-1.5 m -5.0 ft																	3340	1520	13.90	
																	7360	3350	(45.6)	
-3.0 m -10.0 ft																	3620	1700	13.31	
																	7980	3750	(43.7)	
-4.5 m -15.0 ft																	4100	2000	12.50	
																	9040	4410	(41.0)	
-6.0 m -20.0 ft																	*4600	2510	11.41	
																	*10140	5530	(37.4)	
-7.5 m -25.0 ft																	*4700	3440	9.94	
																	*10360	7580	(32.6)	
-9.0 m -30.0 ft																				

**NOTES**

- Lifting capacity is based on SAE J1097, ISO 10567.
- 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.
- The load point is a hook (standard equipment) located on the back of the bucket.
- (\*) indicates load limited by hydraulic capacity.