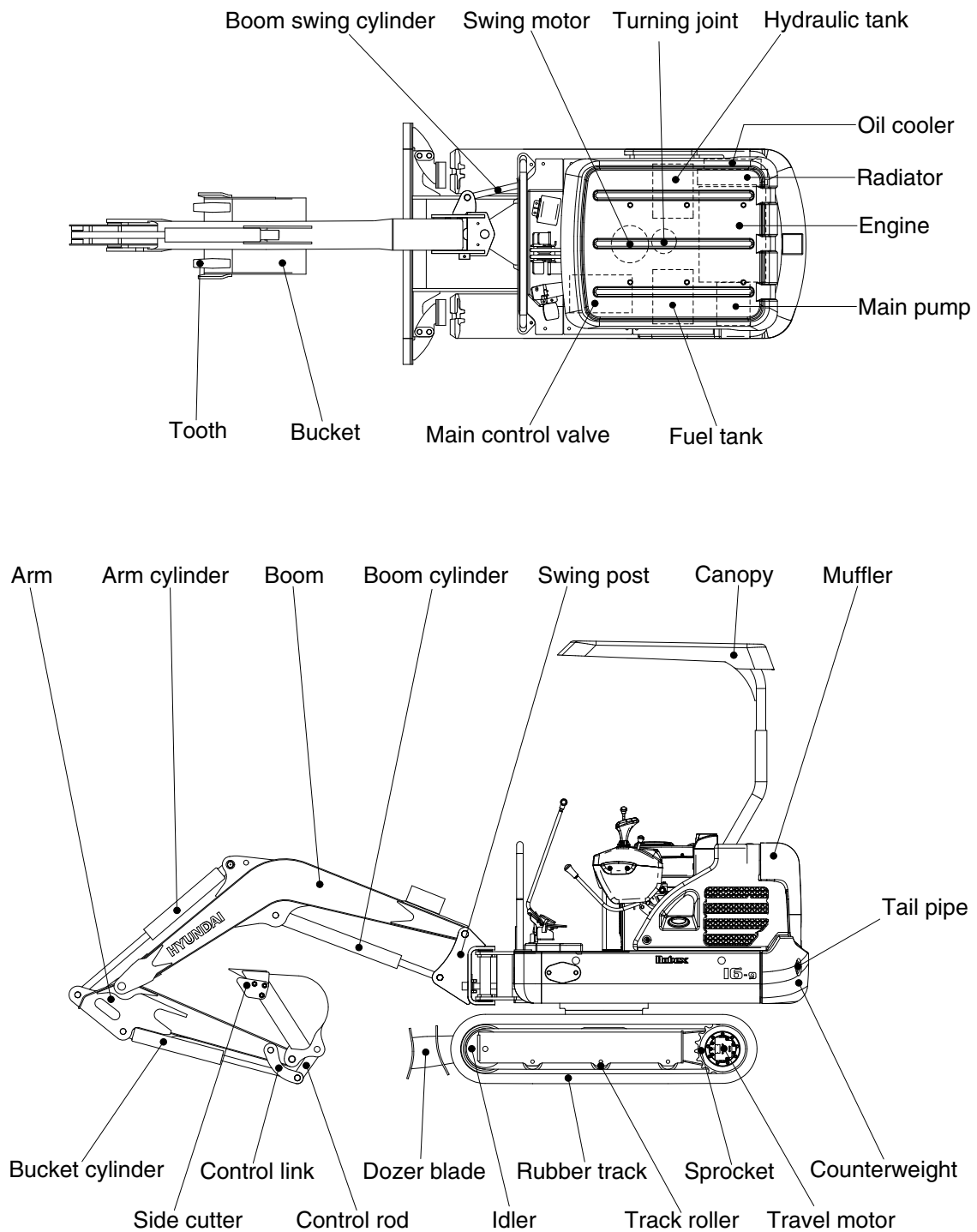


SPECIFICATIONS

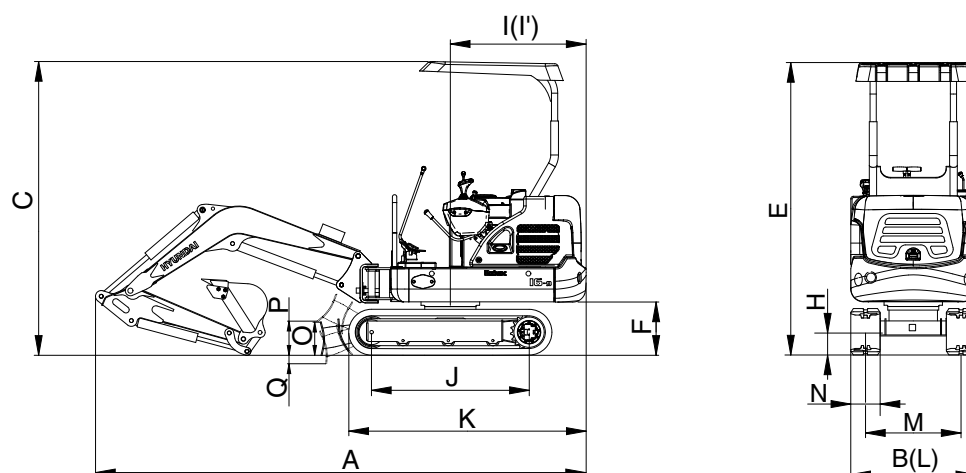
1. MAJOR COMPONENT



1692SP01

2. SPECIFICATIONS

1) 1.80 m (5' 11") MONO BOOM, 0.96 m (3' 2") ARM, WITH BOOM SWING POST

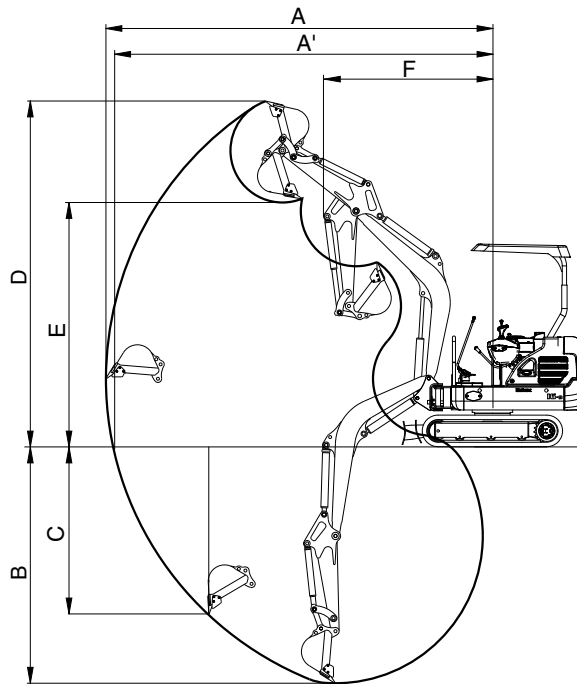


1692SP02

Description		Unit	Specification
Operating weight (canopy/cabin)		kg (lb)	1855 (4089) / 1995 (4398)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.04 (0.05)
Overall length	A	mm (ft-in)	3840 (12' 7")
Overall width, with 230 mm shoe (extension crawler)	B		980~1250 (3' 3" ~ 4' 1")
Overall height	C		2300 (7' 7")
Overall height of canopy	E		2300 (7' 7")
Ground clearance of counterweight	F		415 (1' 4")
Minimum ground clearance	H		150 (0' 6")
Rear-end distance	I		1065 (3' 6")
Rear-end swing radius	I'		1065 (3' 6")
Distance between tumblers	J		1230 (4' 0")
Undercarriage length	K		1590 (5' 3")
Undercarriage width (extension crawler)	L		980~1250 (3' 3" ~ 4' 1")
Track gauge (extension crawler)	M		750~1020 (2' 6" ~ 3' 4")
Track shoe width, standard	N		230 (9")
Height of blade	O		250 (0' 10")
Ground clearance of blade up	P		170 (0' 7")
Depth of blade down	Q		240 (0' 9")
Travel speed (low/high)		km/hr (mph)	2.1/4.0 (1.3/2.5)
Swing speed		rpm	9.5
Gradeability		Degree (%)	30 (58)
Ground pressure 230 mm rubber shoe (canopy/cabin)		kgf/cm ² (psi)	0.3 (4.24) / 0.32 (4.56)
Max traction force		kg (lb)	1420 (3131)

3. WORKING RANGE

1) 1.80 m (5' 11") MONO BOOM WITH BOOM SWING POST



1692SP03

Description		0.96 m (3' 2") Arm	
Max digging reach	A	3960 mm (12' 12")	
Max digging reach on ground	A'	3870 mm (12' 8")	
Max digging depth	B	2245 mm (7' 4")	
Max vertical wall digging depth	C	1775 mm (5' 10")	
Max digging height	D	3675 mm (12' 1")	
Max dumping height	E	2575 mm (8' 5")	
Min swing radius	F	1660 mm (5' 5")	
Boom swing radius (left/right)		60°/60°	
Bucket digging force	SAE	13.1 kN	
		1340 kgf	
		2950 lbf	
	ISO	15.1 kN	
		1540 kgf	
		3400 lbf	
Arm crowd force	SAE	9.0 kN	
		920 kgf	
		2030 lbf	
	ISO	9.4 kN	
		960 kgf	
		2120 lbf	

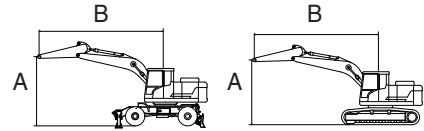
4. WEIGHT

Item	kg	lb
Upperstructure assembly	940	2070
Main frame weld assembly	230	510
Engine assembly	75	165
Main pump assembly	17	37
Main control valve assembly	25	55
Swing motor assembly	23	50
Hydraulic oil tank assembly	20	44
Fuel tank assembly	15	33
Boom swing post	35	80
Counterweight	60	130
Canopy assembly	47	104
Front guard	12	26
Lower chassis assembly	530	1170
Track frame weld assembly	150	330
Swing bearing	20	44
Travel motor assembly	18	40
Turning joint	20	44
Track recoil spring	11	24
Idler	15	33
Track roller	5	11
Sprocket	4	9
Rubber track (230 mm)	71	156
Dozer blade assembly	60	130
Front attachment assembly (1.8 m boom, 0.96 m arm, 0.04 m ³ SAE heaped bucket)	200	440
1.8 m boom assembly	70	154
0.96 m arm assembly	37	82
0.04 m ³ SAE heaped bucket	43	95
Boom cylinder assembly	17	37
Arm cylinder assembly	15	33
Bucket cylinder assembly	11	24
Bucket control link assembly	10	22
Dozer cylinder assembly	11	24
Boom swing cylinder assembly	11	24
Extension cylinder assembly	8	18

5. LIFTING CAPACITIES

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
R18-9	Canopy	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1800	960	60	230	-	Down	-	-	-

-  : Rating over-front
  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)						At max. reach		
		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		Capacity		Reach
										m (ft)
3.0 m	kg							*400	*400	2.20
(9.8 ft)	lb							*880	*880	(7.2)
2.5 m	kg			*370	*370			*340	320	2.76
(8.2 ft)	lb			*820	*820			*750	710	(9.1)
2.0 m	kg			*390	380	*390	280	*310	270	3.10
(6.6 ft)	lb			*860	840	*860	620	*680	600	(10.2)
1.5 m	kg	*530	520	*450	370	*410	280	*310	240	3.30
(4.9 ft)	lb	*1170	1150	*990	820	*900	620	*680	530	(10.8)
1.0 m	kg	*730	490	*530	360	*450	270	*320	230	3.39
(3.3 ft)	lb	*1610	1080	*1170	790	*990	600	*710	510	(11.1)
0.5 m	kg	*870	470	*610	350	*480	270	*340	220	3.39
(1.6 ft)	lb	*1920	1040	*1340	770	*1060	600	*750	490	(11.1)
Ground Line	kg	*910	470	*650	340	*500	260	*390	230	3.29
	lb	*2010	1040	*1430	750	*1100	570	*860	510	(10.8)
-0.5 m	kg	*880	470	*630	340	*480	260	*450	250	3.08
(-1.6 ft)	lb	*1940	1040	*1390	750	*1060	570	*990	550	(10.1)
-1.0 m	kg	*770	470	*550	340			*460	300	2.74
(-3.3 ft)	lb	*1700	1040	*1210	750			*1010	660	(9.0)
-1.5 m	kg	*520	480					*440	430	2.15
(-4.9 ft)	lb	*1150	1060					*970	950	(7.1)

Note 1. Lifting capacity are based on 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 lift-point is bucket pivot mounting pin on the arm (without bucket mass).

4. *Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

Lifting capacities will vary with different work tools, ground conditions and attachments.

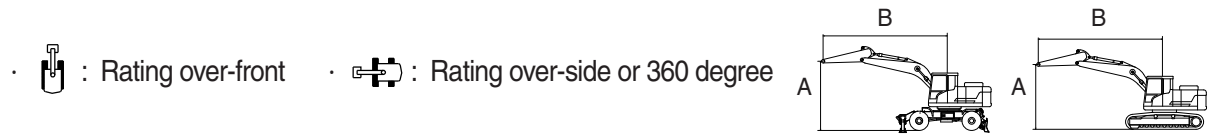
The difference between the weight of a work tool attachment must be subtracted.

Consult your Hyundai dealer regarding the lifting capacities for specific work tools and attachments.

▲ Failure to comply to the rated load can cause possible personal injury or property damage.

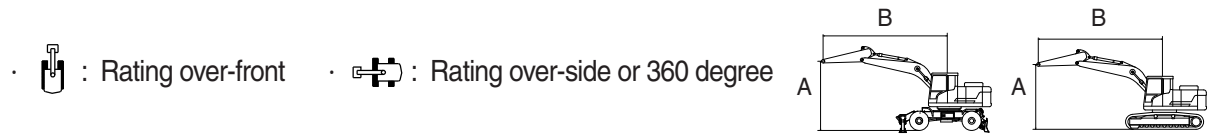
Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
R18-9	Canopy	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1800	960	60	230	-	Up	-	-	-



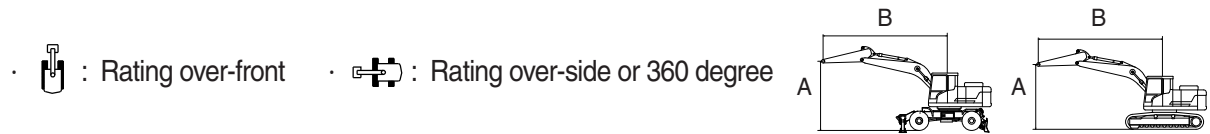
Lift-point height (A)		Lift-point radius (B)						At max. reach		
		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		Capacity		Reach
										m (ft)
3.0 m	kg							*400	*400	2.20
(9.8 ft)	lb							*880	*880	(7.2)
2.5 m	kg			*370	360			320	300	2.76
(8.2 ft)	lb			*820	790			710	660	(9.1)
2.0 m	kg			380	360	280	270	270	250	3.10
(6.6 ft)	lb			840	790	620	600	600	550	(10.2)
1.5 m	kg	530	490	370	350	280	260	240	230	3.30
(4.9 ft)	lb	1170	1080	820	770	620	570	530	510	(10.8)
1.0 m	kg	500	460	360	340	270	260	230	210	3.39
(3.3 ft)	lb	1100	1010	790	750	600	570	510	460	(11.1)
0.5 m	kg	480	450	350	330	270	250	220	210	3.39
(1.6 ft)	lb	1060	990	770	730	600	550	490	460	(11.1)
Ground Line	kg	470	440	340	320	260	250	230	220	3.29
	lb	1040	970	750	710	570	550	510	490	(10.8)
-0.5 m	kg	470	440	340	320	260	250	250	240	3.08
(-1.6 ft)	lb	1040	970	750	710	570	550	550	530	(10.1)
-1.0 m	kg	480	440	340	320			300	280	2.74
(-3.3 ft)	lb	1060	970	750	710			660	620	(9.0)
-1.5 m	kg	490	450					440	410	2.15
(-4.9 ft)	lb	1080	990					970	900	(7.1)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
R18-9	Cab	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1800	960	60	230	-	Down	-	-	-



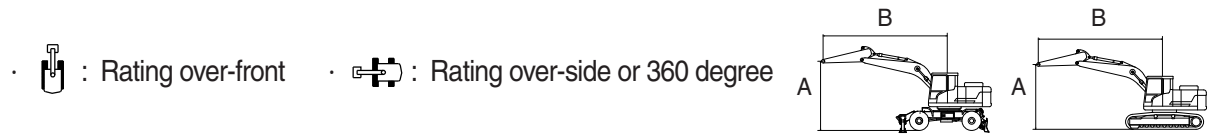
Lift-point height (A)		Lift-point radius (B)						At max. reach		
		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		Capacity		Reach
										m (ft)
3.0 m	kg							*400	*400	2.20
(9.8 ft)	lb							*880	*880	(7.2)
2.5 m	kg			*370	*370			*340	*340	2.76
(8.2 ft)	lb			*820	*820			*750	*750	(9.1)
2.0 m	kg			*390	*390	*390	310	*310	300	3.10
(6.6 ft)	lb			*860	*860	*860	680	*680	660	(10.2)
1.5 m	kg	*530	*530	*450	410	*410	310	*310	270	3.30
(4.9 ft)	lb	*1170	*1170	*990	900	*900	680	*680	600	(10.8)
1.0 m	kg	*730	550	*530	400	*450	300	*320	250	3.39
(3.3 ft)	lb	*1610	1210	*1170	880	*990	660	*710	550	(11.1)
0.5 m	kg	*870	530	*610	390	*480	300	*340	250	3.39
(1.6 ft)	lb	*1920	1170	*1340	860	*1060	660	*750	550	(11.1)
Ground Line	kg	*910	520	*650	380	*500	300	*390	260	3.29
	lb	*2010	1150	*1430	840	*1100	660	*860	570	(10.8)
-0.5 m	kg	*880	520	*630	380	*480	290	*450	280	3.08
(-1.6 ft)	lb	*1940	1150	*1390	840	*1060	640	*990	620	(10.1)
-1.0 m	kg	*770	520	*550	380			*460	340	2.74
(-3.3 ft)	lb	*1700	1150	*1210	840			*1010	750	(9.0)
-1.5 m	kg	*520	*520					*440	*440	2.15
(-4.9 ft)	lb	*1150	*1150					*970	*970	(7.1)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
R18-9	Cab	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1800	960	60	230	-	Up	-	-	-



Lift-point height (A)		Lift-point radius (B)						At max. reach		
		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		Capacity		Reach
										m (ft)
3.0 m	kg							*400	*400	2.20
(9.8 ft)	lb							*880	*880	(7.2)
2.5 m	kg			*370	*370			*340	*340	2.76
(8.2 ft)	lb			*820	*820			*750	*750	(9.1)
2.0 m	kg			*390	*390	320	300	300	280	3.10
(6.6 ft)	lb			*860	*860	710	660	660	620	(10.2)
1.5 m	kg	*530	*530	410	390	310	290	270	250	3.30
(4.9 ft)	lb	*1170	*1170	900	860	680	640	600	550	(10.8)
1.0 m	kg	560	520	400	380	310	290	260	240	3.39
(3.3 ft)	lb	1230	1150	880	840	680	640	570	530	(11.1)
0.5 m	kg	540	500	390	360	300	280	250	240	3.39
(1.6 ft)	lb	1190	1100	860	790	660	620	550	530	(11.1)
Ground Line	kg	530	490	380	360	300	280	260	250	3.29
	lb	1170	1080	840	790	660	620	570	550	(10.8)
-0.5 m	kg	530	490	380	360	300	280	290	270	3.08
(-1.6 ft)	lb	1170	1080	840	790	660	620	640	600	(10.1)
-1.0 m	kg	540	490	390	360			340	320	2.74
(-3.3 ft)	lb	1190	1080	860	790			750	710	(9.0)
-1.5 m	kg	*520	510					*440	*440	2.15
(-4.9 ft)	lb	*1150	1120					*970	*970	(7.1)

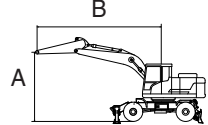
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
R18-9	Canopy	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1800	1120	60	230	-	Down	-	-	-

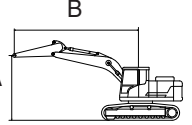


Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		3.5 m (11.5 ft)		Capacity		Reach
												m (ft)
2.5 m	kg			*320	*320					*280	*280	2.96
(8.2 ft)	lb			*710	*710					*620	*620	(9.7)
2.0 m	kg			*340	*340	*350	280			*260	240	3.27
(6.6 ft)	lb			*750	*750	*770	620			*570	530	(10.7)
1.5 m	kg	*460	*460	*410	370	*380	280			*260	220	3.45
(4.9 ft)	lb	*1010	*1010	*900	820	*840	620			*570	490	(11.3)
1.0 m	kg	*660	500	*500	360	*420	270	*340	210	*270	210	3.54
(3.3 ft)	lb	*1460	1100	*1100	790	*930	600	*750	460	*600	460	(11.6)
0.5 m	kg	*830	470	*580	340	*460	260	*370	210	*280	210	3.54
(1.6 ft)	lb	*1830	1040	*1280	750	*1010	570	*820	460	*620	460	(11.6)
Ground Line	kg	*900	460	*630	330	*490	260			*320	210	3.45
	lb	*1980	1010	*1390	730	*1080	570			*710	460	(11.3)
-0.5 m	kg	*890	460	*640	330	*490	260			*370	230	3.25
(-1.6 ft)	lb	*1960	1010	*1410	730	*1080	570			*820	510	(10.7)
-1.0 m	kg	*810	460	*580	330					*430	270	2.93
(-3.3 ft)	lb	*1790	1010	*1280	730					*950	600	(9.6)
-1.5 m	kg	*620	470							*430	360	2.42
(-4.9 ft)	lb	*1370	1040							*950	790	(7.9)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
R18-9	Canopy	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1800	1120	60	230	-	Up	-	-	-

 : Rating over-front
  : Rating over-side or 360 degree

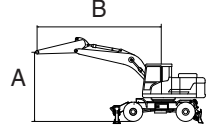
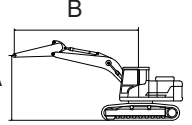




Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		3.5 m (11.5 ft)		Capacity		Reach
												m (ft)
2.5 m	kg			*320	*320					*280	270	2.96
(8.2 ft)	lb			*710	*710					*620	600	(9.7)
2.0 m	kg			*340	*340	280	270			240	230	3.27
(6.6 ft)	lb			*750	*750	620	600			530	510	(10.7)
1.5 m	kg	*460	*460	370	350	280	260			220	210	3.45
(4.9 ft)	lb	*1010	*1010	820	770	620	570			490	460	(11.3)
1.0 m	kg	500	470	360	340	270	260	210	200	210	200	3.54
(3.3 ft)	lb	1100	1040	790	750	600	570	460	440	460	440	(11.6)
0.5 m	kg	480	440	350	320	270	250	210	200	210	200	3.54
(1.6 ft)	lb	1060	970	770	710	600	550	460	440	460	440	(11.6)
Ground Line	kg	470	430	340	320	260	240			210	200	3.45
	lb	1040	950	750	710	570	530			460	440	(11.3)
-0.5 m	kg	460	430	330	310	260	240			230	220	3.25
(-1.6 ft)	lb	1010	950	730	680	570	530			510	490	(10.7)
-1.0 m	kg	470	430	340	310					270	250	2.93
(-3.3 ft)	lb	1040	950	750	680					600	550	(9.6)
-1.5 m	kg	480	440							360	340	2.42
(-4.9 ft)	lb	1060	970							790	750	(7.9)

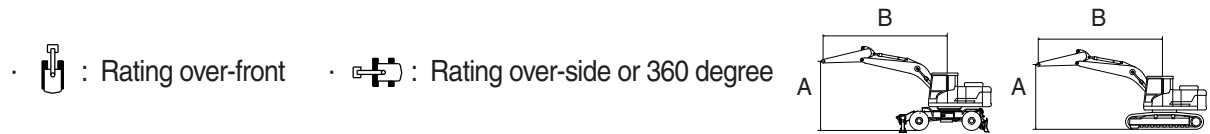
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
R18-9	Cab	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1800	1120	60	230	-	Down	-	-	-

 : Rating over-front
  : Rating over-side or 360 degree

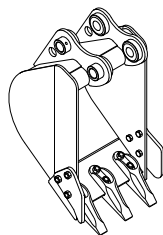
Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		3.5 m (11.5 ft)		Capacity		Reach
												m (ft)
2.5 m	kg			*320	*320					*280	*280	2.96
(8.2 ft)	lb			*710	*710					*620	*620	(9.7)
2.0 m	kg			*340	*340	*350	310			*260	*260	3.27
(6.6 ft)	lb			*750	*750	*770	680			*570	*570	(10.7)
1.5 m	kg	*460	*460	*410	*410	*380	310			*260	250	3.45
(4.9 ft)	lb	*1010	*1010	*900	*900	*840	680			*570	550	(11.3)
1.0 m	kg	*660	550	*500	400	*420	300	*340	240	*270	240	3.54
(3.3 ft)	lb	*1460	1210	*1100	880	*930	660	*750	530	*600	530	(11.6)
0.5 m	kg	*830	530	*580	380	*460	300	*370	240	*280	230	3.54
(1.6 ft)	lb	*1830	1170	*1280	840	*1010	660	*820	530	*620	510	(11.6)
Ground Line	kg	*900	520	*630	380	*490	290			*320	240	3.45
	lb	*1980	1150	*1390	840	*1080	640			*710	530	(11.3)
-0.5 m	kg	*890	510	*640	370	*490	290			*370	260	3.25
(-1.6 ft)	lb	*1960	1120	*1410	820	*1080	640			*820	570	(10.7)
-1.0 m	kg	*810	520	*580	370					*430	300	2.93
(-3.3 ft)	lb	*1790	1150	*1280	820					*950	660	(9.6)
-1.5 m	kg	*620	530							*430	400	2.42
(-4.9 ft)	lb	*1370	1170							*950	880	(7.9)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
R18-9	Cab	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1800	1120	60	230	-	Up	-	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		3.5 m (11.5 ft)		Capacity		Reach
												m (ft)
2.5 m	kg			*320	*320					*280	*280	2.96
(8.2 ft)	lb			*710	*710					*620	*620	(9.7)
2.0 m	kg			*340	*340	320	300			*260	260	3.27
(6.6 ft)	lb			*750	*750	710	660			*570	570	(10.7)
1.5 m	kg	*460	*460	*410	390	310	290			250	230	3.45
(4.9 ft)	lb	*1010	*1010	*900	860	680	640			550	510	(11.3)
1.0 m	kg	560	520	400	370	310	290	240	230	240	220	3.54
(3.3 ft)	lb	1230	1150	880	820	680	640	530	510	530	490	(11.6)
0.5 m	kg	540	500	390	360	300	280	240	220	240	220	3.54
(1.6 ft)	lb	1190	1100	860	790	660	620	530	490	530	490	(11.6)
Ground Line	kg	530	480	380	350	290	280			240	230	3.45
	lb	1170	1060	840	770	640	620			530	510	(11.3)
-0.5 m	kg	520	480	380	350	290	270			260	250	3.25
(-1.6 ft)	lb	1150	1060	840	770	640	600			570	550	(10.7)
-1.0 m	kg	530	480	380	350					300	280	2.93
(-3.3 ft)	lb	1170	1060	840	770					660	620	(9.6)
-1.5 m	kg	540	490							410	380	2.42
(-4.9 ft)	lb	1190	1080							900	840	(7.9)

6. BUCKET SELECTION GUIDE



0.04 m³ SAE
heaped bucket

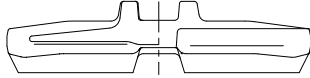
Capacity		Width		Weight	Recommendation
					1.8 m (5' 11") boom
SAE heaped	CECE heaped	Without side cutter	With side cutter		0.96 m (3' 2") arm
0.04m ³ (0.05 yd ³)	0.03 m ³ (0.04 yd ³)	390 mm (15.4")	440 mm (17.3")	43 kg (95 lb)	Applicable for materials with density of 1600 kgf/m ³ (2700 lb /yd ³) or less

7. UNDERCARRIAGE

(1) TRACKS

X-leg type center frame is integrally welded with reinforced box-section track frames. The design includes dry tracks, lubricated rollers, idlers, sprockets, hydraulic track adjusters with shock absorbing springs and assembled track-type tractor shoes with triple grousers.

(2) TYPES OF SHOES

Model	Shapes		Rubber track
			
R18-9	Shoe width	mm (in)	230 (9")
	Operating weight	kg (lb)	1885 (4156)
	Ground pressure	kgf/cm ² (psi)	0.3 (4.24)
	Overall width	mm (ft-in)	1250 (4' 1")

(3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Track rollers	3 EA

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Mitsubishi L3E
Type	4-cycle vertical overhead valve, diesel fuel
Cooling method	Water cooling
Number of cylinders and arrangement	3 cylinders, in-line
Firing order	1-3-2
Combustion chamber type	Swirl chamber type
Cylinder bore × stroke	76 × 70 mm (2.99" × 2.76")
Piston displacement	952 cc (58.1 cu in)
Compression ratio	23 : 1
Rated gross horse power (SAE J1995)	18.8 Hp at 2400 rpm (14.0 kW at 2400 rpm)
Maximum torque at 1800 rpm	5.4 kgf · m (39 lbf · ft)
Engine oil quantity	4.2 l (1.1 U.S. gal)
Dry weight	75 kg (165 lb)
High idling speed	2450 ± 50 rpm
Low idling speed	1650 ± 50 rpm
Rated fuel consumption	214 ± 8% g/Hp · hr at 2400 rpm (287 ± 8% g/kW · hr at 2400 rpm)
Starting motor	12V-1.7 kW
Alternator	12V-40 A
Battery	1 × 12 V × 80 Ah

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 7.4 cc/rev
Rated oil flow	2 × 18.1 l /min (4.8 U.S. gpm / 4.0 U.K. gpm)
Rated speed	2450 rpm

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	4.5/2.7 cc/rev
Rated oil flow	11.0/6.6 l /min (2.9/1.7 U.S. gpm / 2.3/1.4 U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	Sectional, 9 spools (12 blocks)
Operating method	Hydraulic pilot system
Main relief valve pressure	210 kgf/cm ² (2990 psi)
Overload relief valve pressure	230 kgf/cm ² (3270 psi)

5) SWING MOTOR

Item	Specification
Type	Fixed displacement axial piston motor
Capacity	18.1 cc/rev
Relief pressure	165 kgf/cm ² (2350 psi)
Reduction gear type	1 - stage planetary

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Relief pressure	210 kgf/cm ² (2990 psi)
Reduction gear type	2-stage planetary

7) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	ø 60 × ø 40 × 465 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	ø 60 × ø 40 × 400 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	ø 55 × ø 35 × 345 mm
	Cushion	-
Boom swing cylinder	Bore dia × Rod dia × Stroke	ø 55 × ø 30 × 355 mm
	Cushion	-
Dozer cylinder	Bore dia × Rod dia × Stroke	ø 65 × ø 30 × 93 mm
	Cushion	-

※ Discoloration of cylinder rod can occur when the friction reduction additive of lubrication oil spreads on the rod surface.

※ Discoloration does not cause any harmful effect on the cylinder performance.

8) BUCKET

Item	Capacity		Tooth quantity	Width	
	SAE heaped	CECE heaped		Without side cutter	With side cutter
Standard	0.04 m ³ (0.05 yd ³)	0.03 m ³ (0.04 yd ³)	3	390 mm (15.4")	440 mm (17.3")

9. RECOMMENDED OILS

HYUNDAI genuine lubricating oils have been developed to offer the best performance and service life for your equipment. These oils have been tested according to the specifications of HYUNDAI and, therefore, will meet the highest safety and quality requirements.

We recommend that you use only HYUNDAI genuine lubricating oils and grease officially approved by HYUNDAI.

Service point	Kind of fluid	Capacity ℓ (U.S. gal)	Ambient temperature °C (°F)								
			-50 (-58)	-30 (-22)	-20 (-4)	-10 (14)	0 (32)	10 (50)	20 (68)	30 (86)	40 (104)
Engine oil pan	Engine oil	4.2 (1.1)	★SAE 5W-40								
								SAE 30			
								SAE 10W			
								SAE 10W-30			
								SAE 15W-40			
Final drive	Gear oil	0.33 × 2 (0.09 × 2)	★SAE 75W-90								
								SAE 85W-140			
Hydraulic tank	Hydraulic oil	Tank; 20 (5.3)	★ISO VG 15								
							ISO VG 46, HBHO VG 46★ ³				
		System; 30 (7.9)					ISO VG 68				
Fuel tank	Diesel fuel★ ¹	25 (6.6)	★ASTM D975 NO.1								
								ASTM D975 NO.2			
Fitting (grease nipple)	Grease	As required	★NLGI NO.1								
								NLGI NO.2			
Radiator (reservoir tank)	Mixture of antifreeze and soft water★ ²	4 (1.1)			Ethylene glycol base permanent type (50 : 50)						
			★Ethylene glycol base permanent type (60 : 40)								

SAE : Society of Automotive Engineers

API : American Petroleum Institute

ISO : International Organization for Standardization

NLGI : National Lubricating Grease Institute

ASTM : American Society of Testing and Material

★ : Cold region (Russia, CIS, Mongolia)

★¹ : Ultra low sulfur diesel

- sulfur content ≤ 15 ppm

★² : Soft water

City water or distilled water

★³ : Hyundai Bio Hydraulic Oil

※ Using any lubricating oils other than HYUNDAI genuine products may lead to a deterioration of performance and cause damage to major components.

※ Do not mix HYUNDAI genuine oil with any other lubricating oil as it may result in damage to the systems of major components.

※ Do not use any engine oil other than that specified above, as it may clog the diesel particulate filter(DPF).

※ For HYUNDAI genuine lubricating oils and grease for use in regions with extremely low temperatures, please contact HYUNDAI dealers.