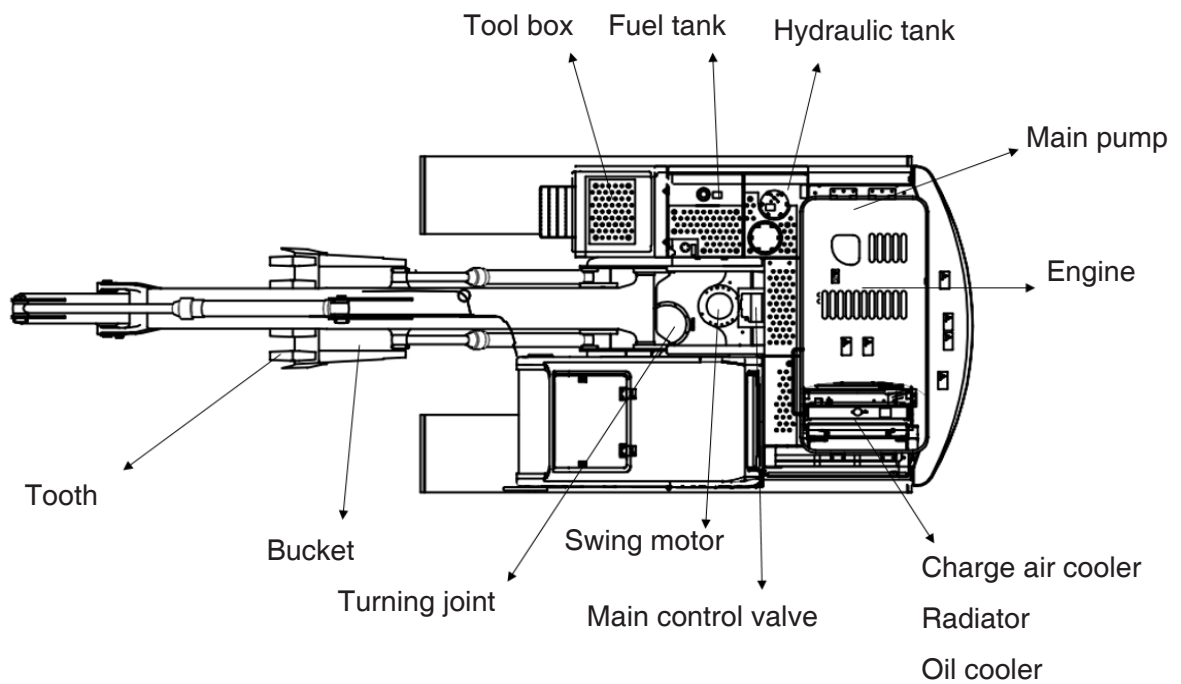
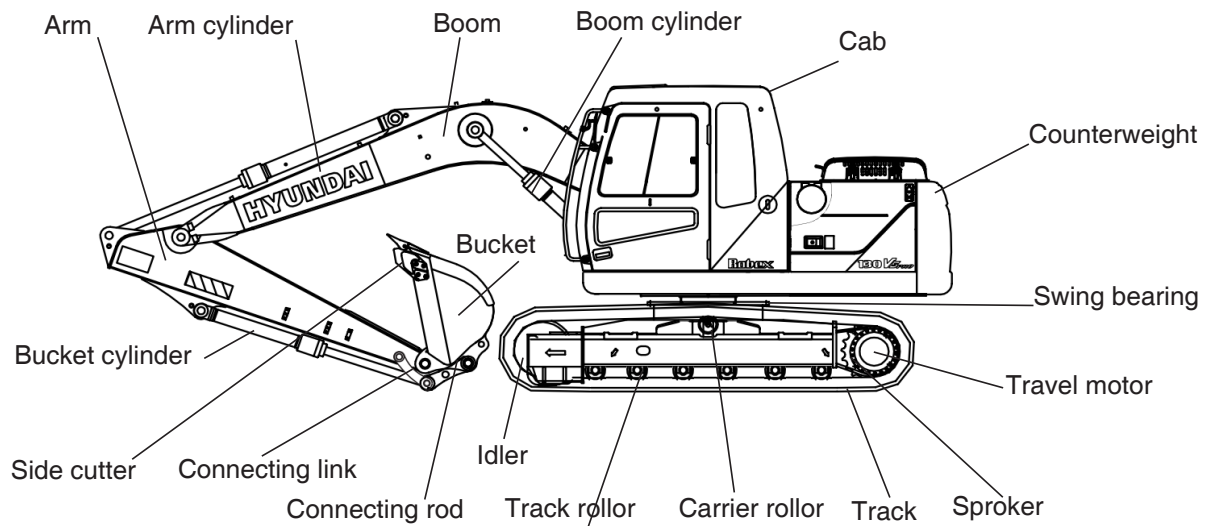
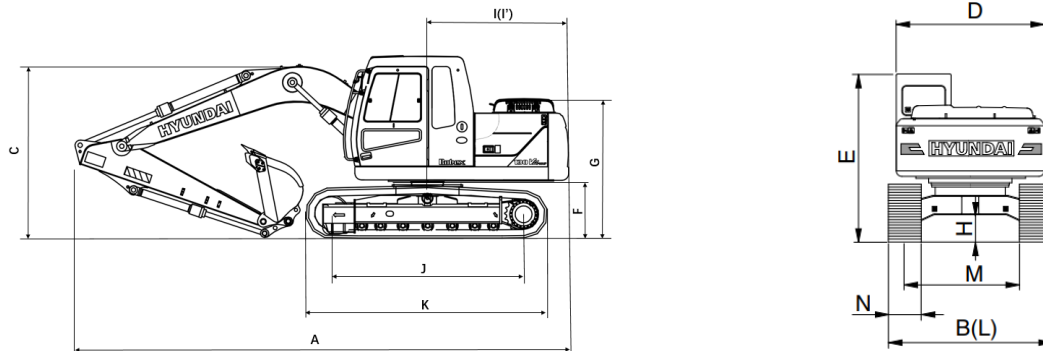


1. MAJOR COMPONENT



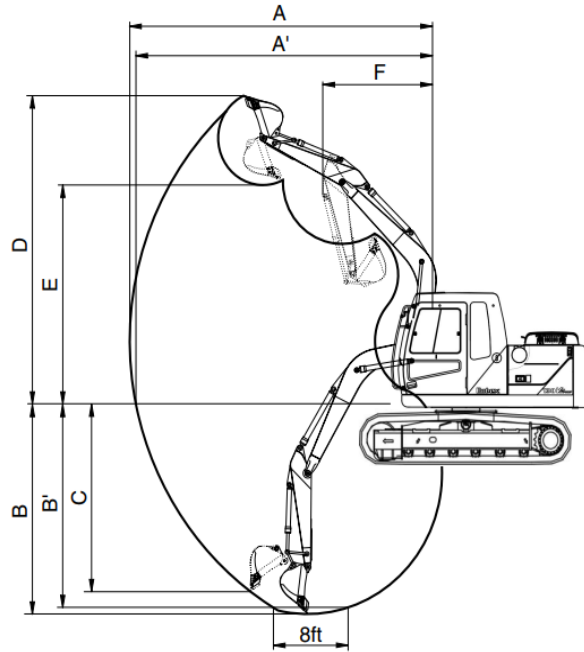
2. SPECIFICATIONS



Description		Unit	Specification
Operating weight		kg (lb)	13400 (29541)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.52(0.68)
Overall length	A	mm (ft-in)	7820 (25' 8")
Overall width, with 500 mm shoe	B		2500 (8' 2")
Overall height	C		2850 (9' 4")
Superstructure width	D		2476 (8' 1")
Overall height of cab	E		2860 (9' 5")
Ground clearance of counterweight	F		935(3' 11")
Engine cover height	G		2215(7' 3")
Minimum ground clearance	H		440 (1' 5")
Rear-end distance	I		2000(6' 7")
Rear-end swing radius	I'		2000 (6' 7")
Distance between tumblers	J		2830 (9' 3")
Undercarriage length	K		3580 (11' 9")
Undercarriage width	L		2500 (8' 2")
Track gauge	M		2000 (6' 7")
Track shoe width, standard	N		500 (20")
Travel speed (low/high)		km/hr (mph)	3.2/5.5(2.0/3.4)
Swing speed		rpm	12.0
Gradeability		Degree (%)	35 (70)
Ground pressure (500 mm shoe)		kgf/cm ² (psi)	0.43(6.11)
Max traction force		kg (lb)	13300(29320)

3. WORKING RANGE

·4.60 m (15' 1") BOOM



Description		2.5 m (8' 2") Arm
Max digging reach	A	8330mm (27' 4")
Max digging reach on ground	A'	8180mm (26' 10")
Max digging depth	B	5550 mm (18' 3")
Max digging depth (8ft level)	B'	5340 mm (17' 6")
Max vertical wall digging depth	C	5330 mm (17' 6")
Max digging height	D	8500mm (27' 11")
Max dumping height	E	6060mm (19' 11")
Min swing radius	F	2650mm (8' 8")
Bucket digging force	SAE	87.3[94.8] kN
		8900 [9660] kgf
		19620 [21300] lbf
	ISO	102 [110.8] kN
		10400[11290] kgf
		22930[24890] lbf
Arm crowd force	SAE	62.8 [68.2] kN
		6400 [6950] kgf
		14110[15320] lbf
	ISO	65.7 [71.4] kN
		6700[7270] kgf
		14770[16040] lbf

[] : Power boost

4. WEIGHT

Item	R130VSPRO	
	kg	lb
Upperstructure assembly	5630	12420
Main frame weld assembly	1160	2560
Engine assembly	335	739
Main pump assembly	100	220
Main control valve assembly	140	310
Swing motor assembly	120	260
Hydraulic oil tank assembly	160	350
Fuel tank assembly	130	290
Counterweight	2000	4410
Cab assembly	500	1100
Lower chassis assembly	5340	11760
Track frame weld assembly	1590	3510
Swing bearing	190	410
Travel motor assembly	480	1060
Turning joint	50	110
Track recoil spring and idler	210	460
Idler	250	550
Carrier roller	40	90
Track roller	490	1080
Track-chain assembly (500 mm standard triple grouser shoe)	1010	2230
Front attachment assembly (4.6 m boom, 2.5 m arm, 0.52 m³ SAE heaped bucket)	2420	5330
4.6 m boom assembly	830	1830
2.5 m arm assembly	435	960
0.52 m³ SAE heaped bucket	472	1041
Boom cylinder assembly	130	290
Arm cylinder assembly	160	350
Bucket cylinder assembly	100	220
Bucket control linkage assembly	90	200

5. LIFTING CAPACITIES

- 1) 4.60m (15' 1") boom, 2.50 m (8' 2") arm equipped with 0.52 m³ (SAE heaped) bucket and 500 mm (24") triple grouser shoe and 2000 kg (4410 lb) counterweight.



: Rating over-front



: Rating over-side or 360 degree

Load point height		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)
6.0 m (20 ft)	kg lb									*2810 *6190	1920 4230	6.69 (21.9)
4.5 m (15.0 ft)	kg lb							*2770 *6110	2270 5000	2440 5380	1500 3310	7.53 (24.7)
3.0 m (10.0 ft)	kg lb			*4930 *10870	*4930 *10870	*3830 *8440	3570 7870	*3380 *7450	2190 4830	2170 4780	1310 2890	7.95 (26.1)
1.5 m (5.0 ft)	kg lb			*8030 *17700	6240 13760	*5010 *11050	3300 7280	3380 7450	2070 4560	2100 4630	1250 2760	8.03 (26.3)
Ground Line	kg lb			*8780 *19360	5800 12790	5200 11460	3090 6810	3270 7210	1970 4340	2180 4810	1300 2870	7.77 (25.5)
-1.5 m (-5.0 ft)	kg lb	*5740 *12650	*5740 *12650	*9910 *21850	5700 12570	5080 11200	2990 6590	3220 7100	1920 4230	2500 5510	1500 3310	7.15 (23.5)
-3.0 m (-10.0 ft)	kg lb	*8760 *19310	*8760 *19310	*9040 *19930	5770 12720	5100 11240	3000 6610			3340 7360	2030 4480	6.01 (19.7)
-4.5 m (-15.0 ft)	kg lb			*6590 *14530	6030 13290							

- Note:
1. Lifting capacity are based on SAE J1097 and 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 located on the back of the bucket.
 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.

6. BUCKET SELECTION GUIDE

1) GENERAL BUCKET



0.52 m³ SAE
heaped bucket


Capacity		Width		Weight	Recommendation
SAE heaped	CECE heaped	Without side cutter	With side cutter		4.60 m(15' 1") boom
					2.5 m arm (8' 2")
0.52m³ (0.68yd³)	0.45m³ (0.59yd³)	915 mm (36.0")	1015mm (40.0")	472kg (1041 lb)	Applicable for materials with density of 1600 kg/m³ (2700 lb/yd³) 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		Triple grouser
			
R130VS PRO	Shoe width	mm (in)	500 (20)
	Operating weight	kg (lb)	13400 (29541)
	Ground pressure	kgf/cm ² (psi)	0.43(6.11)
	Overall width	mm (ft-in)	2500 (8' 2")

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Carrier rollers	1 EA
Track rollers	6 EA
Track shoes	44 EA

4) SELECTION OF TRACK SHOE

Suitable track shoes should be selected according to operating conditions.

Method of selecting shoes

Confirm the category from the list of applications in **table 2**, then use **table 1** to select the shoe. Wide shoes (categories B and C) have limitations on applications. Before using wide shoes, check the precautions, then investigate and study the operating conditions to confirm if these shoes are suitable. Select the narrowest shoe possible to meet the required flotation and ground pressure. Application of wider shoes than recommendations will cause unexpected problem such as bending of shoes, crack of link, breakage of pin, loosening of shoe bolts and the other various problems.

※ **Table 1**

Track shoe	Specification	Category
500 mm triple grouser	Standard	A

※ **Table 2**

Category	Applications	Precautions
A	Rocky ground, river beds, normal soil	Travel at low speed on rough ground with large obstacles such as boulders or fallen trees

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Cummins F3.8
Type	4-cycle turbocharged charger air cooled diesel engine
Cooling method	Water cooling
Number of cylinders and arrangement	4 cylinders, in-line
Firing order	1-3-4-2
Combustion chamber type	Direct injection type
Cylinder bore × stroke	102 × 115 mm
Piston displacement	3760 cc
Compression ratio	17 : 1
Rated gross horse power (SAE J1995)	115 Hp at 2200 rpm (86 kW at 2200 rpm)
Maximum torque	48 kgf·m (3471 lbf·ft) at 1100 -1700 rpm
Engine oil quantity	11ℓ (2.9 U.S. gal, C I-4)
Dry weight	335 kg (739 lb)
Low idling speed	2200 ± 50 rpm
High idling speed	800 ± 50 rpm
Rated fuel consumption	185.9 g/Hp·hr at 2200 rpm
Starting motor	24V-4.8KW
Alternator	28V-70A
Battery	2 × 12V × 72Ah

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 72.9 cc/rev
Maximum pressure	350 kgf/cm ² [380 kgf/cm ²]
Rated oil flow	2 × 124ℓ/min
Rated speed	1700 rpm

[]: Power boost

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	15cc/rev
Maximum pressure	40 kgf/cm ²
Rated oil flow	25.5ℓ/min

4) MAIN CONTROL VALVE

Item	Specification
Type	11 spools
Operating method	Hydraulic pilot system
Main relief valve pressure	350 kgf/cm ² [380 kgf/cm ²]
Overload relief valve pressure	400 kgf/cm ²

[]: Power boost

5) SWING MOTOR

Item	Specification
Type	Axial piston motor
Capacity	72 cc/rev
Relief pressure	280 kgf/cm ²
Braking system	Automatic, spring applied hydraulic released
Braking torque	640 kgf·m
Brake release pressure	24 kgf/cm ²
Reduction gear type	2 - stage planetary

6) TRAVEL MOTOR

Item	Specification
Type	Axial piston motor
Relief pressure	400 kgf/cm ²
Capacity (max / min)	77.1/45 cc/rev
Reduction gear type	Planetary differential
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	9.5 kgf/cm ²
Braking torque	29.5 kgf·m

7) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	Ø105×Ø75×1075 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	Ø115×Ø80×1138 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	Ø100×Ø70×850 mm
	Cushion	Extend and retract

※ 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) SHOE

Item		Width	Ground pressure	Link quantity	Overall width
R130VSPRO	Standard	500 mm (20")	0.43 kgf/cm ² (6.11 psi)	44	2500 mm (8' 2")

9) BUCKET

Item		Capacity		Tooth quantity	Width	
		SAE heaped	CECE heaped		Without side cutter	With side cutter
R130VSPRO	Standard	0.52m ³ (0.68 yd ³)	0.45 m ³ (0.59yd ³)	5	915mm (36.0")	1015mm(40.0")

9. RECOMMENDED OILS

Use only oils listed below. Do not mix different brand oil.

Please use HYUNDAI genuine oil and grease.

Service point	Kind of fluid	Capacity ℓ	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	11	★ SAE 5W-40								
								SAE 30			
				SAE 10W							
				SAE 10W-30							
				SAE 15W-40							
Swing drive	Gear oil	3.5			★ SAE 80W-90						
Final drive		2.2×2			SAE 85W-140						
Hydraulic tank	Hydraulic oil	Tank 124	★ ISO VG 15								
		System 210		ISO VG 32							
				ISO VG 46							
				ISO VG 68							
Fuel tank	Diesel fuel	270	★ 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★ ¹	15.5	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 : Soft water

City water or distilled water