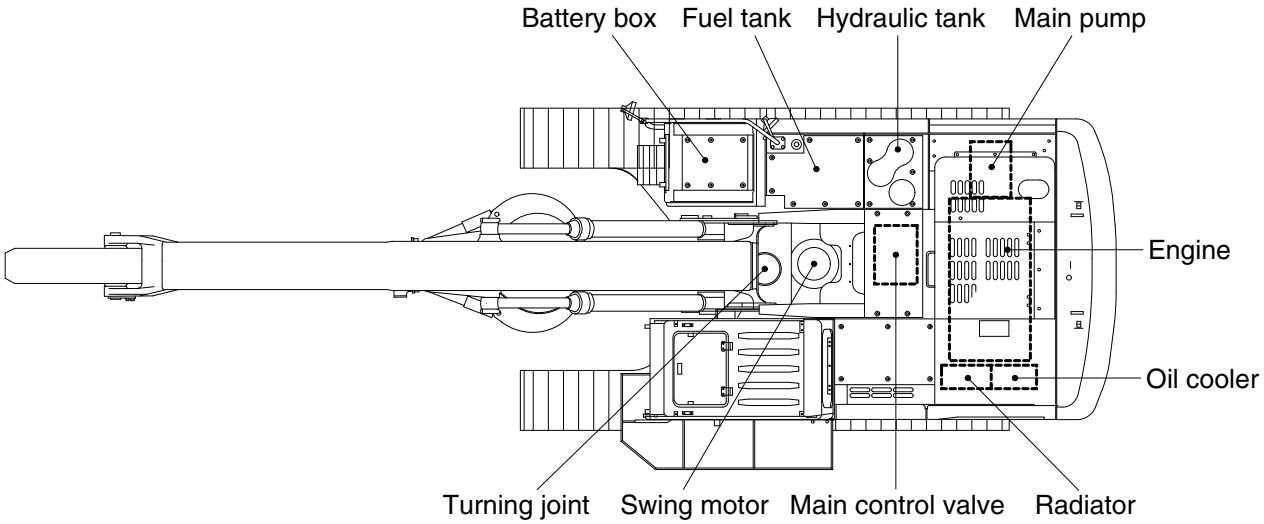
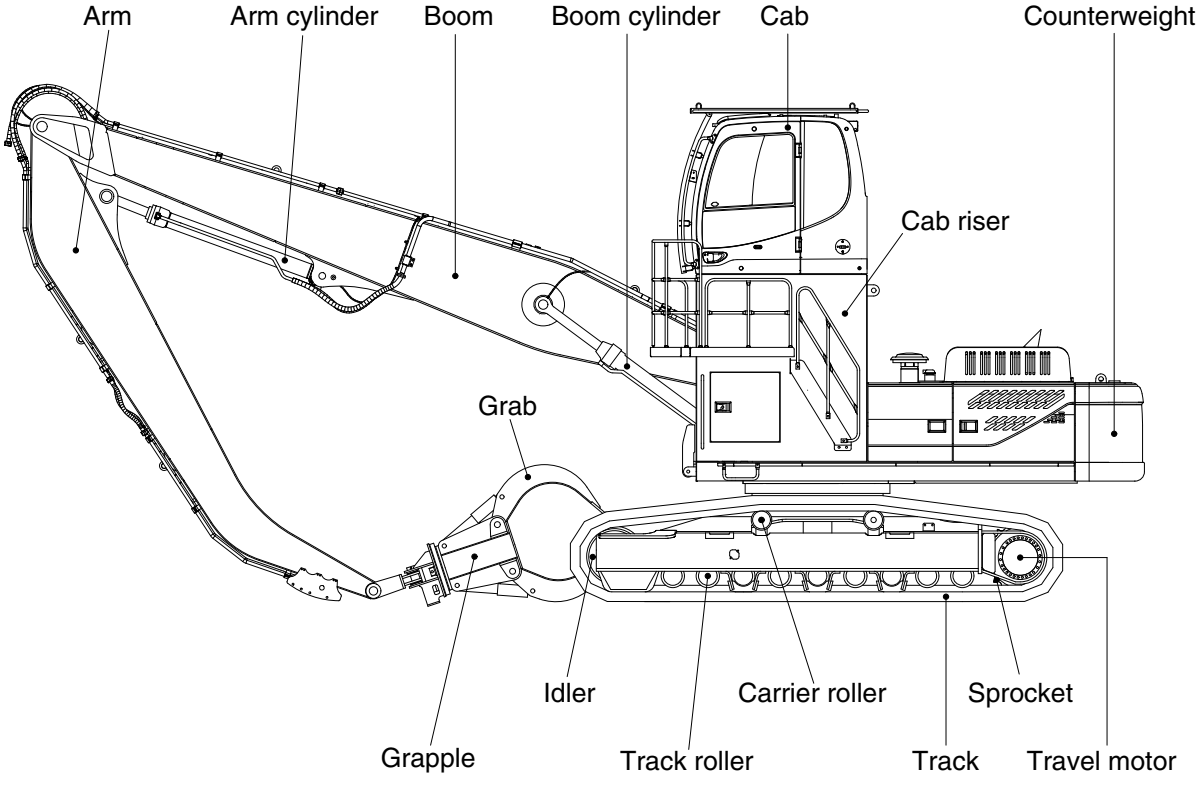
1. MAJOR COMPONENT

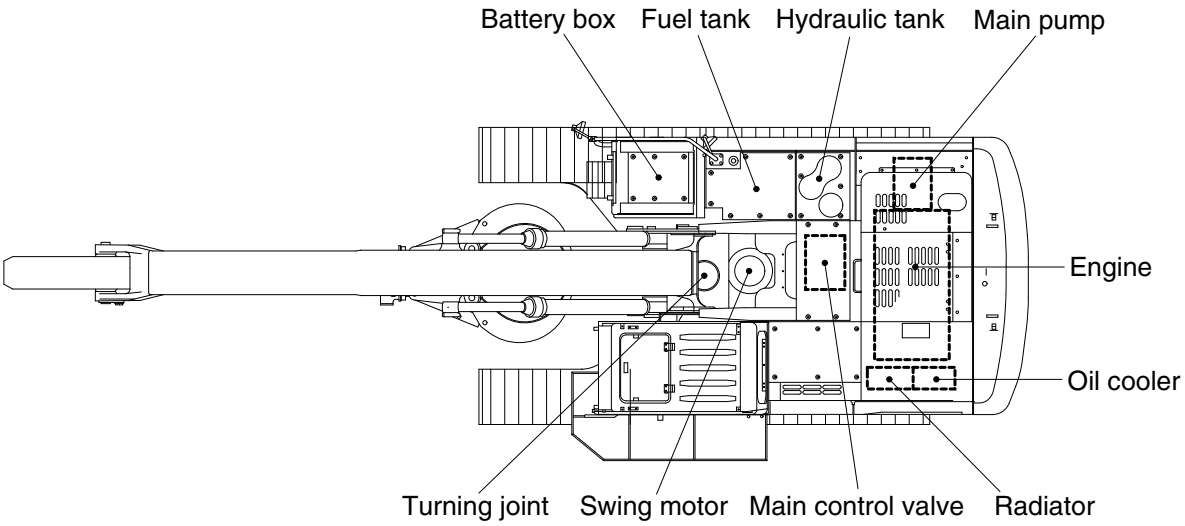
· 8.6 m (28' 3") BOOM, 6.05 m (19' 10") ARM AND 2.0 m (6' 7") TILT CAB

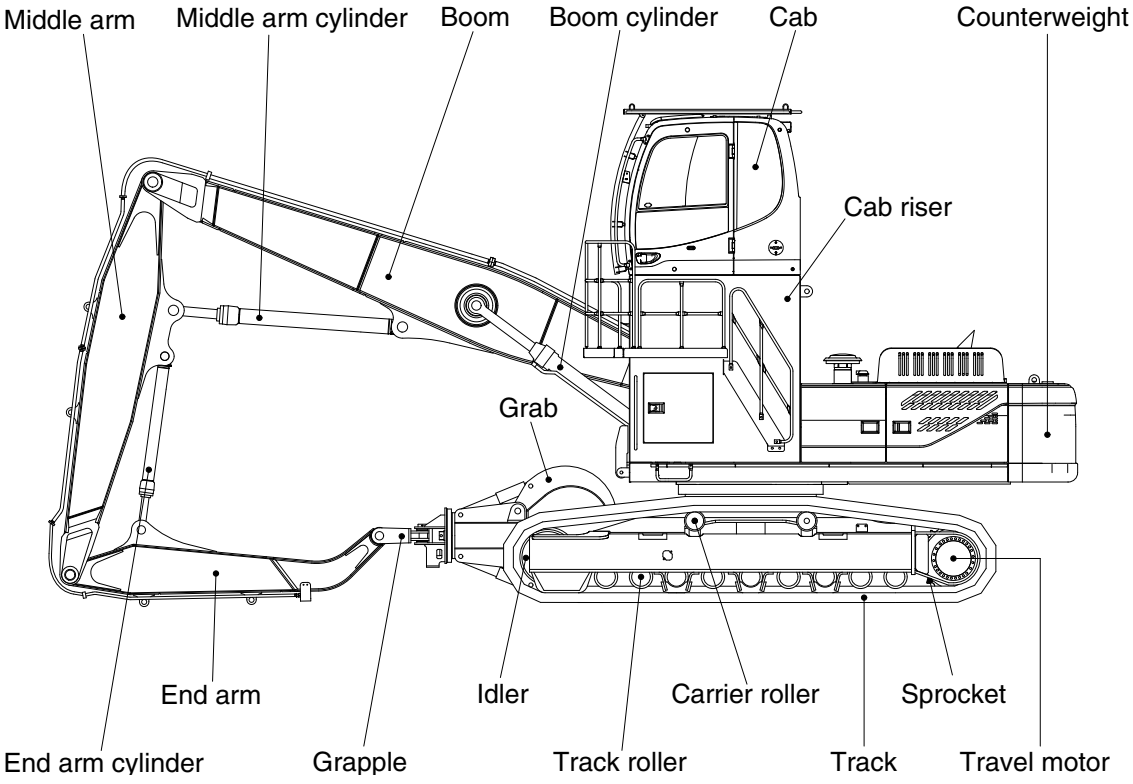




3809MH2SP01

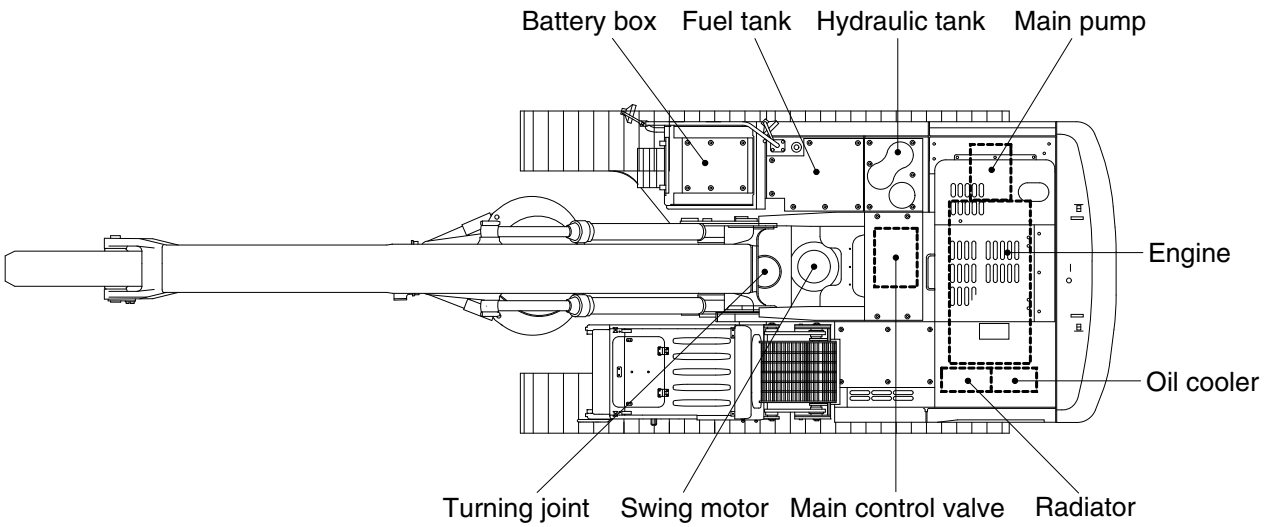
· 6.6 m (21' 8") BOOM, 4.3 m (14' 1") MIDDLE ARM, 3.3 m (10' 10") END ARM AND 2.0 m (6' 7") TILT CAB

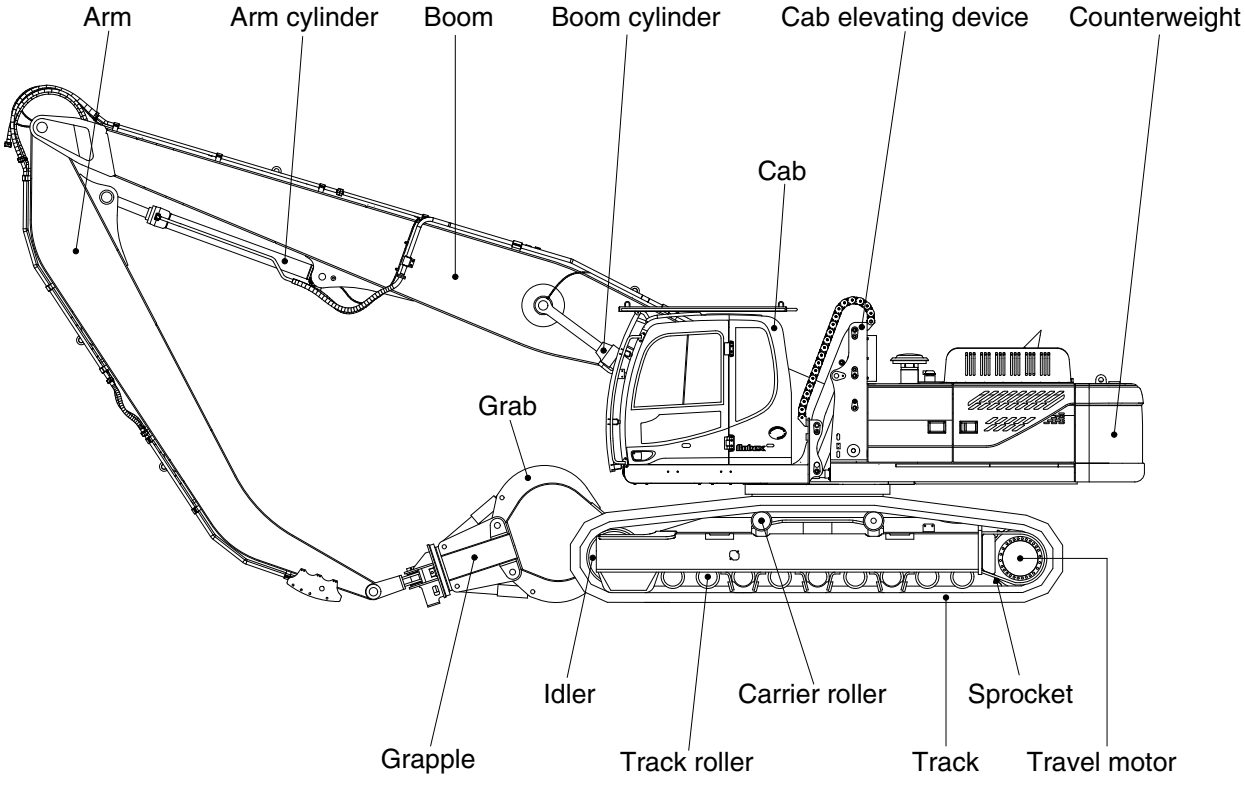




3809MH2SP02

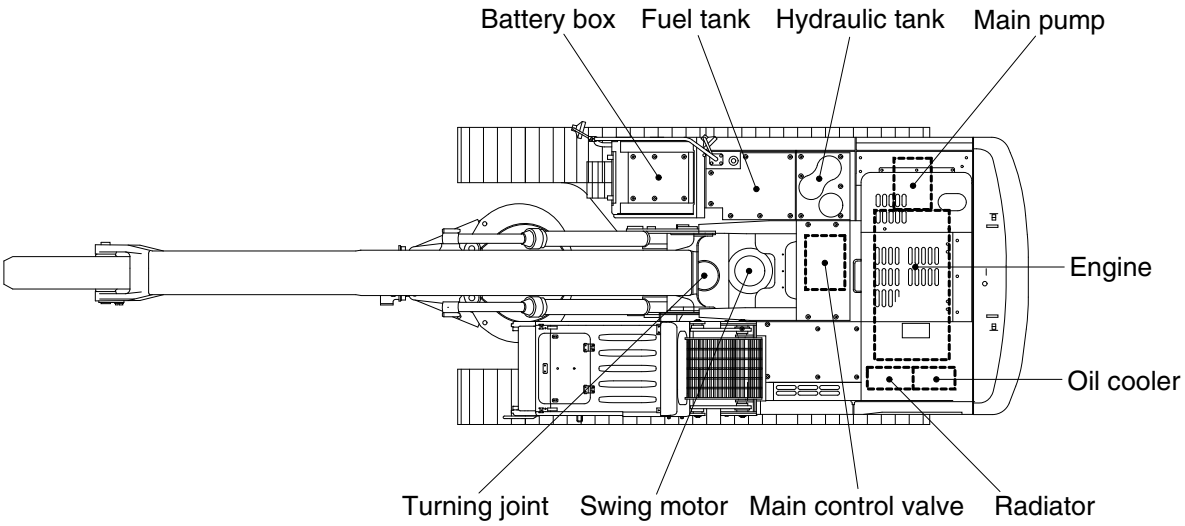
· 8.6 m (28' 3") BOOM, 6.05 m (19' 10") ARM AND 2.0 m (6' 7") ELEVATING CAB

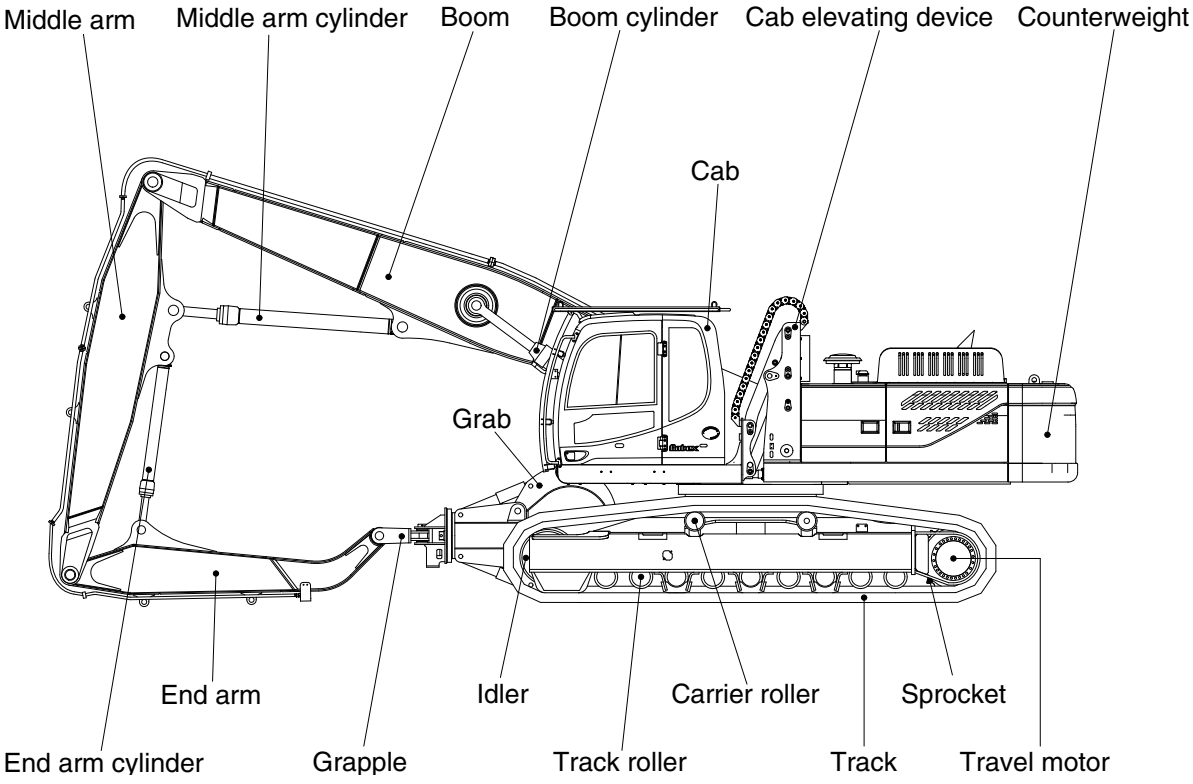




3809MH2SP07

· 6.6 m (21' 8") BOOM, 4.3 m (14' 1") MIDDLE ARM, 3.3 m (10' 10") END ARM AND 2.0 m (6' 7") ELEVATING CAB

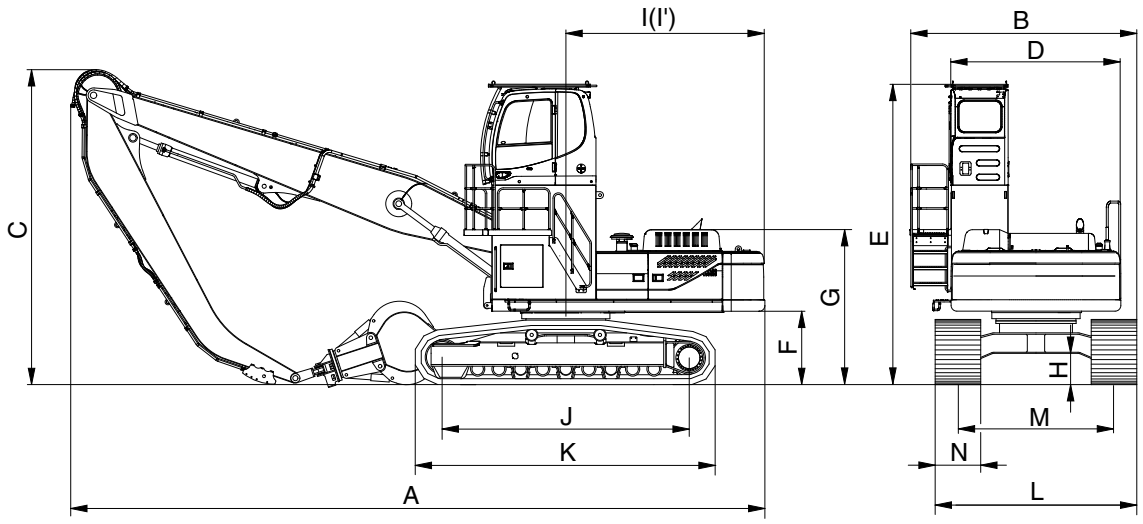




3809MH2SP08

2. SPECIFICATIONS

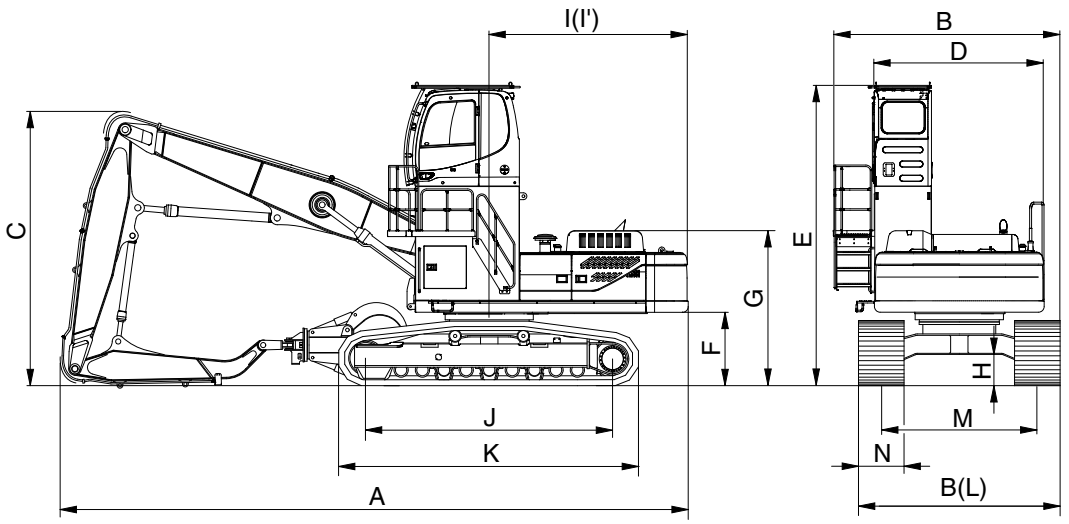
· 8.6 m (28' 3") BOOM, 6.05 m (19' 10") ARM AND 2.0 m (6' 7") TILT CAB



3809MH2SP03

Description		Unit	Specification
Operating weight		kg (lb)	43240 (95330)
Grapple capacity, standard		m^3 (yd^3)	1.2 (1.57)
Overall length	A	mm (ft-in)	12210 (40' 1")
Overall width, with 800 mm shoe	B		3980 (13' 1")
Overall height	C		5540 (18' 2")
Superstructure width	D		2980 (9' 9")
Overall height of cab	E		5280 (17' 4")
Ground clearance of counterweight	F		1290 (4' 3")
Engine cover height	G		2790 (9' 2")
Minimum ground clearance	H		550 (1' 10")
Rear-end distance	I		3500 (11' 6")
Rear-end swing radius	I'		3415 (11' 2")
Distance between tumblers	J		4340 (14' 3")
Undercarriage length	K		5217 (17' 1")
Undercarriage width	L		3540 (11' 7")
Track gauge	M		2740 (9' 0")
Track shoe width, standard	N		800 (32")
Travel speed (low/high)		km/hr (mph)	3.0/4.8 (1.9/3.0)
Swing speed		rpm	9.3
Gradeability		Degree (%)	35 (70)
Ground pressure (800 mm shoe)		kgf/cm^2(psi)	0.58 (8.25)
Max traction force		kg (lb)	32000 (70550)

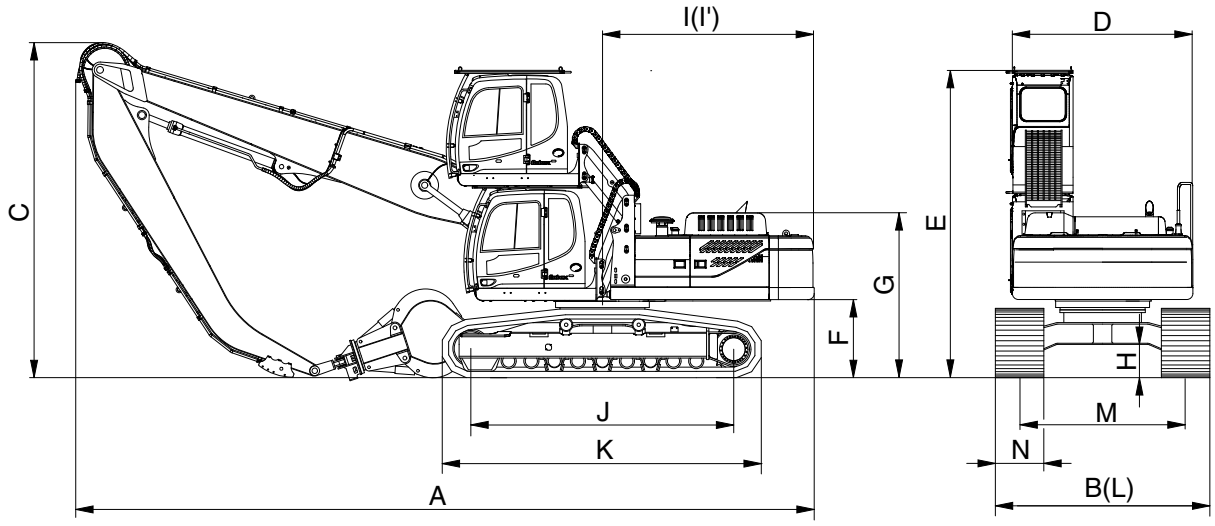
· 6.6 m (21' 8") BOOM, 4.3 m (14' 1") MIDDLE ARM, 3.3 m (10' 10") END ARM AND 2.0 m (6' 7") TILT CAB



3809MH2SP04

Description		Unit	Specification
Operating weight		kg (lb)	42980 (94750)
Grapple capacity (SAE heaped), standard		m^3 (yd^3)	1.2 (1.57)
Overall length	A	mm (ft-in)	11035 (36' 2")
Overall width, with 800 mm shoe	B		3980 (13' 1")
Overall height	C		4902 (16' 1")
Superstructure width	D		2980 (9' 9")
Overall height of cab	E		5280 (17' 4")
Ground clearance of counterweight	F		1290 (4' 3")
Engine cover height	G		2790 (9' 2")
Minimum ground clearance	H		550 (1' 10")
Rear-end distance	I		3500 (11' 6")
Rear-end swing radius	I'		3415 (11' 2")
Distance between tumblers	J		4340 (14' 3")
Undercarriage length	K		5217 (17' 1")
Undercarriage width	L		3540 (11' 7")
Track gauge	M		2740 (9' 0")
Track shoe width, standard	N		800 (32")
Travel speed (low/high)		km/hr (mph)	3.0/4.8 (1.9/3.0)
Swing speed		rpm	9.3
Gradeability		Degree (%)	35 (70)
Ground pressure (800 mm shoe)		kgf/cm^2(psi)	0.58 (8.25)
Max traction force		kg (lb)	32000 (70550)

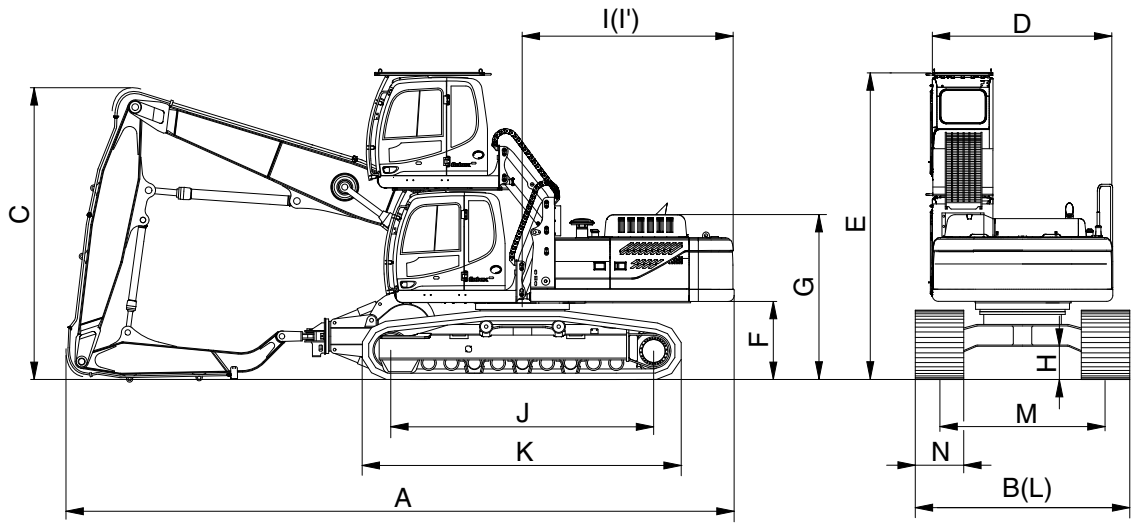
· 8.6 m (28' 3") BOOM, 6.05 m (19' 10") ARM AND 2.0 m (6' 7") ELEVATING CAB



3809MH2SP09

Description		Unit	Specification
Operating weight		kg (lb)	43640 (96210)
Grapple capacity, standard		m^3 (yd^3)	1.2 (1.57)
Overall length	A	mm (ft-in)	12210 (40' 1")
Overall width, with 800 mm shoe	B		3540 (11' 7")
Overall height	C		5540 (18' 2")
Superstructure width	D		2980 (9' 9")
Overall height of cab (lowered/raised pisition)	E		3210 / 5100 (10' 6" / 16' 7")
Ground clearance of counterweight	F		1290 (4' 3")
Engine cover height	G		2790 (9' 2")
Minimum ground clearance	H		550 (1' 10")
Rear-end distance	I		3500 (11' 6")
Rear-end swing radius	I'		3415 (11' 2")
Distance between tumblers	J		4340 (14' 3")
Undercarriage length	K		5217 (17' 1")
Undercarriage width	L		3540 (11' 7")
Track gauge	M		2740 (9' 0")
Track shoe width, standard	N		800 (32")
Travel speed (low/high)		km/hr (mph)	3.0/4.8 (1.9/3.0)
Swing speed		rpm	9.3
Gradeability		Degree (%)	35 (70)
Ground pressure (800 mm shoe)		kgf/cm^2(psi)	0.59 (8.39)
Max traction force		kg (lb)	32000 (70550)

· 6.6 m (21' 8") BOOM, 4.3 m (14' 1") MIDDLE ARM, 3.3 m (10' 10") END ARM AND 2.0 m (6' 7") ELEVATING CAB

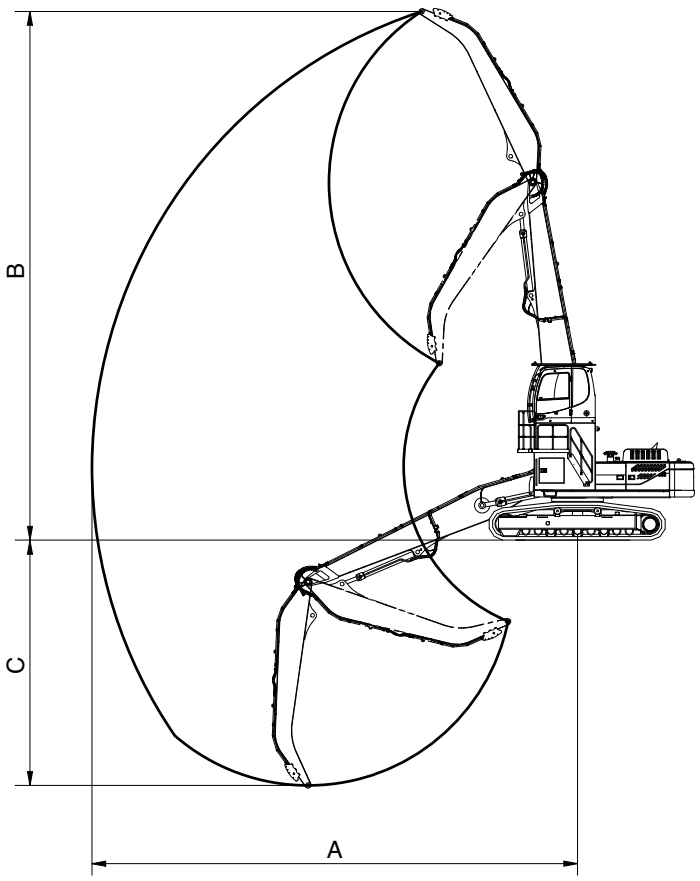


3809MH2SP10

Description		Unit	Specification
Operating weight		kg (lb)	43380 (95640)
Grapple capacity (SAE heaped), standard		m^3 (yd^3)	1.2 (1.57)
Overall length	A	mm (ft-in)	11035 (36' 2")
Overall width, with 800 mm shoe	B		3540 (11' 7")
Overall height	C		4902 (16' 1")
Superstructure width	D		2980 (9' 9")
Overall height of cab (lowered/raised pisition)	E		3210 / 5105 (10' 6" / 16' 7")
Ground clearance of counterweight	F		1290 (4' 3")
Engine cover height	G		2790 (9' 2")
Minimum ground clearance	H		550 (1' 10")
Rear-end distance	I		3500 (11' 6")
Rear-end swing radius	I'		3415 (11' 2")
Distance between tumblers	J		4340 (14' 3")
Undercarriage length	K		5127 (16' 10")
Undercarriage width	L		3540 (11' 7")
Track gauge	M		2740 (9' 0")
Track shoe width, standard	N		800 (32")
Travel speed (low/high)		km/hr (mph)	3.0/4.8 (1.9/3.0)
Swing speed		rpm	9.3
Gradeability		Degree (%)	35 (70)
Ground pressure (800 mm shoe)		kgf/cm^2(psi)	0.58 (8.25)
Max traction force		kg (lb)	32000 (70550)

3. WORKING RANGE

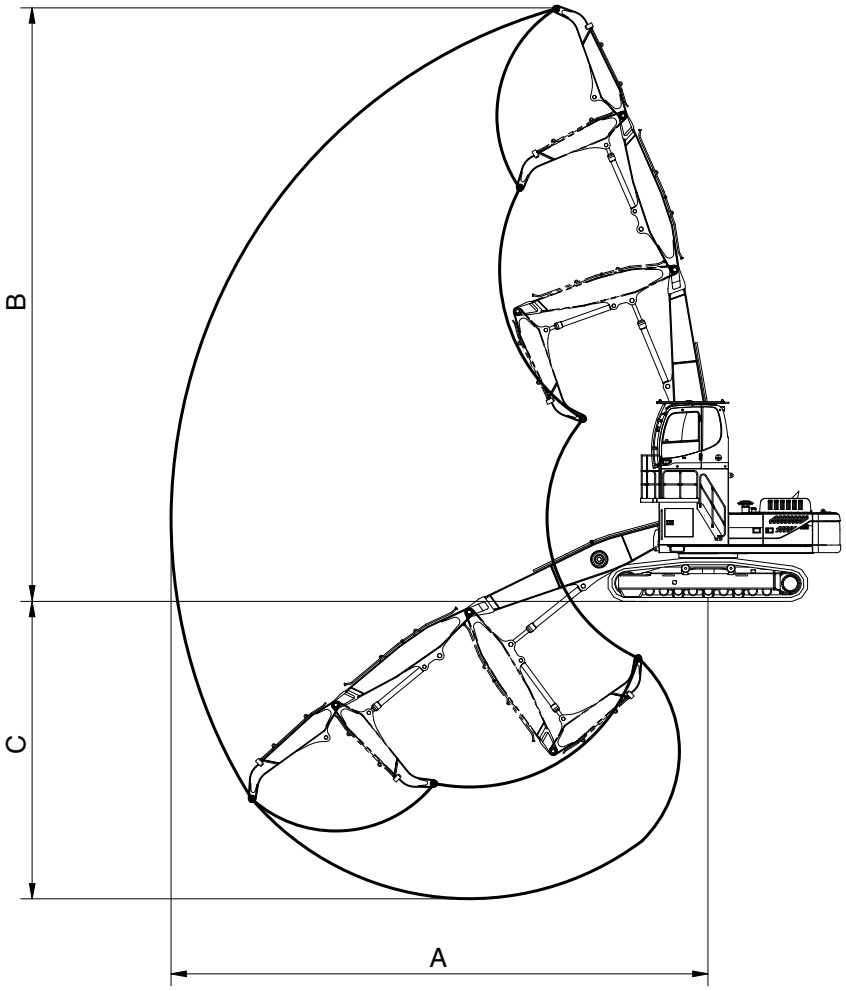
· 8.6 m (28' 3") BOOM



3809MH2SP05

Description		6.05 m (19' 10") Arm
Max working reach	A	14560 mm (47' 9")
Max working height	B	15850 mm (52' 0")
Max working depth	C	7360 mm (24' 2")

· 6.6 m (21' 8") BOOM



3809MH2SP06

Description		4.3 m (14' 1") Middle arm, 3.3 m (10' 10") End arm
Max working reach	A	14200 mm (46' 7")
Max working height	B	15700 mm (51' 6")
Max working depth	C	7870 mm (25' 10")

4. WEIGHT

Item	R380LC-9MH	
	kg	lb
Upperstructure assembly (tilting cab)	20920	46120
Upperstructure assembly (elevating cab)	21320	47000
Main frame weld assembly (tilting cab)	3810	8400
Main frame weld assembly (elevating cab)	3270	7210
Engine assembly	740	1630
Main pump assembly	190	420
Main control valve assembly	440	970
Swing motor assembly	360	790
Hydraulic oil tank assembly	340	750
Fuel tank assembly	230	510
Counterweight	8950	21720
Cab and fog guard assembly	550	1210
Elevating cab device assembly	1430	3150
Tilt cab riser assebly (2.0M)	1240	2730
Lower chassis assembly	14710	32430
Track frame weld assembly	5415	11940
Swing bearing	590	1300
Travel motor assembly	400	880
Turning joint	65	140
Track recoil spring and idler	270	600
Idler	230	510
Carrier roller	40	90
Track roller	80	180
Track-chain assembly (800 ㎜ standard triple grouser shoe)	2820	6220
Front attachment assembly (8.6 ㎜ boom, 6.05 ㎜ arm, 1.2 ㎥ grapple)	7610	16780
8.6 ㎜ boom assembly	3330	7340
6.05 ㎜ arm assembly	1270	2800
1.2 ㎥ grapple	1500	3310
Boom cylinder assembly	360	800
Arm cylinder assembly (standard, middle)	460	1010
Front attachment assembly (6.6 ㎜ boom, 4.3 ㎜ middle arm, 3.3 ㎜ end arm, 1.2 ㎥ grapple)	7680	16930
6.6 ㎜ boom assembly	2550	5620
4.3 ㎜ middle arm assembly	1100	2430
3.3 ㎥ end arm assembly	630	1390
End arm cylinder assembly	320	710

5. LIFTING CAPACITIES

1) 8.6 m (28' 3") boom, 6.05 m (19' 10") arm and 800 mm (32") triple grouser shoe.

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

Load point height		Load radius																At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		10.5 m (34.4 ft)		12.0 m (39.4 ft)		13.5 m (44.3 ft)		Capacity		Reach
																				m (ft)
13.5 m	kg							*8145	*8145	*6988	*6988							*6752	*6752	9.1
(44.3 ft)	lb							*17956	*17956	*15407	*15407							*14886	*14886	(29.9)
12 m	kg							*7700	*7700	*7232	*7232	*6649	5551					*6061	5321	10.72
(39.4 ft)	lb							*16976	*16976	*15944	*15944	*14659	12237					*13363	11730	(35.2)
10.5 m	kg							*7589	*7589	*7086	*7086	*6693	5681					*5666	4443	11.94
(34.4 ft)	lb							*16732	*16732	*15622	*15622	*14755	12524					*12491	9795	(39.2)
9 m	kg							*7751	*7751	*7158	*7158	*6678	5672	*6288	4471			*5432	3892	12.86
(29.5 ft)	lb							*17087	*17087	*15781	*15781	*14722	12504	*13862	9857			*11975	8580	(42.2)
7.5 m	kg							*8164	*8164	*7404	7172	*6801	5580	*6308	4441	*5520	3555	*5304	3524	13.55
(24.6 ft)	lb							*17999	*17999	*16323	15811	*14994	12303	*13906	9792	*12170	7838	*11694	7770	(44.5)
6 m	kg					*10216	*10216	*8798	*8798	*7784	6928	*7017	5429	*6405	4357	5553	3541	5179	3276	14.05
(19.7 ft)	lb					*22521	*22521	*19395	*19395	*17161	15274	*15471	11968	*14121	9606	12242	7806	11418	7223	(46.1)
4.5 m	kg					*11578	*11578	*9572	8694	*8241	6624	*7281	5237	*6536	4240	5493	3484	4957	3114	14.38
(14.8 ft)	lb					*25524	*25524	*21102	19167	*18169	14603	*16052	11545	*14410	9348	12110	7682	10929	6865	(47.2)
3 m	kg					*12950	11168	*10343	8158	*8692	6295	*7537	5028	6469	4109	5416	3412	4834	3020	14.54
(9.8 ft)	lb					*28551	24621	*22803	17985	*19163	13879	*16615	11085	14261	9059	11941	7522	10658	6658	(47.7)
1.5 m	kg					*13927	10336	*10932	7667	*9039	5986	7673	4828	6333	3982	5340	3340	4799	2987	14.54
(4.9 ft)	lb					*30703	22786	*24102	16902	*19927	13197	16917	10645	13962	8780	11773	7365	10579	6584	(47.7)
Ground	kg					*10605	9774	*11189	7289	*9188	5734	7492	4661	6219	3876	5280	3284	4849	3012	14.38
Line	lb					*23380	21547	*24668	16070	*20257	12641	16516	10275	13711	8545	11641	7240	10690	6641	(47.2)
-1.5 m	kg			*4087	*4087	*9438	*9438	*11035	7051	*9069	5560	7363	4542	6142	3804	5253	3258	*4730	3102	14.06
(-4.9 ft)	lb			*9010	*9010	*20807	*20807	*24329	15545	*19993	12258	16233	10014	13541	8387	11581	7184	*10428	6840	(46.1)
-3 m	kg	*3329	*3329	*5431	*5431	*10019	9386	*10444	6943	*8622	5471	*7194	4483	*5955	3779	*4513	3287	*4415	3271	13.57
(-9.8 ft)	lb	*7339	*7339	*11973	*11973	*22088	20693	*23024	15306	*19007	12063	*15859	9884	*13129	8332	*9950	7246	*9734	7211	(44.5)
-4.5 m	kg	*4851	*4851	*6915	*6915	*11370	9438	*9389	6946	*7784	5467	*6413	4491	*5057	3817			*3977	3545	12.88
(-14.8 ft)	lb	*10695	*10695	*15245	*15245	*25067	20806	*20698	15314	*17160	12053	*14138	9902	*11150	8416			*8769	7815	(42.3)
-6 m	kg			*8529	*8529	*9272	*9272	*7805	7051	*6450	5549	*5104	4580					*3568	*3568	11.83
(-19.7 ft)	lb			*18803	*18803	*20442	*20442	*17208	15545	*14219	12234	*11252	10098					*7866	*7866	(38.8)

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 the end pin point of front attachment.

4. *indicates load limited by hydraulic capacity.

⚠ Failure to comply to the rated load can cause possible personal injury or property damage. Make adjustments to the rated load as necessory for non-standard configurations.

(2) 6.6 m (21' 8") boom, 4.3 m (14' 1") middle arm, 3.3 m (10' 10") end arm and 800 mm (32") triple grouser shoe.

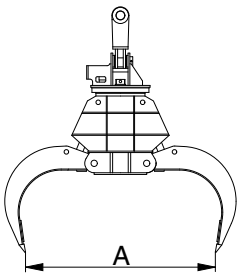
· : Rating over-front · : Rating over-side or 360 degree

Load point height		Load radius																At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		10.5 m (34.4 ft)		12.0 m (39.4 ft)		13.5 m (44.3 ft)		Capacity		Reach
																				m (ft)
13.5 m	kg					*6363	*6363	*5963	*5963									*6043	5539	8.64
(44.3 ft)	lb					*14028	*14028	*13146	*13146									*13322	12211	(28.2)
12 m	kg					*6452	*6452	*5847	*5847	*5433	*5433							*5410	4446	10.34
(39.4 ft)	lb					*14224	*14224	*12891	*12891	*11977	*11977							*11926	9802	(33.8)
10.5 m	kg					*7123	*7123	*6225	*6225	*5570	*5570	*5128	*5128					*5055	3817	11.59
(34.4 ft)	lb					*15704	*15704	*13723	*13723	*12280	*12280	*11305	*11305					*11145	8416	(37.9)
9 m	kg	*9611	*9611			*8094	*8094	*6576	*6576	*5595	*5595	*5307	*5307	*4856	4739			4733	3415	12.54
(29.5 ft)	lb	*21189	*21189			*17845	*17845	*14497	*14497	*12334	*12334	*11701	*11701	*10705	10447			10434	7528	(41.0)
7.5 m	kg	*7112	*7112	*8364	*8364	*8241	*8241	*6645	*6645	*5838	*5838	*5685	*5685	*5006	4695			4411	3142	13.25
(24.6 ft)	lb	*15679	*15679	*18439	*18439	*18169	*18169	*14649	*14649	*12870	*12870	*12533	*12533	*11037	10351			9725	6926	(43.3)
6 m	kg	*7090	*7090	*7553	*7553	*8309	*8309	*6658	*6658	*6437	*6437	*6144	5555	*5263	4597	*4675	3824	4195	2958	13.8
(19.7 ft)	lb	*15630	*15630	*16652	*16652	*18319	*18319	*14679	*14679	*14190	*14190	*13546	12246	*11604	10134	*10308	8431	9248	6521	(45.0)
4.5 m	kg			*7680	*7680	*8304	*8304	*7506	*7506	*7335	6699	*6772	5359	*5607	4482	*4813	3780	4057	2840	14.09
(14.8 ft)	lb			*16932	*16932	*18308	*18308	*16547	*16547	*16170	14769	*14929	11815	*12362	9881	*10610	8334	8945	6262	(46.0)
3 m	kg			*8812	*8812	*10947	10396	*9037	7568	*8231	6462	*7723	5186	*5961	4372	*4977	3724	3986	2778	14.25
(9.8 ft)	lb			*19426	*19426	*24135	22918	*19923	16686	*18146	14247	*17027	11433	*13141	9638	*10972	8210	8787	6125	(46.6)
1.5 m	kg			*13653	*13653	*12309	10736	*10484	7697	*9154	6247	8095	5056	*6302	4284	*5124	3676	3973	2765	14.26
(4.9 ft)	lb			*30100	*30100	*27137	23668	*23113	16969	*20182	13773	17847	11147	*13893	9445	*11296	8105	8758	6095	(46.6)
Ground	kg			*13435	*13435	*14296	10746	*11663	7843	9901	6089	8012	4980	*6538	4223	*5206	3651	4018	2800	14.1
Line	lb			*29620	*29620	*31517	23691	*25713	17291	21828	13423	17663	10978	*14415	9321	*11477	8048	8858	6172	(46.1)
-1.5 m	kg	*15288	*15288	*13492	*13492	*13918	10555	*12473	7706	9820	6015	7936	4956	*5623	4211	*5185	3661	4127	2888	13.77
(-4.9 ft)	lb	*33703	*33703	*29744	*29744	*30683	23270	*27498	16989	21650	13262	17606	10925	*14602	9283	*11431	8072	9098	6366	(45.0)
-3 m	kg	*14609	*14609	*13479	*13479	*13928	10551	*12202	7702	*9856	6048	8014	4981	*6554	4238			4312	3039	13.29
(-9.8 ft)	lb	*32208	*32208	*29717	*29717	*30707	23260	*26901	16979	21728	13333	17667	10982	*14450	9344			9507	6701	(43.3)
-4.5 m	kg	*15845	*15845	*13438	*13438	*12930	10670	*10456	7807	*9443	6134	8093	5055	*6263	4325			4597	3275	12.56
(-14.8 ft)	lb	*34932	*34932	*29626	*29626	*28506	23523	*23051	17211	*20817	13524	17843	11143	*13808	9535			10135	7219	(41.0)
-6 m	kg	*16382	*16382	*15930	*15930	*12231	10860	*9993	7963	*8455	6269	*7304	5190					4677	3341	12.38
(-19.7 ft)	lb	*36116	*36116	*35120	*35120	*26955	23943	*22031	17555	*18539	13821	*16103	11443					10311	7365	(40.4)
-7.5 m	kg			*15894	*15894	*12121	11163	*9844	8211									4677	3341	12.38
(-25 ft)	lb			*35041	*35041	*26723	24610	*21703	18103									10311	7365	(40.4)

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 the end pin point of front attachment.
4. *indicates load limited by hydraulic capacity.

⚠ Failure to comply to the rated load can cause possible personal injury or property damage. Make adjustments to the rated load as necessory for non-standard configurations.

6. GRAPPLE

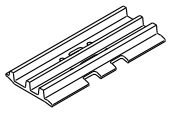
Capacity	Max opening width (A)	Weight	
1.2 m^3 (1.57 yd^3)	2260 mm (7' 5")	1500 kg (3310 lb)	 300E2SP10

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			
						
R380LC-9MH (8.6 m boom 6.05 m arm)	Shoe width		Tilt cab		Elevating cab	
			800	900	800	900
	Operating weight	kg (lb)	43240 (95320)	43680 (96310)	43640 (96210)	44090 (97200)
	Ground pressure	kgf/cm² (psi)	0.58 (8.25)	0.52 (7.39)	0.59 (8.39)	0.53 (7.54)
	Overall width	mm (ft-in)	3540 (11' 7")	3640 (11' 11")	3540 (11' 7")	3640 (11' 11")
R380LC-9MH (6.6 m boom 4.3 m M/arm 3.3 m E/arm)	Shoe width		Tilt cab		Elevating cab	
			800	900	800	900
	Operating weight	kg (lb)	42975 (94740)	43420 (95730)	43380 (95640)	43830 (96620)
	Ground pressure	kgf/cm² (psi)	0.58 (8.25)	0.52 (7.39)	0.58 (8.25)	0.52 (7.39)
	Overall width	mm (ft-in)	3540 (11' 7")	3640 (11' 11")	3540 (11' 7")	3640 (11' 11")

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Carrier rollers	2 EA
Track rollers	9 EA
Track shoes	51 EA

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	HYUNDAI HE 8.9
Type	4-cycle turbocharged charger air cooled diesel engine
Cooling method	Water cooling
Number of cylinders and arrangement	6 cylinders, in-line
Firing order	1-5-3-6-2-4
Combustion chamber type	Direct injection type
Cylinder bore × stroke	114 × 145 mm (4.49" × 5.70")
Piston displacement	8900 cc (540 cu in)
Compression ratio	17.8 : 1
Rated gross horse power (SAE J1995)	296 Hp at 1850 rpm (221 kW at 1850 rpm)
Maximum torque	148 kgf · m (1070 lbf · ft) at 1400 rpm
Engine oil quantity	30 ℓ (7.9 U.S. gal)
Dry weight	740 kg (1630 lb)
Low idling speed	800 ± 100 rpm
High idling speed	1700 + 50 rpm
Rated fuel consumption	164.8 g/Hp · hr at 1850 rpm
Starting motor	Denso (24V-7.5 kW)
Alternator	Delco Remy 24V-90A
Battery	2 × 12V × 160Ah

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 175 cc/rev
Maximum pressure	330 kgf/cm^2 (4690 psi) [360 kgf/cm^2 (5120 psi)]
Rated oil flow	2 × 288 ℓ /min (76.1 U.S. gpm / 63.4 U.K. gpm)
Rated speed	1750 rpm

[ ]: Power boost

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	15cc/rev
Maximum pressure	40 kgf/cm^2 (570 psi)
Rated oil flow	27 ℓ /min (7.1 U.S. gpm/5.9 U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	9 spools
Operating method	Hydraulic pilot system
Main relief valve pressure	330 kgf/cm^2 (4690 psi) [360 kgf/cm^2 (5120 psi)]
Overload relief valve pressure	390 kgf/cm^2 (5550 psi)

[ ]: Power boost

5) SWING MOTOR

Item	Specification
Type	Axial piston motor
Capacity	233 cc/rev
Relief pressure	290 kgf/cm^2 (4120 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	107 kgf · m (773 lbf · ft)
Brake release pressure	30~50 kgf/cm^2 (427~711 psi)
Reduction gear type	2 - stage planetary

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Relief pressure	370 kgf/cm^2 (5260 psi) ★360 kgf/cm^2 (5120 psi)
Capacity (max / min)	185/114 cc/rev
Reduction gear type	3-stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	10.6 kgf/cm^2 (151 psi) ★8.9 kgf/cm^2 (127 psi)
Braking torque	57.1 kgf · m (413 lbf · ft) ★49.0 kgf · m (354 lbf · ft)

★: TRAVEL MOTOR (TYPE 2)

7) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	ø 160 × ø 110 × 1500 mm
	Cushion	Extend only
Arm cylinder (2 pcs attach) Middle arm cylinder (3 pcs attach)	Bore dia × Rod dia × Stroke	ø 170 × ø 120 × 1760 mm
	Cushion	Extend and retract
End arm cylinder	Bore dia × Rod dia × Stroke	ø 150 × ø 105 × 1295 mm
	Cushion	Extend only

※ **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
R380LC-9MH (8.6 m boom 6.05 m arm)	Tilt cab	Standard	800 mm (32")	0.58 kgf/cm^2 (8.25 psi)	51	3540 mm (11' 7")
		Option	900 mm (36")	0.52 kgf/cm^2 (7.39 psi)	51	3640 mm (11' 11")
	Elevating cab	Standard	800 mm (32")	0.59 kgf/cm^2 (8.39 psi)	51	3540 mm (11' 7")
		Option	900 mm (36")	0.53 kgf/cm^2 (7.54 psi)	51	3640 mm (11' 11")
R380LC-9MH (6.6 m boom 4.3 m M/arm 3.3 m E/arm)	Tilt cab	Standard	800 mm (32")	0.58 kgf/cm^2 (8.25 psi)	51	3540 mm (11' 7")
		Option	900 mm (36")	0.52 kgf/cm^2 (7.39 psi)	51	3640 mm (11' 11")
	Elevating cab	Standard	800 mm (32")	0.58 kgf/cm^2 (8.25 psi)	51	3540 mm (11' 7")
		Option	900 mm (36")	0.52 kgf/cm^2 (7.39 psi)	51	3640 mm (11' 11")

9) GRAPPLE

Item	Lifting capacity	Width	
		Max opening width	Overall length
R380LC-9MH	1.2 m^3 (1.57 yd^3)	2260 mm (7' 5")	2560 mm (8' 5")

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 (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	30 (7.9)	★SAE 5W-40 SAE 30 SAE 10W SAE 10W-30 SAE 15W-40
Swing drive	Gear oil	8.0 (2.1)	★SAE 75W-90
Final drive		7.0×2 (1.8×2)	SAE 80W-90
Hydraulic tank	Hydraulic oil	Tank: 210 (55.5) System: 415 (110)	★ISO VG 15 ISO VG 32 ISO VG 46 ISO VG 68
Fuel tank	Diesel fuel	550 (145)	★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	50 (13.2)	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