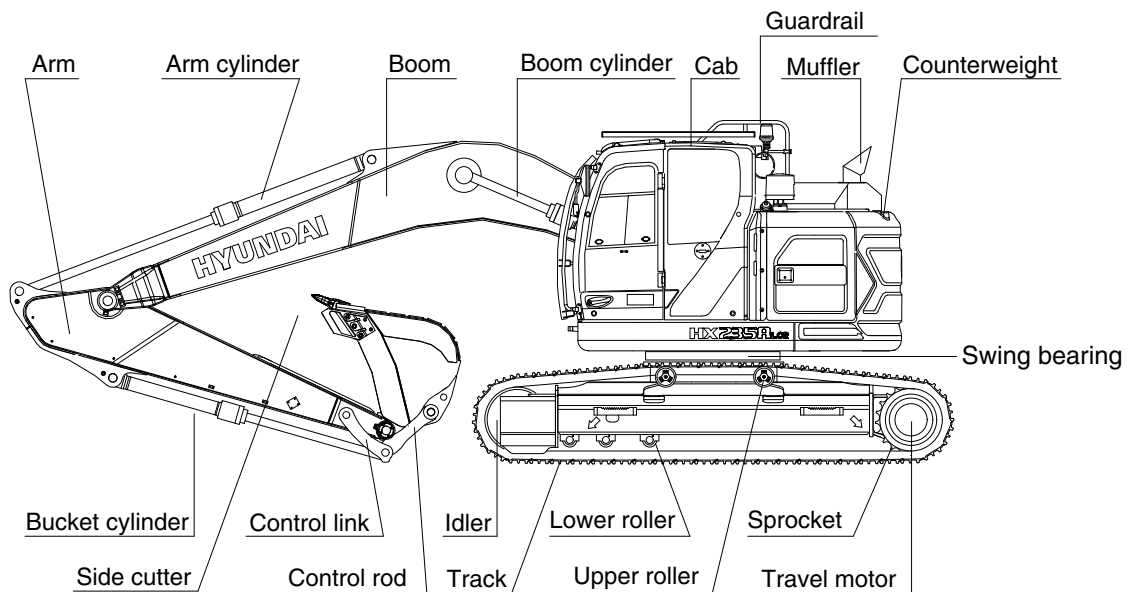
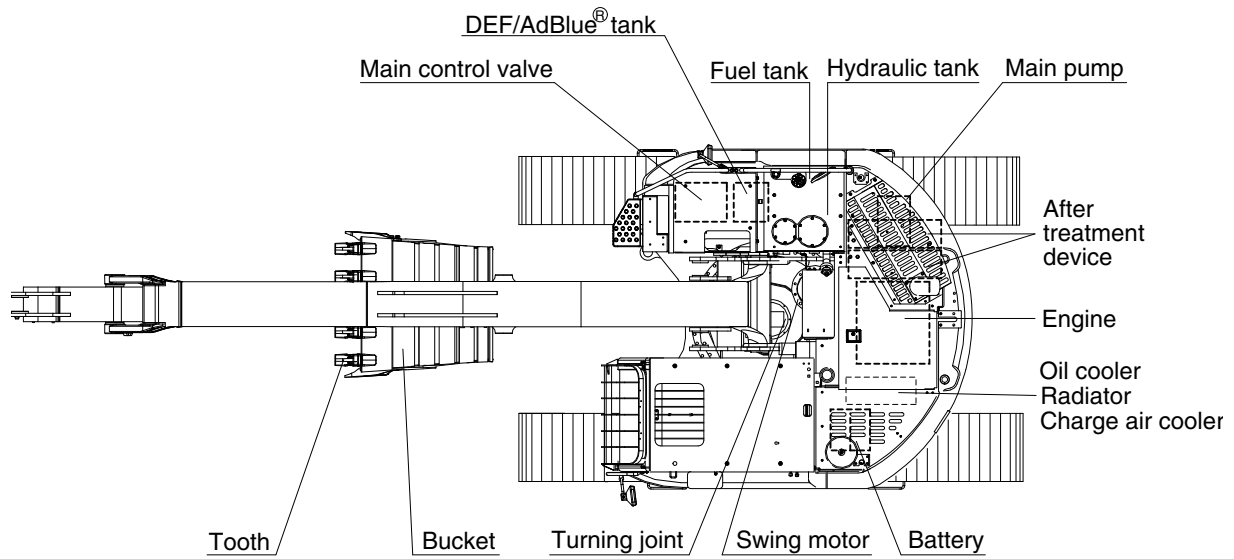


# SPECIFICATIONS

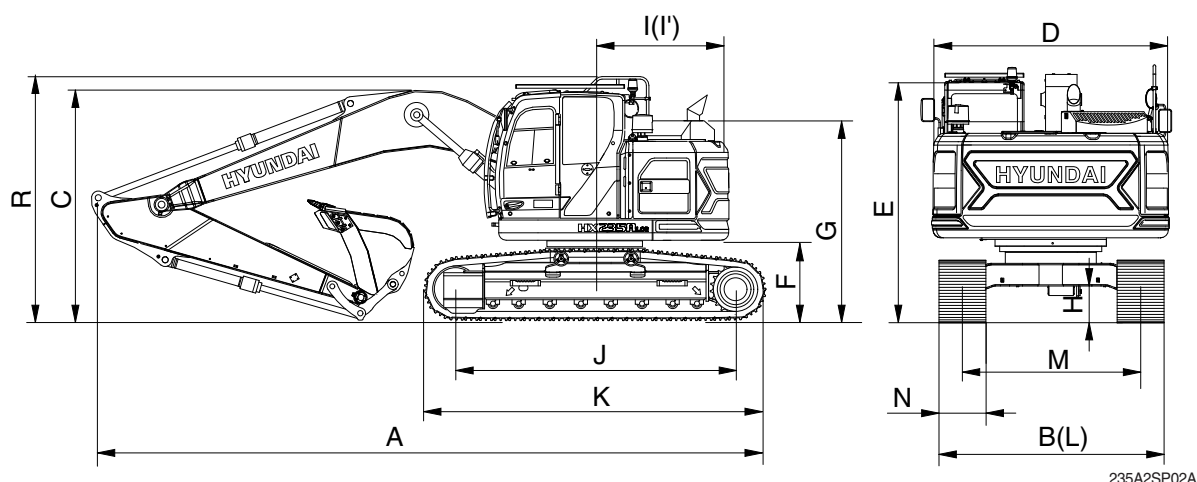
## 1. MAJOR COMPONENT



235A2SP01B

## 2. SPECIFICATIONS

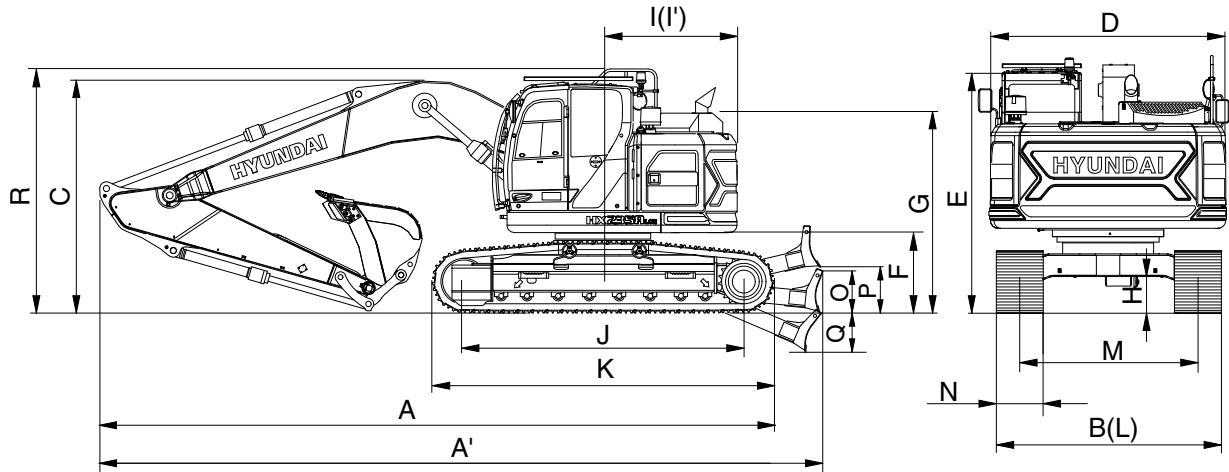
### 1) HX235A LCR MONO BOOM WITHOUT DOZER



235A2SP02A

Description		Unit		Specification		
		m (ft-in)	Boom	5.70 (18' 8")		
			Arm	2.90 (9' 6")	2.00 (6' 7")	2.40 (7' 10")
		mm (in)	Shoe	600 (24)		
Operating weight		kg (lb)		24480 (53970)	24320 (53620)	24390 (53770)
Bucket capacity (SAE heaped) standard		m <sup>3</sup> (yd <sup>3</sup> )		0.92 (1.2)	0.92 (1.2)	0.92 (1.2)
Overall length	A	mm (ft-in)		8910 (29' 3")	8975 (29' 5")	8935 (29' 4")
Overall width	B			2990 (9' 10")	2990 (9' 10")	2990 (9' 10")
Overall height of boom	C			2975 (9' 9")	3135 (10' 3")	3055 (10' 0")
Superstructure width	D			2980 (9' 9")	2980 (9' 9")	2980 (9' 9")
Overall height of cab	E			3035 (9' 11")	3035 (9' 11")	3035 (9' 11")
Ground clearance of counterweight	F			1115 (3' 8")	1115 (3' 8")	1115 (3' 8")
Overall height of engine hood	G			2680 (8' 10")	2680 (8' 10")	2680 (8' 10")
Overall height of guardrail	R			3245 (10' 8")	3245 (10' 8")	3245 (10' 8")
Minimum ground clearance	H			475 (1' 7")	475 (1' 7")	475 (1' 7")
Rear-end distance	I			1780 (5' 10")	1780 (5' 10")	1780 (5' 10")
Rear-end swing radius	I'			1780 (5' 10")	1780 (5' 10")	1780 (5' 10")
Distance between tumblers	J			3650 (12' 0")	3650 (12' 0")	3650 (12' 0")
Undercarriage length	K			4395 (14' 5")	4395 (14' 5")	4395 (14' 5")
Undercarriage width	L			2990 (9' 10")	2990 (9' 10")	2990 (9' 10")
Track gauge	M			2390 (7' 10")	2390 (7' 10")	2390 (7' 10")
Track shoe width standard	N			600 (2' 0")	600 (2' 0")	600 (2' 0")
Travel speed (low/high)		km/hr (mph)		3.5/5.5 (2.2/3.4)	3.5/5.5 (2.2/3.4)	3.5/5.5 (2.2/3.4)
Swing speed		rpm		12.69	12.69	12.69
Gradeability		Degree (%)		35 (70)	35 (70)	35 (70)
Ground pressure		kgf/cm <sup>2</sup> (psi)		0.52 (7.41)	0.52 (7.36)	0.52 (7.38)
Max traction force		kg (lb)		21100 (46517)	21100 (46517)	21100 (46517)

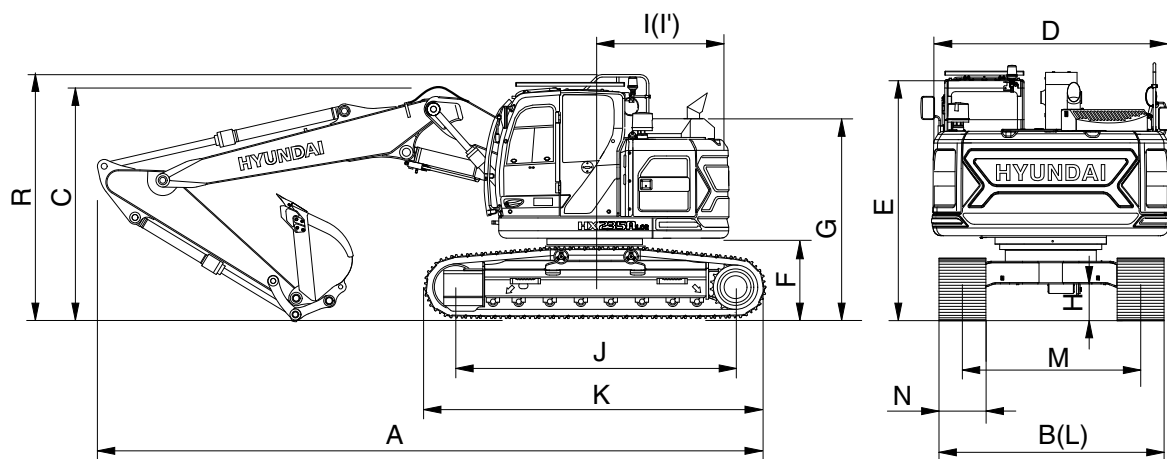
## 2) HX235A LCR MONO BOOM WITH DOZER



235A2SP03A

Description		Unit		Specification		
		m (ft-in)	Boom	5.70 (18' 8")		
			Arm	2.90 (9' 6")	2.00 (6' 7")	2.40 (7' 10")
		mm (in)	Shoe	600 (24)		
Operating weight		kg (lb)		25950 (57210)	25790 (56860)	25860 (57010)
Bucket capacity (SAE heaped) standard		m³ (yd³)		0.92 (1.2)	0.92 (1.2)	0.92 (1.2)
Overall length	A	mm (ft-in)		9855 (32' 4")	9925 (32' 7")	9880 (32' 5")
Overall width	B			2990 (9' 10")	2990 (9' 10")	2990 (9' 10")
Overall height of boom	C			2975 (9' 9")	3135 (10' 3")	3055 (10' 0")
Superstructure width	D			2980 (9' 9")	2980 (9' 9")	2980 (9' 9")
Overall height of cab	E			3035 (9' 11")	3035 (9' 11")	3035 (9' 11")
Ground clearance of counterweight	F			1115 (3' 8")	1115 (3' 8")	1115 (3' 8")
Overall height of engine hood	G			2680 (8' 10")	2680 (8' 10")	2680 (8' 10")
Overall height of guardrail	R			3245 (10' 8")	3245 (10' 8")	3245 (10' 8")
Minimum ground clearance	H			420 (1' 5")	420 (1' 5")	420 (1' 5")
Rear-end distance	I			1780 (5' 10")	1780 (5' 10")	1780 (5' 10")
Rear-end swing radius	I'			1780 (5' 10")	1780 (5' 10")	1780 (5' 10")
Distance between tumblers	J			3650 (12' 0")	3650 (12' 0")	3650 (12' 0")
Undercarriage length	K			4395 (14' 5")	4395 (14' 5")	4395 (14' 5")
Undercarriage width	L			2990 (9' 10")	2990 (9' 10")	2990 (9' 10")
Track gauge	M			2390 (7' 10")	2390 (7' 10")	2390 (7' 10")
Track shoe width standard	N			600 (2' 0")	600 (2' 0")	600 (2' 0")
Height of blade	O			690 (2' 3")	690 (2' 3")	690 (2' 3")
Ground clearance of blade up	P			545 (1' 9")	545 (1' 9")	545 (1' 9")
Depth of blade down	Q			413 (1' 4")	413 (1' 4")	413 (1' 4")
Travel speed (low/high)		km/hr (mph)		3.5/5.5 (2.2/3.4)	3.5/5.5 (2.2/3.4)	3.5/5.5 (2.2/3.4)
Swing speed		rpm		12.69	12.69	12.69
Gradeability		Degree (%)		35 (70)	35 (70)	35 (70)
Ground pressure		kgf/cm² (psi)		0.55 (7.86)	0.55 (7.81)	0.55 (7.83)
Max traction force		kg (lb)		21100 (46517)	21100 (46517)	21100 (46517)

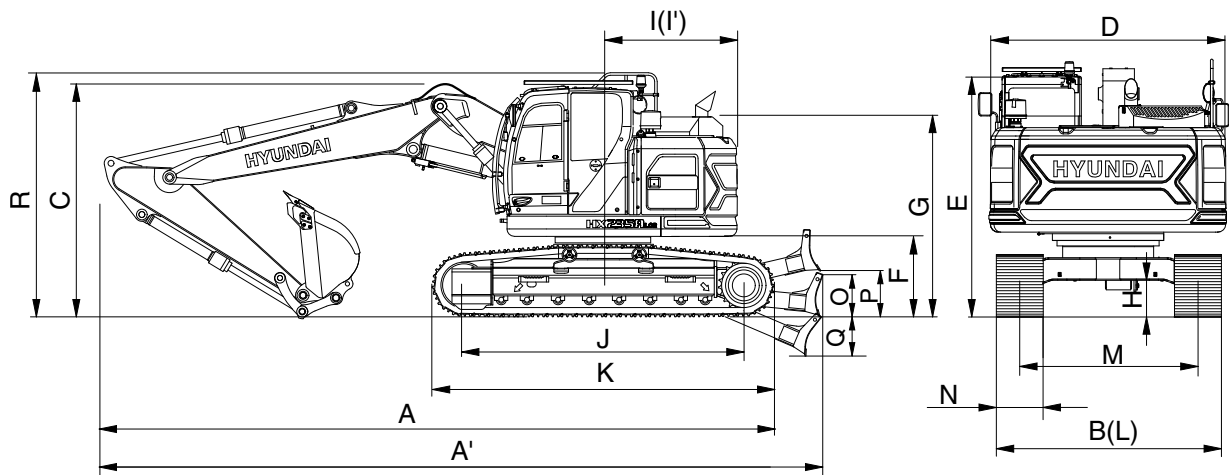
### 3) HX235A LCR 2 PCS WITHOUT DOZER



235A2SP04A

Description		Unit		Specification		
		m (ft-in)	Boom	5.87 (19' 3")		
			Arm	2.90 (9' 6")	2.00 (6' 7")	2.40 (7' 10")
		mm (in)	Shoe	600 (24)		
Operating weight		kg (lb)		25240 (55640)	25080 (55290)	25140 (55420)
Bucket capacity (SAE heaped) standard		m³ (yd³)		0.92 (1.2)	0.92 (1.2)	0.92 (1.2)
Overall length	A	mm (ft-in)		9080 (29' 9")	9115 (29' 11")	9090 (29' 10")
Overall width	B			2990 (9' 10")	2990 (9' 10")	2990 (9' 10")
Overall height of boom	C			3000 (9' 10")	3005 (9' 10")	2995 (9' 10")
Superstructure width	D			2980 (9' 9")	2980 (9' 9")	2980 (9' 9")
Overall height of cab	E			3035 (9' 11")	3035 (9' 11")	3035 (9' 11")
Ground clearance of counterweight	F			1115 (3' 8")	1115 (3' 8")	1115 (3' 8")
Overall height of engine hood	G			2680 (8' 10")	2680 (8' 10")	2680 (8' 10")
Overall height of guardrail	R			3245 (10' 8")	3245 (10' 8")	3245 (10' 8")
Minimum ground clearance	H			420 (1' 5")	420 (1' 5")	420 (1' 5")
Rear-end distance	I			1780 (5' 10")	1780 (5' 10")	1780 (5' 10")
Rear-end swing radius	I'			1780 (5' 10")	1780 (5' 10")	1780 (5' 10")
Distance between tumblers	J			3650 (12' 0")	3650 (12' 0")	3650 (12' 0")
Undercarriage length	K			4395 (14' 5")	4395 (14' 5")	4395 (14' 5")
Undercarriage width	L			2990 (9' 10")	2990 (9' 10")	2990 (9' 10")
Track gauge	M			2390 (7' 10")	2390 (7' 10")	2390 (7' 10")
Track shoe width standard	N			600 (2' 0")	600 (2' 0")	600 (2' 0")
Travel speed (low/high)		km/hr (mph)		3.5/5.5 (2.2/3.4)	3.5/5.5 (2.2/3.4)	3.5/5.5 (2.2/3.4)
Swing speed		rpm		12.69	12.69	12.69
Gradeability		Degree (%)		35 (70)	35 (70)	35 (70)
Ground pressure		kgf/cm² (psi)		0.54 (7.64)	0.53 (7.59)	0.54 (7.61)
Max traction force		kg (lb)		21100 (46517)	21100 (46517)	21100 (46517)

#### 4) HX235A LCR 2 PCS WITH DOZER

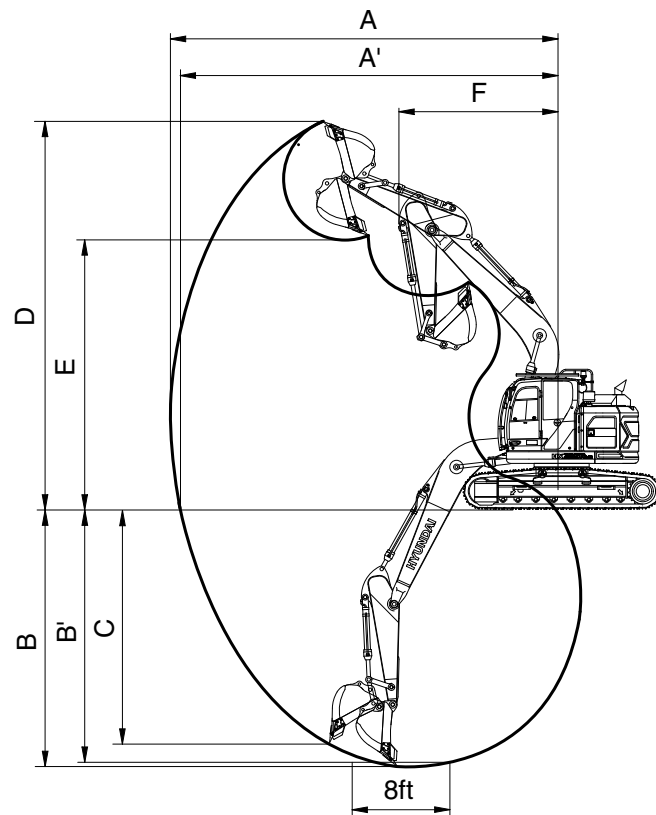


235A2SP05A

Description	Unit		Specification		
	m (ft-in)	Boom	5.87 (19' 3")		
		Arm	2.90 (9' 6")	2.00 (6' 7")	2.40 (7' 10")
	mm (in)	Shoe	600 (24)		
Operating weight	kg (lb)		26700 (58860)	26530 (58490)	26600 (58640)
Bucket capacity (SAE heaped) standard	m <sup>3</sup> (yd <sup>3</sup> )		0.92 (1.2)	0.92 (1.2)	0.92 (1.2)
Overall length	A	mm (ft-in)	10025 (32' 11")	10065 (33' 0")	10035 (32' 11")
Overall width	B		2990 (9' 10")	2990 (9' 10")	2990 (9' 10")
Overall height of boom	C		3000 (9' 10")	3005 (9' 10")	2995 (9' 10")
Superstructure width	D		2980 (9' 9")	2980 (9' 9")	2980 (9' 9")
Overall height of cab	E		3035 (9' 11")	3035 (9' 11")	3035 (9' 11")
Ground clearance of counterweight	F		1115 (3' 8")	1115 (3' 8")	1115 (3' 8")
Overall height of engine hood	G		2680 (8' 10")	2680 (8' 10")	2680 (8' 10")
Overall height of guardrail	R		3245 (10' 8")	3245 (10' 8")	3245 (10' 8")
Minimum ground clearance	H		420 (1' 5")	420 (1' 5")	420 (1' 5")
Rear-end distance	I		1780 (5' 10")	1780 (5' 10")	1780 (5' 10")
Rear-end swing radius	I'		1780 (5' 10")	1780 (5' 10")	1780 (5' 10")
Distance between tumblers	J		3650 (12' 0")	3650 (12' 0")	3650 (12' 0")
Undercarriage length	K		4395 (14' 5")	4395 (14' 5")	4395 (14' 5")
Undercarriage width	L		2990 (9' 10")	2990 (9' 10")	2990 (9' 10")
Track gauge	M		2390 (7' 10")	2390 (7' 10")	2390 (7' 10")
Track shoe width standard	N		600 (2' 0")	600 (2' 0")	600 (2' 0")
Height of blade	O		690 (2' 3")	690 (2' 3")	690 (2' 3")
Ground clearance of blade up	P		545 (1' 9")	545 (1' 9")	545 (1' 9")
Depth of blade down	Q		360 (1' 2")	360 (1' 2")	360 (1' 2")
Travel speed (low/high)	km/hr (mph)		3.5/5.5 (2.2/3.4)	3.5/5.5 (2.2/3.4)	3.5/5.5 (2.2/3.4)
Swing speed	rpm		12.69	12.69	12.69
Gradeability	Degree (%)		35 (70)	35 (70)	35 (70)
Ground pressure	kgf/cm <sup>2</sup> (psi)		0.57 (8.08)	0.56 (8.03)	0.57 (8.05)
Max traction force	kg (lb)		21100 (46517)	21100 (46517)	21100 (46517)

### 3. WORKING RANGE AND DIGGING FORCE

#### 1) HX235A LCR MONO BOOM

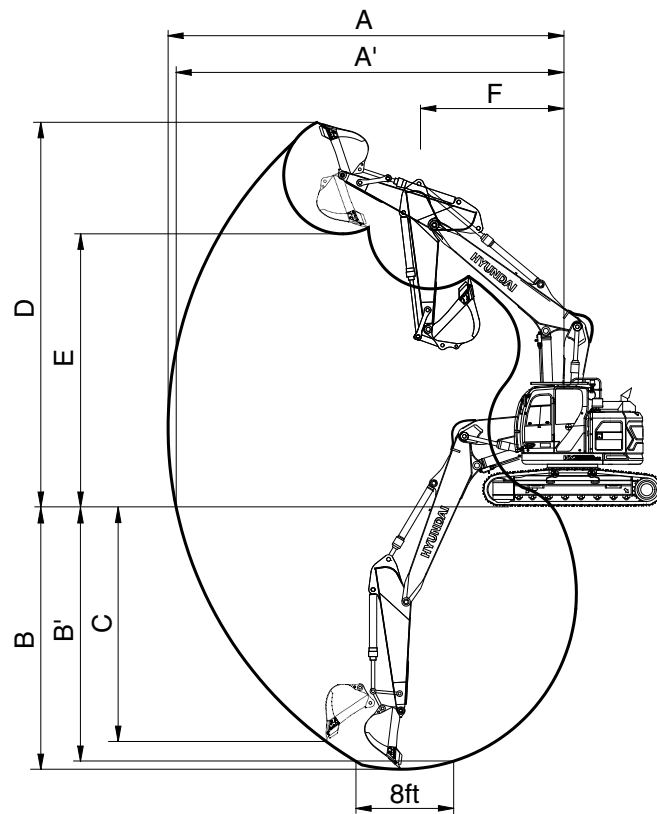


235A2SP06A

Description	m (ft-in)	Boom	5.70 (18' 8")		
		Arm	2.90 (9' 6")	2.00 (6' 7")	2.40 (7' 10")
Max digging reach	mm (ft-in)	A	9880 (32' 5")	9070 (29' 9")	9455 (31' 0")
Max digging reach on ground		A'	9710 (31' 10")	8890 (29' 2")	9280 (30' 5")
Max digging depth		B	6380 (20' 11")	5480 (18' 0")	5880 (19' 3")
Max digging depth (8 ft level)		B'	6210 (20' 4")	5255 (17' 3")	5680 (18' 8")
Max vertical wall digging depth		C	5840 (19' 2")	4950 (16' 3")	5320 (17' 5")
Max digging height		D	10940 (35' 11")	10345 (33' 11")	10670 (35' 0")
Max dumping height		E	8045 (26' 5")	7440 (24' 5")	7760 (25' 6")
Min swing radius		F	2290 (7' 6")	2750 (9' 0")	2480 (8' 2")
Bucket digging force	kN	SAE	130.4 [141.6]	130.4 [141.6]	130.4 [141.6]
	kgf		13300 [14440]	13300 [14440]	13300 [14440]
	lbf		29320 [31830]	29320 [31830]	29320 [31830]
	kN	ISO	152.3 [165.3]	152.3 [165.3]	152.3 [165.3]
	kgf		15530 [16860]	15530 [16860]	15530 [16860]
	lbf		34240 [37170]	34240 [37170]	34240 [37170]
Arm digging force	kN	SAE	102.8 [111.6]	144.3 [156.6]	119.3 [129.4]
	kgf		10480 [11380]	14710 [15970]	12160 [13200]
	lbf		23100 [25090]	32430 [35210]	26810 [29100]
	kN	ISO	106.9 [116.0]	152.0 [165.0]	124.7 [135.4]
	kgf		10900 [11830]	15500 [16830]	12720 [13810]
	lbf		24030 [26080]	34170 [37100]	28040 [30450]

[ ] : Power boost

## 2) HX235A LCR 2-PIECE BOOM



235A2SP07A

Description	m (ft-in)	Boom	5.87 (19' 3")		
		Arm	2.90 (9' 6")	2.00 (6' 7")	2.40 (7' 10")
Max digging reach	mm (ft-in)	A	10215 (33' 6")	9310 (30' 7")	9705 (31' 10")
Max digging reach on ground		A'	10055 (33' 0")	9135 (30' 0")	9535 (31' 3")
Max digging depth		B	6410 (21' 0")	5490 (18' 0")	5895 (19' 4")
Max digging depth (8 ft level)		B'	6305 (20' 8")	5370 (17' 7")	5780 (19' 0")
Max vertical wall digging depth		C	4160 (13' 8")	3305 (10' 10")	3585 (11' 9")
Max digging height		D	11430 (37' 6")	10855 (35' 7")	11225 (36' 10")
Max dumping height		E	8500 (27' 11")	7930 (26' 0")	8300 (27' 3")
Min swing radius		F	2610 (8' 7")	2425 (7' 11")	2330 (7' 8")
Bucket digging force	kN	SAE	130.4 [141.6]	130.4 [141.6]	130.4 [141.6]
	kgf		13300 [14440]	13300 [14440]	13300 [14440]
	lbf		29320 [31830]	29320 [31830]	29320 [31830]
	kN	ISO	152.3 [165.3]	152.3 [165.3]	152.3 [165.3]
	kgf		15530 [16860]	15530 [16860]	15530 [16860]
	lbf		34240 [37170]	34240 [37170]	34240 [37170]
Arm digging force	kN	SAE	102.8 [111.6]	144.3 [156.6]	119.3 [129.4]
	kgf		10480 [11380]	14710 [15970]	12160 [13200]
	lbf		23100 [25090]	32430 [35210]	26810 [29100]
	kN	ISO	106.9 [116.0]	152.0 [165.0]	124.7 [135.4]
	kgf		10900 [11830]	15500 [16830]	12720 [13810]
	lbf		24030 [26080]	34170 [37100]	28040 [30450]

[ ] : Power boost



## 4. WEIGHT

Item	HX235A LCR	
	kg	lb
Upperstructure assembly		
· Main frame weld assembly	2060	4540
· Engine assembly	580	1280
· Aftertreatment assy	70	150
· Main pump assembly	140	310
· Main control valve assembly	230	510
· Swing motor assembly	180	400
· Fuel&HYD Tank Assy	430	950
· Counterweight	5300	11680
· Cab assembly	480	1060
Lower chassis assembly		
· Track frame weld assembly	2590	5710
· Swing bearing	441	970
· Travel motor assembly (2EA)	610	1340
· Turning joint	60	130
· Sprocket (2EA)	112	250
· Track recoil spring (2EA)	283	620
· Idler (2EA)	308	680
· Upper roller (4EA)	82	180
· Lower roller (16EA)	675	1490
· Dozer blade (600mm T/C base)	930	2050
· Track-chain assembly (600 mm triple grouser shoe) (2EA)	2894	5980
· Track-chain assembly (700 mm triple grouser shoe) (2EA)	3178	7020
· Track-chain assembly (800 mm triple grouser shoe) (2EA)	3460	7650
Front attachment assembly		
· 5.70 m boom assembly	1530	3370
· 2.90 m arm assembly	760	1680
· 0.80 m³ SAE heaped bucket	820	1810
· 4.70 m boom assembly	1400	3090
· 2pc boom assembly	1920	4230
· 2.00 m arm assembly	600	1320
· 2.40 m arm assembly	670	1480
· Boom cylinder assembly (2EA)	400	880
· Arm cylinder assembly	270	600
· Bucket cylinder assembly	160	350
· Bucket control linkage total	200	440

※ This information is different with operating and transportation weight because it is not including harness pipe oil fuel so on.


※ Refer to Transportation for actual weight information and Specifications for operating weight.

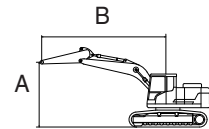














## 5. LIFTING CAPACITIES

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX235A LCR	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2900	5300	600	-	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg lb											*5230 *11530	*5230 *11530	4.25 (13.9)
7.5 m (24.6 ft)	kg lb					*5260 *11600	*5260 *11600	*4810 *10600	*4810 *10600			*4320 *9520	*4320 *9520	6.15 (20.2)
6.0 m (19.7 ft)	kg lb					*5520 *12170	*5520 *12170	*5070 *11180	*5070 *11180			*4020 *8860	3680 8110	7.27 (23.9)
4.5 m (14.8 ft)	kg lb			*8640 *19050	*8640 *19050	*6490 *14310	*6490 *14310	*5470 *12060	4950 10910	*4910 *10820	3460 7630	*3950 *8710	3120 6880	7.96 (26.1)
3.0 m (9.8 ft)	kg lb					*7870 *17350	7220 15920	*6070 *13380	4710 10380	*5130 *11310	3350 7390	*4050 *8930	2840 6260	8.32 (27.3)
1.5 m (4.9 ft)	kg lb					*9010 *19860	6700 14770	*6630 *14620	4460 9830	5290 11660	3240 7140	*4310 *9500	2730 6020	8.41 (27.6)
0.0 m (0.0 ft)	kg lb			*5310 *11710	*5310 *11710	*9370 *20660	6420 14150	*6880 *15170	4290 9460	5190 11440	3150 6940	*4560 *10050	2770 6110	8.21 (26.9)
-1.5 m (-4.9 ft)	kg lb	*5710 *12590	*5710 *12590	*9760 *21520	*9760 *21520	*8950 *19730	6340 13980	*6670 *14700	4210 9280	*5040 *11110	3120 6880	*4780 *10540	3010 6640	7.73 (25.4)
-3.0 m (-9.8 ft)	kg lb			*10420 *22970	*10420 *22970	*7780 *17150	6400 14110	*5790 *12760	4250 9370			*4630 *10210	3560 7850	6.89 (22.6)
-4.5 m (-14.8 ft)	kg lb			*7190 *15850	*7190 *15850	*5470 *12060	*5470 *12060					*4060 *8950	*4060 *8950	5.52 (18.1)

Note 1. Lifting capacity are based on ISO 10567.

2. Lifting capacity of the HX 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.

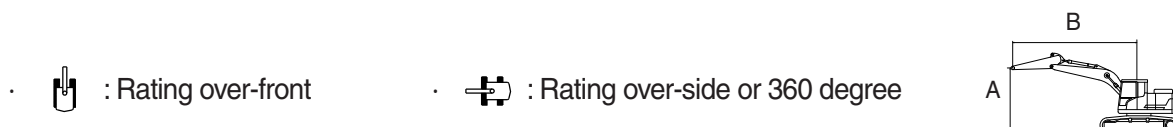
Lifting capacities will vary with different work tools ground conditions and attachments.











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

Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

▲ Failure to comply to the rated load can cause serious injury death or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235A LCR	MONO	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
	BOOM	5700	2000	5300	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)								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)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb			*6470 *14260	*6470 *14260					*6420 *14150	*6420 *14150	4.98 (16.3)
6.0 m (19.7 ft)	kg lb	*8080 *17810	*8080 *17810	*6570 *14480	*6570 *14480	*5880 *12960	4990 11000			*5830 *12850	4570 10080	6.32 (20.7)
4.5 m (14.8 ft)	kg lb			*7520 *16580	*7520 *16580	*6120 *13490	4870 10740			*5610 *12370	3730 8220	7.10 (23.3)
3.0 m (9.8 ft)	kg lb			*8790 *19380	7020 15480	*6610 *14570	4660 10270	5410 11930	3360 7410	5390 11880	3350 7390	7.51 (24.6)
1.5 m (4.9 ft)	kg lb					*6980 *15390	4470 9850	5330 11750	3280 7230	5220 11510	3220 7100	7.60 (24.9)
0.0 m (0.0 ft)	kg lb			*9310 *20530	6490 14310	*6970 *15370	4360 9610			5400 11900	3310 7300	7.39 (24.2)
-1.5 m (-4.9 ft)	kg lb			*8420 *18560	6510 14350	*6390 *14090	4350 9590			*5260 *11600	3680 8110	6.84 (22.5)
-3.0 m (-9.8 ft)	kg lb	*8160 *17990	*8160 *17990	*6710 *14790	6650 14660					*4810 *10600	4610 10160	5.87 (19.3)
-4.5 m (-14.8 ft)	kg lb											

Note 1. Lifting capacity are based on ISO 10567.

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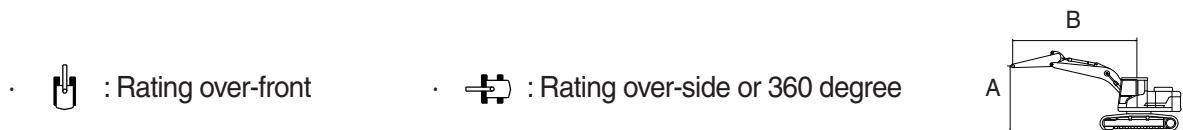
Lifting capacities will vary with different work tools ground conditions and attachments.











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

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▲ Failure to comply to the rated load can cause serious injury death or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX235A LCR	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2400	5300	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)								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)		Capacity		Reach
												m (ft)
9.0 m (29.5 ft)	kg lb	*7630 *16820	*7630 *16820							*7480 *16490	*7480 *16490	3.32 (10.9)
7.5 m (24.6 ft)	kg lb			*5900 *13010	*5900 *13010					*5810 *12810	5690 12540	5.55 (18.2)
6.0 m (19.7 ft)	kg lb			*6100 *13450	*6100 *13450	*5500 *12130	5040 11110			*5390 *11880	4100 9040	6.78 (22.2)
4.5 m (14.8 ft)	kg lb	*9960 *21960	*9960 *21960	*7070 *15590	*7070 *15590	*5830 *12850	4900 10800	*5230 *11530	3420 7540	*5230 *11530	3410 7520	7.51 (24.7)
3.0 m (9.8 ft)	kg lb			*8400 *18520	7090 15630	*6380 *14070	4670 10300	*5350 *11790	3350 7390	4980 10980	3090 6810	7.90 (25.9)
1.5 m (4.9 ft)	kg lb			*9320 *20550	6650 14660	*6830 *15060	4460 9830	5300 11680	3250 7170	4830 10650	2970 6550	7.99 (26.2)
0.0 m (0.0 ft)	kg lb			*9380 *20680	6450 14220	*6950 *15320	4320 9520	5230 11530	3190 7030	4970 10960	3040 6700	7.78 (25.5)
-1.5 m (-4.9 ft)	kg lb	*9680 *21340	*9680 *21340	*8690 *19160	6420 14150	*6540 *14420	4280 9440			*5000 *11020	3330 7340	7.27 (23.8)
-3.0 m (-9.8 ft)	kg lb	*9230 *20350	*9230 *20350	*7230 *15940	6530 14400	*5280 *11640	4360 9610			*4690 *10340	4050 8930	6.37 (20.9)

Note 1. Lifting capacity are based on ISO 10567.

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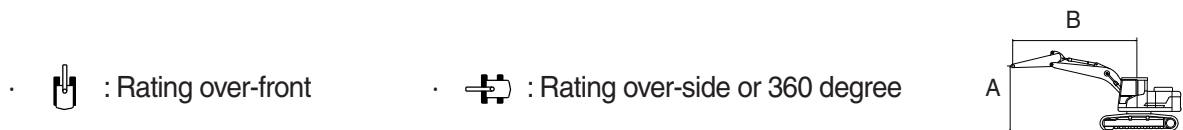
Lifting capacities will vary with different work tools ground conditions and attachments.











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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX235A LCR	2 PCS BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5874	2000	5300	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)								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)		Capacity		Reach
												m (ft)
9.0 m (29.5 ft)	kg lb									*11520 *25400	*11520 *25400	2.95 (9.7)
7.5 m (24.6 ft)	kg lb	*9560 *21080	*9560 *21080	*8000 *17640	*8000 *17640					*7300 *16090	6170 13600	5.34 (17.5)
6.0 m (19.7 ft)	kg lb	*8930 *19690	*8930 *19690	*8160 *17990	*8160 *17990	*6610 *14570	5120 11290			*6190 *13650	4320 9520	6.61 (21.7)
4.5 m (14.8 ft)	kg lb			*8800 *19400	7680 16930	*6760 *14900	4950 10910			*5580 *12300	3560 7850	7.36 (24.1)
3.0 m (9.8 ft)	kg lb					*6900 *15210	4700 10360	*5390 *11880	3380 7450	*5120 *11290	3210 7080	7.75 (25.4)
1.5 m (4.9 ft)	kg lb					*6740 *14860	4480 9880	*5100 *11240	3290 7250	*4670 *10300	3090 6810	7.84 (25.7)
0.0 m (0.0 ft)	kg lb					*6070 *13380	4360 9610	*4340 *9570	3250 7170	*4110 *9060	3180 7010	7.63 (25.0)
-1.5 m (-4.9 ft)	kg lb			*5760 *12700	*5760 *12700	*4720 *10410	4360 9610			*3280 *7230	*3280 *7230	7.11 (23.3)
-3.0 m (-9.8 ft)	kg lb	*9230 *20350	*9230 *20350	*7230 *15940	6530 14400	*5280 *11640	4360 9610			*4690 *10340	4050 8930	6.37 (20.9)

Note 1. Lifting capacity are based on ISO 10567.

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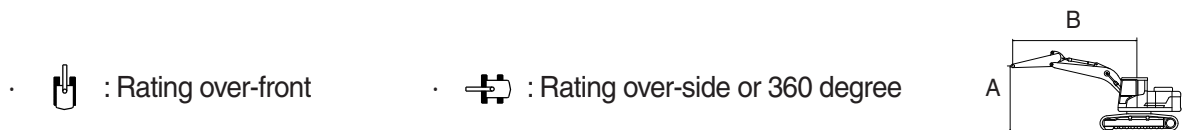
Lifting capacities will vary with different work tools ground conditions and attachments.











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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX235A LCR	2 PCS BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5874	2400	5300	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)								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)		Capacity		Reach
												m (ft)
9.0 m (29.5 ft)	kg lb	*9060 *19970	*9060 *19970							*7510 *16560	*7510 *16560	3.89 (12.8)
7.5 m (24.6 ft)	kg lb			*7610 *16780	*7610 *16780					*5850 *12900	5270 11620	5.91 (19.4)
6.0 m (19.7 ft)	kg lb	*6750 *14880	*6750 *14880	*7820 *17240	*7820 *17240	*6260 *13800	5180 11420			*5300 *11680	3880 8550	7.07 (23.2)
4.5 m (14.8 ft)	kg lb			*8510 *18760	7800 17200	*6590 *14530	4990 11000	*5270 *11620	3480 7670	*5110 *11270	3250 7170	7.78 (25.5)
3.0 m (9.8 ft)	kg lb			*9190 *20260	7130 15720	*6810 *15010	4720 10410	*5380 *11860	3380 7450	*4790 *10560	2950 6500	8.15 (26.7)
1.5 m (4.9 ft)	kg lb			*9110 *20080	6630 14620	*6760 *14900	4470 9850	*5190 *11440	3260 7190	*4390 *9680	2850 6280	8.23 (27.0)
0.0 m (0.0 ft)	kg lb			*8070 *17790	6440 14200	*6230 *13730	4320 9520	*4640 *10230	3190 7030	*3910 *8620	2920 6440	8.04 (26.4)
-1.5 m (-4.9 ft)	kg lb			*6370 *14040	*6370 *14040	*5090 *11220	4290 9460	*3300 *7280	3220 7100	*3200 *7050	3200 7050	7.54 (24.7)
-3.0 m (-9.8 ft)	kg lb					*3030 *6680	*3030 *6680					

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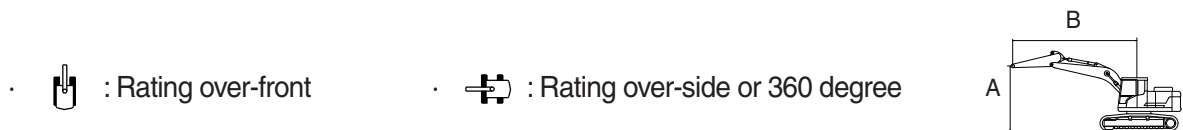
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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX235A LCR	2 PCS BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5874	2900	5300	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)								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)		Capacity		Reach
												m (ft)
9.0 m (29.5 ft)	kg lb			*5790 *12760	*5790 *12760					*5040 *11110	*5040 *11110	4.76 (15.6)
7.5 m (24.6 ft)	kg lb			*6180 *13620	*6180 *13620	*5610 *12370	5300 11680			*4190 *9240	*4190 *9240	6.51 (21.4)
6.0 m (19.7 ft)	kg lb			*6210 *13690	*6210 *13690	*5880 *12960	5270 11620	*4300 *9480	3560 7850	*3860 *8510	3480 7670	7.58 (24.9)
4.5 m (14.8 ft)	kg lb	*10100 *22270	*10100 *22270	*8110 *17880	7980 17590	*6280 *13850	5060 11160	*4980 *10980	3520 7760	*3760 *8290	2970 6550	8.24 (27.0)
3.0 m (9.8 ft)	kg lb			*8930 *19690	7290 16070	*6660 *14680	4760 10490	*5210 *11490	3390 7470	*3810 *8400	2710 5970	8.60 (28.2)
1.5 m (4.9 ft)	kg lb			*9170 *20220	6700 14770	*6750 *14880	4480 9880	*5240 *11550	3250 7170	*3990 *8800	2610 5750	8.67 (28.5)
0.0 m (0.0 ft)	kg lb			*8490 *18720	6410 14130	*6400 *14110	4290 9460	*4850 *10690	3150 6940	*3770 *8310	2660 5860	8.49 (27.9)
-1.5 m (-4.9 ft)	kg lb	*7840 *17280	*7840 *17280	*7030 *15500	6340 13980	*5470 *12060	4210 9280	*3950 *8710	3120 6880	*3210 *7080	2870 6330	8.02 (26.3)
-3.0 m (-9.8 ft)	kg lb			*4860 *10710	*4860 *10710	*3800 *8380	*3800 *8380			*2310 *5090	*2310 *5090	7.21 (23.7)

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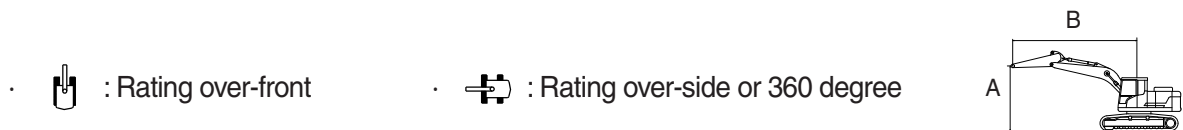
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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX235A LCR	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2000	5300	600	-	Down	-	-	-



Lift-point height (A)		Lift-point radius (B)								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)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb			*6470 *14260	*6470 *14260					*6420 *14150	*6420 *14150	4.98 (16.3)
6.0 m (19.7 ft)	kg lb	*8080 *17810	*8080 *17810	*6570 *14480	*6570 *14480	*5880 *12960	5620 12390			*5830 *12850	5150 11350	6.32 (20.7)
4.5 m (14.8 ft)	kg lb			*7520 *16580	*7520 *16580	*6120 *13490	5500 12130			*5610 *12370	4220 9300	7.10 (23.3)
3.0 m (9.8 ft)	kg lb			*8790 *19380	7980 17590	*6610 *14570	5280 11640	*5520 *12170	3810 8400	*5520 *12170	3800 8380	7.51 (24.6)
1.5 m (4.9 ft)	kg lb					*6980 *15390	5090 11220	*5560 *12260	3740 8250	*5470 *12060	3670 8090	7.60 (24.9)
0.0 m (0.0 ft)	kg lb			*9310 *20530	7440 16400	*6970 *15370	4970 10960			*5410 *11930	3770 8310	7.39 (24.2)
-1.5 m (-4.9 ft)	kg lb			*8420 *18560	7460 16450	*6390 *14090	4960 10930			*5260 *11600	4190 9240	6.84 (22.5)
-3.0 m (-9.8 ft)	kg lb	*8160 *17990	*8160 *17990	*6710 *14790	*6710 *14790					*4810 *10600	*4810 *10600	5.87 (19.3)

Note 1. Lifting capacity are based on ISO 10567.

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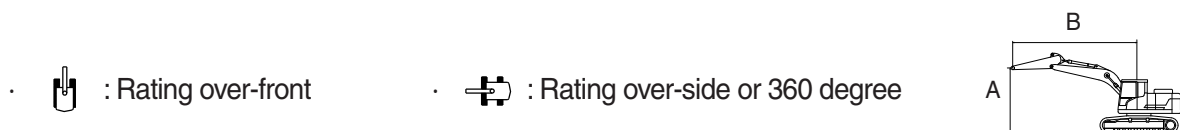
The difference between the weight of a work tool attachment must be subtracted.











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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX235A LCR	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2000	5300	600	-	Up	-	-	-



Lift-point height (A)		Lift-point radius (B)								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)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb			*6470 *14260	*6470 *14260					*6420 *14150	*6420 *14150	4.98 (16.3)
6.0 m (19.7 ft)	kg lb	*8080 *17810	*8080 *17810	*6570 *14480	*6570 *14480	*5880 *12960	5290 11660			*5830 *12850	4850 10690	6.32 (20.7)
4.5 m (14.8 ft)	kg lb			*7520 *16580	*7520 *16580	*6120 *13490	5170 11400			*5610 *12370	3970 8750	7.10 (23.3)
3.0 m (9.8 ft)	kg lb			*8790 *19380	7460 16450	*6610 *14570	4960 10930	5410 11930	3580 7890	5390 11880	3580 7890	7.51 (24.6)
1.5 m (4.9 ft)	kg lb					*6980 *15390	4770 10520	5330 11750	3510 7740	5220 11510	3450 7610	7.60 (24.9)
0.0 m (0.0 ft)	kg lb			*9310 *20530	6930 15280	*6970 *15370	4660 10270			5400 11900	3540 7800	7.39 (24.2)
-1.5 m (-4.9 ft)	kg lb			*8420 *18560	6950 15320	*6390 *14090	4650 10250			*5260 *11600	3930 8660	6.84 (22.5)
-3.0 m (-9.8 ft)	kg lb	*8160 *17990	*8160 *17990	*6710 *14790	*6710 *14790					*4810 *10600	*4810 *10600	5.87 (19.3)

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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX235A LCR	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2400	5300	600	-	Down	-	-	-



Lift-point height (A)		Lift-point radius (B)								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)		Capacity		Reach
												m (ft)
9.0 m (29.5 ft)	kg lb	*7630 *16820	*7630 *16820							*7480 *16490	*7480 *16490	3.32 (10.9)
7.5 m (24.6 ft)	kg lb			*5900 *13010	*5900 *13010					*5810 *12810	*5810 *12810	5.55 (18.2)
6.0 m (19.7 ft)	kg lb			*6100 *13450	*6100 *13450	*5500 *12130	*5500 *12130			*5390 *11880	4620 10190	6.78 (22.2)
4.5 m (14.8 ft)	kg lb	*9960 *21960	*9960 *21960	*7070 *15590	*7070 *15590	*5830 *12850	5520 12170	*5230 *11530	3880 8550	*5230 *11530	3870 8530	7.51 (24.7)
3.0 m (9.8 ft)	kg lb			*8400 *18520	8060 17770	*6380 *14070	5290 11660	*5350 *11790	3810 8400	*5160 *11380	3510 7740	7.90 (25.9)
1.5 m (4.9 ft)	kg lb			*9320 *20550	7600 16760	*6830 *15060	5070 11180	*5480 *12080	3710 8180	*5130 *11310	3390 7470	7.99 (26.2)
0.0 m (0.0 ft)	kg lb			*9380 *20680	7400 16310	*6950 *15320	4930 10870	*5390 *11880	3650 8050	*5100 *11240	3470 7650	7.78 (25.5)
-1.5 m (-4.9 ft)	kg lb	*9680 *21340	*9680 *21340	*8690 *19160	7370 16250	*6540 *14420	4890 10780			*5000 *11020	3810 8400	7.27 (23.8)
-3.0 m (-9.8 ft)	kg lb	*9230 *20350	*9230 *20350	*7230 *15940	*7230 *15940	*5280 *11640	4980 10980			*4690 *10340	4620 10190	6.37 (20.9)
-4.5 m (-14.8 ft)	kg lb			*5130 *11310	*5130 *11310					*4560 *10050	*4560 *10050	4.81 (15.8)

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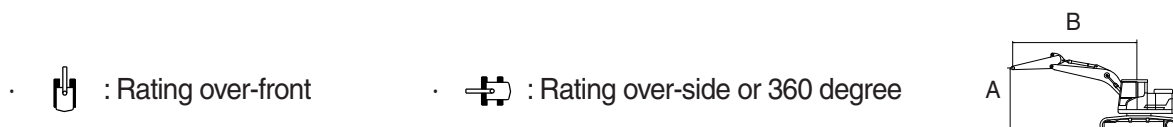
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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235A LCR	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2400	5300	600	-	Up	-	-	-



Lift-point height (A)		Lift-point radius (B)								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)		Capacity		Reach
												m (ft)
9.0 m (29.5 ft)	kg lb	*7630 *16820	*7630 *16820							*7480 *16490	*7480 *16490	3.32 (10.9)
7.5 m (24.6 ft)	kg lb			*5900 *13010	*5900 *13010					*5810 *12810	*5810 *12810	5.55 (18.2)
6.0 m (19.7 ft)	kg lb			*6100 *13450	*6100 *13450	*5500 *12130	5340 11770			*5390 *11880	4350 9590	6.78 (22.2)
4.5 m (14.8 ft)	kg lb	*9960 *21960	*9960 *21960	*7070 *15590	*7070 *15590	*5830 *12850	5200 11460	*5230 *11530	3650 8050	*5230 *11530	3640 8020	7.51 (24.7)
3.0 m (9.8 ft)	kg lb			*8400 *18520	7530 16600	*6380 *14070	4970 10960	*5350 *11790	3580 7890	4980 10980	3300 7280	7.90 (25.9)
1.5 m (4.9 ft)	kg lb			*9320 *20550	7090 15630	*6830 *15060	4760 10490	5300 11680	3480 7670	4830 10650	3180 7010	7.99 (26.2)
0.0 m (0.0 ft)	kg lb			*9380 *20680	6890 15190	*6950 *15320	4620 10190	5230 11530	3420 7540	4970 10960	3260 7190	7.78 (25.5)
-1.5 m (-4.9 ft)	kg lb	*9680 *21340	*9680 *21340	*8690 *19160	6860 15120	*6540 *14420	4580 10100			*5000 *11020	3570 7870	7.27 (23.8)
-3.0 m (-9.8 ft)	kg lb	*9230 *20350	*9230 *20350	*7230 *15940	6970 15370	*5280 *11640	4660 10270			*4690 *10340	4330 9550	6.37 (20.9)
-4.5 m (-14.8 ft)	kg lb			*5130 *11310	*5130 *11310					*4560 *10050	*4560 *10050	4.81 (15.8)

Note 1. Lifting capacity are based on ISO 10567.

2. Lifting capacity of the HX 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.

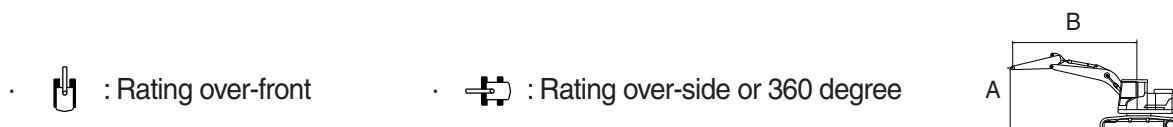
Lifting capacities will vary with different work tools ground conditions and attachments.













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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235A LCR	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2900	5300	600	-	Down	-	-	-



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg lb											*5230 *11530	*5230 *11530	4.25 (13.9)
7.5 m (24.6 ft)	kg lb					*5260 *11600	*5260 *11600	*4810 *10600	*4810 *10600			*4320 *9520	*4320 *9520	6.15 (20.2)
6.0 m (19.7 ft)	kg lb					*5520 *12170	*5520 *12170	*5070 *11180	*5070 *11180			*4020 *8860	*4020 *8860	7.27 (23.9)
4.5 m (14.8 ft)	kg lb			*8640 *19050	*8640 *19050	*6490 *14310	*6490 *14310	*5470 *12060	*5470 *12060	*4910 *10820	3920 8640	*3950 *8710	3540 7800	7.96 (26.1)
3.0 m (9.8 ft)	kg lb					*7870 *17350	*7870 *17350	*6070 *13380	5330 11750	*5130 *11310	3810 8400	*4050 *8930	3230 7120	8.32 (27.3)
1.5 m (4.9 ft)	kg lb					*9010 *19860	7660 16890	*6630 *14620	5080 11200	*5350 *11790	3690 8140	*4310 *9500	3120 6880	8.41 (27.6)
0.0 m (0.0 ft)	kg lb			*5310 *11710	*5310 *11710	*9370 *20660	7370 16250	*6880 *15170	4900 10800	*5400 *11900	3600 7940	*4790 *10560	3180 7010	8.21 (26.9)
-1.5 m (-4.9 ft)	kg lb	*5710 *12590	*5710 *12590	*9760 *21520	*9760 *21520	*8950 *19730	7290 16070	*6670 *14700	4830 10650	*5040 *11110	3580 7890	*4780 *10540	3440 7580	7.73 (25.4)
-3.0 m (-9.8 ft)	kg lb			*10420 *22970	*10420 *22970	*7780 *17150	7350 16200	*5790 *12760	4860 10710			*4630 *10210	4070 8970	6.89 (22.6)
-4.5 m (-14.8 ft)	kg lb			*7190 *15850	*7190 *15850	*5470 *12060	*5470 *12060					*4060 *8950	*4060 *8950	5.52 (18.1)

Note 1. Lifting capacity are based on ISO 10567.

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




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

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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX235A LCR	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2900	5300	600	-	Up	-	-	-



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg lb											*5230 *11530	*5230 *11530	4.25 (13.9)
7.5 m (24.6 ft)	kg lb					*5260 *11600	*5260 *11600	*4810 *10600	*4810 *10600			*4320 *9520	*4320 *9520	6.15 (20.2)
6.0 m (19.7 ft)	kg lb					*5520 *12170	*5520 *12170	*5070 *11180	*5070 *11180			*4020 *8860	3920 8640	7.27 (23.9)
4.5 m (14.8 ft)	kg lb			*8640 *19050	*8640 *19050	*6490 *14310	*6490 *14310	*5470 *12060	5250 11570	*4910 *10820	3690 8140	*3950 *8710	3330 7340	7.96 (26.1)
3.0 m (9.8 ft)	kg lb					*7870 *17350	7660 16890	*6070 *13380	5010 11050	*5130 *11310	3580 7890	*4050 *8930	3040 6700	8.32 (27.3)
1.5 m (4.9 ft)	kg lb					*9010 *19860	7140 15740	*6630 *14620	4760 10490	5290 11660	3460 7630	*4310 *9500	2930 6460	8.41 (27.6)
0.0 m (0.0 ft)	kg lb			*5310 *11710	*5310 *11710	*9370 *20660	6860 15120	*6880 *15170	4590 10120	5190 11440	3380 7450	4560 10050	2980 6570	8.21 (26.9)
-1.5 m (-4.9 ft)	kg lb	*5710 *12590	*5710 *12590	*9760 *21520	*9760 *21520	*8950 *19730	6780 14950	*6670 *14700	4510 9940	*5040 *11110	3350 7390	*4780 *10540	3220 7100	7.73 (25.4)
-3.0 m (-9.8 ft)	kg lb			*10420 *22970	*10420 *22970	*7780 *17150	6840 15080	*5790 *12760	4550 10030			*4630 *10210	3810 8400	6.89 (22.6)
-4.5 m (-14.8 ft)	kg lb			*7190 *15850	*7190 *15850	*5470 *12060	*5470 *12060					*4060 *8950	*4060 *8950	5.52 (18.1)

Note 1. Lifting capacity are based on ISO 10567.

2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm level ground or 87% of full hydraulic capacity.

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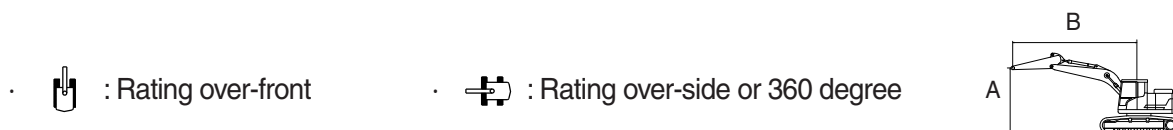
Lifting capacities will vary with different work tools ground conditions and attachments.













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

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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX235A LCR	2 PCS BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5874	2000	5300	600	-	Down	-	-	-



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg lb									*11520 *25400	*11520 *25400	2.95 (9.7)	*12400 *27340	2.15 (7.1)
7.5 m (24.6 ft)	kg lb	*9560 *21080	*9560 *21080	*8000 *17640	*8000 *17640					*7300 *16090	6930 15280	5.34 (17.5)	*6640 *14640	4.96 (16.3)
6.0 m (19.7 ft)	kg lb	*8930 *19690	*8930 *19690	*8160 *17990	*8160 *17990	*6610 *14570	5750 12680			*6190 *13650	4870 10740	6.61 (21.7)	5280 11640	6.30 (20.7)
4.5 m (14.8 ft)	kg lb			*8800 *19400	8660 19090	*6760 *14900	5580 12300			*5580 *12300	4040 8910	7.36 (24.1)	4300 9480	7.09 (23.2)
3.0 m (9.8 ft)	kg lb					*6900 *15210	5330 11750	*5390 *11880	3840 8470	*5120 *11290	3650 8050	7.75 (25.4)	3860 8510	7.49 (24.6)
1.5 m (4.9 ft)	kg lb					*6740 *14860	5100 11240	*5100 *11240	3750 8270	*4670 *10300	3530 7780	7.84 (25.7)	3720 8200	7.58 (24.9)
0.0 m (0.0 ft)	kg lb					*6070 *13380	4980 10980	*4340 *9570	3710 8180	*4110 *9060	3630 8000	7.63 (25.0)	3830 8440	7.37 (24.2)
-1.5 m (-4.9 ft)	kg lb			*5760 *12700	*5760 *12700	*4720 *10410	*4720 *10410			*3280 *7230	*3280 *7230	7.11 (23.3)	*3850 *8490	6.83 (22.4)

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

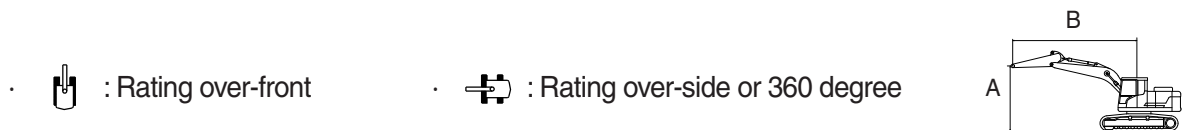
The difference between the weight of a work tool attachment must be subtracted.













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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX235A LCR	2 PCS BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5874	2000	5300	600	-	Up	-	-	-



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg lb									*11520 *25400	*11520 *25400	2.95 (9.7)	*12400 *27340	2.15 (7.1)
7.5 m (24.6 ft)	kg lb	*9560 *21080	*9560 *21080	*8000 *17640	*8000 *17640					*7300 *16090	6520 14370	5.34 (17.5)	*6640 *14640	4.96 (16.3)
6.0 m (19.7 ft)	kg lb	*8930 *19690	*8930 *19690	*8160 *17990	*8160 *17990	*6610 *14570	5420 11950			*6190 *13650	4590 10120	6.61 (21.7)	4970 10960	6.30 (20.7)
4.5 m (14.8 ft)	kg lb			*8800 *19400	8120 17900	*6760 *14900	5250 11570			*5580 *12300	3790 8360	7.36 (24.1)	4050 8930	7.09 (23.2)
3.0 m (9.8 ft)	kg lb					*6900 *15210	5000 11020	*5390 *11880	3610 7960	*5120 *11290	3430 7560	7.75 (25.4)	3630 8000	7.49 (24.6)
1.5 m (4.9 ft)	kg lb					*6740 *14860	4780 10540	*5100 *11240	3520 7760	*4670 *10300	3310 7300	7.84 (25.7)	3490 7690	7.58 (24.9)
0.0 m (0.0 ft)	kg lb					*6070 *13380	4660 10270	*4340 *9570	3480 7670	*4110 *9060	3400 7500	7.63 (25.0)	3590 7910	7.37 (24.2)
-1.5 m (-4.9 ft)	kg lb			*5760 *12700	*5760 *12700	*4720 *10410	4660 10270			*3280 *7230	*3280 *7230	7.11 (23.3)	*3850 *8490	6.83 (22.4)

Note 1. Lifting capacity are based on ISO 10567.

2. Lifting capacity of the HX 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.

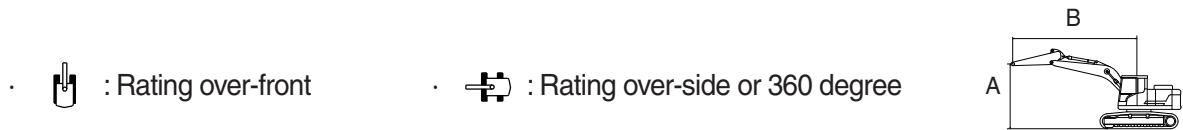
The difference between the weight of a work tool attachment must be subtracted.











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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX235A LCR	2 PCS BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5874	2400	5300	600	-	Down	-	-	-



Lift-point height (A)		Lift-point radius (B)								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)		Capacity		Reach
												m (ft)
9.0 m (29.5 ft)	kg lb	*9060 *19970	*9060 *19970							*7510 *16560	*7510 *16560	3.89 (12.8)
7.5 m (24.6 ft)	kg lb			*7610 *16780	*7610 *16780					*5850 *12900	*5850 *12900	5.91 (19.4)
6.0 m (19.7 ft)	kg lb	*6750 *14880	*6750 *14880	*7820 *17240	*7820 *17240	*6260 *13800	5820 12830			*5300 *11680	4380 9660	7.07 (23.2)
4.5 m (14.8 ft)	kg lb			*8510 *18760	*8510 *18760	*6590 *14530	5620 12390	*5270 *11620	3940 8690	*5110 *11270	3700 8160	7.78 (25.5)
3.0 m (9.8 ft)	kg lb			*9190 *20260	8110 17880	*6810 *15010	5350 11790	*5380 *11860	3840 8470	*4790 *10560	3370 7430	8.15 (26.7)
1.5 m (4.9 ft)	kg lb			*9110 *20080	7600 16760	*6760 *14900	5090 11220	*5190 *11440	3730 8220	*4390 *9680	3260 7190	8.23 (27.0)
0.0 m (0.0 ft)	kg lb			*8070 *17790	7400 16310	*6230 *13730	4940 10890	*4640 *10230	3650 8050	*3910 *8620	3340 7360	8.04 (26.4)
-1.5 m (-4.9 ft)	kg lb			*6370 *14040	*6370 *14040	*5090 *11220	4910 10820	*3300 *7280	*3300 *7280	*3200 *7050	*3200 *7050	7.54 (24.7)
-3.0 m (-9.8 ft)	kg lb					*3030 *6680	*3030 *6680					

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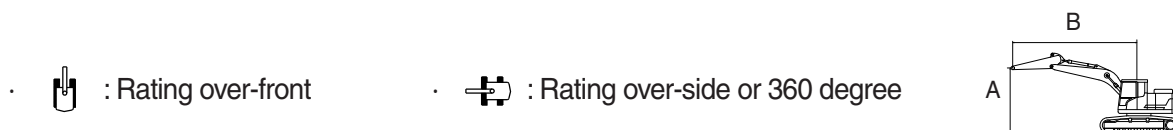
Lifting capacities will vary with different work tools ground conditions and attachments.











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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX235A LCR	2 PCS BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5874	2400	5300	600	-	Up	-	-	-



Lift-point height (A)		Lift-point radius (B)								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)		Capacity		Reach
												m (ft)
9.0 m (29.5 ft)	kg lb	*9060 *19970	*9060 *19970							*7510 *16560	*7510 *16560	3.89 (12.8)
7.5 m (24.6 ft)	kg lb			*7610 *16780	*7610 *16780					*5850 *12900	5570 12280	5.91 (19.4)
6.0 m (19.7 ft)	kg lb	*6750 *14880	*6750 *14880	*7820 *17240	*7820 *17240	*6260 *13800	5480 12080			*5300 *11680	4120 9080	7.07 (23.2)
4.5 m (14.8 ft)	kg lb			*8510 *18760	8240 18170	*6590 *14530	5290 11660	*5270 *11620	3700 8160	*5110 *11270	3470 7650	7.78 (25.5)
3.0 m (9.8 ft)	kg lb			*9190 *20260	7570 16690	*6810 *15010	5020 11070	*5380 *11860	3600 7940	*4790 *10560	3160 6970	8.15 (26.7)
1.5 m (4.9 ft)	kg lb			*9110 *20080	7070 15590	*6760 *14900	4770 10520	*5190 *11440	3490 7690	*4390 *9680	3050 6720	8.23 (27.0)
0.0 m (0.0 ft)	kg lb			*8070 *17790	6880 15170	*6230 *13730	4620 10190	*4640 *10230	3420 7540	*3910 *8620	3130 6900	8.04 (26.4)
-1.5 m (-4.9 ft)	kg lb			*6370 *14040	*6370 *14040	*5090 *11220	4590 10120	*3300 *7280	*3300 *7280	*3200 *7050	*3200 *7050	7.54 (24.7)
-3.0 m (-9.8 ft)	kg lb					*3030 *6680	*3030 *6680					

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※ Lifting capacities are based upon a standard machine conditions.

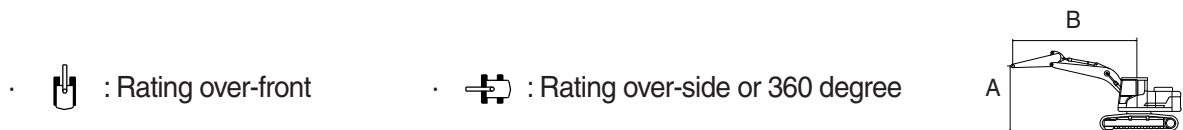
Lifting capacities will vary with different work tools ground conditions and attachments.











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

Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

▲ Failure to comply to the rated load can cause serious injury death or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX235A LCR	2 PCS BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5874	2900	5300	600	-	Down	-	-	-



Lift-point height (A)		Lift-point radius (B)								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)		Capacity		Reach
												m (ft)
9.0 m (29.5 ft)	kg lb			*5790 *12760	*5790 *12760					*5040 *11110	*5040 *11110	4.76 (15.6)
7.5 m (24.6 ft)	kg lb			*6180 *13620	*6180 *13620	*5610 *12370	*5610 *12370			*4190 *9240	*4190 *9240	6.51 (21.4)
6.0 m (19.7 ft)	kg lb			*6210 *13690	*6210 *13690	*5880 *12960	*5880 *12960	*4300 *9480	4030 8880	*3860 *8510	*3860 *8510	7.58 (24.9)
4.5 m (14.8 ft)	kg lb	*10100 *22270	*10100 *22270	*8110 *17880	*8110 *17880	*6280 *13850	5690 12540	*4980 *10980	3980 8770	*3760 *8290	3380 7450	8.24 (27.0)
3.0 m (9.8 ft)	kg lb			*8930 *19690	8270 18230	*6660 *14680	5390 11880	*5210 *11490	3850 8490	*3810 *8400	3090 6810	8.60 (28.2)
1.5 m (4.9 ft)	kg lb			*9170 *20220	7670 16910	*6750 *14880	5110 11270	*5240 *11550	3710 8180	*3990 *8800	2990 6590	8.67 (28.5)
0.0 m (0.0 ft)	kg lb			*8490 *18720	7370 16250	*6400 *14110	4910 10820	*4850 *10690	3610 7960	*3770 *8310	3050 6720	8.49 (27.9)
-1.5 m (-4.9 ft)	kg lb	*7840 *17280	*7840 *17280	*7030 *15500	*7030 *15500	*5470 *12060	4840 10670	*3950 *8710	3590 7910	*3210 *7080	*3210 *7080	8.02 (26.3)
-3.0 m (-9.8 ft)	kg lb			*4860 *10710	*4860 *10710	*3800 *8380	*3800 *8380			*2310 *5090	*2310 *5090	7.21 (23.7)

Note 1. Lifting capacity are based on ISO 10567.

2. Lifting capacity of the HX 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.

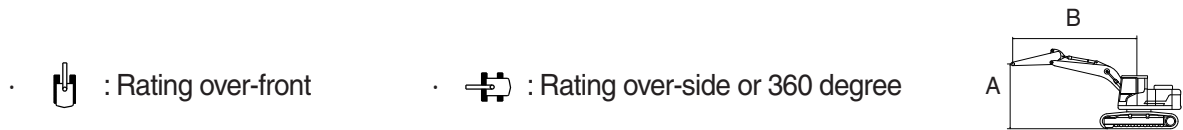
Lifting capacities will vary with different work tools ground conditions and attachments.











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

Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

Failure to comply to the rated load can cause serious injury death or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX235A LCR	2 PCS BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5874	2900	5300	600	-	Up	-	-	-



Lift-point height (A)		Lift-point radius (B)								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)		Capacity		Reach
												m (ft)
9.0 m (29.5 ft)	kg lb			*5790 *12760	*5790 *12760					*5040 *11110	*5040 *11110	4.76 (15.6)
7.5 m (24.6 ft)	kg lb			*6180 *13620	*6180 *13620	*5610 *12370	5600 12350			*4190 *9240	*4190 *9240	6.51 (21.4)
6.0 m (19.7 ft)	kg lb			*6210 *13690	*6210 *13690	*5880 *12960	5570 12280	*4300 *9480	3790 8360	*3860 *8510	3710 8180	7.58 (24.9)
4.5 m (14.8 ft)	kg lb	*10100 *22270	*10100 *22270	*8110 *17880	*8110 *17880	*6280 *13850	5360 11820	*4980 *10980	3740 8250	*3760 *8290	3170 6990	8.24 (27.0)
3.0 m (9.8 ft)	kg lb			*8930 *19690	7730 17040	*6660 *14680	5060 11160	*5210 *11490	3620 7980	*3810 *8400	2900 6390	8.60 (28.2)
1.5 m (4.9 ft)	kg lb			*9170 *20220	7140 15740	*6750 *14880	4780 10540	*5240 *11550	3480 7670	*3990 *8800	2800 6170	8.67 (28.5)
0.0 m (0.0 ft)	kg lb			*8490 *18720	6850 15100	*6400 *14110	4590 10120	*4850 *10690	3380 7450	*3770 *8310	2850 6280	8.49 (27.9)
-1.5 m (-4.9 ft)	kg lb	*7840 *17280	*7840 *17280	*7030 *15500	6780 14950	*5470 *12060	4520 9960	*3950 *8710	3350 7390	*3210 *7080	3090 6810	8.02 (26.3)
-3.0 m (-9.8 ft)	kg lb			*4860 *10710	*4860 *10710	*3800 *8380	*3800 *8380			*2310 *5090	*2310 *5090	7.21 (23.7)

Note 1. Lifting capacity are based on ISO 10567.

2. Lifting capacity of the HX 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 with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

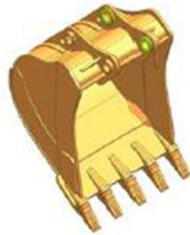
Failure to comply to the rated load can cause serious injury death or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

## 6. BUCKET SELECTION GUIDE

### 1) BUCKET SELECTION



General bucket



Heavy duty  
(without side cutter)



Heavy duty  
(with side cutter)

Type	Capacity		Width		Weight	Tooth	MONO			2-PIECE		
	SAE Heaped	CECE heaped	Without side cutter	With side cutter			Recommendation					
							mm (ft-in)			mm (ft-in)		
							5.70 m (18' 8") Boom			5.87 m (19' 3") Boom		
m³ (yd³)	m³ (yd³)	mm (in)	mm (in)	kg (lb)	EA	2.0 m (6' 7") Arm	2.4 m (7' 10") Arm	2.9 m (9' 6") Arm	2.0 m (6' 7") Arm	2.4 m (7' 10") Arm	2.9 m (9' 6") Arm	
General bucket	0.81 (1.06)	0.72 (0.94)	975 (38.4")	1125 (44.3")	700 (1540)	5	●	●	●	●	●	●
	0.86 (1.12)	0.76 (0.99)	1030 (40.6")	1170 (46.1")	710 (1570)	5	●	●	●	●	●	●
	0.92 (1.20)	0.81 (1.06)	1085 (42.7")	1230 (48.4")	750 (1650)	5	●	●	●	●	●	◐
	1.05 (1.37)	0.96 (1.26)	1220 (48.0")	1370 (53.9")	790 (1740)	5	●	◐	◐	●	◐	■
	1.28 (1.67)	1.11 (1.45)	1455 (57.3")	1605 (63.2")	885 (1950)	6	◐	■	▲	■	■	▲
Heavy duty	0.92 (1.20)	0.83 (1.09)	1050 (41.3")	1095 (43.1")	865 (1910)	5	●	●	◐	●	●	◐
	1.08 (1.41)	0.97 (1.27)	1200 (47.2")	1245 (49.0")	935 (2060)	5	●	◐	■	◐	◐	■

●	Applicable for materials with density of 2100 kg/m <sup>3</sup> (3500 lb/yd <sup>3</sup> ) or less
●	Applicable for materials with density of 1800 kg/m <sup>3</sup> (3000 lb/yd <sup>3</sup> ) or less
■	Applicable for materials with density of 1500 kg/m <sup>3</sup> (2500 lb/yd <sup>3</sup> ) or less
▲	Applicable for materials with density of 1200 kg/m <sup>3</sup> (2000 lb/yd <sup>3</sup> ) or less
X	Not recommended

※ These recommendations are for general conditions and average use.

Work tools and ground conditions have effects on machine performance.

Select an optimum combination according to the working conditions and the type of work that is being done.

Consult with your HD Hyundai Construction Equipment dealer for information on selecting the correct boom—arm—bucket combination.

## 7. UNDERCARRIAGE

### 1) TYPES OF SHOES

Model	Description	Unit		Triple grouser							
	width	mm	(in)	600	(24)	700	(32)	800	(32)	900	(32)
HX235A LCR without dozer	Operating weight	kg	(lb)	24480	53970	24780	54630	25070	55270	22990	50680
	Ground pressure	kgf/cm <sup>2</sup>	(psi)	0.47	6.68	0.41	5.83	0.36	5.12	0.33	4.65
	Overall width	mm	(ft-in)	2990	( 9' 10" )	3090	( 10' 2" )	3190	( 10' 6" )	3190	( 10' 6" )
	Link quantity	EA		49		49		49		49	
HX235A LCR with dozer	Operating weight	kg	(lb)	25980	57280	26280	57940	26570	58580	-	-
	Ground pressure	kgf/cm <sup>2</sup>	(psi)	0.50	7.09	0.43	6.18	0.38	5.43	-	-
	Overall width	mm	(ft-in)	2990	( 9' 10" )	3090	( 10' 2" )	3190	( 10' 6" )	-	-
	Link quantity	EA		49		49		49		-	
HX235A LCR 2 pcs without dozer	Operating weight	kg	(lb)	25210	55580	25510	56240	25800	56880	-	-
	Ground pressure	kgf/cm <sup>2</sup>	(psi)	0.48	6.88	0.42	6.00	0.37	5.27	-	-
	Overall width	mm	(ft-in)	2990	( 9' 10" )	3090	( 10' 2" )	3190	( 10' 6" )	-	-
	Link quantity	EA		49		49		49		-	
HX235A LCR 2 pcs with dozer	Operating weight	kg	(lb)	26690	58840	27010	59550	27310	60210	24910	54920
	Ground pressure	kgf/cm <sup>2</sup>	(psi)	0.51	7.31	0.45	6.34	0.39	5.61	0.35	5.04
	Overall width	mm	(ft-in)	2990	( 9' 10" )	3090	( 10' 2" )	3190	( 10' 6" )	3290	( 10' 10" )
	Link quantity	EA		49		49		49		49	

### 2) 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
600 mm triple grouser	Standard	A
700 mm triple grouser	Option	B
800 mm triple grouser	Option	C
900 mm triple grouser	Option	C

**Table 2**

Category	Applications	Precautions
A	Rocky ground river beds normal soil	<ul style="list-style-type: none"><li>· Travel at low speed on rough ground with large obstacles such as boulders or fallen trees or a wide range of general civil engineering work</li></ul>
B	Normal soil soft ground	<ul style="list-style-type: none"><li>· These shoes cannot be used on rough ground with large obstacles such as boulders or fallen trees</li><li>· Travel at high speed only on flat ground</li><li>· Travel slowly at low speed if it is impossible to avoid going over obstacles</li></ul>
C	Extremely soft ground (swampy ground)	<ul style="list-style-type: none"><li>· Use the shoes only in the conditions that the machine sinks and it is impossible to use the shoes of category A or B</li><li>· These shoes cannot be used on rough ground with large obstacles such as boulders or fallen trees</li><li>· Travel at high speed only on flat ground</li><li>· Travel slowly at low speed if it is impossible to avoid going over obstacles</li></ul>



## 8. SPECIFICATIONS FOR MAJOR COMPONENTS

### 1) ENGINE

Item	Specification
Maker / Model	Cummins B6.7
Type	4-cycle turbocharged charge air cooled electronic controlled diesel engine
Cooling method	Water cooled
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	107 × 124 mm (4.21" × 4.88")
Displacement	6.7 ℓ (408 cu in)
Compression ratio	17.3 : 1
Gross power	173 hp (129 kW) at 2200 rpm
Net power	170 hp (127 kW) at 2200 rpm
Max. power	195 hp (145 kW) at 2000 rpm
Peak Torque	881 N·m (650 lb·ft) at 1300 rpm
Engine oil quantity	23.7 ℓ (6.3 U.S. gal)
Wet weight	583 kg (1290 lb)
Starter motor	24 V-4.8 kW
Alternator	24 V-95 A

### 2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 130 cc/rev
Maximum pressure	350 kgf/cm <sup>2</sup> (4980 psi) [380 kgf/cm <sup>2</sup> (5400 psi)]
Rated oil flow	2 × 228 ℓ /min (60.2 U.S. gpm / 50.15 U.K. gpm)
Rated speed	1750 rpm

[    ] : Power boost

### 3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	10 cc/rev
Maximum pressure	40 kgf/cm <sup>2</sup> (570 psi)
Rated oil flow	17.5 ℓ /min (4.6 U.S. gpm/3.8 U.K. gpm)

### 4) MAIN CONTROL VALVE

Item		Specification
Type		10 spools two-block
Operating method		Hydraulic pilot system
Main relief valve pressure		350 kgf/cm <sup>2</sup> (4980 psi) [380 kgf/cm <sup>2</sup> (5400 psi)]
Port relief valve pressure	Boom	400 kgf/cm <sup>2</sup> (5690 psi)
	Arm	400 kgf/cm <sup>2</sup> (5690 psi)
	Bucket	400 kgf/cm <sup>2</sup> (5690 psi)

[ ] : Power boost

### 5) SWING MOTOR

Item	Specification
Type	Axial piston motor
Capacity	142.8 cc/rev
Relief pressure	285 kgf/cm <sup>2</sup> (3770 psi)
Braking system	Automatic spring applied hydraulic released
Braking torque	63.3 kgf · m (900 lbf · ft) over
Brake release pressure	20.9~35.5 kgf/cm <sup>2</sup> (151~257 psi) over
Reduction gear type	2 - stage planetary

### 6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Capacity	171.2/108.5 cc/rev
Relief pressure	350 kgf/cm <sup>2</sup> (4980 psi)
Braking system	Automatic spring applied hydraulic released
Braking torque	65.1 kgf · m (471 lbf · ft)
Brake release pressure	12.8~15.4 kgf/cm <sup>2</sup> (182~219 psi)
Reduction gear type	2-stage planetary

## 7) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Stroke	Ø 120 × 1290 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Stroke	Ø 140 × 1443 mm
	Cushion	Extend and retract
Adjust boom cylinder (2-piece boom)	Bore dia × Stroke	Ø 125 × 1220 mm
	Cushion	Extend only
Adjust cylinder (2-piece boom)	Bore dia × Stroke	Ø 150 × 1300 mm
	Cushion	N/A
Arm cylinder (2-piece boom)	Bore dia × Stroke	Ø 140 × 1450 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Stroke	Ø 120 × 1060 mm
	Cushion	Extend only
Dozer cylinder	Bore dia × Stroke	Ø 130 × 240 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.

## 9. RECOMMENDED OILS

HD Hyundai Construction Equipment 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 HD Hyundai Construction Equipment and therefore will meet the highest safety and quality requirements. We recommend that you use only HD Hyundai Construction Equipment genuine lubricating oils and grease officially approved by HD Hyundai Construction Equipment.

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)
Engine oil pan	Engine oil	23.7 (6.3)	★SAE 0W-30							
			SAE 5W-30							
			SAE 10W-30							
			SAE CI-4 and 10W-30							
			SAE 5W-40 or 15W-40							
DEF/ AdBlue® tank	Mixture of urea and deionized water	48 (12.6)	ISO 22241 High-purity urea + deionized water (32.5:67.5)							
Swing drive	Gear oil	7.0 (1.8)	★SAE 75W-90							
Final drive		6.0×2 (1.6×2)	SAE 80W-90							
Hydraulic tank	Hydraulic oil	Tank : 160 (42.3) System : 330 (87.2)	★ISO VG 15							
			ISO VG 32							
			ISO VG 46 HBHO 46★ <sup>3</sup>							
			ISO VG 68							
Fuel tank	Diesel fuel	320 (84.5)	★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★ <sup>1</sup>	30 (7.9)	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

**DEF** : Diesel Exhaust Fluid DEF compatible with AdBlue®

★ : Cold region (Russia CIS Mongolia)

★<sup>1</sup> : Ultra low sulfur diesel

- sulfur content ≤ 15 ppm

★<sup>2</sup> : Soft water

City water or distilled water

★<sup>3</sup> : HD Hyundai Construction  
Equipment Bio Hydraulic Oil

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

※ Do not mix HD Hyundai Construction Equipment 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 HD Hyundai Construction Equipment genuine lubricating oils and grease for use in regions with extremely low temperatures please contact your HD Hyundai Construction Equipment dealer.