

SPECIFICATIONS

HW140

ENGINE			
Maker / Model		Cummins QSB6.7	
Type		Water-cooled, 4-cycle diesel, 6-cylinder in-line, Direct injection, Turbocharged, Charge air cooled, Low emission	
Rated flywheel horse power	SAE	J1995 (gross)	117 kW (157 HP) at 2,150 rpm
		J1349 (net)	111 kW (149 HP) at 2,150 rpm
	DIN	6271/1 (gross)	117 kW (159 PS) at 2,150 rpm
		6271/1 (net)	111 kW (151 PS) at 2,150 rpm
Max. torque		68.6 kgf·m (496 lbf·ft) at 1,500 rpm	
Bore x stroke		107 x 124 mm (4.21" x 4.88")	
Piston displacement		6,700 cc (409 cu in)	
Batteries		2 x 12 V x 100 Ah	
Starting motor		24 V - 4.8 kW	
Alternator		24 V - 95 A	

HYDRAULIC SYSTEM

MAIN PUMP

Type	Two variable displacement piston pumps
Max. flow	2 x 168 l/min (44.4 US gpm/37.0 UK gpm)
Sub-pump for pilot circuit	Gear pump

Cross-sensing and fuel saving pump system

HYDRAULIC MOTORS

Travel	Bent - axis pistons motor with brake valve and parking brake
Swing	Axial piston motor with automatic brake

RELIEF VALVE SETTING

Implement circuits	350 kgf/cm ² (4,970 psi)
Travel	380 kgf/cm ² (5,400 psi)
Power boost (boom, arm, bucket)	380 kgf/cm ² (5,400 psi)
Swing circuit	285 kgf/cm ² (4,050 psi)
Pilot circuit	40 kgf/cm ² (570 psi)
Service valve	Installed

HYDRAULIC CYLINDERS

No. of cylinder bore x stroke	Boom: 2-105 x 1,075 mm (4.1" x 42.3")
	Arm: 1-115 x 1,138 mm (4.5" x 46.8")
	Bucket: 1-100 x 850 mm (3.9" x 33.1")
	Dozer Blade: 2-100 x 236 mm (3.9" x 9.3")
	Outrigger: 2-110 x 446 mm (4.9" x 18.7")
	2-Piece Boom: 2-105 x 975 mm (4.1" x 38.4") Adjust (boom): 1-145 x 613 mm (5.7" x 24.1")

DRIVES & BRAKES

4-wheel hydrostatic drive. Constant mesh, helical gear transmission provides 2 forward and reverse travel speeds.

Max. drawbar pull		8,500 kgf (18,740 lbf)
Travel speed	1st	10 km/h
	2nd	39 km/h
Gradeability		35° (70 %)

Parking brake : Independent dual brake, front and rear axle full hydraulic power brake.

- Spring released and hydraulic applied wet type multiple disk brake.
- Transmission is locked at neutral position for parking, automatically.

CONTROL

Pilot pressure operated joysticks and pedals with detachable lever provide almost effortless and fatigueless operation.

Pilot control	Two joysticks with one safety lever (LH): Swing and arm (RH): Boom and bucket (ISO)
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CONTROL

Engine throttle	Electric, Dial type
Lights	Two lights mounted on the boom, one under the battery box and one under the cabin

AXLE & WHEEL

Full floating front axle is supported by center pin for oscillation. It can be locked by oscillation lock cylinders. Rear axle is fixed on the lower chassis.

Tires	10.00-20-14PR, Dual (tube type)
(Optional)	10.00-20, Dual (solid type)

STEERING SYSTEM

Hydraulically actuated, orbitrol type steering system actuates on front wheels through the steering cylinder.

Min. turning radius	6,300 mm (20' 8")
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SWING SYSTEM

Swing motor	Fixed displacement axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake (option)	Multi wet disc
Swing speed	11.7 rpm

SERVICE REFILL CAPACITIES

(): option

	liter	US gal	UK gal
Re-filling			
Fuel tank	270	71.3	59.4
Engine coolant	19.5	5.2	4.3
Engine oil	23.7	6.3	5.2
Swing device	3.5 (2.5)	0.92 (0.7)	0.77 (0.5)
Axle	Front	13.8	3.6
	Rear	16.1	4.3
Transmission	2.5	0.7	0.5
Hydraulic system (including tank)	210	55.5	46.2
Hydraulic tank	124	32.8	27.3
DEF/AdBlue®	27	7.1	5.9

UNDERCARRIAGE

Reinforced box-section frame is all-welded, low-stress. Dozer blade and outriggers are available. A pin-on design.

Dozer blade	A very useful addition for leveling and back filling or clean-up work.
Outrigger	Indicated for max. operation stability when digging and lifting. Can be mounted on the front/or the rear.

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 4,600 mm (15' 1") Mono boom; 2,100 mm (6' 11") arm; SAE heaped 0.58 m³ (0.76 yd³) backhoe bucket, lubricant, coolant, full fuel tank, full hydraulic tank and all standard equipments.

OPERATING WEIGHT

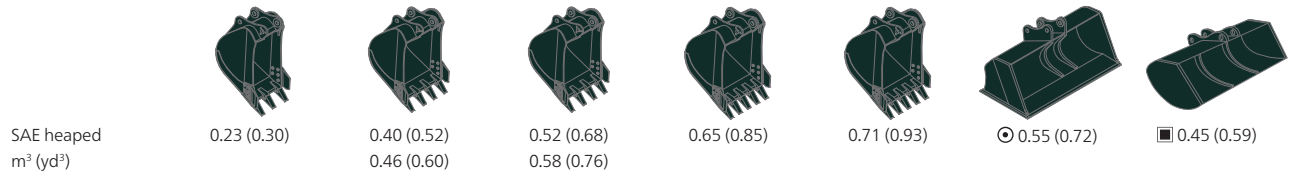
Rear dozer blade	13,880 kg (30,600 lb)
Rear outriggers	14,280 kg (31,480 lb)
Front outriggers and rear blade	14,880 kg (32,800 lb)
Front blade and rear outriggers	14,880 kg (32,800 lb)
Four outriggers	14,630 kg (32,250 lb)

BUCKET SELECTION GUIDE & DIGGING FORCE

HW140

BUCKETS

All buckets are welded with high-strength steel.



Capacity m³ (yd³)		Width mm (in)		Weight kg (lb)	Recommendation m (ft.in)						
					4.6 (15' 1") Mono-boom				4.9 (16' 1") 2-Piece boom		
SAE heaped	CECE heaped	Without side cutters	With side cutters		1.9 (6' 3") Arm	2.1 (6' 11") Arm	2.5 (8' 2") Arm	3.0 (9' 10") Arm	1.9 (6' 3") Arm	2.1 (6' 11") Arm	2.5 (8' 2") Arm
0.23 (0.30)	0.20 (0.26)	520 (20.5)	620 (24.4)	335 (740)	●	●	●	●	●	●	●
0.40 (0.52)	0.35 (0.46)	750 (29.5)	850 (33.5)	410 (900)	●	●	●	●	●	●	●
0.46 (0.60)	0.40 (0.52)	840 (33.1)	940 (37.0)	435 (960)	●	●	●	■	●	●	■
0.52 (0.68)	0.45 (0.59)	915 (36.0)	1,015 (40.0)	460 (1,010)	●	●	■	▲	●	■	■
0.58 (0.76)	0.50 (0.65)	1,000 (39.4)	1,100 (43.3)	480 (1,060)	●	■	■	▲	■	▲	▲
0.65 (0.85)	0.55 (0.72)	1,105 (43.5)	1,205 (47.4)	500 (1,100)	■	▲	▲	-	▲	▲	-
0.71 (0.93)	0.60 (0.78)	1,190 (46.9)	1,290 (50.8)	540 (1,190)	▲	▲	-	-	▲	-	-
■ 0.45 (0.59)	0.40 (0.52)	1,520 (59.8)	-	410 (900)	●	●	■	-	■	■	▲
○ 0.55 (0.72)	0.45 (0.59)	1,800 (70.9)	-	585 (1,290)	■	▲	▲	-	■	▲	▲

- Ditching bucket
- Slope finishing bucket

- : Applicable for materials with density of 2,000 kg /m³ (3,370 lb/ yd³) or less
- : Applicable for materials with density of 1,600 kg /m³ (2,700 lb/ yd³) or less
- ▲ : Applicable for materials with density of 1,100 kg /m³ (1,850 lb/ yd³) or less

ATTACHMENT

Booms and arms are welded with a low-stress, full-box section design.

4.6 m (15' 1") Mono-boom and 4.9 m (16' 1") 2-Piece boom and 1.9 m (6' 3"); 2.1 m (6' 11"); 2.5 m (8' 2") & 3.0 m (9' 10") Arms are available.

DIGGING FORCE

Arm	Length	mm (ft.in)	1,900 (6' 3")	2,100 (6' 11")	2,500 (8' 2")	3,000 (9' 10")	Remarks:
	Weight	kg (lb)	560 (1,230)	580 (1,280)	610 (1,340)	670 (1,480)	
Bucket digging force	SAE	kN	87.3 [94.8]	87.3 [94.8]	87.3 [94.8]	87.3 [94.8]	[] : Power Boost
		kgf	8,900 [9,660]	8,900 [9,660]	8,900 [9,660]	8,900 [9,660]	
		lbf	19,620 [21,300]	19,620 [21,300]	19,620 [21,300]	19,620 [21,300]	
	ISO	kN	102 [110.8]	102 [110.8]	102 [110.8]	102 [110.8]	
		kgf	10,400 [11,290]	10,400 [11,290]	10,400 [11,290]	10,400 [11,290]	
		lbf	22,930 [24,890]	22,930 [24,890]	22,930 [24,890]	22,930 [24,890]	
Arm crowd force	SAE	kN	76.5 [83.1]	73.6 [79.9]	62.8 [68.2]	55.9 [60.7]	
		kgf	7,800 [8,470]	7,500 [8,140]	6,400 [6,950]	5,700 [6,190]	
		lbf	17,200 [18,670]	16,530 [17,950]	14,110 [15,320]	12,570 [13,640]	
	ISO	kN	80.4 [87.3]	77.5 [84.1]	65.7 [71.4]	57.9 [62.8]	
		kgf	8,200 [8,900]	7,900 [8,580]	6,700 [7,270]	5,900 [6,410]	
		lbf	18,080 [19,630]	17,420 [18,910]	14,770 [16,040]	13,010 [14,120]	

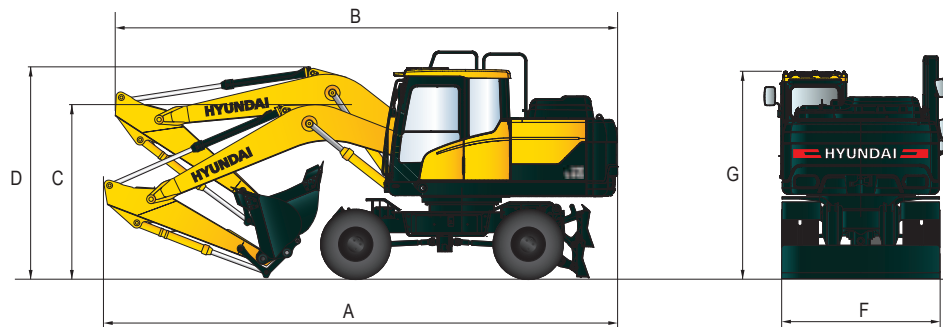
Note : Arm weight includes bucket cylinder, linkage and pin

DIMENSIONS & WORKING RANGE

HW140

HW140 MONO BOOM DIMENSIONS

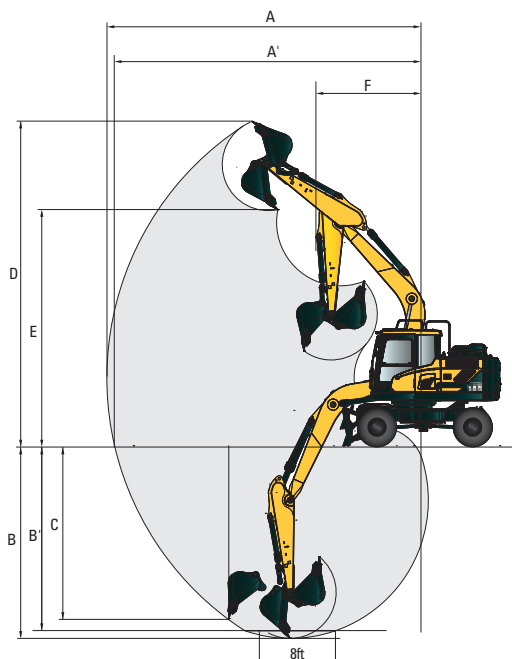
4.6 m (15' 1") Mono-boom and 1.9 m (6' 3"), 2.1 m (6' 11"), 2.5 m (8' 2") & 3.0 m (9' 10") Arm, Front outrigger and rear dozer blade.



Unit : mm (ft-in)

Boom length	4,600 (15' 1") Mono-boom			
Arm length	1,900 (6' 3")	2,100 (6' 11")	2,500 (8' 2")	3,000 (9' 10")
A Overall length - shipping position	7,760 (25' 6")	7,820 (25' 8")	7,770 (25' 6")	7,830 (25' 8")
B Overall length - traveling position	7,750 (25' 5")	7,760 (25' 6")	7,690 (25' 3")	7,710 (25' 4")
C Height of attachment - shipping position	2,760 (9' 1")	2,860 (9' 5")	2,810 (9' 3")	3,100 (10' 2")
D Height of attachment - traveling position	3,500 (11' 6")	3,500 (11' 6")	3,620 (11' 11")	3,600 (11' 10")
F Overall width	2,500 (8' 2")	2,500 (8' 2")	2,500 (8' 2")	2,500 (8' 2")
G Overall height of cabin	3,140 (10' 4")	3,140 (10' 4")	3,140 (10' 4")	3,140 (10' 4")

HW140 MONO BOOM WORKING RANGE



Unit : mm (ft-in)

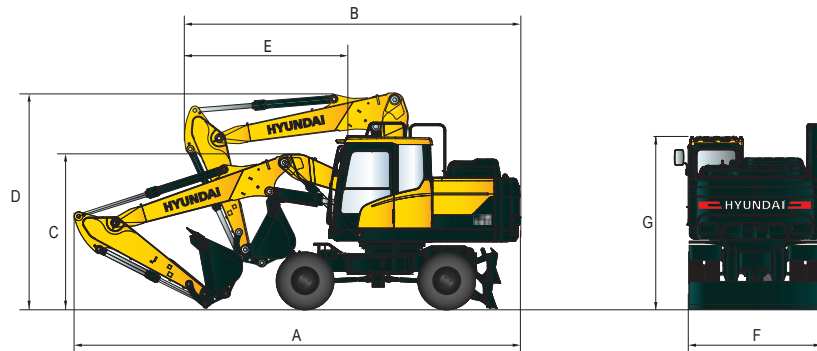
Boom length	4,600 (15' 1") Mono-boom			
Arm length	1,900 (6' 3")	2,100 (6' 11")	2,500 (8' 2")	3,000 (9' 10")
A Max. digging reach	7,750 (25' 5")	8,140 (26' 8")	8,320 (27' 4")	8,780 (28' 10")
A' Max. digging reach on ground	7,530 (24' 8")	7,700 (25' 3")	8,120 (26' 8")	8,590 (28' 2")
B Max. digging depth	4,650 (15' 3")	4,810 (15' 9")	5,250 (17' 3")	5,750 (18' 10")
B' Max. digging depth (8' level)	4,390 (14' 5")	4,600 (15' 1")	5,040 (16' 6")	5,570 (18' 3")
C Max. vertical wall digging depth	4,350 (14' 3")	4,190 (13' 9")	5,030 (16' 6")	5,550 (18' 3")
D Max. digging height	8,400 (27' 7")	8,470 (27' 9")	8,790 (28' 10")	9,070 (29' 9")
E Max. dumping height	5,960 (19' 7")	6,040 (19' 10")	6,350 (20' 10")	6,620 (21' 9")
F Min. front swing radius	2,620 (8' 7")	2,670 (8' 10")	2,650 (8' 8")	2,670 (8' 9")

DIMENSIONS & WORKING RANGE

HW140

HW140 2-PIECE BOOM DIMENSIONS

4.9 m (16' 1") 2-Piece boom and 1.9 m (6' 3"), 2.1 m (6' 11") & 2.5 m (8' 2") Arm, Front outrigger and rear dozer blade.

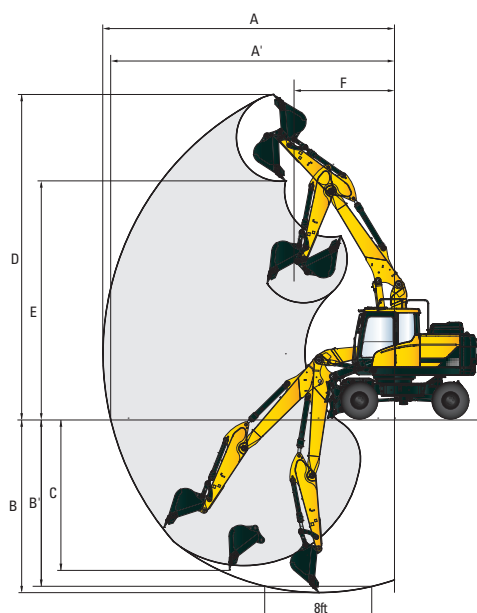


Unit : mm (ft-in)

Boom length	4,900 (16' 1") 2-Piece boom		
Arm length	1,900 (6' 3")	2,100 (6' 11")	2,500 (8' 2")
A Overall length - shipping position	8,140 (26' 8")	8,170 (26' 10")	8,150 (26' 9")
B Overall length - traveling position	6,090 (19' 12")	6,110 (20' 1")	6,130 (20' 1")
C Height of attachment - shipping position	2,960 (9' 9")	3,060 (10' 0")	3,070 (10' 1")
D Height of attachment - traveling position	3,980 (13' 1")	3,980 (13' 1")	3,980 (13' 1")
E End of attachment to steering wheel	2,950 (9' 8")	2,970 (9' 9")	2,990 (9' 10")
F Overall width	2,500 (8' 2")	2,500 (8' 2")	2,500 (8' 2")
G Overall height of cabin	3,140 (10' 4")	3,140 (10' 4")	3,140 (10' 4")

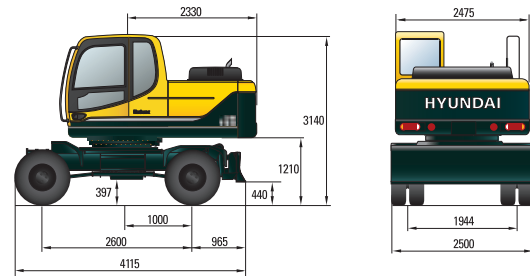
HW140 2-PIECE BOOM WORKING RANGE

Unit : mm (ft-in)

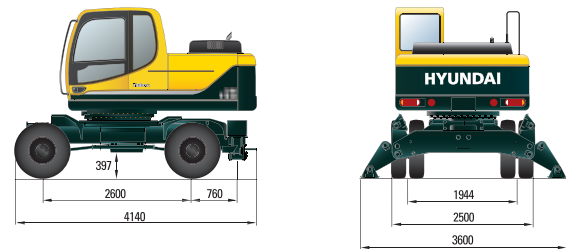


Boom length	4,900 (16' 1") 2-Piece boom		
Arm length	1,900 (6' 3")	2,100 (6' 11")	2,500 (8' 2")
A Max. digging reach	8,140 (26' 8")	8,310 (27' 3")	8,720 (28' 7")
A' Max. digging reach on ground	7,930 (26' 0")	8,110 (26' 7")	8,530 (28' 0")
B Max. digging depth	4,810 (15' 9")	5,010 (16' 5")	5,410 (17' 9")
B' Max. digging depth (8' level)	4,700 (15' 5")	4,890 (16' 1")	5,310 (17' 5")
C Max. vertical wall digging depth	4,190 (13' 9")	4,360 (14' 4")	4,820 (15' 10")
D Max. digging height	9,100 (29' 10")	9,180 (30' 1")	9,560 (31' 4")
E Max. dumping height	6,620 (21' 9")	6,700 (22' 0")	7,070 (23' 2")
F Min. front swing radius	2,660 (8' 9")	2,820 (9' 3")	2,690 (8' 10")

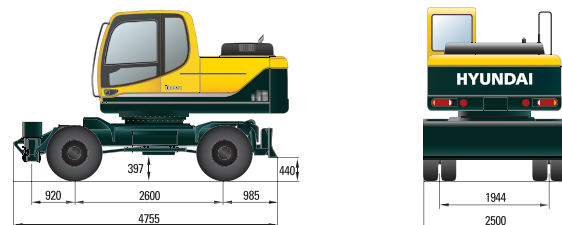
HW140 WITH REAR DOZER



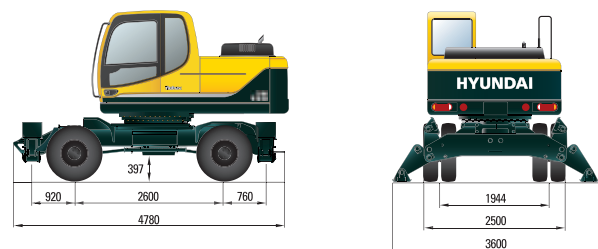
HW140 WITH REAR OUTRIGGER



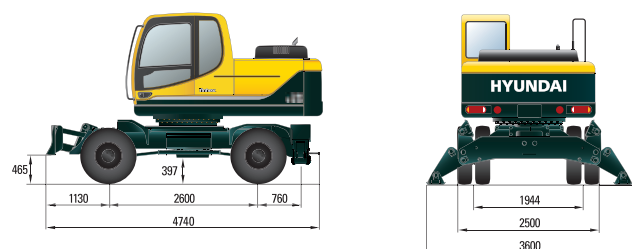
HW140 WITH REAR DOZER AND FRONT OUTRIGGER



HW140 WITH REAR AND FRONT OUTRIGGER



HW140 WITH REAR OUTRIGGER AND FRONT DOZER



LIFTING CAPACITY

HW140



Rating over-front



Rating over-side or 360 degrees

HW140 MONO-BOOM

Boom: 4.6 m (15' 1") / Arm: 1.9 m (6' 3") / Bucket: 0.58 m³ (0.76 yd³) SAE heaped / Rear dozer blade down and 1.700 kg counterweight

Load point height m (ft)		Load radius								At max. reach	
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Capacity	
6.0 m	kg					*3370	*3370			*3200	2030
(20 ft)	lb					*7430	*7430			*7050	4480
4.5 m	kg					*3760	3480	*2830	2080	*3310	1570
(15 ft)	lb					*8290	7670	*6240	4590	*7300	3460
3.0 m	kg			*7100	6280	*4730	3260	*3920	2010	3320	1380
(10 ft)	lb			*15650	13850	*10430	7190	*8640	4430	7320	3040
1.5 m	kg			*7600	5620	*5760	3020	*4350	1910	3270	1340
(5 ft)	lb			*16760	12390	*12700	6660	*9590	4210	7210	2950
Ground	kg			*8980	5460	*6340	2880	4580	1850	3530	1450
Line	lb			*19800	12040	*13980	6350	10100	4080	7780	3200
-1.5 m	kg	*7730	*7730	*9450	5500	*6250	2850			*3860	1790
(-5 ft)	lb	*17040	*17040	*20830	12130	*13780	6280			*8510	3950
-3.0 m	kg			*7740	5680						
(-10 ft)	lb			*17060	12520						

Boom: 4.6 m (15' 1") / Arm: 1.9 m (6' 3") / Bucket: 0.58 m³ (0.76 yd³) SAE heaped / Rear dozer blade down and 1.700 kg counterweight

Load point height m (ft)		Load radius								At max. reach	
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Capacity	
6.0 m	kg					*3370	3090			*3200	1740
(20 ft)	lb					*7430	6810			*7050	3840
4.5 m	kg					*3760	3000	*2830	1770	2650	1330
(15 ft)	lb					*8290	6610	*6240	3900	5840	2930
3.0 m	kg			*7100	5250	*4730	2780	3400	1700	2380	1160
(10 ft)	lb			*15650	11570	*10430	6130	7500	3750	5250	2560
1.5 m	kg			*7600	4630	5300	2550	3290	1610	2340	1120
(5 ft)	lb			*16760	10210	11680	5620	7250	3550	5160	2470
Ground	kg			*8980	4490	5140	2410	3220	1550	2520	1210
Line	lb			*19800	9900	11330	5310	7100	3420	5560	2670
-1.5 m	kg	*7730	*7730	*9450	4520	5110	2390			3090	1510
(-5 ft)	lb	*17040	*17040	*20830	9960	11270	5270			6810	3330
-3.0 m	kg			*7740	4690						
(-10 ft)	lb			*17060	10340						

Boom: 4.6 m (15' 1") / Arm: 2.1 m (6' 11") / Bucket: 0.58 m³ (0.76 yd³) SAE heaped / Rear dozer blade down and 1.700 kg counterweight

Load point height m (ft)		Load radius								At max. reach	
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Capacity	
6.0 m	kg					*3150	*3150			*3050	1910
(20 ft)	lb					*6940	*6940			*6720	4210
4.5 m	kg					*3550	3490	*3190	2080	*3170	1490
(15 ft)	lb					*7830	7690	*7030	4590	*6990	3280
3.0 m	kg			*6650	6320	*4530	3250	*3780	1990	3180	1310
(10 ft)	lb			*14660	13930	*9990	7170	*8330	4390	7010	2890
1.5 m	kg			*8620	5600	*5590	2990	*4240	1890	3130	1270
(5 ft)	lb			*19000	12350	*12320	6590	*9350	4170	6900	2800
Ground	kg			*9100	5390	*6240	2830	4540	1810	3360	1360
Line	lb			*20060	11880	*13760	6240	10010	3990	7410	3000
-1.5 m	kg	*7420	*7420	*9520	5400	*6240	2790			*3770	1660
(-5 ft)	lb	*16360	*16360	*20990	11900	*13760	6150			*8310	3660
-3.0 m	kg	*11760	*11760	*7980	5570	*5230	2880				
(-10 ft)	lb	*25930	*25930	*17590	12280	*11530	6350				

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 (standard equipment) located on the back of the bucket.

4. (*) indicates load limited by hydraulic capacity.

LIFTING CAPACITY

HW140

 Rating over-front  Rating over-side or 360 degrees

HW140 MONO BOOM

Boom: 4.6 m (15' 1") / Arm: 2.1 m (6' 11") / Bucket: 0.58 m³ (0.76 yd³) SAE heaped / Rear dozer blade down and 1.700 kg counterweight

Load point height m (ft)		Load radius								At max. reach		
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Capacity		Reach
												m (ft)
6.0 m	kg					*3150	3310			*3050	1630	6.43
(20 ft)	lb					*6940	6860			*6720	3590	(21.3)
4.5 m	kg					*3550	3000	*3190	1770	*2530	1250	7.23
(15 ft)	lb					*7830	6610	*7030	3990	*5580	2760	(23.7)
3.0 m	kg			*6650	5280	*4530	2770	3390	1690	2270	1090	7.59
(10 ft)	lb			*14660	11640	*9990	6110	7470	3730	5000	2400	(24.9)
1.5 m	kg			*8620	4620	5270	2520	3270	1590	2230	1050	7.59
(5 ft)	lb			*19000	10190	11620	5560	7210	3510	4920	2310	(24.9)
Ground Line	kg			*9100	4410	5090	2370	3180	1510	2390	1130	7.24
	lb			*20060	9720	11220	5220	7010	3330	5270	2490	(23.8)
-1.5 m	kg	*7420	*7420	*9520	4430	5040	2330			2890	1390	6.45
(-5 ft)	lb	*16360	*16360	*20990	9770	11110	5140			6370	3060	(21.2)
-3.0 m	kg	*11760	*11760	*7980	4580	5150	2420					
(-10 ft)	lb	*25930	*25930	*17590	10100	11350	5340					

Boom: 4.6 m (15' 1") / Arm: 2.5 m (8' 2") / Bucket: 0.58 m³ (0.76 yd³) SAE heaped / Rear dozer blade down and 1.700 kg counterweight

Load point height m (ft)		Load radius								At max. reach		
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Capacity		Reach
												m (ft)
6.0 m (20 ft)	kg lb									*2830 *6240	1660 3660	6.92 (22.7)
4.5 m (15 ft)	kg lb					*3120 *6880	*3120 *6880	*2980 *6570	2100 4630	*2890 *6370	1320 2910	7.66 (25.1)
3.0 m (10 ft)	kg lb			*5730 *12630	*5730 *12630	*4120 *9080	3290 7250	*3510 *7740	2000 4410	2900 6390	1170 2580	8.00 (26.2)
1.5 m (5 ft)	kg lb			*8630 *19030	5720 12610	*5280 *11640	3010 6640	*4040 *8910	1880 4140	2850 6280	1130 2490	8.00 (26.2)
Ground Line	kg lb	*3830 *8440	*3830 *8440	*9000 *19840	5380 11860	*6080 *13400	2820 6220	*4440 *9790	1790 3950	3040 6700	1210 2670	7.67 (25.2)
-1.5 m (-5 ft)	kg lb	*6500 *14330	*6500 *14330	*9740 *21470	5340 11770	*6270 *13820	2750 6060	*4470 *9850	1760 3880	*3520 *7760	1440 3170	6.94 (22.8)
-3.0 m (-10 ft)	kg lb	*9790 *21580	*9790 *21580	*8550 *18850	5460 12040	*5620 *12390	2800 6170			*3490 *7690	2100 4630	5.64 (18.5)

Boom: 4.6 m (15' 1") / Arm: 2.5 m (8' 2") / Bucket: 0.58 m³ (0.76 yd³) SAE heaped / Rear dozer blade down and 1.700 kg counterweight

Load point height m (ft)		Load radius								At max. reach		
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Capacity		Reach
												m (ft)
6.0 m (20 ft)	kg lb									2790 6150	1410 3110	6.92 (22.7)
4.5 m (15 ft)	kg lb					*3120 *6880	3050 6720	*2980 *6570	1790 3950	2280 5030	1110 2450	7.66 (25.1)
3.0 m (10 ft)	kg lb			*5730 *12630	5470 12060	*4120 *9080	2810 6190	3400 7500	1700 3750	2070 4560	970 2140	8.00 (26.2)
1.5 m (5 ft)	kg lb			*8630 *19030	4720 10410	*5280 *11640	2540 5600	3270 7210	1580 3480	2030 4480	930 2050	8.00 (26.2)
Ground Line	kg lb	*3830 *8440	*3830 *8440	*9000 *19840	4410 9720	5080 11200	2350 5180	3160 6970	1490 3280	2150 4740	990 2180	7.67 (25.2)
-1.5 m (-5 ft)	kg lb	*6500 *14330	*6500 *14330	*9740 *21470	4360 9610	5000 11020	2290 5050	3130 6900	1460 3220	2540 5600	1200 2650	6.94 (22.8)
-3.0 m (-10 ft)	kg lb	*9790 *21580	*9790 *21580	*8550 *18850	4480 9880	5060 11160	2340 5160			*3490 *7690	1770 3900	5.64 (18.5)

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 (standard equipment) located on the back of the bucket.

4. (*) indicates load limited by hydraulic capacity.

LIFTING CAPACITY

HW140

 Rating over-front  Rating over-side or 360 degrees

HW140 MONO BOOM

Boom: 4.6 m (15' 1") / Arm: 3.0 m (9' 10") / Bucket: 0.58 m³ (0.76 yd³) SAE heaped / Rear dozer blade down and 1.700 kg counterweight

Load point height m (ft)		Load radius								At max. reach	
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Capacity	
											
6.0 m	kg							*2100	*2100	*2570	1450
(20 ft)	lb							*4630	*4630	*5670	3200
4.5 m	kg							*2720	2150	*2600	1180
(15 ft)	lb							*6000	4740	*5730	2600
3.0 m	kg							*3180	2040	2640	1050
(10 ft)	lb							*7010	4500	5820	2310
1.5 m	kg			*7720	5950	*3600	3380	*3780	1910	2600	1010
(5 ft)	lb			*17020	13120	*7940	7450	*8330	4210	5730	2230
Ground	kg	*3790	*3790	*9530	5460	*4860	3080	*4280	1800	2740	1070
Line	lb	*8360	*8360	*21010	12040	*10710	6790	*9440	3970	6040	2360
-1.5 m	kg	*5850	*5850	*9890	5320	*5840	2850	4460	1740	3150	1260
(-5 ft)	lb	*12900	*12900	*21800	11730	*12870	6280	9830	3840	6940	2760
-3.0 m	kg	*8400	*8490	*9140	5380	*6260	2750			*3390	1710
(-10 ft)	lb	*18720	*18720	*20150	11860	*13800	6060			*7470	3770
-4.5 m	kg			*6870	5620	*5950	2750				
(-15 ft)	lb			*15150	12390	*13120	6060				

Boom: 4.6 m (15' 1") / Arm: 3.0 m (9' 10") / Bucket: 0.58 m³ (0.76 yd³) SAE heaped / Rear dozer blade down and 1.700 kg counterweight

Load point height m (ft)		Load radius								At max. reach	
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Capacity	
											
6.0 m	kg							*2100	1880		
(20 ft)	lb							*4630	4140		
4.5 m	kg							*2720	1840		
(15 ft)	lb							*6000	4060		
3.0 m	kg					*3600	2900	*3180	1740	*1760	1090
(10 ft)	lb					*7940	6390	*7010	3840	*3880	2400
1.5 m	kg			*7720	4930	*4860	2610	3300	1610	*2170	1040
(5 ft)	lb			*17020	10870	*10710	5750	7280	3550	*4780	2290
Ground	kg	*3790	*3790	*9530	4480	5120	2390	3170	1500	*1780	990
Line	lb	*8360	*8360	*21010	9880	11290	5270	6990	3310	*3920	2180
-1.5 m	kg	*5850	*5850	*9890	4350	5000	2280	3110	1440		
(-5 ft)	lb	*12900	*12900	*21800	9590	11020	5030	6860	3170		
-3.0 m	kg	*8400	*8490	*9140	4400	5000	2290				
(-10 ft)	lb	*18720	*18720	*20150	9700	11020	5050				
-4.5 m	kg			*6870	4630						
(-15 ft)	lb			*15150	10210						

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 (standard equipment) located on the back of the bucket.

4. (*) indicates load limited by hydraulic capacity.

LIFTING CAPACITY

HW140

 Rating over-front  Rating over-side or 360 degrees

HW140 2-PIECE BOOM

Boom: 4.9 m (16' 1") / Arm: 1.9 m (6' 3") / Bucket: 0.58 m³ (0.76 yd³) SAE heaped / Rear dozer blade down and 1.700 kg counterweight

Load point height m (ft)		Load radius						At max. reach	
		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Capacity	Reach
									
6.0 m	kg			*2980	*2980			*2910	1750
(20 ft)	lb			*6570	*6570			*6420	3860
4.5 m	kg	*4270	*4270	*3510	3460	*3250	2120	*3010	1380
(15 ft)	lb	*9410	*9410	*7740	7630	*7170	4560	*6640	3040
3.0 m	kg			*4530	3180	*3640	1970	3030	1220
(10 ft)	lb			*9990	7010	*8020	4340	6680	2690
1.5 m	kg			*5560	2910	*4120	1860	2990	1180
(5 ft)	lb			*12260	6420	*9080	4100	6590	2600
Ground	kg	*6160	5290	*6150	2770	*4450	1780	3210	1270
Line	lb	*13580	11660	*13560	6110	*9810	3920	7080	2800
-1.5 m	kg	*9310	5360	*6170	2760	*4410	1780	*3590	1550
(-5 ft)	lb	*20530	11820	*13600	6080	*9720	3920	*7910	3420
-3.0 m	kg			*5400	2860				
(-10 ft)	lb			*11900	6310				

Boom: 4.9 m (16' 1") / Arm: 1.9 m (6' 3") / Bucket: 0.58 m³ (0.76 yd³) SAE heaped / Rear dozer blade down and 1.700 kg counterweight

Load point height m (ft)		Load radius						At max. reach	
		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Capacity	Reach
									
6.0 m	kg			*2980	*2980			*2910	1480
(20 ft)	lb			*6570	*6570			*6420	3260
4.5 m	kg	*4270	*4270	*3510	2960	*3250	1760	2390	1150
(15 ft)	lb	*9410	*9410	*7740	6530	*7170	3880	5270	2540
3.0 m	kg			*4530	2690	3380	1660	2160	1000
(10 ft)	lb			*9990	5930	7450	3660	4760	2200
1.5 m	kg			5220	2440	3260	1550	2120	970
(5 ft)	lb			11510	5380	7190	3420	4670	2140
Ground	kg	*6160	4310	5050	2300	3170	1480	2270	1050
Line	lb	*13580	9500	11130	5070	6990	3260	5000	2310
-1.5 m	kg	*9310	4370	5030	2290	3170	1470	2720	1290
(-5 ft)	lb	*20530	9630	11090	5050	6990	3240	6000	2840
-3.0 m	kg			5150	2380				
(-10 ft)	lb			11350	5250				

Boom: 4.9 m (16' 1") / Arm: 2.1 m (6' 11") / Bucket: 0.58 m³ (0.76 yd³) SAE heaped / Rear dozer blade down and 1.700 kg counterweight

Load point height m (ft)		Load radius						At max. reach	
		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Capacity	Reach
									
6.0 m	kg			*2790	*2790			*2780	1640
(20 ft)	lb			*6150	*6150			*6130	3620
4.5 m	kg			*3320	*3320	*3100	2070	*2880	1300
(15 ft)	lb			*7320	*7320	*6830	4560	*6350	2870
3.0 m	kg			*4330	3170	*3510	1950	2910	1150
(10 ft)	lb			*9550	6990	*7740	4300	6420	2540
1.5 m	kg			*5400	2880	*4010	1830	2860	1110
(5 ft)	lb			*11900	6350	*8840	4030	6310	2450
Ground	kg	*6330	5200	*6050	2720	*4370	1740	3060	1190
Line	lb	*13960	11460	*13340	6000	*9630	3840	6750	2620
-1.5 m	kg	*9370	5250	*6140	2690	*4400	1730	*3480	1430
(-5 ft)	lb	*20660	11570	*13540	5930	*9700	3810	*7670	3150
-3.0 m	kg			*5500	2780				
(-10 ft)	lb			*12130	6130				

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 (standard equipment) located on the back of the bucket.

4. (*) indicates load limited by hydraulic capacity.

LIFTING CAPACITY

HW140

 Rating over-front  Rating over-side or 360 degrees

HW140 2-PIECE BOOM

Boom: 4.9 m (16' 1") / Arm: 2.1 m (6' 11") / Bucket: 0.58 m³ (0.76 yd³) SAE heaped / Rear dozer blade down and 1.700 kg counterweight

Load point height m (ft)		Load radius						At max. reach	
		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Capacity	
									
6.0 m	kg			*2790	*2790			*2780	1390
(20 ft)	lb			*6150	*6150			*6130	3060
4.5 m	kg			*3320	2960	*3100	1750	2280	1080
(15 ft)	lb			*7320	6530	*6830	3860	5030	2380
3.0 m	kg			*4330	2680	3370	1640	2060	940
(10 ft)	lb			*9550	5910	7430	3620	4540	2070
1.5 m	kg			5190	2410	3230	1520	2020	910
(5 ft)	lb			11440	5310	7120	3350	4450	2010
Ground	kg	*6330	4220	5000	2250	3130	1440	2150	970
Line	lb	*13960	9300	11020	4960	6900	3170	4740	2140
-1.5 m	kg	*9370	4270	4960	2220	3120	1420	2550	1180
(-5 ft)	lb	*20660	9410	10930	4890	6880	3130	5620	2600
-3.0 m	kg			5070	2310				
(-10 ft)	lb			11180	5090				

Boom: 4.9 m (16' 9") / Arm: 2.5 m (8' 2") / Bucket: 0.58 m³ (0.76 yd³) SAE heaped / Rear dozer blade down and 1.700 kg counterweight

Load point height m (ft)		Load radius								At max. reach	
		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity	
											
6.0 m	kg					*2550	2140			*2580	1440
(20 ft)	lb					*5620	4720			*5690	3170
4.5 m	kg			*2920	*2920	*2810	2090			*2680	1150
(15 ft)	lb			*6440	*6440	*6190	4610			*5910	2540
3.0 m	kg	*5880	*5880	*3950	3220	*3260	1970	*1990	1270	2660	1030
(10 ft)	lb	*12960	*12960	*8710	7100	*7190	4340	*4390	2800	5860	2270
1.5 m	kg	*6080	*5450	*5090	2910	*3810	1830	*2510	1220	2620	990
(5 ft)	lb	*13400	*12020	*11220	6420	*8400	4030	*5530	2690	5780	2180
Ground	kg	*6380	5180	*5870	2710	*4250	1720			2770	1050
Line	lb	*14070	11420	*12940	5970	*9370	3790			6110	2310
-1.5 m	kg	*9070	5170	*6130	2650	*4400	1680			3220	1250
(-5 ft)	lb	*20000	11400	*13510	5840	*9700	3700			7100	2760
-3.0 m	kg	*8650	5310	*5730	2700						
(-10 ft)	lb	*19070	11710	*12630	5950						

Boom: 4.9 m (16' 1") / Arm: 2.5 m (8' 2") / Bucket: 0.58 m³ (0.76 yd³) SAE heaped / Rear dozer blade down and 1.700 kg counterweight

Load point height m (ft)		Load radius								At max. reach	
		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity	
											
6.0 m	kg					*2550	1820			2470	1200
(20 ft)	lb					*5620	4010			5450	2650
4.5 m	kg			*2920	*2920	*2810	1780			2060	950
(15 ft)	lb			*6440	*6440	*6190	3920			4540	2090
3.0 m	kg	*5880	5250	*3950	2730	*3260	1650	*1990	1040	1880	830
(10 ft)	lb	*12960	11570	*8710	6020	*7190	3640	*4390	2290	4140	1830
1.5 m	kg	*6080	4450	*5090	2430	3230	1520	2210	990	1840	800
(5 ft)	lb	*13400	9810	*11220	5360	7120	3350	4870	2180	4060	1760
Ground	kg	*6380	4200	5000	2240	3120	1420			1950	850
Line	lb	*14070	9260	11020	4940	6880	3130			4300	1870
-1.5 m	kg	*9070	4190	4920	2180	3070	1380			2260	1020
(-5 ft)	lb	*20000	9240	10850	4810	6770	3040			4980	2250
-3.0 m	kg	*8650	4320	4980	2230						
(-10 ft)	lb	*19070	9520	10980	4920						

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 (standard equipment) located on the back of the bucket.

4. (*) indicates load limited by hydraulic capacity.

ENGINE	STD	OPT
Cummins QSB 6.7 engine	●	
HYDRAULIC SYSTEM		
Intelligent Power Control (IPC)		
3-power mode, 2-work mode, user mode	●	
Variable Power Control	●	
Pump Flow Control	●	
Attachment Mode Flow Control		●
Engine Auto Idle	●	
Engine Auto Shutdown Control		●
Electronic Fan Control	●	
CABIN & INTERIOR		
ISO Standard cabin		
Rise-up type windshield wiper	●	
Radio / USB player	●	
Handsfree mobile phone system with USB	●	
12 volt power outlet (24V DC to 12V DC converter)	●	
Electric horn	●	
All-weather steel cab with 360° visibility	●	
Safety glass windows	●	
Sliding fold-in front window	●	
Sliding side window (LH)	●	
Lockable door	●	
Hot & cool box	●	
Storage compartment & Ashtray	●	
Transparent cabin roof-cover	●	
Sun visor	●	
Door and cab locks, one key	●	
Mechanical suspension seat with heater	●	
Pilot-operated slidable joystick	●	
Console box height adjust system	●	
Automatic climate control		
Air conditioner & heater	●	
Defroster	●	
Starting Aid (air grid heater) for cold weather	●	
Centralized monitoring		
8" LCD display	●	
Engine speed or Trip meter/Accel.	●	
Engine coolant temperature gauge	●	
Max power	●	
Low speed/High speed	●	
Auto idle	●	
Overload	●	
Check Engine	●	
Air cleaner clogging	●	
Indicators	●	
ECO Gauges	●	
Fuel level gauge	●	
Hyd. oil temperature gauge	●	
Fuel warmer	●	
Warnings	●	
Communication error	●	
Low battery	●	
Clock	●	
Cabin lights		●
Cabin front window rain guard	●	
Cabin roof-steel cover		●
Seat		
Adjustable air suspension seat with heater		●
Cabin FOPS/FOG (ISO/DIS 10262) Level 2		
FOPS (Falling Object Protective Structure) - ISO 3449 Level 2		●
FOG (Falling Object Guard)		●
Cabin ROPS (ISO 12117-2)		
ROPS (Roll Over Protective Structure)	●	

SAFETY	STD	OPT
Battery master switch	●	
Rearview camera	●	
AAVM (Advanced Around View Monitoring)		●
Four front working lights	●	
Travel alarm	●	
Rear work lamp		●
Beacon lamp		●
Automatic swing brake	●	
Boom holding system	●	
Arm holding system	●	
Safety lock valve for boom cylinder with overload warning device	●	
Safety lock valve for arm cylinder		●
Swing Lock System		●
Four outside rearview mirrors	●	
OTHER		
Booms		
4.6 m; 15' 1" Mono	●	
4.9 m; 16' 1" 2-Piece		●
4.1 m; 13' 5"		●
Arms		
1.9 m; 6' 3"		●
2.1 m; 6' 11"	●	
2.5 m; 8' 2"		●
3.0 m; 9' 11"		●
Removable clean-out dust net for cooler	●	
Removable reservoir tank	●	
Fuel pre-filter	●	
Fuel warmer	single dual	● ●
Self-diagnostics system	●	
Hi-mate (Remote Management System)	Mobile Satellite	● ●
Batteries (2 x 12 V x 100 Ah)	●	
Fuel filler pump (35 l/min)	●	
Single-acting piping kit (breaker, etc.)	●	
Double-acting piping kit (clamshell, etc.)	●	
Rotating Piping Kit		●
Quick coupler piping		●
Quick coupler		●
Accumulator for lowering work equipment	●	
Pattern change valve (2 patterns)		●
Fine Swing Control System		●
Tool kit		●
Auto cruiser system	●	
Travel pedal (2-way)		●
UNDERCARRIAGE		
Rear-dozer blade	●	
Front outrigger and rear blade		●
Front and rear outrigger		●
Front blade and rear outrigger		●
Tires-dual (10.00-20-14PR tube)	●	
Tires-dual (10.00-20 solid)		●
Fenders (Mudguards)		●

STD = Standard
OPT = Optional

- * Standard and optional equipment may vary. Contact your Hyundai dealer for more information.
- * The machine may vary according to International standards.
- * The photos may include attachments and optional equipment that are not available in your area.
- * Materials and specifications are subject to change without advance notice.
- * All imperial measurements rounded off to the nearest pound or inch.