

SPECIFICATIONS

HX160 L

ENGINE			
Maker / Model			Perkins / 1204F
Type			Water-cooled, 4-cycle diesel, 4-cylinder in-line, Direct injection, Turbocharged, Charge and air cooled
Rated flywheel horse power	SAE	J1995 (gross)	102.1 kW (137 HP) at 2,050 rpm
		J1349 (net)	96 kW (128 HP) at 2,050 rpm
	DIN	6271/1 (gross)	102.1 kW (139 PS) at 2,050 rpm
		6271/1 (net)	96 kW (130 PS) at 2,050 rpm
Max. torque			57.1 kgf-m (413 lbf-ft) at 1,400 rpm
Bore x stroke			105 x 127 mm (4.13" x 5.0")
Piston displacement			4,400 cc (268.5 cu in)
Batteries			2 x 12 V x 100 Ah
Starting motor			24 V - 4.5 kW
Alternator			24 V - 100 A

HYDRAULIC SYSTEM

MAIN PUMP

Type	Two variable displacement piston pumps
Max. flow	2 x 164 l/min (43.3 US gpm / 36.1 UK gpm)
Sub-pump for pilot circuit	Gear pump

Cross-sensing and fuel saving pump system

HYDRAULIC MOTORS

Travel	Two speed axial pistons motor with brake valve and parking brake
Swing	Axial piston motor with automatic brake

RELIEF VALVE SETTING

Implement circuits	350 kgf/cm ² (4,980 psi)
Travel	350 kgf/cm ² (4,980 psi)
Power boost (boom, arm, bucket)	380 kgf/cm ² (5,400 psi)
Swing circuit	285 kgf/cm ² (4,054 psi)
Pilot circuit	40 kgf/cm ² (570 psi)
Service valve	Installed

HYDRAULIC CYLINDERS

No. of cylinder bore x stroke	Boom: 2 - 115 x 1,090 mm (4.5" x 42.9")	
	Arm: 1 - 120 x 1,355 mm (4.7" x 53.3")	
	Bucket: 1 - 110 x 995 mm (4.3" x 39.2")	
	Dozer Blade: 2 - 110 x 320 mm (4.3" x 12.6")	
	2-Piece 1st: 2 - 115 x 960 mm (4.5" x 37.8")	
	Boom 2nd: 1 - 160 x 650 mm (6.3" x 25.6")	

DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	17,000 kgf (37,500 lbf)
Max. travel speed (high / low)	5.3 km/hr (3.3 mph) / 3.2 km/hr (2.0 mph)
Gradeability	35° (70%)
Parking brake	Multi wet disc

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

Traveling and steering	Two levers with pedals
Engine throttle	Electric, Dial type

SWING SYSTEM

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	10.3 rpm

SERVICE REFILL CAPACITIES

Re-filling	liter	US gal	UK gal
Fuel tank	290	76.6	63.8
Engine coolant	27.5	7.3	6.0
Engine oil	10.5	2.8	2.3
Swing device - gear oil	6.2	1.6	1.4
Final drive (each) - gear oil	3.0	0.8	0.7
Hydraulic system (including tank)	240	63.4	52.8
Hydraulic tank	125	33.0	27.5
DEF/AdBlue®	19	5.0	4.2

UNDERCARRIAGE

The X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricated rollers, idlers, track adjusters with shock absorbing springs and sprockets and a track chain with double or triple grouser shoes.

Center frame	X - leg type
Track frame	Pentagonal box type
No. of shoes on each side	49 EA
No. of carrier roller on each side	2 EA
No. of track roller on each side	7 EA
No. of rail guard on each side	1 EA

OPERATING WEIGHT (APPROXIMATE)

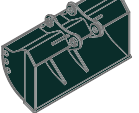
Operating weight, including 5,100 mm (16' 9") boom; 2,600 mm (8' 6") arm; SAE heaped 0.70 m³ (0.99 yd³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank and all standard equipments.

OPERATING WEIGHT

Shoes		Operating weight		Ground pressure
Type	Width mm (in)	kg (lb)		kgf / cm ² (psi)
Triple grouser	500 (20")	HX160L	17,855 (39,360)	0.52 (7.39)
		HX160LD	18,655 (41,130)	0.55 (7.82)
	600 (24")	HX160L	18,100 (39,904)	0.44 (6.26)
		HX160LD	18,900 (41,667)	0.46 (6.54)
	700 (30")	HX160L	18,345 (40,440)	0.38 (5.40)
		HX160LD	19,145 (42,210)	0.40 (5.69)

BUCKET SELECTION GUIDE **HX160 L** & DIGGING FORCE

BUCKETS

						
SAE heaped m ³ (yd ³)	0.39 (0.51)	0.50 (0.65)	0.64 (0.84) 0.70 (0.92) 0.76 (0.99)	0.70 (0.92)	0.89 (1.16) 1.05 (1.37)	◆ 0.69 (0.90) ⊙ 0.75 (0.98)

Capacity m ³ (yd ³)		Width mm (in)		Weight kg (lb)	Recommendation mm (ft.in)				
					5,100 (16' 9") Mono-Boom			5,100 (16' 9") 2-Piece boom	
SAE heaped	CECE heaped	Without side cutters	With side cutters		2,200 (7' 3") Arm	2,600 (8' 6") Arm	3,100 (10' 2") Arm	2,200 (7' 3") Arm	2,600 (8' 6") Arm
0.39 (0.51)	0.34 (0.44)	620 (24.4)	740 (29.1)	410 (900)	●	●	●	●	●
0.50 (0.65)	0.44 (0.58)	760 (29.9)	880 (34.6)	470 (1,040)	●	●	●	●	●
0.64 (0.84)	0.55 (0.72)	920 (36.2)	1,040 (40.9)	510 (1,120)	●	●	■	●	■
0.70 (0.92)	0.60 (0.78)	990 (39.0)	1,110 (43.7)	600 (1,320)	●	■	▲	■	▲
0.76 (0.99)	0.65 (0.85)	1,060 (41.7)	1,180 (46.5)	620 (1,370)	■	▲	-	■	▲
0.89 (1.16)	0.77 (1.01)	1,220 (48.0)	1,340 (52.8)	610 (1,340)	■	▲	-	▲	-
1.05 (1.37)	0.90 (1.18)	1,400 (55.1)	1,520 (59.8)	680 (1,500)	▲	-	-	▲	-
◆ 0.69 (0.90)	0.62 (0.81)	990 (39.0)	-	720 (1,590)	●	■	▲	■	▲
◆ 0.75 (0.98)	0.65 (0.85)	1,820 (71.7)	-	540 (1,190)	●	■	▲	●	■

- ◆ Heavy duty bucket
⊙ Ditch cleaning 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.
5.1 m (16' 9") Mono-boom and 5.1 m (16' 9") 2-Piece boom and 2.20 m (7' 3"); 2.60 m (8' 6") & 3.1 m (10' 2") Arms are available.

DIGGING FORCE

Arm	Length	mm (ft.in)	2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")	Remarks:
	Weight	kg (lb)	750 (1,560)	810 (1,790)	890 (1,960)	
Bucket digging force	SAE	kN	107.9 [117.2]	107.9 [117.2]	107.9 [117.2]	[] : Power Boost
		kgf	11,000 [11,940]	11,000 [11,940]	11,000 [11,940]	
		lbf	24,250 [26,330]	24,250 [26,330]	24,250 [26,330]	
	ISO	kN	123.6 [134.2]	123.6 [134.2]	123.6 [134.2]	
		kgf	12,600 [13,680]	12,600 [13,680]	12,600 [13,680]	
		lbf	27,780 [30,160]	27,780 [30,160]	27,780 [30,160]	
Arm crowd force	SAE	kN	87.2 [94.7]	77.3 [83.9]	69.0 [74.9]	
		kgf	8,890 [9,650]	7,880 [8,560]	7,030 [7,630]	
		lbf	19,600 [21,280]	17,370 [18,860]	15,500 [16,830]	
	ISO	kN	91.0 [98.8]	80.3 [87.2]	71.4 [77.5]	
		kgf	9,280 [10,080]	8,190 [8,890]	7,280 [7,900]	
		lbf	20,460 [22,210]	18,060 [19,600]	16,050 [17,430]	

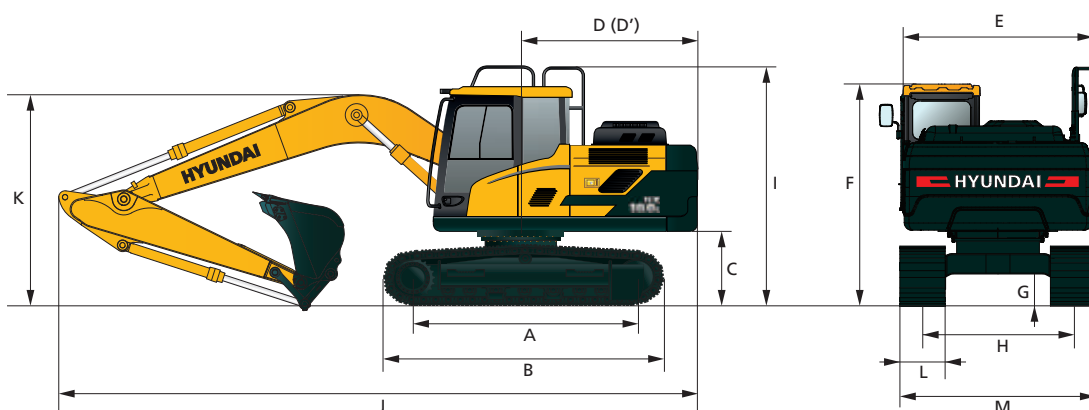
Note : Arm weight includes bucket cylinder, linkage and pin

DIMENSIONS & WORKING RANGE

HX160 L

HX160 L MONO-BOOM DIMENSIONS

5.1 m (16' 9") Mono-boom and 2.2 m (7' 3"); 2.6 m (8' 6") & 3.1 m (10' 2") Arm.



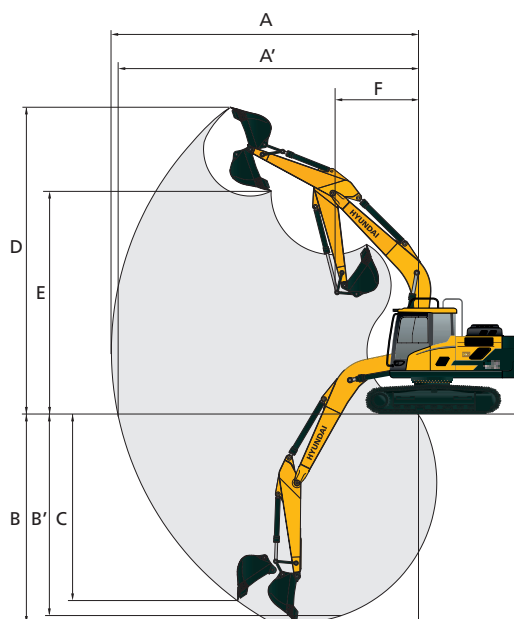
Unit : mm (ft-in)

A	Tumbler distance	3,170 (10' 5")
B	Overall length of crawler	3,926 (12' 11")
C	Ground clearance of counterweight	1,055 (3' 6")
D	Tail swing radius	2,480 (8' 2")
D'	Rear-end length	2,480 (8' 2")
E	Overall width of upperstructure	2,475 (8' 1")
F	Overall height of cab	2,980 (9' 9")
G	Min. ground clearance	460 (1' 6")
H	Track gauge	1,990 (6' 6")
I	Overall height of guardrail	3,220 (10' 6")

Boom length		5,100 (16' 9")	
Arm length	2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")
J	Overall length	8,660 (28' 5")	8,650 (28' 5")
K	Overall height of boom	3,010 (9' 11")	2,990 (9' 10")
L	Track shoe width	500 (20")	600 (24")
M	Overall width	2,490 (8' 2")	2,590 (8' 6")

HX160 L MONO-BOOM WORKING RANGE

Unit : mm (ft-in)



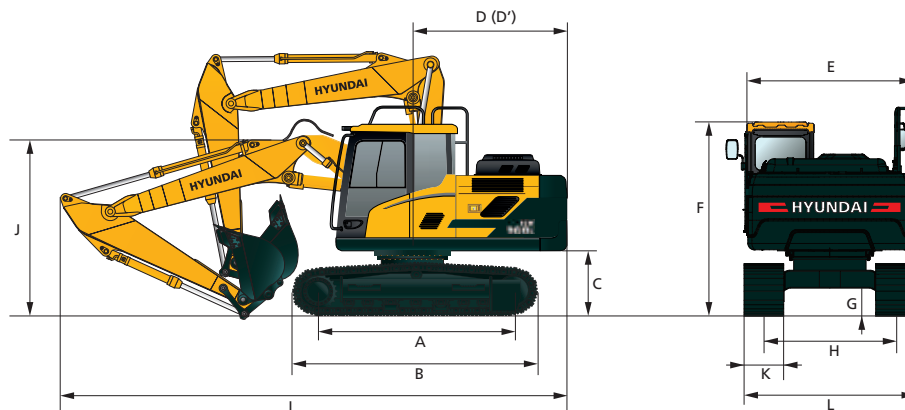
Boom length		5,100 (16' 9")	
Arm length	2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")
A	Max. digging reach	8,690 (28' 6")	9,020 (29' 7")
A'	Max. digging reach on ground	8,530 (27' 12")	8,860 (29' 1")
B	Max. digging depth	5,660 (18' 7")	6,060 (19' 11")
B'	Max. digging depth (8' level)	5,430 (17' 10")	5,850 (19' 2")
C	Max. vertical wall digging depth	5,120 (16' 10")	5,380 (17' 8")
D	Max. digging height	8,750 (28' 8")	8,840 (29' 0")
E	Max. dumping height	6,110 (20' 1")	6,220 (20' 5")
F	Min. front swing radius	3,180 (10' 5")	3,170 (10' 5")

DIMENSIONS & WORKING RANGE

HX160 L

HX160 L 2-PIECE BOOM DIMENSIONS

5.1 m (16' 9") 2-piece boom and 2.2 m (7' 3"); 2.6 m (8' 6") & 3.1 m (10' 2") Arm.



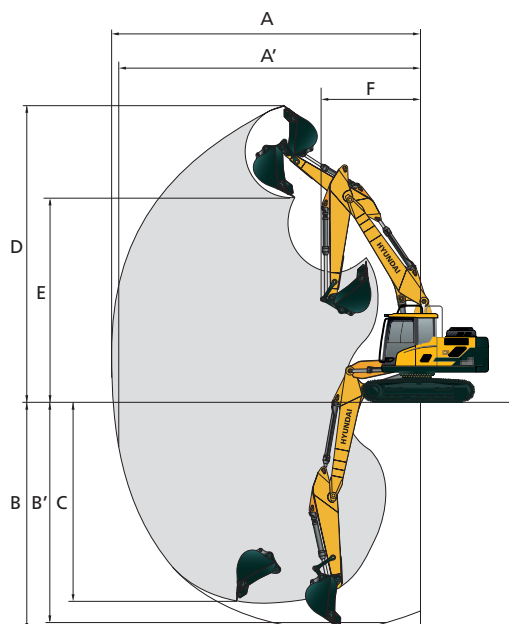
Unit : mm (ft-in)

A	Tumbler distance	3,170 (10' 5")
B	Overall length of crawler	3,926 (12' 11")
C	Ground clearance of counterweight	1,055 (3' 6")
D	Tail swing radius	2,480 (8' 2")
D'	Rear-end length	2,480 (8' 2")
E	Overall width of upperstructure	2,475 (8' 1")
F	Overall height of cab	2,980 (9' 9")
G	Min. ground clearance	460 (1' 6")
H	Track gauge	1,990 (6' 6")

Boom length	5,100 (16' 9")	
Arm length	2,200 (7' 3")	2,600 (8' 6")
I	Overall length	8,610 (28' 3")
J	Overall height of boom	3,040 (9' 12")
K	Track shoe width	500 (20")
		600 (24")
		700 (28")
L	Overall width	2,490 (8' 2")
		2,590 (8' 6")
		2,690 (8' 10")

HX160 L 2-PIECE BOOM WORKING RANGE

Unit : mm (ft-in)



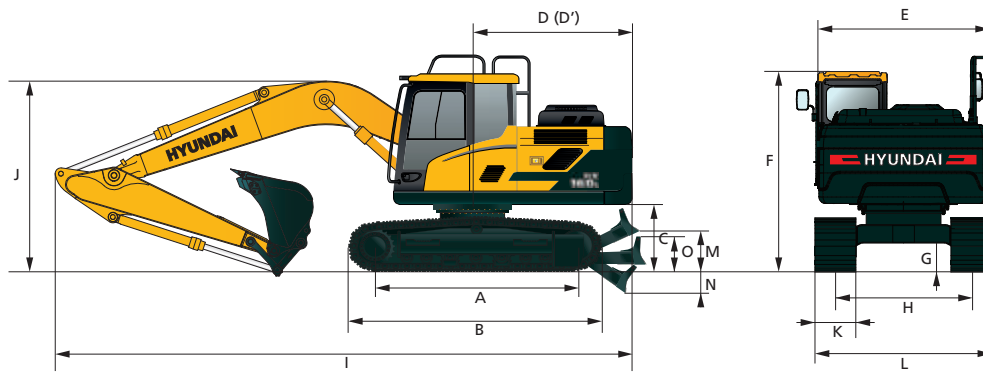
Boom length	5,100 (16' 9") 2-piece boom	
Arm length	2,200 (7' 3")	2,600 (8' 6")
A	Max. digging reach	8,760 (28' 9")
A'	Max. digging reach on ground	8,590 (28' 2")
B	Max. digging depth	5,430 (17' 6")
B'	Max. digging depth (8' level)	5,330 (17' 6")
C	Max. vertical wall digging depth	4,630 (15' 2")
D	Max. digging height	9,420 (30' 11")
E	Max. dumping height	6,710 (22' 0")
F	Min. front swing radius	3,100 (10' 2")
		2,970 (9' 9")

DIMENSIONS & WORKING RANGE

HX160 L

HX160 LD MONO-BOOM DIMENSIONS

5.1 m (16' 9") Mono-boom and 2.2 m (7' 3"); 2.6 m (8' 6") & 3.1 m (10' 2") Arm.



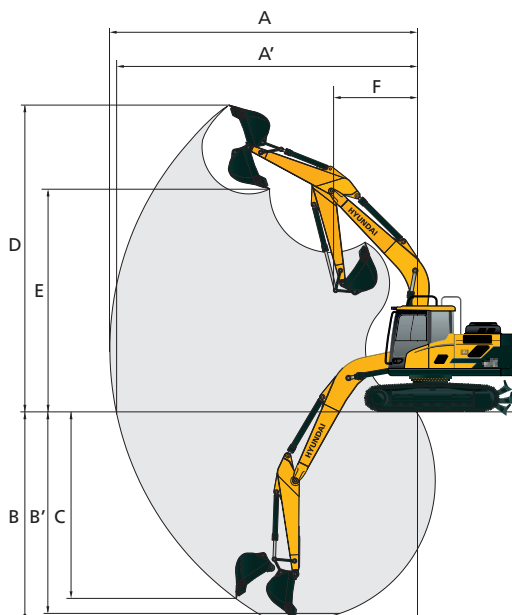
Unit : mm (ft-in)

A	Tumbler distance	3,170 (10' 5")
B	Overall length of crawler	3,926 (12' 11")
C	Ground clearance of counterweight	1,055 (3' 6")
D	Tail swing radius	2,480 (8' 2")
D'	Rear-end length	2,480 (8' 2")
E	Overall width of upperstructure	2,475 (8' 1")
F	Overall height of cab	2,980 (9' 9")
G	Min. ground clearance	460 (1' 6")
H	Track gauge	1,990 (6' 6")
M	Ground clearance of Dozer blade up	615 (2' 0")
N	Depth of dozer blade down	675 (2' 3")
O	Height of dozer blade	645 (2' 1")

Boom length		5,100 (16' 9")	
Arm length	2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")
I Overall length	9,110 (29' 11")	9,100 (29' 10")	9,100 (29' 10")
J Overall height of boom	3,010 (9' 11")	2,990 (9' 10")	3,150 (10' 4")
K Track shoe width	500 (20")	600 (24")	700 (28")
L Overall width	2,490 (8' 2")	2,590 (8' 6")	2,690 (8' 10")

HX160 LD MONO-BOOM WORKING RANGE

Unit : mm (ft-in)



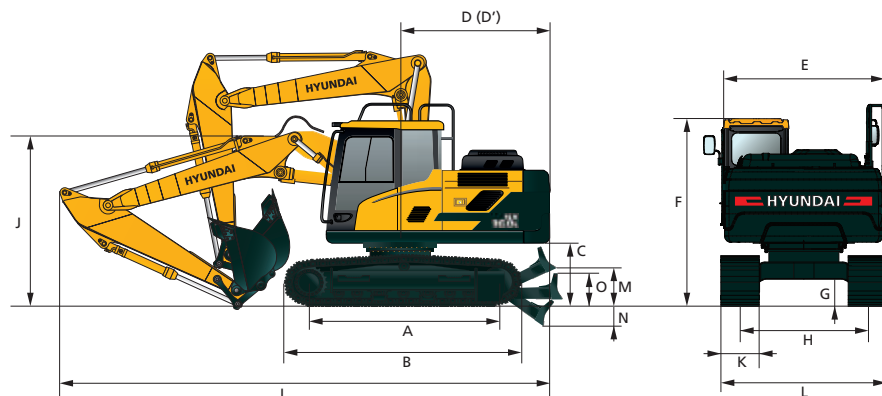
Boom length		5,100 (16' 9")	
Arm length	2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")
A Max. digging reach	8,690 (28' 6")	9,020 (29' 7")	9,450 (31' 0")
A' Max. digging reach on ground	8,530 (27' 12")	8,860 (29' 1")	9,300 (30' 6")
B Max. digging depth	5,660 (18' 7")	6,060 (19' 11")	6,560 (21' 6")
B' Max. digging depth (8' level)	5,430 (17' 10")	5,850 (19' 2")	6,370 (20' 11")
C Max. vertical wall digging depth	5,120 (16' 10")	5,380 (17' 8")	5,710 (18' 9")
D Max. digging height	8,750 (28' 8")	8,840 (29' 0")	8,980 (29' 6")
E Max. dumping height	6,110 (20' 1")	6,220 (20' 5")	6,390 (21' 0")
F Min. front swing radius	3,180 (10' 5")	3,170 (10' 5")	3,170 (10' 5")

DIMENSIONS & WORKING RANGE

HX160 L

HX160 LD 2-PIECE BOOM DIMENSIONS

5.1 m (16' 9") 2-piece boom and 2.2 m (7' 3"); 2.6 m (8' 6") & 3.1 m (10' 2") Arm.



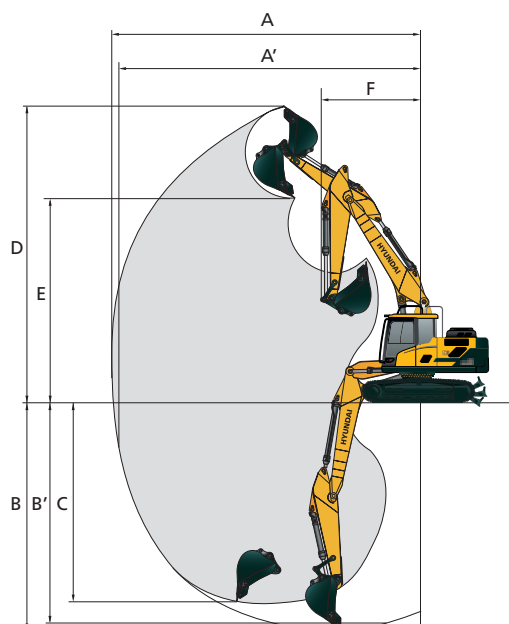
Unit : mm (ft-in)

A	Tumbler distance	3,170 (10' 5")
B	Overall length of crawler	3,926 (12' 11")
C	Ground clearance of counterweight	1,055 (3' 6")
D	Tail swing radius	2,530 (8' 4")
D'	Rear-end length	2,480 (8' 2")
E	Overall width of upperstructure	2,475 (8' 1")
F	Overall height of cab	2,980 (9' 9")
G	Min. ground clearance	460 (1' 6")
H	Track gauge	1,990 (6' 6")
M	Ground clearance of Dozer blade up	615 (2' 0")
N	Depth of dozer blade down	675 (2' 3")
O	Height of dozer blade	645 (2' 1")

Boom length	5,100 (16' 9")	
Arm length	2,200 (7' 3")	2,600 (8' 6")
I	Overall length	9,080 (29' 9")
J	Overall height of boom	3,040 (9' 12")
K	Track shoe width	500 (20")
		600 (24")
		700 (28")
L	Overall width	2,490 (8' 2")
		2,590 (8' 6")
		2,690 (8' 10")

HX160 LD 2-PIECE BOOM WORKING RANGE

Unit : mm (ft-in)



Boom length	5,100 (16' 9") 2-piece boom	
Arm length	2,200 (7' 3")	2,600 (8' 6")
A	Max. digging reach	8,760 (28' 9")
A'	Max. digging reach on ground	8,590 (28' 2")
B	Max. digging depth	5,430 (17' 6")
B'	Max. digging depth (8' level)	5,330 (17' 6")
C	Max. vertical wall digging depth	4,630 (15' 2")
D	Max. digging height	9,420 (30' 11")
E	Max. dumping height	6,710 (22' 0")
F	Min. front swing radius	3,100 (10' 2")
		2,970 (9' 9")

LIFTING CAPACITY

HX160 L

 Rating over-front  Rating over-side or 360 degrees

HX160 L MONO-BOOM

Boom: 5.1 m (16' 9") / Arm: 2.2 m (7' 3") / Bucket: 0.70 m³ SAE heaped / Shoe: 600 mm (24") triple grouser.

Load point height m (ft)		Load radius								At max. reach	
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity	
											
7.5 m (25 ft)	kg									*3720	3710
	lb									*8200	8180
6.0 m (20 ft)	kg									*3630	2490
	lb									*8000	5490
4.5 m (15 ft)	kg					*4550	*4550	*4080	3160	3280	2000
	lb					*10030	*10030	*8990	6970	7230	4410
3.0 m (10 ft)	kg			*9070	9020	*5760	4790	*4570	3030	2960	1780
	lb			*20000	19890	*12700	10560	*10080	6680	6530	3920
1.5 m (5 ft)	kg					*7000	4430	4750	2870	2880	1710
	lb					*15430	9770	10470	6330	6350	3770
Ground Line	kg			*7150	*7150	7290	4220	4620	2750	3010	1790
	lb			*15760	*15760	16070	9300	10190	6060	6640	3950
-1.5 m (-5 ft)	kg	*7060	*7060	*11180	7930	7220	4150	4570	2700	3430	2050
	lb	*15560	*15560	*24650	17480	15920	9150	10080	5950	7560	4520
-3.0 m (-10 ft)	kg	*11250	*11250	*9590	8080	*6640	4210			*3720	2730
	lb	*24800	*24800	*21140	17810	*14640	9280			*8200	6020
-4.5 m (-15 ft)	kg			*6230	*6230						
	lb			*13730	*13730						

Boom: 5.1 m (16' 9") / Arm: 2.6 m (8' 6") / Bucket: 0.70 m³ SAE heaped / Shoe: 600 mm (24") triple grouser.

Load point height m (ft)		Load radius								At max. reach	
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)	
											
7.5 m (25 ft)	kg									*3360	3220
	lb									*7410	7100
6.0 m (20 ft)	kg							*3000	*3000	*3330	2260
	lb							*6610	*6610	*7340	4980
4.5 m (15 ft)	kg							*3740	3190	3030	1830
	lb							*8250	7030	6680	4030
3.0 m (10 ft)	kg			*7880	*7880	*5280	4840	*4270	3030	2760	1630
	lb			*17370	*17370	*11640	10670	*9410	6680	6080	3590
1.5 m (5 ft)	kg			*8140	*8140	*6620	4450	4740	2860	2680	1570
	lb			*17950	*17950	*14590	9810	10450	6310	5910	3460
Ground Line	kg			*7930	7850	7270	4190	4590	2720	2780	1620
	lb			*17480	17310	16030	9240	10120	6000	6130	3570
-1.5 m (-5 ft)	kg	*6740	*6740	*10710	7810	7150	4090	4510	2650	3120	1840
	lb	*14860	*14860	*23610	17220	15760	9020	9940	5840	6880	4060
-3.0 m (-10 ft)	kg	*10010	*10010	*10240	7930	*6930	4120	4540	2670	*3720	2380
	lb	*22070	*22070	*22580	17480	*15280	9080	10010	5890	*8200	5250
-4.5 m (-15 ft)	kg			*7440	*7440	*4920	4300				
	lb			*16400	*16400	*10850	9480				

Boom: 5.1 m (16' 9") / Arm: 3.10 m (11' 1") / Bucket: 0.70 m³ SAE heaped / Shoe: 600 mm (24") triple grouser.

Load point height m (ft)		Load radius								At max. reach	
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)	
											
7.5 m (25 ft)	kg									*2970	2730
	lb									*6550	6020
6.0 m (20 ft)	kg							*2840	*2840	*3000	1990
	lb							*6260	*6260	*6610	4390
4.5 m (15 ft)	kg							*3320	3220	*2110	2100
	lb							*7320	7100	*4650	4630
3.0 m (10 ft)	kg					*4680	*4680	*3900	3050	*3070	2030
	lb					*10320	*10320	*8600	6720	*6770	4480
1.5 m (5 ft)	kg			*10180	8460	*6130	4510	*4590	2860	3280	1940
	lb			*22440	18650	*13510	9940	*10120	6310	7230	4280
Ground Line	kg			*8700	7860	*7180	4190	4570	2690	3190	1860
	lb			*19180	17330	*15830	9240	10080	5930	7030	4100
-1.5 m (-5 ft)	kg	*6330	*6330	*10350	7720	7100	4040	4460	2600	3150	1820
	lb	*13960	*13960	*22820	17020	15650	8910	9830	5730	6940	4010
-3.0 m (-10 ft)	kg	*8980	*8980	*10860	7780	7080	4020	4450	2590		
	lb	*19800	*19800	*23940	17150	15610	8860	9810	5710		
-4.5 m (-15 ft)	kg	*12460	*12460	*8600	8000	*5760	4140			*3340	3150
	lb	*27470	*27470	*18960	17640	*12700	9130			*7360	6940

LIFTING CAPACITY

HX160 L

 Rating over-front  Rating over-side or 360 degrees

HX160 L 2-PIECE BOOM

2-piece boom: 5.1 m (16' 9") / Arm: 2.2 m (7' 3") / Bucket: 0.70 m³ SAE heaped / Shoe: 600 mm (24") triple grouser.

Load point height m (ft)		Load radius										At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach
														m (ft)
6.0 m (20 ft)	kg lb											*3700 *8160	2410 5310	7.06 (23.2)
4.5 m (15 ft)	kg lb							*4130 *9110	3160 6970			3230 7120	1940 4280	7.83 (25.7)
3.0 m (10 ft)	kg lb					*5820 *12830	4780 10540	*4580 *10100	3010 6640			2920 6440	1720 3790	8.21 (26.9)
1.5 m (5 ft)	kg lb					*6960 *15340	4400 9700	4770 10520	2840 6260	3320 7320	1950 4300	2850 6280	1660 3660	8.27 (27.1)
Ground Line	kg lb			*6240 *13760	*6240 *13760	7310 16120	4170 9190	4630 10210	2720 6000			2980 6570	1740 3840	8.01 (26.3)
-1.5 m (-5 ft)	kg lb	*6240 *13760	*6240 *13760	*10380 *22880	7870 17350	7240 15960	4110 9060	4580 10100	2680 5910			3400 7500	2010 4430	7.39 (24.2)
-3.0 m (-10 ft)	kg lb			*9100 *20060	8060 17770	*6360 *14020	4190 9240					*3250 *7170	2680 5910	6.28 (20.6)

2-piece boom: 5.1 m (16' 9") / Arm: 2.6 m (8' 6") / Bucket: 0.70 m³ SAE heaped / Shoe: 600 mm (24") triple grouser.

Load point height m (ft)		Load radius										At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach
														m (ft)
6.0 m (20 ft)	kg lb											*3400 *7500	2170 4780	7.48 (24.5)
4.5 m (15 ft)	kg lb											2980 6570	1770 3900	8.20 (26.9)
3.0 m (10 ft)	kg lb							*4330 *9480	3020 6660	*3200 *7050	2010 4430	2710 5970	1580 3480	8.57 (28.1)
1.5 m (5 ft)	kg lb			*7030 *15500	*7030 *15500	*6610 *14570	4420 9740	4760 10490	2830 6240	3300 7280	1940 4280	2640 5820	1520 3350	8.62 (28.3)
Ground Line	kg lb			*7090 *15630	*7090 *15630	7280 16050	4150 9150	4600 10140	2680 5910	3230 7120	1870 4120	2740 6040	1570 3460	8.37 (27.5)
-1.5 m (-5 ft)	kg lb	*6070 *13380	*6070 *13380	*10000 *22050	7730 17040	7160 15790	4040 8910	4520 9960	2610 5750			3080 6790	1790 3950	7.78 (25.5)
-3.0 m (-10 ft)	kg lb	*9540 *21030	*9540 *21030	*9800 *21610	7880 17370	*6680 *14730	4080 8990	4560 10050	2650 5840			*3290 *7250	2320 5110	6.76 (22.2)
-4.5 m (-15 ft)	kg lb			*6780 *14950	*6780 *14950	*4510 *9940	4290 9460							

1. Lifting capacity are based on SAE J1097 and ISO 10567.

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

3. The load point is a hook located on the back of the bucket.

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

LIFTING CAPACITY

HX160 L

 Rating over-front  Rating over-side or 360 degrees

HX160 LD MONO-BOOM

Boom: 5.1 m (16' 9") / Arm: 2.2 m (7' 3") / Bucket: 0.70 m³ SAE heaped / Shoe: 600 mm (24") triple grouser.

Load point height m (ft)		Load radius								At max. reach	
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity	
											
7.5 m (25 ft)	kg									*3720	*3720
	lb									*8200	*8200
6.0 m (20 ft)	kg									*3630	2600
	lb									*8000	5730
4.5 m (15 ft)	kg					*4550	*4550	*4080	3290	3580	2100
	lb					*10030	*10030	*8990	7250	7890	4630
3.0 m (10 ft)	kg			*9070	*9070	*5760	4980	*4570	3160	3250	1870
	lb			*20000	*20000	*12700	10980	*10080	6970	7170	4120
1.5 m (5 ft)	kg					*7000	4620	*5130	3000	3170	1800
	lb					*15430	10190	*11310	6610	6990	3970
Ground Line	kg			*7150	*7150	*7650	4410	5050	2880	3310	1880
	lb			*15760	*15760	*16870	9720	11130	6350	7300	4140
-1.5 m (-5 ft)	kg	*7060	*7060	*11180	8260	*7560	4340	5000	2840	3760	2150
	lb	*15560	*15560	*24650	18210	*16670	9570	11020	6260	8290	4740
-3.0 m (-10 ft)	kg	*11250	*11250	*9590	8420	*6640	4400			*3720	2860
	lb	*24800	*24800	*21140	18560	*14640	9700			*8200	6310
-4.5 m (-15 ft)	kg			*6230	*6230						
	lb			*13730	*13730						

Boom: 5.1 m (16' 9") / Arm: 2.6 m (8' 6") / Bucket: 0.70 m³ SAE heaped / Shoe: 600 mm (24") triple grouser.

Load point height m (ft)		Load radius								At max. reach	
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)	
											
7.5 m (25 ft)	kg									*3360	3350
	lb									*7410	7390
6.0 m (20 ft)	kg							*3000	*3000	*3330	2360
	lb							*6610	*6610	*7340	5200
4.5 m (15 ft)	kg							*3740	3320	3330	1930
	lb							*8250	7320	7340	4250
3.0 m (10 ft)	kg			*7880	*7880	*5280	5030	*4270	3160	3030	1720
	lb			*17370	*17370	*11640	11090	*9410	6970	*6150	4720
1.5 m (5 ft)	kg			*8140	*8140	*6620	4640	*4890	2990	2950	1660
	lb			*17950	*17950	*14590	10230	*10780	6590	6500	3660
Ground Line	kg			*7930	*7930	*7460	4380	5020	2850	*3450	2000
	lb			*17480	*17480	*16450	9660	11070	6280	*7610	4410
-1.5 m (-5 ft)	kg	*6740	*6740	*10710	8150	*7590	4280	4940	2780	3440	1940
	lb	*14860	*14860	*23610	17970	*16730	9440	10890	6130	7580	4280
-3.0 m (-10 ft)	kg	*10010	*10010	*10240	8260	*6930	4310	*4840	2800	*3720	2490
	lb	*22070	*22070	*22580	18210	*15280	9500	*10670	6170	*8200	5490
-4.5 m (-15 ft)	kg			*7440	*7440	*4920	4490				
	lb			*16400	*16400	*10850	9900				

Boom: 5.1 m (16' 9") / Arm: 3.10 m (11' 1") / Bucket: 0.70 m³ SAE heaped / Shoe: 600 mm (24") triple grouser.

Load point height m (ft)		Load radius								At max. reach	
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)	
											
7.5 m (25 ft)	kg									*2970	2840
	lb									*6550	6260
6.0 m (20 ft)	kg							*2840	*2840	*3000	2080
	lb							*6260	*6260	*6610	4590
4.5 m (15 ft)	kg							*3320	*3320	*2110	*2110
	lb							*7320	*7320	*4650	*4650
3.0 m (10 ft)	kg					*4680	*4680	*3900	3180	*3070	2140
	lb					*10320	*10320	*8600	7010	*6770	4720
1.5 m (5 ft)	kg			*10180	8790	*6130	4690	*4590	2990	3600	2040
	lb			*22440	19380	*13510	10340	*10120	6590	7940	4500
Ground Line	kg			*8700	8200	*7180	4380	5000	2820	3510	1960
	lb			*19180	18080	*15830	9660	11020	6220	7740	4320
-1.5 m (-5 ft)	kg	*6330	*6330	*10350	8050	*7550	4230	4890	2730	*3210	1920
	lb	*13960	*13960	*22820	17750	*16640	9330	10780	6020	*7080	4230
-3.0 m (-10 ft)	kg	*8980	*8980	*10860	8110	*7170	4210	4880	2720		
	lb	*19800	*19800	*23940	17880	*15810	9280	10760	6000		
-4.5 m (-15 ft)	kg	*12460	*12460	*8600	8340	*5760	4330				
	lb	*27470	*27470	*18960	18390	*12700	9550				

LIFTING CAPACITY

HX160 L



Rating over-front



Rating over-side or 360 degrees

HX160 LD 2-PIECE BOOM

2-piece boom: 5.1 m (16' 9") / Arm: 2.2 m (7' 3") / Bucket: 0.70 m³ SAE heaped / Shoe: 600 mm (24") triple grouser.

Load point height m (ft)		Load radius										At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach
														m (ft)
6.0 m (20 ft)	kg lb											*3700 *8160	2520 5560	7.06 (23.2)
4.5 m (15 ft)	kg lb							*4130 *9110	3290 7250			3530 7780	2030 4480	7.83 (25.7)
3.0 m (10 ft)	kg lb					*5820 *12830	4970 10960	*4580 *10100	3140 6920			3210 7080	1810 3990	8.21 (26.9)
1.5 m (5 ft)	kg lb					*6960 *15340	4590 10120	*5090 *11220	2970 6550	*3410 *7520	2050 4520	3130 6900	1750 3860	8.27 (27.1)
Ground Line	kg lb			*6240 *13760	*6240 *13760	*7540 *16620	4360 9610	5060 11160	2850 6280			3280 7230	1840 4060	8.01 (26.3)
-1.5 m (-5 ft)	kg lb	*6240 *13760	*6240 *13760	*10380 *22880	8200 18080	*7380 *16270	4300 9480	5010 11050	2810 6190			*3660 *8070	2110 4650	7.39 (24.2)
-3.0 m (-10 ft)	kg lb			*9100 *20060	8390 18500	*6360 *14020	4380 9660					*3250 *7170	2800 6170	6.28 (20.6)

2-piece boom: 5.1 m (16' 9") / Arm: 2.6 m (8' 6") / Bucket: 0.70 m³ SAE heaped / Shoe: 600 mm (24") triple grouser.

Load point height m (ft)		Load radius										At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach
														m (ft)
6.0 m (20 ft)	kg lb											*3400 *7500	2280 5030	7.48 (24.5)
4.5 m (15 ft)	kg lb											3270 7210	1860 4100	8.20 (26.9)
3.0 m (10 ft)	kg lb							*4330 *9480	3150 6940	*3200 *7050	2120 4670	2980 6570	1660 3660	8.57 (28.1)
1.5 m (5 ft)	kg lb			*7030 *15500	*7030 *15500	*6610 *14570	4620 10190	*4870 *10740	2960 6530	3620 7980	2040 4500	2910 6420	1600 3530	8.62 (28.3)
Ground Line	kg lb			*7090 *15630	*7090 *15630	*7370 *16250	4340 9570	5030 11090	2820 6220	3550 7830	1970 4340	3020 6660	1670 3680	8.37 (27.5)
-1.5 m (-5 ft)	kg lb	*6070 *13380	*6070 *13380	*10000 *22050	8080 17810	*7430 *16380	4240 9350	4950 10910	2750 6060			3390 7470	1890 4170	7.78 (25.5)
-3.0 m (-10 ft)	kg lb	*9540 *21030	*9540 *21030	*9810 *21630	8220 18120	*6680 *14730	4270 9410	*4650 *10250	2790 6150			*3300 *7280	2430 5360	6.76 (22.2)
-4.5 m (-15 ft)	kg lb			*6790 *14970	*6790 *14970	*4520 *9960	4480 9880							

1. Lifting capacity are based on SAE J1097 and ISO 10567.

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

3. The load point is a hook located on the back of the bucket.

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

ENGINE	STD	OPT
Perkins 1204F 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	●	
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		●
Three outside rearview mirrors	●	
OTHER		
Booms		
5.1 m; 16' 9"	●	
5.1 m; 16' 9" 2-piece boom		●
Arms		
2.2 m; 7' 3"		●
2.6 m; 8' 6"	●	
3.1 m; 10' 2"		●
Removable clean-out dust net for cooler	●	
Removable reservoir tank	●	
Fuel pre-filter	●	
Self-diagnostics system	●	
Hi-mate (Remote Management System)	●	
Batteries (2 × 12 V × 100 Ah)	●	
Fuel filler pump (50 ℓ/min)		●
Single-acting piping kit (breaker, etc.)		●
Double-acting piping kit (clamshell, etc.)	●	
Rotating Piping Kit		●
Quick coupler piping		●
Quick coupler		●
Boom floating control		●
Accumulator for lowering work equipment	●	
Pattern change valve (2 patterns)		●
Fine Swing Control System		●
Tool kit		●
UNDERCARRIAGE		
Lower frame under cover (Additional)		●
Lower frame under cover (Normal)	●	
Track shoes		
Triple grouser shoes (500 mm; 20")		●
Triple grouser shoes (600 mm; 24")	●	
Triple grouser shoes (700 mm; 28")		●
Track rail guard	●	
Full track rail guard		●

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.