6.1 GENERAL SPECIFICATIONS

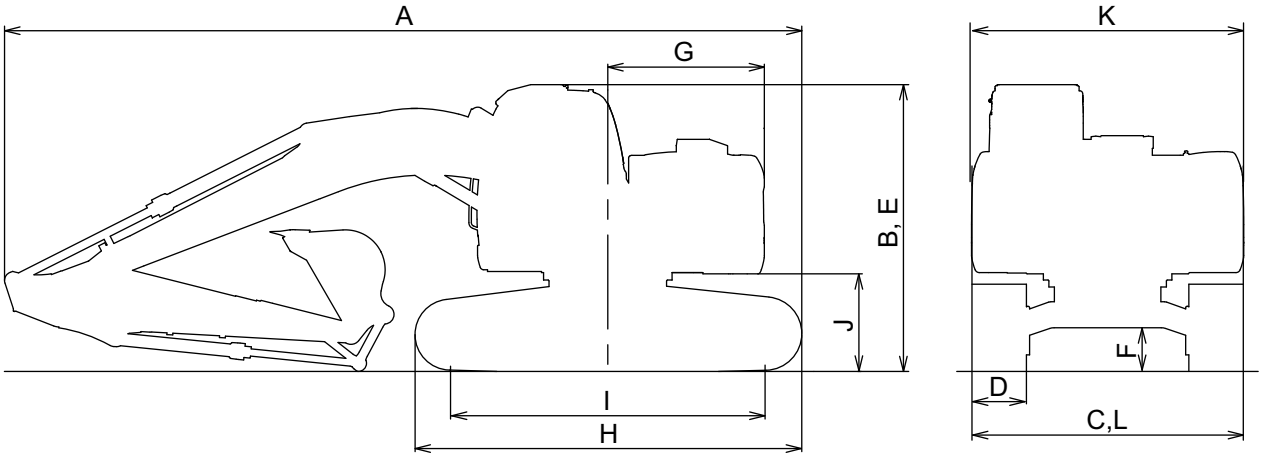
6.1.1 SK140SRLC-7

	Item		Unit	SK140SRLC-7
	Operating mass		kg (lb)	15,400 (33,960)
	Bucket capacity		m^3 (cu·yd)	0.5 (0.65)
	Engine name		—	ISUZU AR-4JJ1 diesel engine
	Engine rated power	ISO 9249 : With fan	kW/min^{-1} (hp/rpm)	78.6/2,200 (105/2,200)
		ISO 14396 : Without fan		86.0/2,200 (115/2,200)
	CO_2 value	NRTC (Total)*	g/kWh	708.4
A	Overall length		mm (ft.in.)	7,530 (24'8")
B	Overall height		mm (ft.in.)	2,870 (9'5")
C	Overall width		mm (ft.in.)	2,590 (8'6")
D	Track shoe width (Grouser shoe)		mm (inch)	600 (23.6")
E	Cab height		mm (ft.in.)	2,870 (9'5")
F	Minimum ground clearance (excluding lug height)		mm (inch)	425 (16.7")
G	Tail swing radius		mm (ft.in.)	1,490 (4'11")
H	Crawler overall length		mm (ft.in.)	3,780 (12'5")
I	Tumbler center distance		mm (ft.in.)	3,040 (9'12")
J	Clearance height under upper structure (excluding lug height)		mm (inch)	880 (34.6")
K	Overall width of upper structure		mm (ft.in.)	2,480 (8'2")
L	Crawler overall width		mm (ft.in.)	2,590 (8'6")
	Ground contact pressure		kPa(psi)	38 (5.5)
	Swing speed		min^{-1} (rpm)	11.0 (11.0)
	Travel speed (low/high)		km/h(mph)	3.4/5.6 (2.1/3.5)
	Gradeability		% (deg)	70 (35)

* This CO_2 measurement results from testing over a fixed test cycle under laboratory conditions a(n) (parent) engine representative of the engine type (engine family) and shall not imply or express any guarantee of the performance of a particular engine.

Notice

General specifications indicate the specifications of standard machine with the 4.68 m (15'4") boom and the 2.38 m (7'10") arm.
Bucket capacity is indicated by ISO.



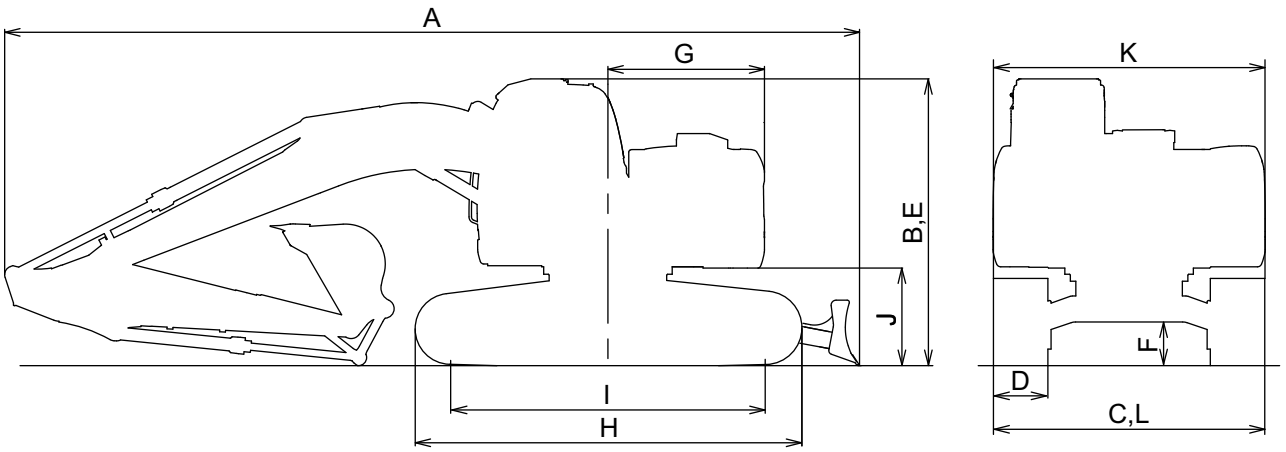
6.1.2 SK140SRLC-7 (WITH DOZER)

	Item		Unit	SK140SRLC-7
	Operating mass		kg (lb)	16,200 (35,720)
	Bucket capacity		m^3 (cu·yd)	0.5 (0.65)
	Engine name		—	ISUZU AR-4JJ1 diesel engine
	Engine rated power	ISO 9249 : With fan	kW/min^{-1} (hp/rpm)	78.6/2,200 (105/2,200)
		ISO 14396 : Without fan		86.0/2,200 (115/2,200)
	CO_2 value	NRTC (Total)*	g/kWh	708.4
A	Overall length		mm (ft.in.)	8,060 (26'5")
B	Overall height		mm (ft.in.)	2,870 (9'5")
C	Overall width		mm (ft.in.)	2,590 (8'6")
D	Track shoe width (Grouser shoe)		mm (inch)	600 (23.6")
E	Cab height		mm (ft.in.)	2,870 (9'5")
F	Minimum ground clearance (excluding lug height)		mm (inch)	410 (16.1")
G	Tail swing radius		mm (ft.in.)	1,490 (4'11")
H	Crawler overall length		mm (ft.in.)	3,780 (12'5")
I	Tumbler center distance		mm (ft.in.)	3,040 (9'12")
J	Clearance height under upper structure (excluding lug height)		mm (inch)	880 (34.6")
K	Overall width of upper structure		mm (ft.in.)	2,480 (8'2")
L	Crawler overall width		mm (ft.in.)	2,590 (8'6")
	Ground contact pressure		kPa(psi)	40 (5.8)
	Swing speed		min^{-1} (rpm)	11.0 (11.0)
	Travel speed (low/high)		km/h(mph)	3.4/5.6 (2.1/3.5)
	Gradeability		% (deg)	70 (35)

* This CO_2 measurement results from testing over a fixed test cycle under laboratory conditions a(n) (parent) engine representative of the engine type (engine family) and shall not imply or express any guarantee of the performance of a particular engine.

Notice

General specifications indicate the specifications of standard machine with the 4.68 m (15'4") boom and the 2.38 m (7'10") arm.
Bucket capacity is indicated by ISO.



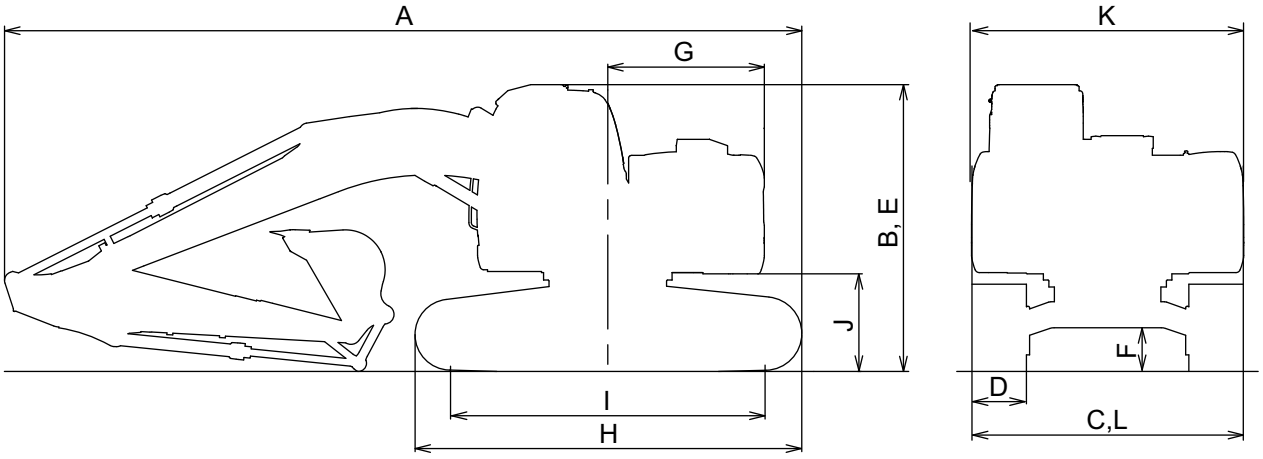
6.1.3 SK140SRL-7

	Item		Unit	SK140SRLC-7
	Operating mass		kg (lb)	17,100 (37,710)
	Bucket capacity		m^3 (cu·yd)	0.5 (0.65)
	Engine name		—	ISUZU AR-4JJ1 diesel engine
	Engine rated power	ISO 9249 : With fan	kW/min^{-1} (hp/rpm)	78.6/2,200 (105/2,200)
		ISO 14396 : Without fan		86.0/2,200 (115/2,200)
	CO_2 value	NRTC (Total)*	g/kWh	708.4
A	Overall length		mm (ft.in.)	7,460 (24'6")
B	Overall height		mm (ft.in.)	3,050 (10'0")
C	Overall width		mm (ft.in.)	2,840 (9'4")
D	Track shoe width (Grouser shoe)		mm (inch)	800 (31.5")
E	Cab height		mm (ft.in.)	3,050 (10'0")
F	Minimum ground clearance (excluding lug height)		mm (inch)	580 (22.8")
G	Tail swing radius		mm (ft.in.)	1,490 (4'11")
H	Crawler overall length		mm (ft.in.)	3,790 (12'5")
I	Tumbler center distance		mm (ft.in.)	2,990 (9'10")
J	Clearance height under upper structure (excluding lug height)		mm (inch)	1,060 (3'6")
K	Overall width of upper structure		mm (ft.in.)	2,480 (8'2")
L	Crawler overall width		mm (ft.in.)	2,840 (9'4")
	Ground contact pressure		kPa(psi)	32 (4.6)
	Swing speed		min^{-1} (rpm)	11.0 (11.0)
	Travel speed (low/high)		km/h(mph)	3.0/5.3 (1.9/3.3)
	Gradeability		% (deg)	70 (35)

* This CO_2 measurement results from testing over a fixed test cycle under laboratory conditions a(n) (parent) engine representative of the engine type (engine family) and shall not imply or express any guarantee of the performance of a particular engine.

Notice

General specifications indicate the specifications of standard machine with the 4.68 m (15'4") boom and the 2.38 m (7'10") arm.
Bucket capacity is indicated by ISO.



6.2 SHOE TYPES AND USES

Notice

- Never use the shoes other than the grouser shoe of 500 mm (19.7”) in the working site where a lot of rocks, debris, and/or downed trees exist.
  Traveling and digging work in the working site where a lot of rocks, debris, and/or downed trees exist could cause bending of shoes and looseness of shoe bolts and also cause damages to other travel system components (link, roller, etc.).
- The attachment is with a 2.38m(7'10") arm and a 0.50m^3(0.65cu·yd) (heaped) bucket.
- The dimensions marked with * do not include height of shoe lug.

6.2.1 SK140SRLC-7

Type		Grouser shoe		
		500 (19.7")	600 (23.6")	700 (27.6")
Use		For ordinary soil	For soft soil	For soft soil
		(Option)	(Standard)	(Option)
Body specification	Operating mass kg (lb)	15,100 (33,300)	15,400 (33,960)	15,600 (34,400)
	Machine mass kg (lb)	12,200 (26,900)	12,500 (27,560)	12,700 (28,000)
	Cab height mm (ft-in)	2,870 (9'5")	←	←
	*Minimum ground clearance mm (inch)	※ 425 (16.7")	←	←
	Crawler overall length mm (ft-in)	3,770 (12'4")	←	←
	Crawler overall width mm (ft-in)	2,490 (8'2")	2,590 (8'6")	2,690 (8'10")
	Ground contact pressure kPa (psi)	45 (6.5)	38 (5.5)	33 (4.8)

6.2.2 SK140SRLC-7 (WITH DOZER)

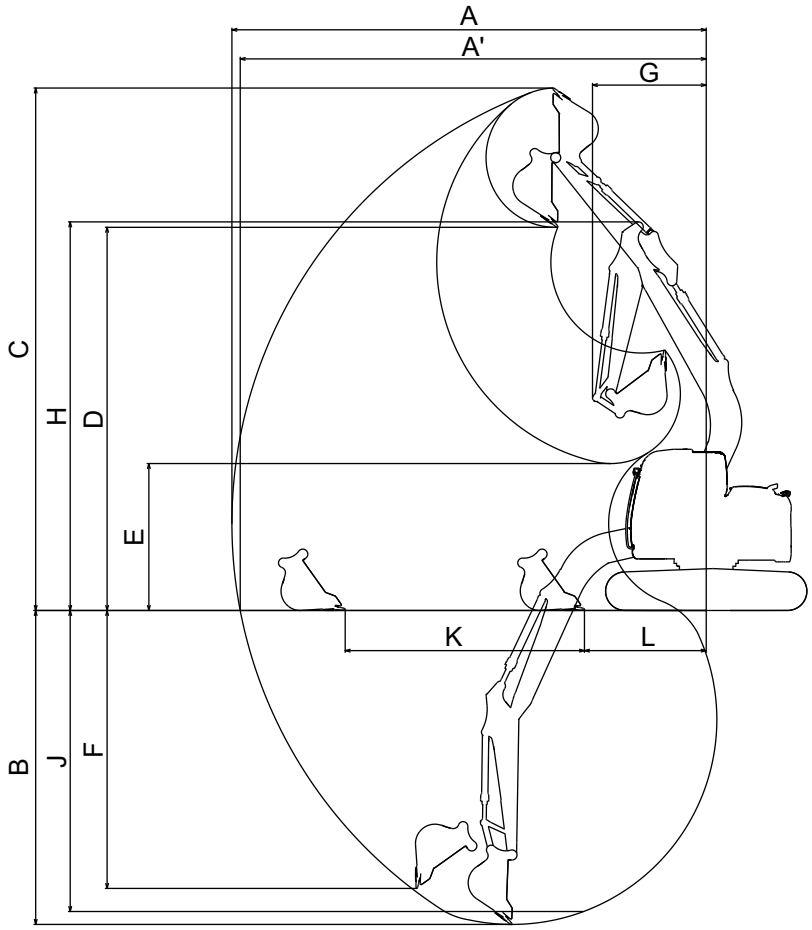
Type		Grouser shoe		
		500 (19.7")	600 (23.6")	700 (27.6")
Use		For ordinary soil	For soft soil	For soft soil
		(Option)	(Standard)	(Option)
Body specification	Operating mass kg (lb)	16,000 (35,280)	16,200 (35,720)	16,500 (36,380)
	Machine mass kg (lb)	12,400 (27,340)	12,600 (27,780)	12,900 (28,450)
	Cab height mm (ft-in)	2,870 (9'5")	←	←
	*Minimum ground clearance mm (inch)	※ 410 (16.1")	←	←
	Crawler overall length mm (ft-in)	3,770 (12'4")	←	←
	Crawler overall width mm (ft-in)	2,490 (8'2")	2,590 (8'6")	2,690 (8'10")
	Ground contact pressure kPa (psi)	48 (7.0)	40 (5.8)	35 (5.0)

6.2.3 SK140SRL-7

Type		Grouser shoe		
		700 (27.6")	800 (31.5")	900 (35.4")
Use		For soft soil	For soft soil	For soft soil
		(Option)	(Standard)	(Option)
Body specification	Operating mass kg (lb)	16,900 (37,270)	17,100 (37,710)	17,400 (38,370)
	Machine mass kg (lb)	14,000 (30,870)	14,200 (31,310)	14,400 (31,750)
	Cab height mm (ft-in)	3,050 (10'0")	←	←
	*Minimum ground clearance mm (inch)	※ 580 (22.8")	←	←
	Crawler overall length mm (ft-in)	3,790 (12'5")	←	←
	Crawler overall width mm (ft-in)	3,740 (8'11.9")	2,840 (9'4")	2,940 (9'8")
	Ground contact pressure kPa (psi)	36 (5.2)	32 (4.6)	29 (4.2)

6.3 WORKING RANGES

6.3.1 BACKHOE ATTACHMENT (SK140SRLC-7)

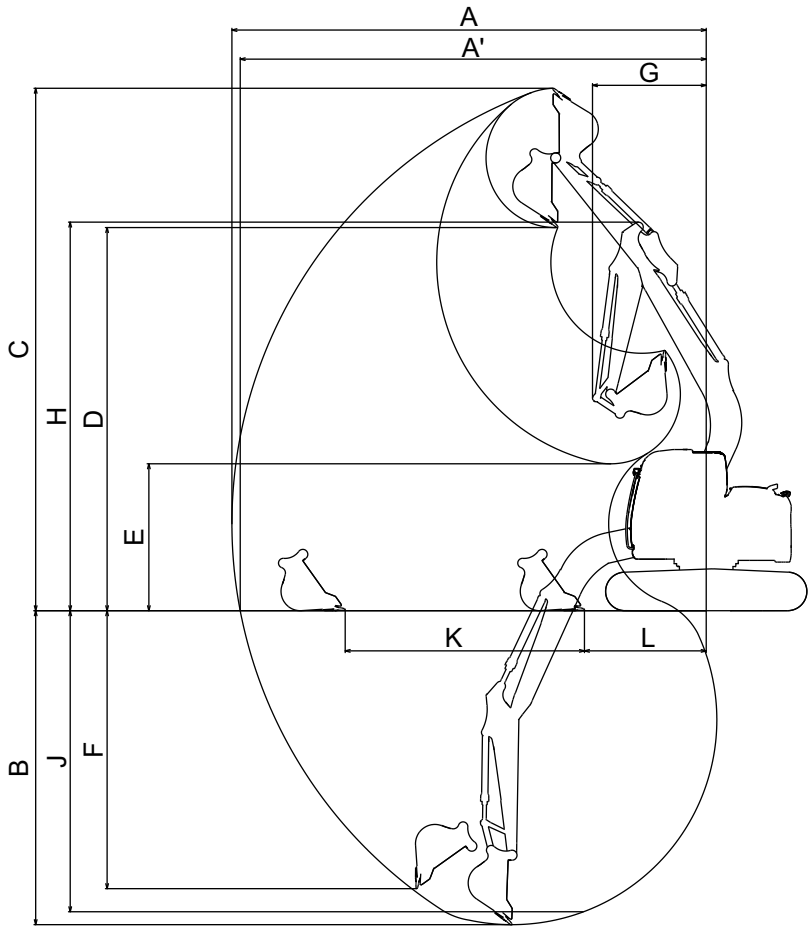


Item	Types of Attachment		2.38 m (7'10") Arm With 0.50m³ (0.65 cu·yd) Bucket	2.84 m (9'4") Arm With 0.38m³ (0.50 cu·yd) Bucket
A	Maximum digging reach		8,370 (27' 6")	8,810 (28' 11")
A'	Maximum reach at ground reference plane		8,210 (26' 11")	8,660 (28' 5")
※B	Maximum digging depth		5,520 (18' 1")	5,980 (19' 7")
※C	Maximum height of cutting edge		9,180 (30' 1")	9,550 (31' 4")
※D	Maximum dumping height		6,750 (22' 2")	7,110 (23' 4")
※E	Minimum dumping height		2,620 (8' 7")	2,250 (7' 5")
※F	Vertical digging depth		4,500 (14' 9")	4,950 (16' 3")
G	Minimum swing radius		2,100 (6' 11")	2,500 (8' 2")
※H	Height at minimum swing radius		6,870 (22' 6")	6,890 (22' 7")
※J	Eight feet level digging depth		5,290 (17' 4")	5,780 (18' 12")
K	Horizontal digging stroke at ground level	Stroke	4,190 (13' 9")	4,670 (15' 4")
L		At minimum	2,180 (7' 2")	2,140 (7' 0")

Notice

The dimensions marked with * do not include height of shoe lug.

6.3.2 BACKHOE ATTACHMENT (SK140SRL-7)



Item	Types of Attachment		2.38 m (7'10") Arm With 0.50m³ (0.65 cu·yd) Bucket
A	Maximum digging reach		8,370 (27' 6")
A'	Maximum reach at ground reference plane		8,170 (26' 10")
※B	Maximum digging depth		5,330 (17' 6")
※C	Maximum height of cutting edge		9,370 (30' 9")
※D	Maximum dumping height		6,940 (22' 9")
※E	Minimum dumping height		2,810 (9'3")
※F	Vertical digging depth		4,310 (14' 2")
G	Minimum swing radius		2,130 (6' 11.9")
※H	Height at minimum swing radius		7,060 (23' 2")
※J	Eight feet level digging depth		5,100 (16' 9")
K	Horizontal digging stroke at ground level	Stroke	4,220 (13' 10")
L		At minimum	2,130 (6' 11.9")

Notice

The dimensions marked with * do not include height of shoe lug.

6.4 ATTACHMENT TYPE AND COMBINATION

6.4.1 FRONT VARIATION

- When a bucket with large capacity is used, it should be used in combination with a short arm so that the machine is stabilized and excessive load to the front part and the cylinders can be avoided.
- When a long boom or arm is used, it should be used in combination with a bucket with small capacity.

WARNING INTERFERENCE BY FRONT ATTACHMENT

Check clearance between the front attachment and the operator's station and other parts of the machine before starting operation because a certain kinds of front attachment and combination of the options installed on the base machine may cause the front attachment to interfere with the operator's station or other parts of the machine.

Notice

- Some installed attachments may cause failures of this machine or the attachment/equipment, voiding the manufacturer's warranty.
  Contact your KOBELCO authorized dealer for the attachment to be installed.
- Before using an inversely installed bucket, check that it does not interfere with the arm because interference can occur during operation and cause damage.

6.5 LIFT CAPACITY

6.5.1 EXPLANATION OF FIGURE

(1)Boom length

(2)Arm length

(3)Distance of load from swing center line

(4)Maximum load (ton) according to tipping limit based on ISO010567 (stability 75 % and hydraulic system 87 %)

(5)Maximum load at each working range from axis of swing

(6)Maximum load at maximum working range from axis of swing

(7)Counterweight

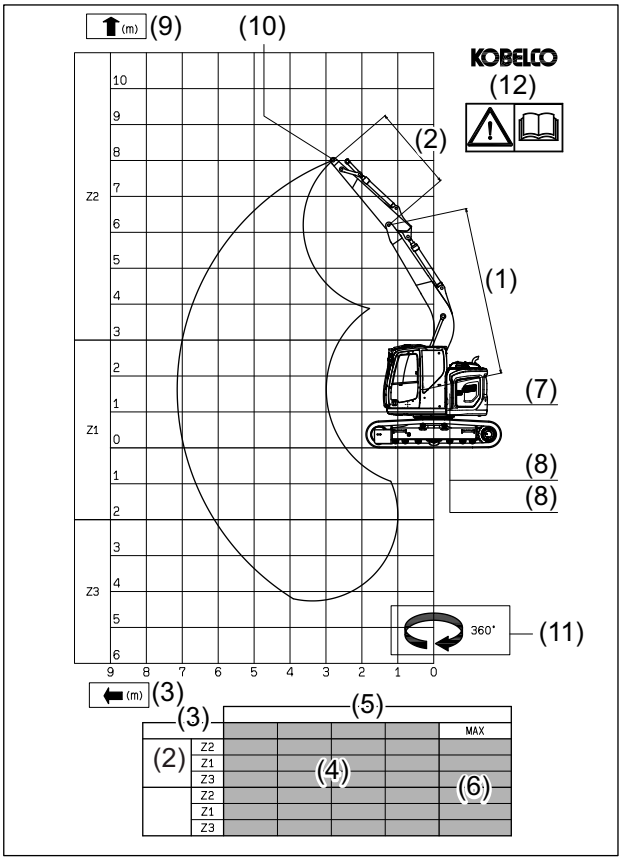
(8)Set pressure of main relief valve/ holding valve in hydraulic system

(9)Height of working range

(10)Lift point (axis)

(11)Axis of rotation

(12)Model name



Notice

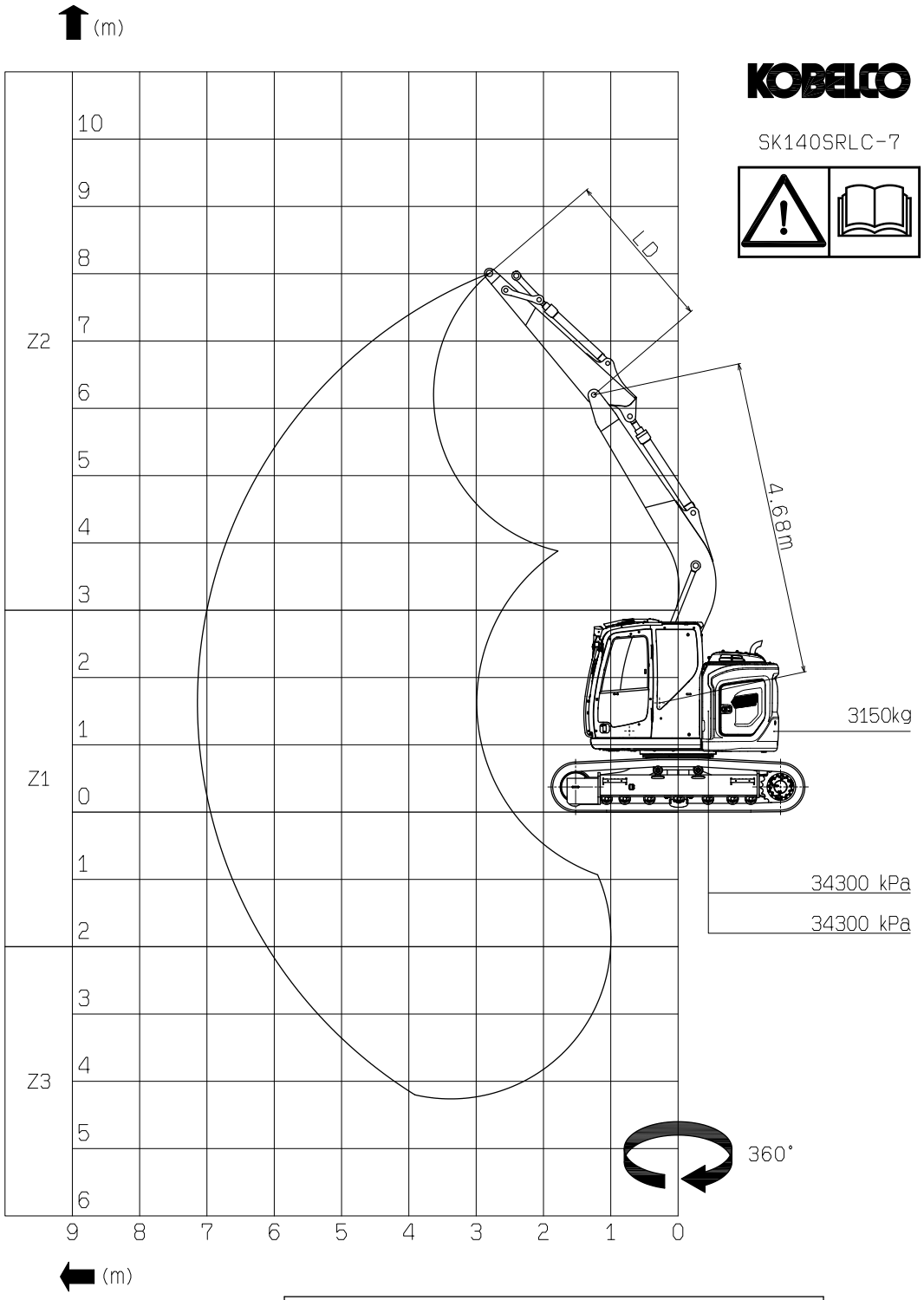
Work conditions

- With no front attachment installed (bucket, clamshell, or others).
  When lifting a load with the front attachment installed, the weight of the front attachment shall be deducted from the values of this table.
- With a fully retracted bucket cylinder
- On a firm and level ground
- In full swing position

Loads on table

The loads on the table are valid for the work height of range (Z) considered in accordance with an intended distance from the axis of rotation.

6.5.2 SK140SRLC-7



(m)		(kg) 3.0	4.5	6.0	7.5	MAX
LD= 2.38	Z2	4300	2210	2190	-	-
	Z1	4950	2850	1930	-	1570(7.14m)
	Z3	4460	2880	-	-	-
LD= 2.84	Z2	4830	2360	2110	-	-
	Z1	5160	2800	1880	1420	1410(7.58m)
	Z3	4330	2810	1900	-	-

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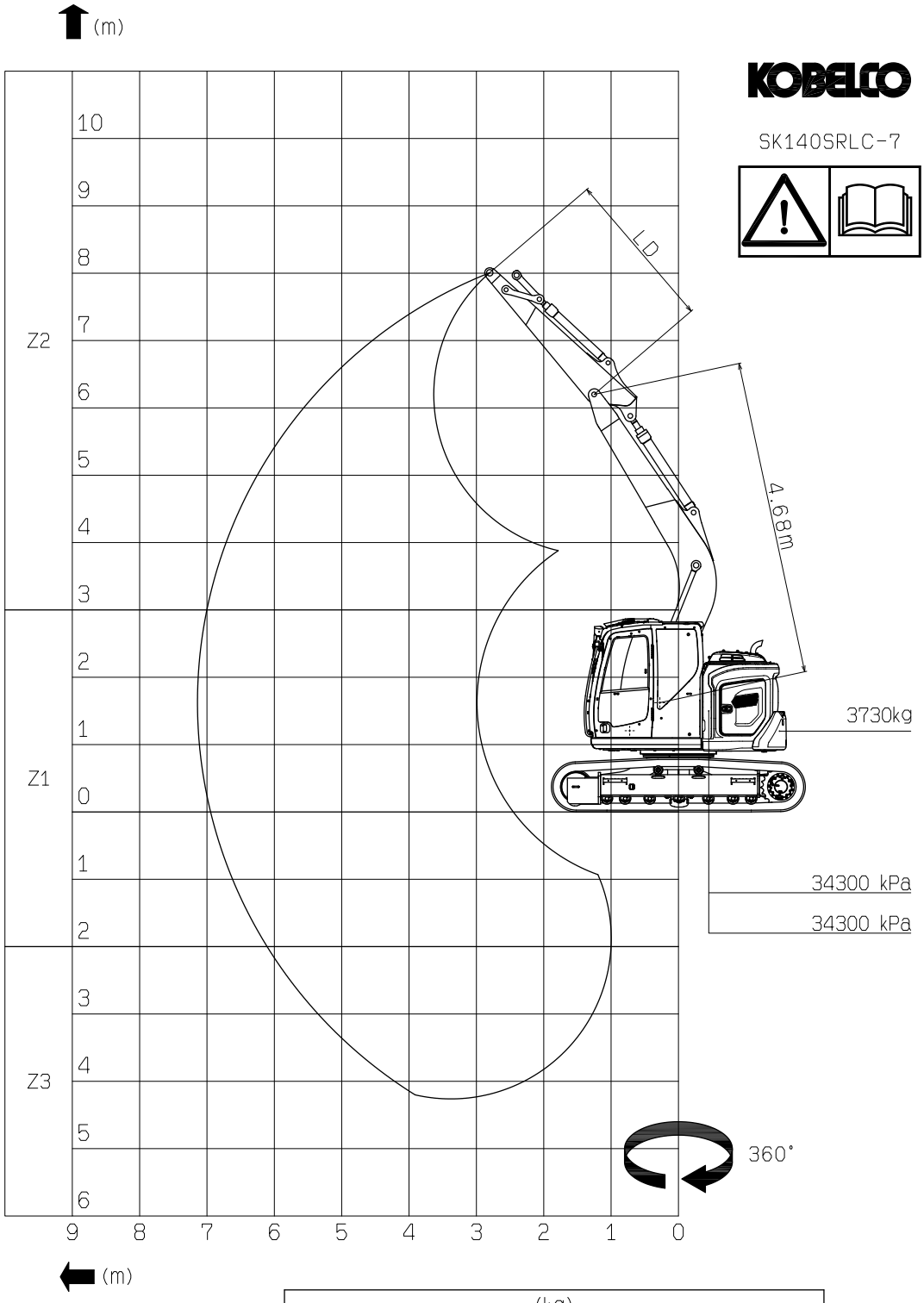
6.5.3 SK140SRLC-7



(m)		(kg) 3.0	4.5	6.0	7.5	MAX
LD= 2.38	Z2	4300	2210	2410	–	–
	Z1	4950	3170	2150	–	1750(7.14m)
	Z3	4460	3200	–	–	–
LD= 2.84	Z2	4830	2360	2110	–	–
	Z1	5680	3130	2110	1600	1580(7.58m)
	Z3	4330	3140	2130	–	–

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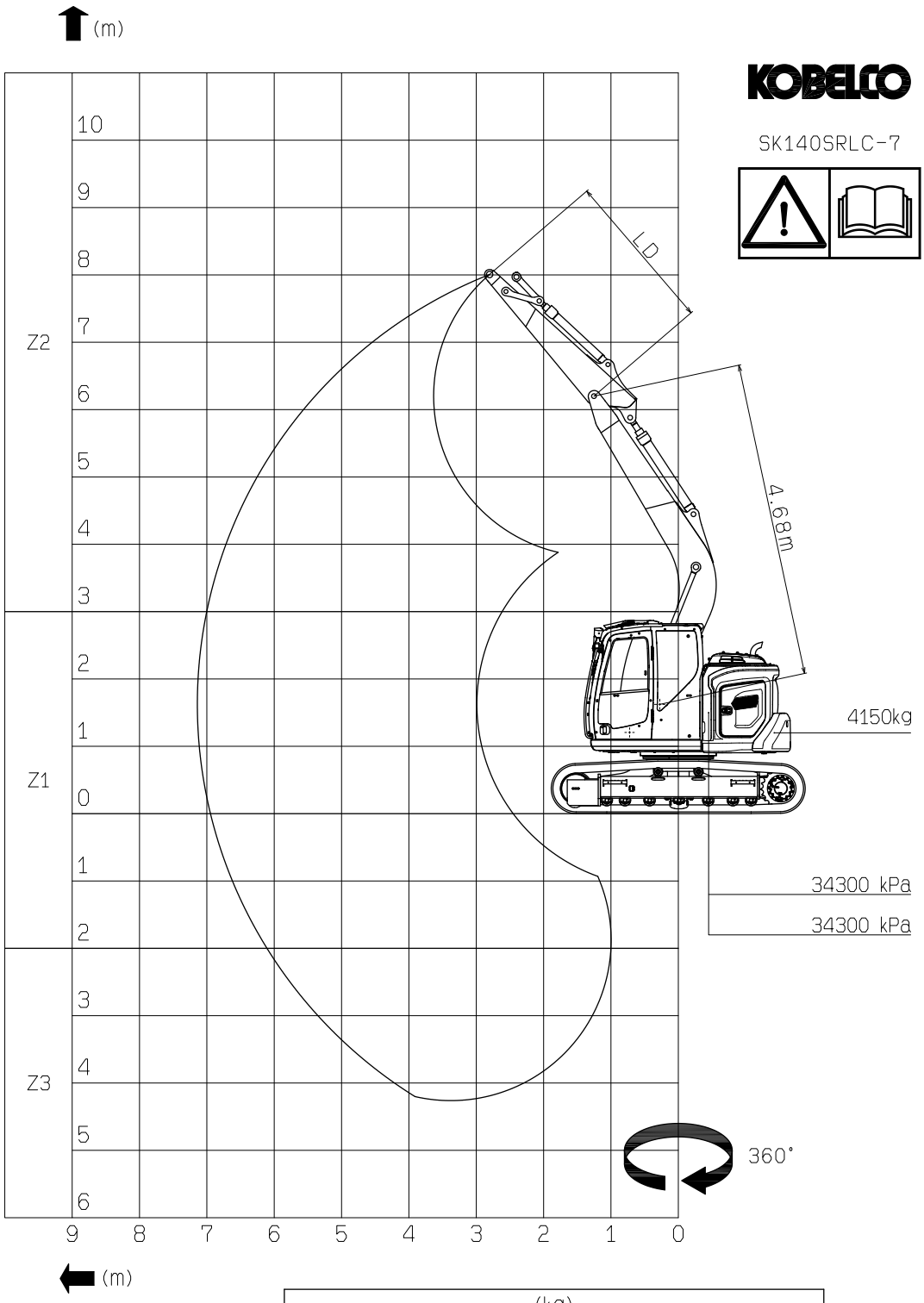
6.5.4 SK140SRLC-7



(m)		(kg) 3.0	4.5	6.0	7.5	MAX
LD= 2.38	Z2	4300	2210	2580	–	–
	Z1	4950	3410	2320	–	1750(7.14m)
	Z3	4460	3440	–	–	–
LD= 2.84	Z2	4830	2360	2110	–	–
	Z1	5680	3360	2270	1720	1660(7.58m)
	Z3	4330	3370	2290	–	–

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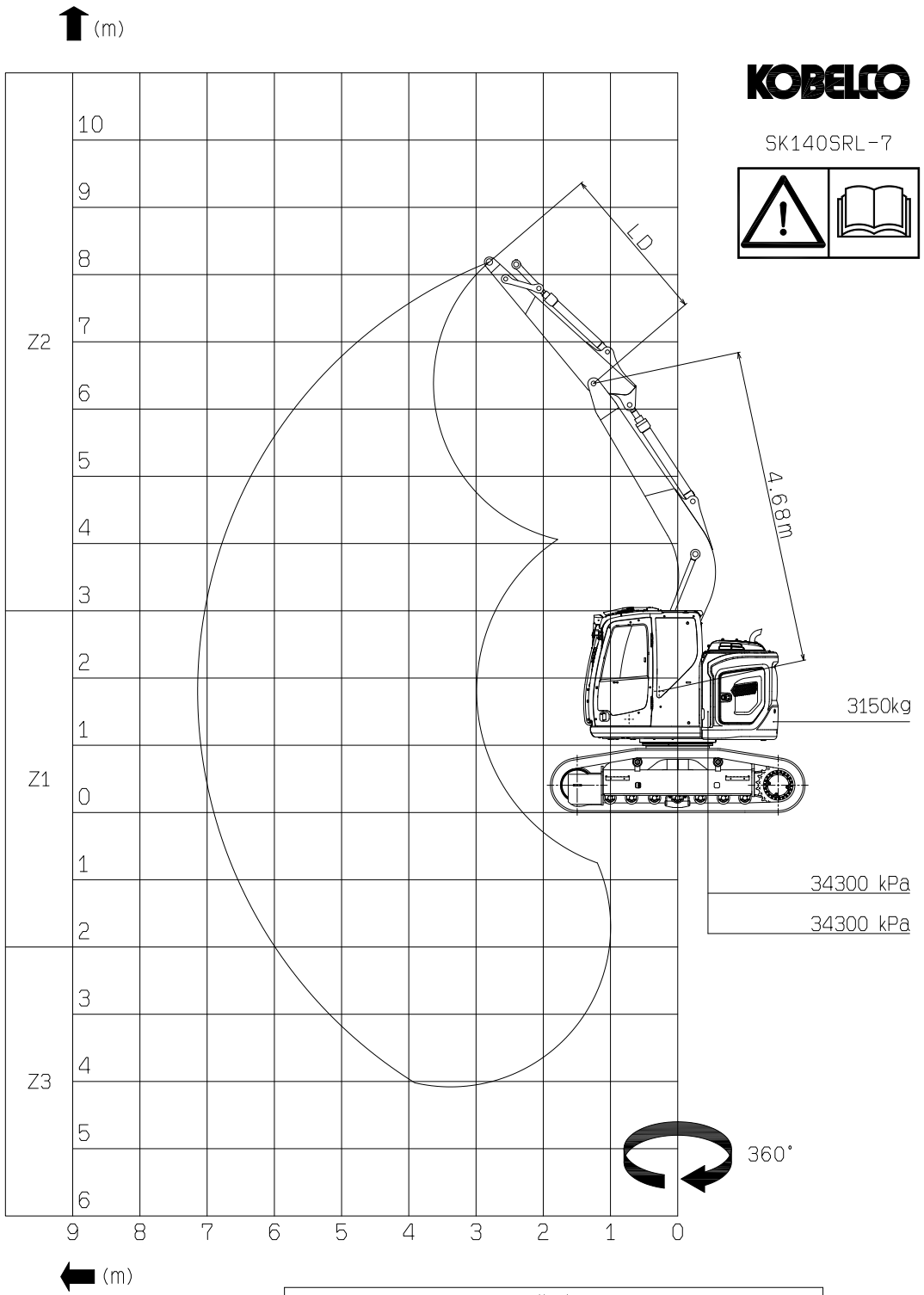
6.5.5 SK140SRL-7



(m)		(kg) 3.0	4.5	6.0	7.5	MAX
LD= 2.38	Z2	3130	2820	2020	–	–
	Z1	5020	3360	2270	–	1750(7.14m)
	Z3	3950	3380	–	–	–
LD= 2.84	Z2	4160	2740	2400	–	–
	Z1	6010	3320	2230	1680	1660(7.58m)
	Z3	3790	3270	2260	–	–

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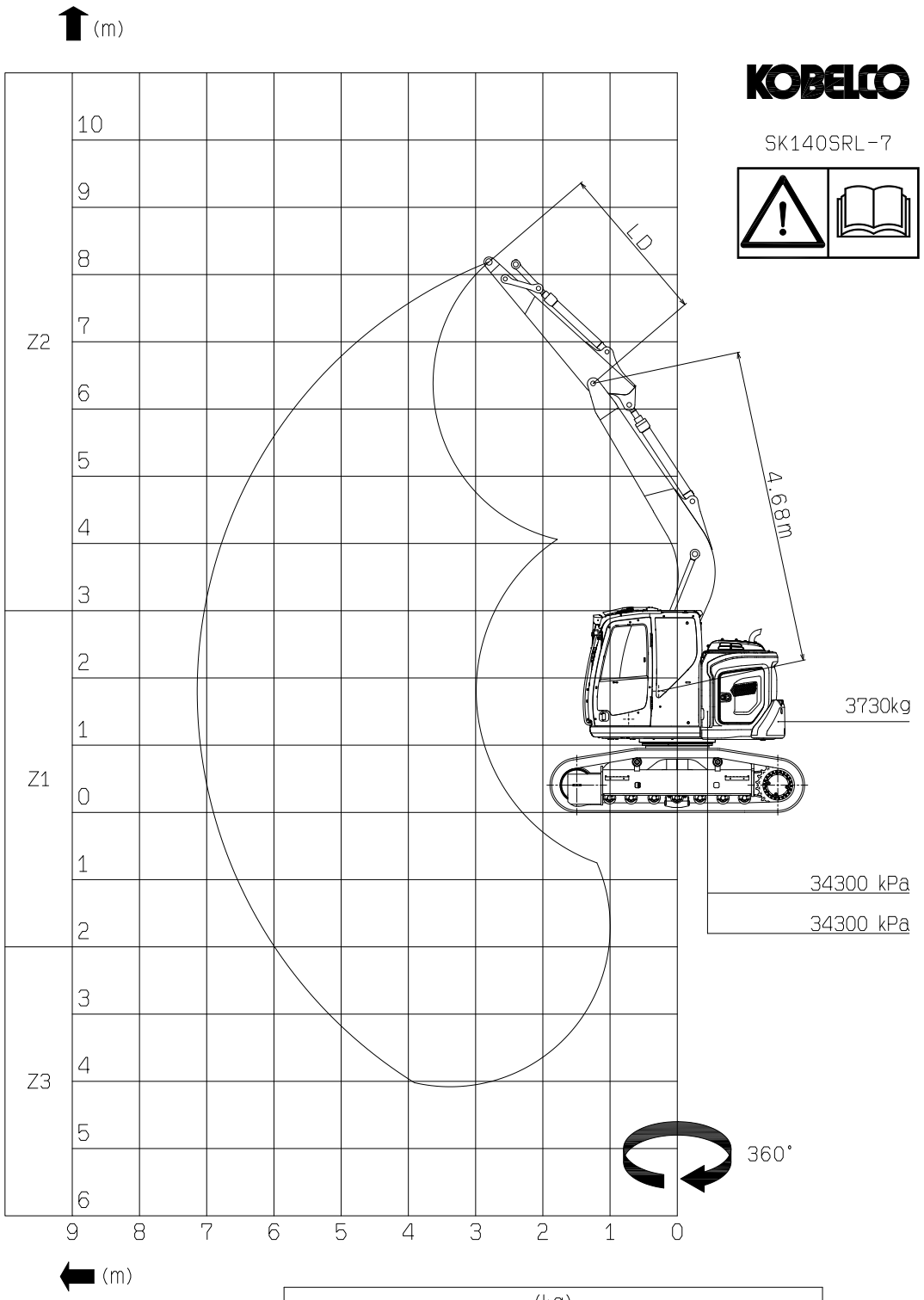
6.5.6 SK140SRL-7



(m)		(kg) 3.0	4.5	6.0	7.5	MAX
LD= 2.38	Z2	3130	2820	2020	–	–
	Z1	5020	3690	2500	–	1750(7.14m)
	Z3	3950	3380	–	–	–
LD= 2.84	Z2	4160	2740	2400	–	–
	Z1	6010	3650	2460	1860	1660(7.58m)
	Z3	3790	3270	2490	–	–

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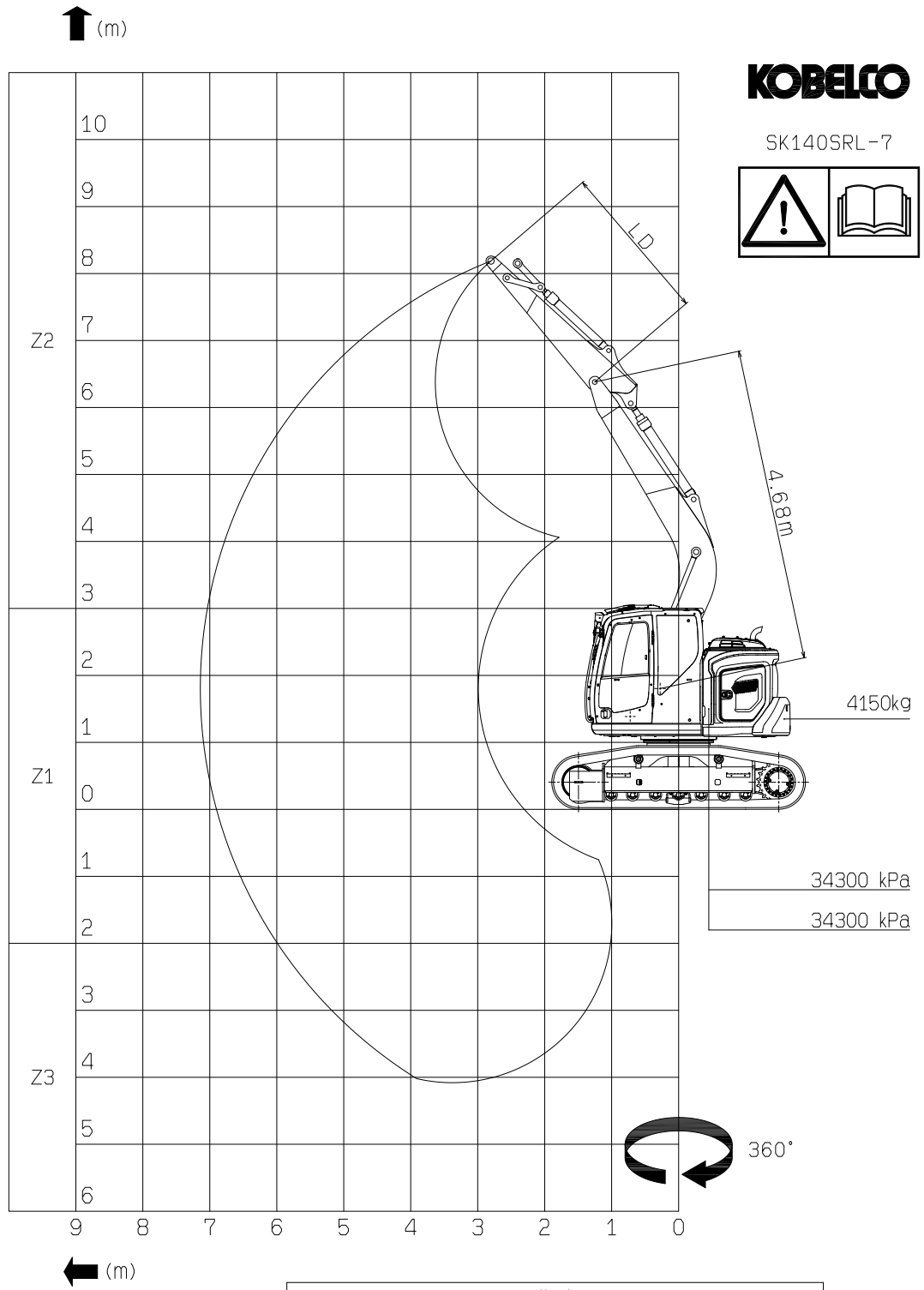
6.5.7 SK140SRL-7



(m)		(kg) 3.0	4.5	6.0	7.5	MAX
LD= 2.38	Z2	3130	2820	2020	–	–
	Z1	5020	3930	2670	–	1750(7.14m)
	Z3	3950	3380	–	–	–
LD= 2.84	Z2	4160	2740	2400	–	–
	Z1	6010	3890	2630	1860	1660(7.58m)
	Z3	3790	3270	2660	–	–

YY11Z00907P1