

# SPECIFICATIONS





## BASIC SPECIFICATIONS

<Applicable machine models 185100001 or later>

Type		Mono boom	2-Piece boom	
<b>MASS</b>				
Operating mass	kg (lb)	Rubber crawlers	8400 (18520)	8715 (19213)
		Steel crawlers	8635 (19035)	8950 (19731)
<b>PERFORMANCE</b>				
Bucket capacity (Standard bucket)	m <sup>3</sup> (cu. ft.)	Heaped	0.245 (8.65)	
		Struck	0.185 (6.53)	
Slew speed	min <sup>-1</sup> (rpm)	10.3 (10.3)		
Travel speed	km/h (mph)	Rubber crawlers	1st	2.6 (1.62)
			2nd	5.0 (3.11)
		Steel crawlers	1st	2.5 (1.55)
			2nd	4.8 (2.98)
Gradeability	(degrees)	35		
Ground pressure	kPa (psi)	Rubber crawlers	37.6 (5.45)	39.0 (5.66)
		Steel crawlers	39.1 (5.67)	40.5 (5.87)
Noise level dB (A)	Sound power level		L <sub>WA</sub> 99	
	Emission sound pressure level at the operator's position (ISO 6396,2008:)		L <sub>pA</sub> 74	
<b>ENGINE</b>				
Manufacturer and model		Yanmar 4TNV98CT-WTB		
Rated output	Net (ISO 14396)	kW/min <sup>-1</sup> (hp/rpm)	51.6/2000 (69.2/2000)	
	Net (ISO 9249/ SAEJ1349)	kW/min <sup>-1</sup> (hp/rpm)	49.6/2000 (66.5/2000)	
Displacement	ml (cu.in.)		3318 (202.5)	
Starter	V-kW		12-3.0	
Alternator	V-kW		12-0.96	
Battery (IEC 60095-1)	V-A·h		12-90	



SPECIFICATIONS  
**BASIC SPECIFICATIONS**

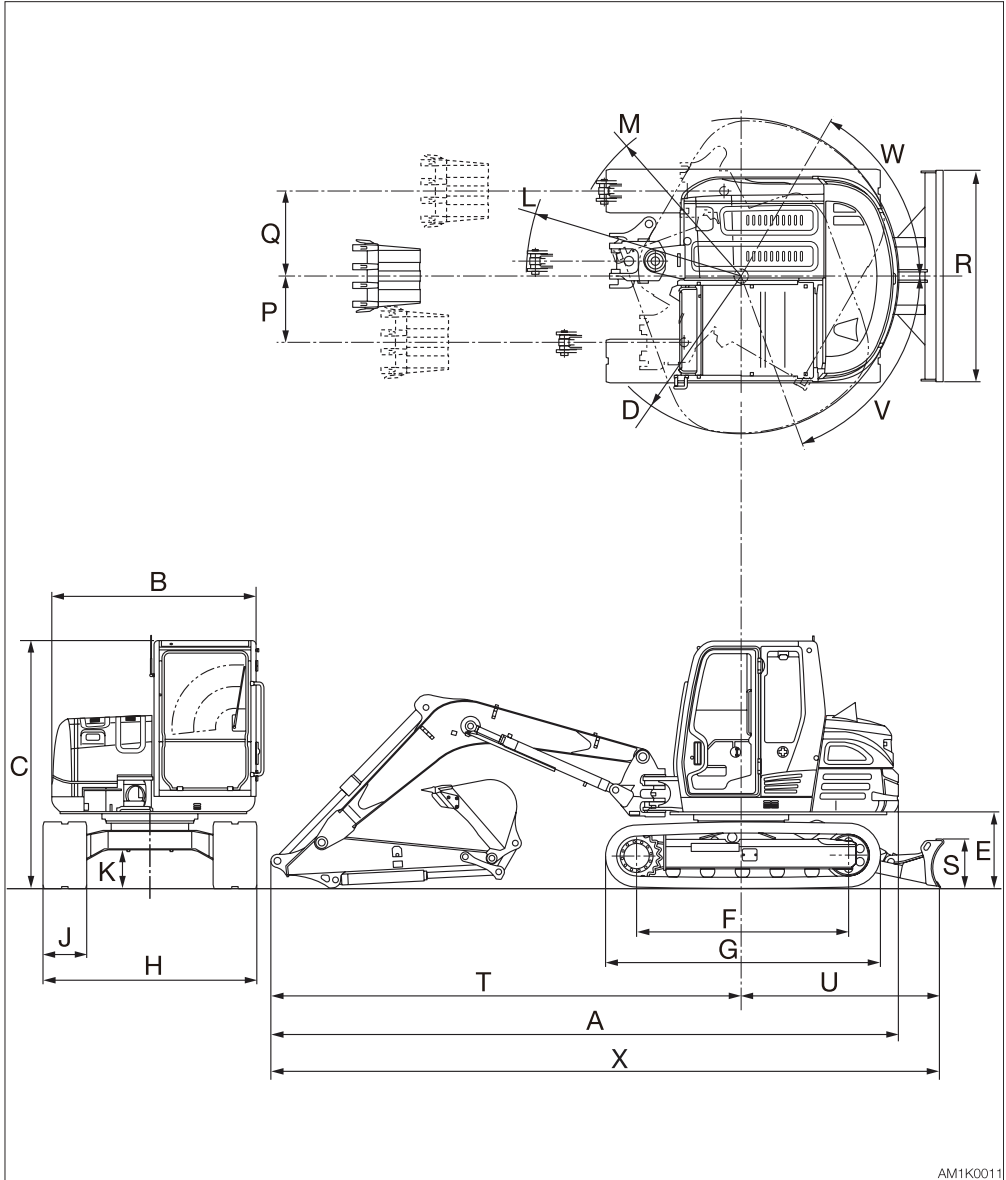
<Applicable machine models 190200001 or later>

Type		Mono boom	2-Piece boom	
<b>MASS</b>				
Operating mass	kg (lb)	Rubber crawlers	8425 (18575)	8740 (19268)
		Steel crawlers	8660 (19090)	8975 (19786)
<b>PERFORMANCE</b>				
Bucket capacity (Standard bucket)	m <sup>3</sup> (cu. ft.)	Heaped	0.245 (8.65)	
		Struck	0.185 (6.53)	
Slew speed	min <sup>-1</sup> (rpm)	10.3 (10.3)		
Travel speed	km/h (mph)	Rubber crawlers	1st	2.6 (1.62)
			2nd	5.0 (3.11)
		Steel crawlers	1st	2.5 (1.55)
			2nd	4.8 (2.98)
Gradeability	(degrees)	35		
Ground pressure	kPa (psi)	Rubber crawlers	37.7 (5.47)	39.1 (5.67)
		Steel crawlers	39.1 (5.67)	40.6 (5.89)
Noise level dB (A)	Sound power level		L <sub>WA</sub> 99	
	Emission sound pressure level at the operator's position (ISO 6396,2008:)		L <sub>pA</sub> 74	
<b>ENGINE</b>				
Manufacturer and model		ISUZU 4JJ1T		
Rated output	Net (ISO 14396)	kW/min <sup>-1</sup> (hp/rpm)	52.0/2000 (69.7/2000)	
	Net (ISO 9249/ SAEJ1349)	kW/min <sup>-1</sup> (hp/rpm)	49.9/2000 (66.9/2000)	
Displacement	ml (cu.in.)		2999 (183)	
Starter	V-kW		12-2.5	
Alternator	V-kW		12-1.32	
Battery (IEC 60095-1)	V-A·h		12-90	



# MACHINE DIMENSIONS

## Mono boom



AM1K0011



SPECIFICATIONS  
**MACHINE DIMENSIONS**

**Mono boom**

Unit: mm (inch)

	Item	Standard arm	Middle arm	Long arm
		Rubber crawlers		
<b>A</b>	Overall length	6530 (257.1) 6565 (258.5)**	6575 (258.9) 6610 (260.2)**	6660 (262.3) 6695 (263.7)**
<b>B</b>	Upperstructure overall width	2140 (84.3)	←	←
<b>C</b>	Overall height	2550 (100.5) 2560 (100.8)*	←	←
<b>D</b>	Slew radius	1650 (65) 1685 (66.3)**	←	←
<b>E</b>	Clearance height under upperstructure	770 (30.4) 760 (29.9)*	←	←
<b>F</b>	Crawler base	2210 (87) 2180 (85.8)*	←	←
<b>G</b>	Crawler overall length	2855 (112.4) 2830 (111.4)*	←	←
<b>H</b>	Crawler overall width	2200 (86.6)	←	←
<b>J</b>	Crawler shoe width	450 (17.7)	←	←
<b>K</b>	Ground clearance of undercarriage	370 (14.6) 360 (14.2)*	←	←
<b>L</b>	Minimum radius of equipment and attachment	2240 (88.2)	2360 (92.9)	2495 (98.2)
<b>M</b>	Minimum radius of equipment at maximum front offset	1810 (71.3)	1910 (75.3)	2030 (79.9)
<b>P</b>	Offset distance of bucket (right swing)	685 (27)	←	←
<b>Q</b>	Offset distance of bucket (left swing)	890 (35)	←	←
<b>R</b>	Dozer blade width	2200 (86.6)	←	←
<b>S</b>	Dozer blade height	500 (19.7)	←	←
<b>T</b>	Front distance to axis of rotation	4890 (192.5)	4935 (194.3)	5020 (197.7)
<b>U</b>	Dozer blade distance to axis of rotation	2055 (81.0) 2060 (81.1)*	←	←
<b>V</b>	Boom swing angle (Left)	70°	←	←
<b>W</b>	Boom swing angle (Right)	60°	←	←
<b>X</b>	Overall length (dozer blade at rear)	6945 (273.5)	7000 (275.6)	7085 (278.9)

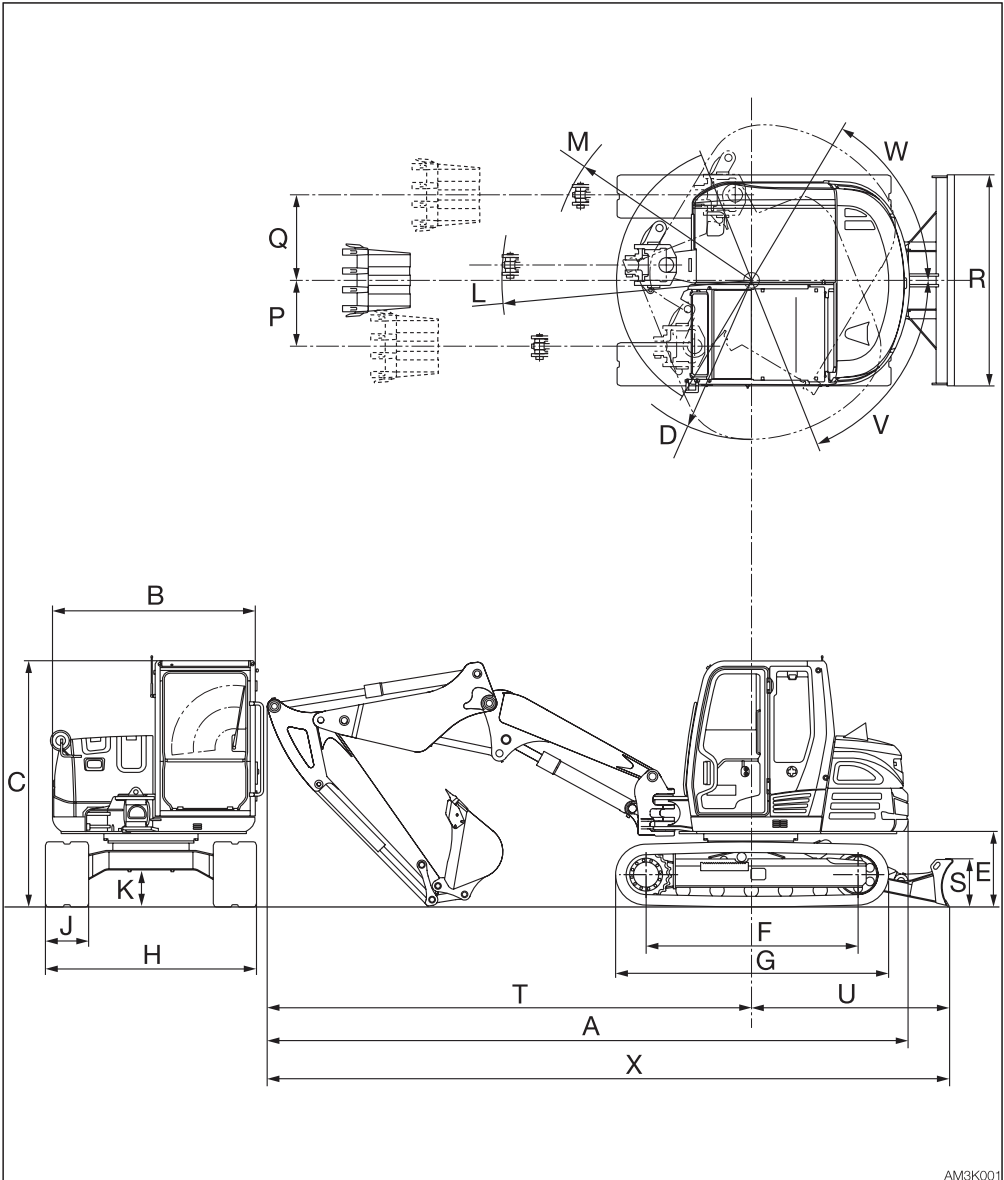
\* : With steel crawlers

\*\* : With extra weight



SPECIFICATIONS  
**MACHINE DIMENSIONS**

**2-Piece boom (One cylinder)**



AM3K001



## 2-Piece boom (One cylinder)

Unit: mm (inch)

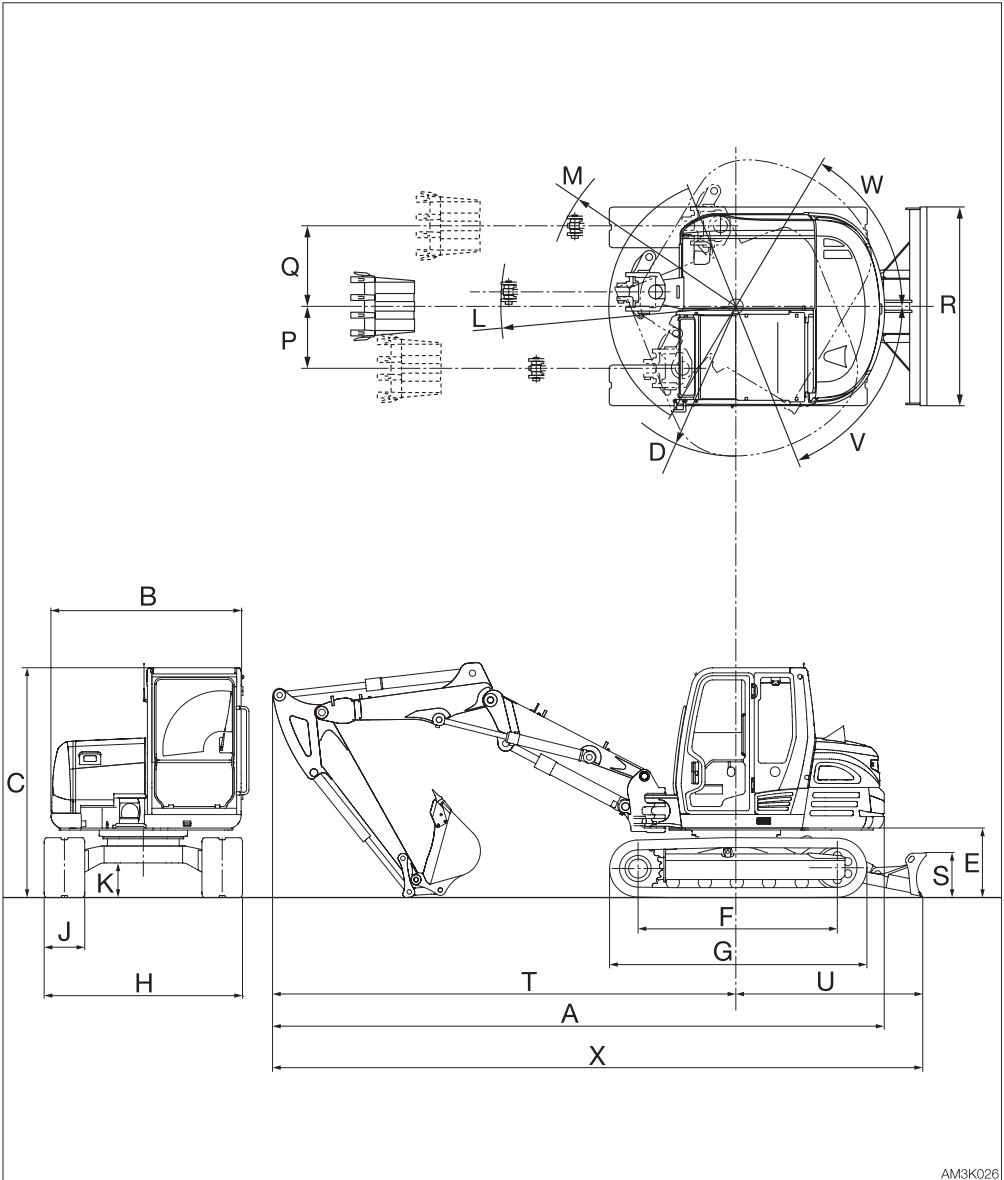
	Item	Rubber crawlers
<b>A</b>	Overall length	6700 (263.8) 6735 (265.2)**
<b>B</b>	Upperstructure overall width	2140 (84.3)
<b>C</b>	Overall height	2550 (100.5) 2560 (100.8)*
<b>D</b>	Slew radius	1650 (65) 1685 (66.3)**
<b>E</b>	Clearance height under upperstructure	770 (30.4) 760 (29.9)*
<b>F</b>	Crawler base	2210 (87) 2180 (85.8)*
<b>G</b>	Crawler overall length	2855 (112.4) 2830 (111.4)*
<b>H</b>	Crawler overall width	2200 (86.6)
<b>J</b>	Crawler shoe width	450 (17.7)
<b>K</b>	Ground clearance of undercarriage	370 (14.6) 360 (14.2)*
<b>L</b>	Minimum radius of equipment and attachment	2675 (105.3)
<b>M</b>	Minimum radius of equipment at maximum front offset	2190 (86.2)
<b>P</b>	Offset distance of bucket (right swing)	685 (27)
<b>Q</b>	Offset distance of bucket (left swing)	890 (35)
<b>R</b>	Dozer blade width	2200 (86.6)
<b>S</b>	Dozer blade height	500 (19.7)
<b>T</b>	Front distance to axis of rotation	5060 (199.2)
<b>U</b>	Dozer blade distance to axis of rotation	2055 (81.0) 2060 (81.1)*
<b>V</b>	Boom swing angle (Left)	70°
<b>W</b>	Boom swing angle (Right)	60°
<b>X</b>	Overall length (dozer blade at rear)	7120 (280.4)

\* : With steel crawlers

\*\* : With extra weight



## 2-Piece boom (Two cylinders)



AM3K026





SPECIFICATIONS  
**MACHINE DIMENSIONS**

## 2-Piece boom (Two cylinders)

Unit: mm (inch)

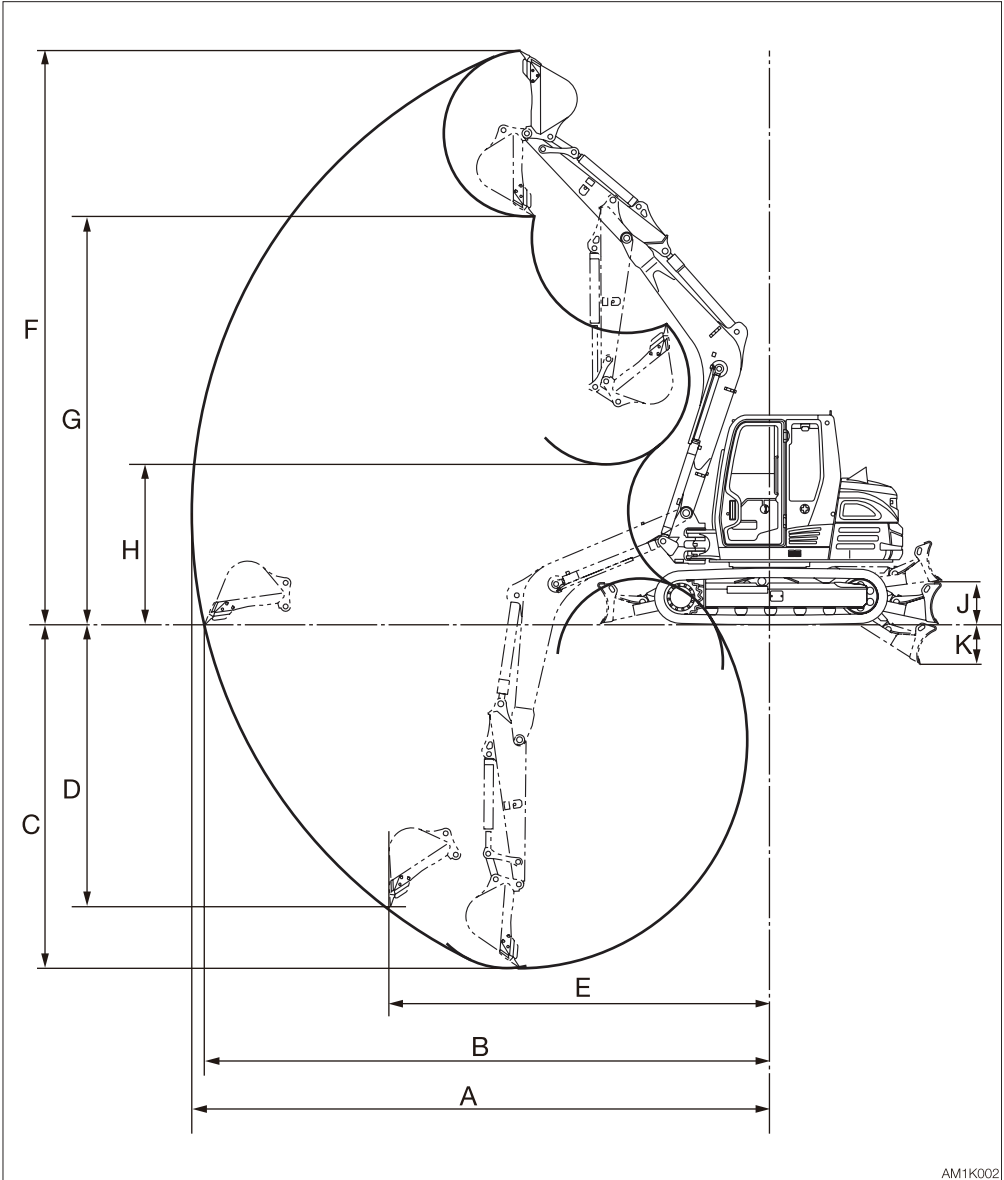
	Item	Rubber crawlers
<b>A</b>	Overall length	6780 (266.9) 6790 (267.3)**
<b>B</b>	Upperstructure overall width	2140 (84.3)
<b>C</b>	Overall height	2550 (100.5)
<b>D</b>	Slew radius	1650 (65) 1685 (66.3)**
<b>E</b>	Clearance height under upperstructure	770 (30.4)
<b>F</b>	Crawler base	2210 (87)
<b>G</b>	Crawler overall length	2855 (112.4)
<b>H</b>	Crawler overall width	2200 (86.6)
<b>J</b>	Crawler shoe width	450 (17.7)
<b>K</b>	Ground clearance of undercarriage	370 (14.6)
<b>L</b>	Minimum radius of equipment and attachment	2705 (106.5)
<b>M</b>	Minimum radius of equipment at maximum front offset	2220 (87.4)
<b>P</b>	Offset distance of bucket (right swing)	685 (27)
<b>Q</b>	Offset distance of bucket (left swing)	890 (35)
<b>R</b>	Dozer blade width	2200 (86.6)
<b>S</b>	Dozer blade height	500 (19.7)
<b>T</b>	Front distance to axis of rotation	5140 (202.4)
<b>U</b>	Dozer blade distance to axis of rotation	2055 (81.0)
<b>V</b>	Boom swing angle (Left)	70°
<b>W</b>	Boom swing angle (Right)	60°
<b>X</b>	Overall length (dozer blade at rear)	7210 (283.9)

\*\* : With extra weight



# OPERATING RANGES

## Mono boom





**SPECIFICATIONS**  
**OPERATING RANGES**

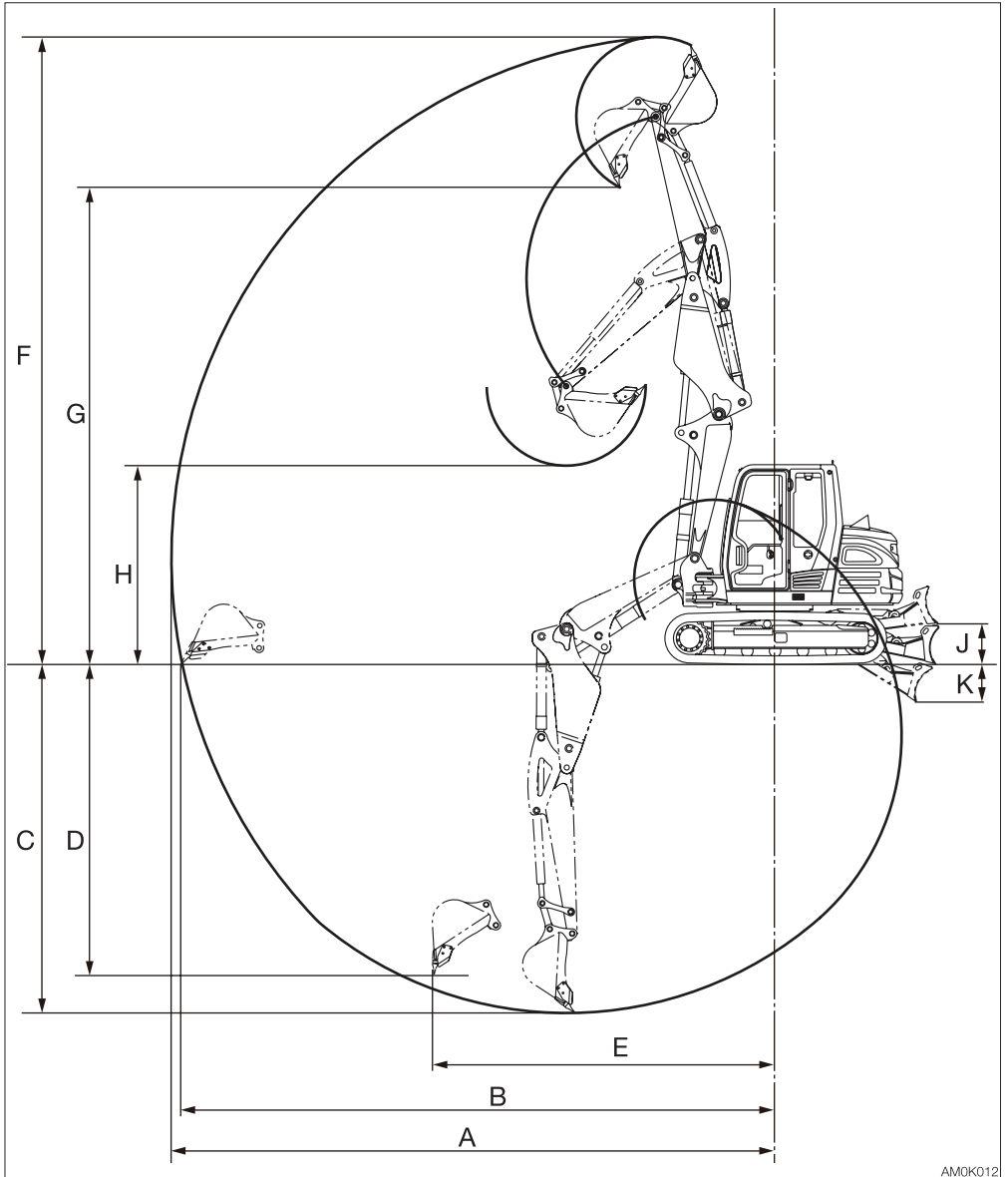
**Mono boom**

Unit: mm (inch)

	Item	Standard arm	Middle arm	Long arm
		Rubber crawlers		
<b>A</b>	Maximum reach	7105 (279.6)	7275 (286.3)	7435 (292.7)
<b>B</b>	Maximum reach at ground reference plane	6950 (273.7)	7125 (280.6)	7290 (287.1)
<b>C</b>	Maximum digging depth	4230 (166.6)	4410 (173.7)	4580 (180.4)
<b>D</b>	Maximum vertical digging depth	3470 (136.5)	3650 (143.6)	3820 (150.4)
<b>E</b>	Reach at maximum vertical digging depth	4685 (184.4)	4720 (185.8)	4755 (187.1)
<b>F</b>	Maximum height of cutting edge	7030 (276.8)	7165 (282.1)	7290 (287.1)
<b>G</b>	Maximum dumping height	4995 (196.7)	5135 (202.1)	5260 (207.1)
<b>H</b>	Minimum dumping height	1950 (76.7)	1785 (70.3)	1640 (64.6)
<b>J</b>	Dozer blade maximum lifting	505 (19.9)	←	←
<b>K</b>	Dozer blade maximum lowering	500 (19.7)	←	←



## 2-Piece boom (One cylinder)



AMOK012

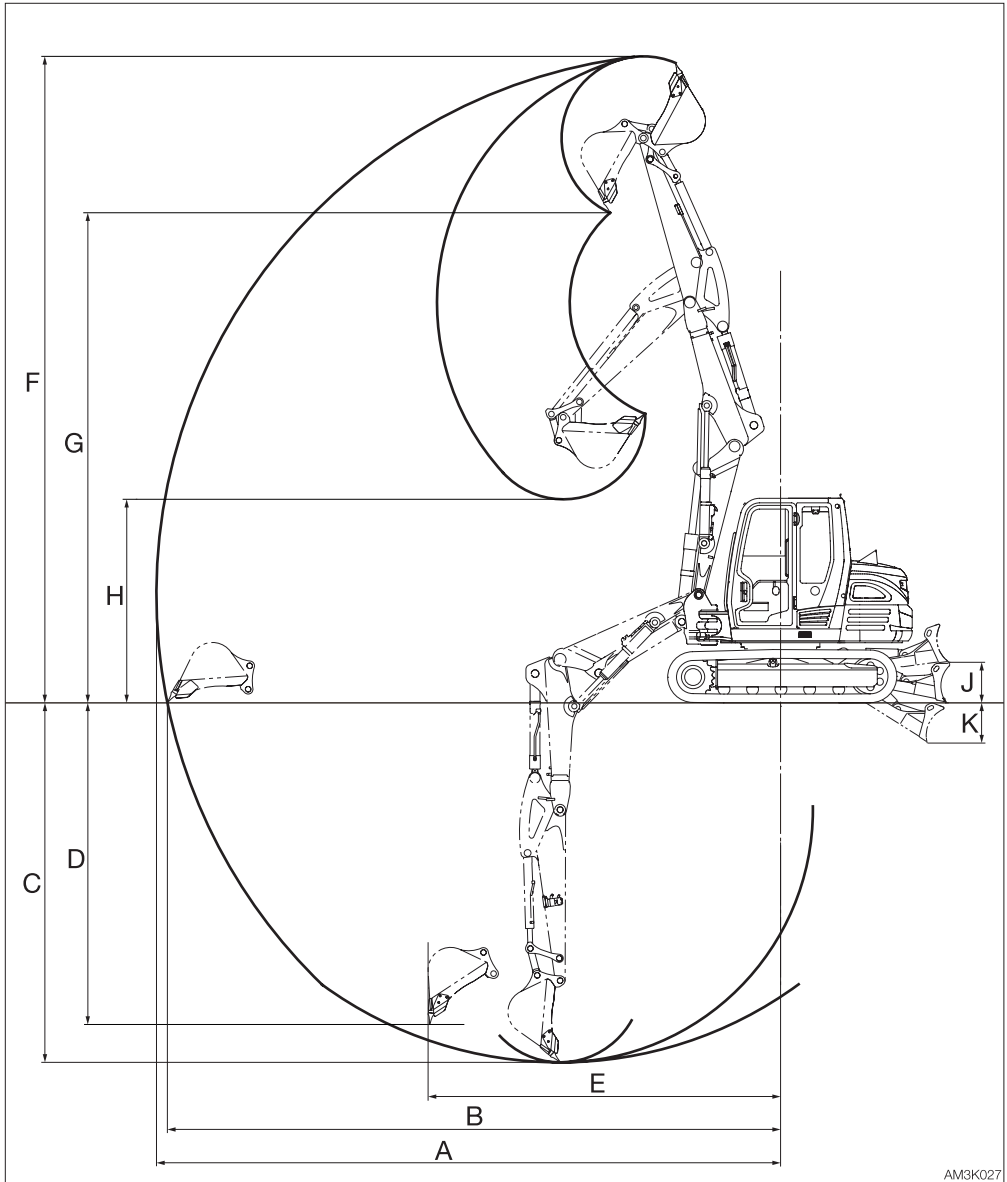
**2-Piece boon (One cylinder)**

Unit: mm (inch)

	<b>Item</b>	<b>Rubber crawlers</b>
<b>A</b>	Maximum reach	7730 (304.3)
<b>B</b>	Maximum reach at ground reference plane	7590 (298.8)
<b>C</b>	Maximum digging depth	4470 (175)
<b>D</b>	Maximum vertical digging depth	3980 (156.7)
<b>E</b>	Reach at maximum vertical digging depth	4385 (172.6)
<b>F</b>	Maximum height of cutting edge	8045 (316.7)
<b>G</b>	Maximum dumping height	6120 (240.9)
<b>H</b>	Minimum dumping height	2550 (100.4)
<b>J</b>	Dozer blade maximum lifting	505 (19.9)
<b>K</b>	Dozer blade maximum lowering	500 (19.7)



## 2-Piece boom (Two cylinders)



**2-Piece boon (Two cylinders)**

Unit: mm (inch)

	<b>Item</b>	<b>Rubber crawlers</b>
<b>A</b>	Maximum reach	7775 (306.1)
<b>B</b>	Maximum reach at ground reference plane	7640 (300.8)
<b>C</b>	Maximum digging depth	4480 (176.4)
<b>D</b>	Maximum vertical digging depth	4010 (157.9)
<b>E</b>	Reach at maximum vertical digging depth	4390 (172.8)
<b>F</b>	Maximum height of cutting edge	8060 (317.3)
<b>G</b>	Maximum dumping height	6110 (240.6)
<b>H</b>	Minimum dumping height	2540 (100)
<b>J</b>	Dozer blade maximum lifting	505 (19.9)
<b>K</b>	Dozer blade maximum lowering	500 (19.7)

# MEMO

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## LIFTING CAPACITIES

### Rated lift capacity chart

- The loads in the charts do not exceed 87% of hydraulic lift capacity or 75% of tipping load.
- Figures marked with an asterisk (\*) are hydraulically-limited capacities.
- The mass of slings and any other lifting devices shall be deducted from the rated load to determine the net load that may be lifted.
- The load point is the bucket hinge pin, and the bucket posture is with the standard bucket completely retracted under the arm.
- Unit: daN (lbs)

### Load hooking system

A load hooking system must be provided with the following capabilities.

1. A system which can withstand twice the rated lift capacity no matter at what position the load is applied.
2. A system that poses no risk of the lifted load falling from the hooking device. For example, equipped with a hook slippage prevention device.
3. A system that poses no risk of the hooking system slipping from the hoe attachment.

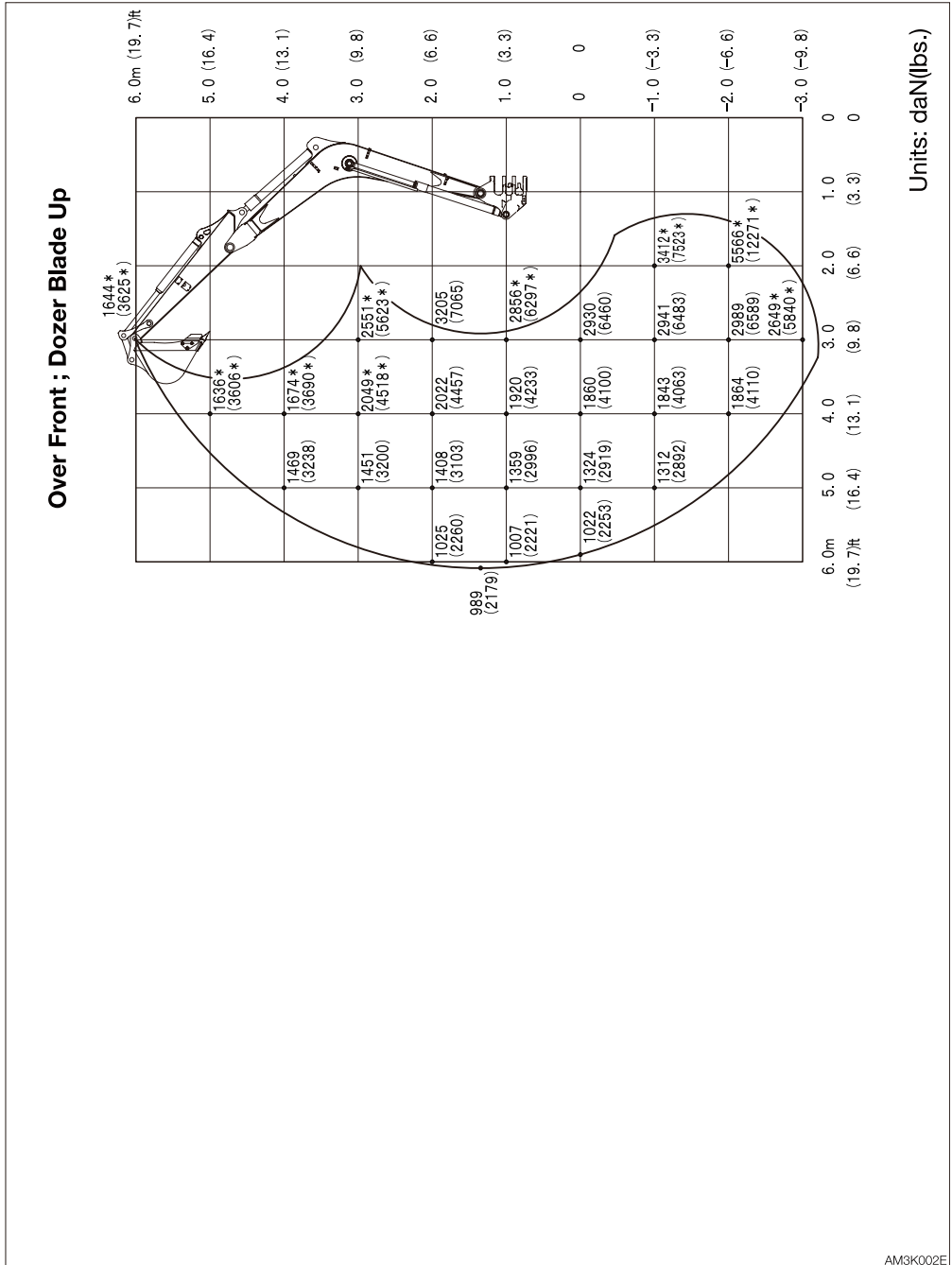
### **WARNING**

- Do not attempt to lift or hold any load that is greater than these rated values at their specified load radii and height.
- The rated lift capacities are based on the machine being level and situated on a firm supporting surface. For safe lifting, the operator is expected to make due allowance for the particular job conditions such as soft or uneven ground, non-level condition, load to the machine sides, hazardous conditions, experience of personnel, etc. The operator and other personnel should fully acquaint themselves with the operator's manual furnished by the manufacturer before operating this machine. When operating the machine, the safety rules of the equipment must also be followed.
- Do not travel while lifting a load; It is very dangerous.



SPECIFICATIONS  
**LIFTING CAPACITIES**

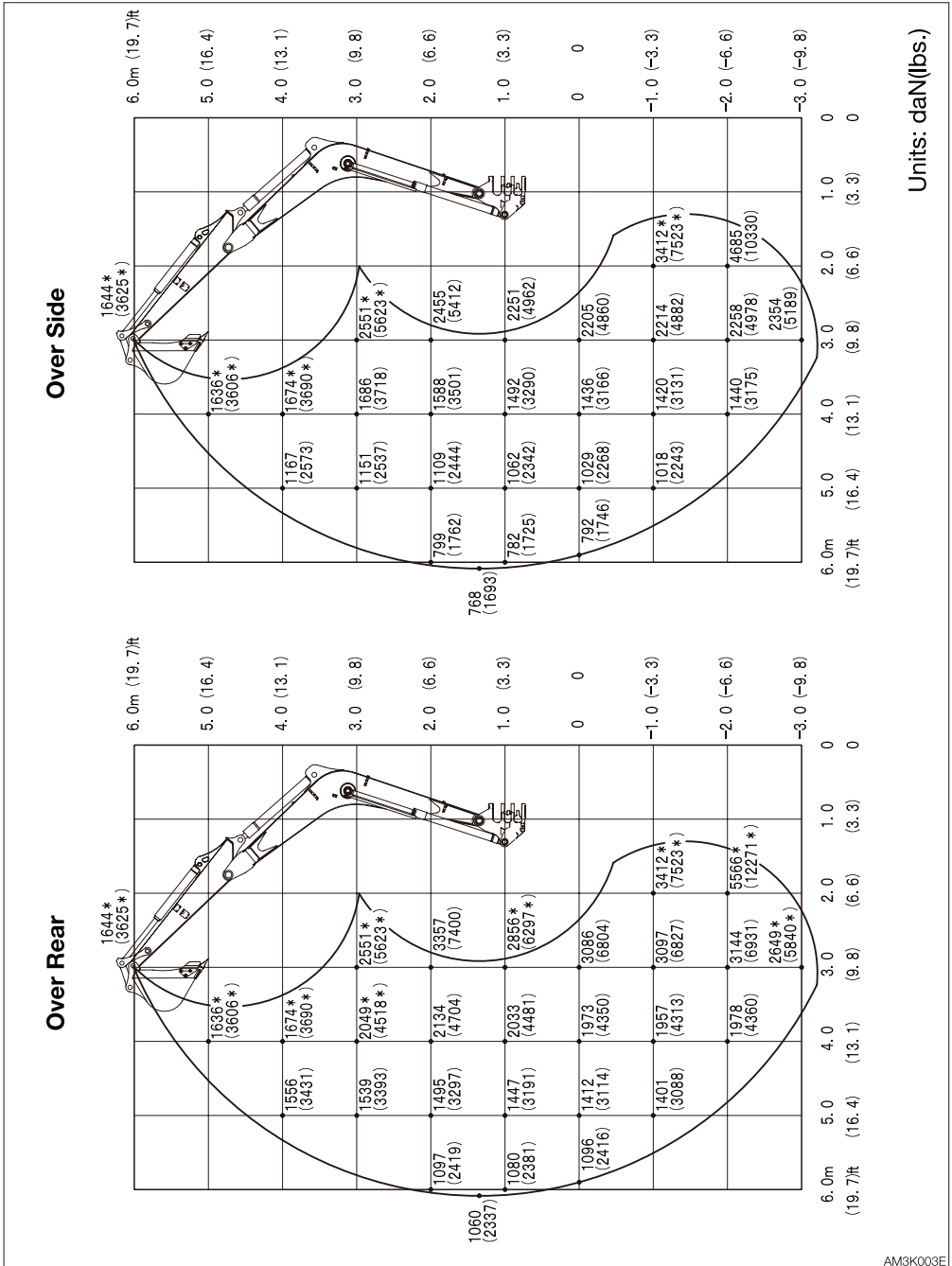
Standard arm <Applicable machine models 185100001 or later>





SPECIFICATIONS  
LIFTING CAPACITIES

Standard arm <Applicable machine models 185100001 or later>



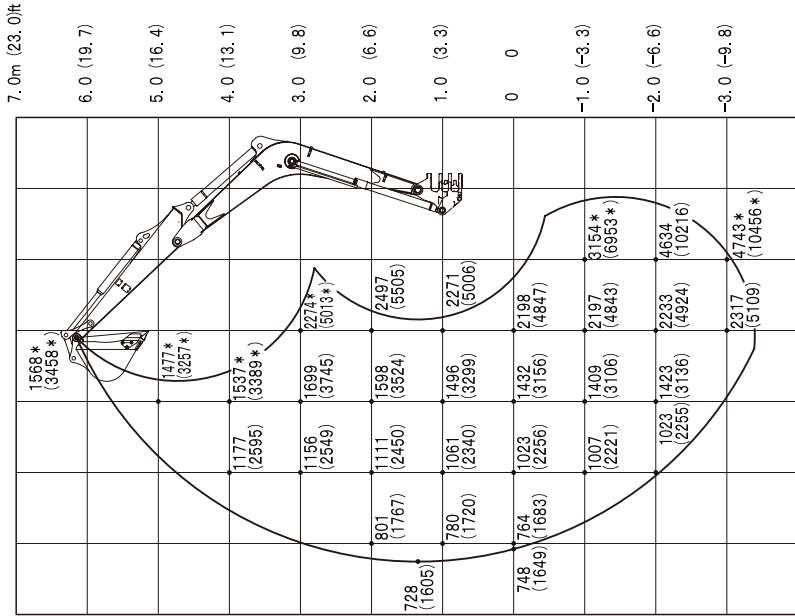




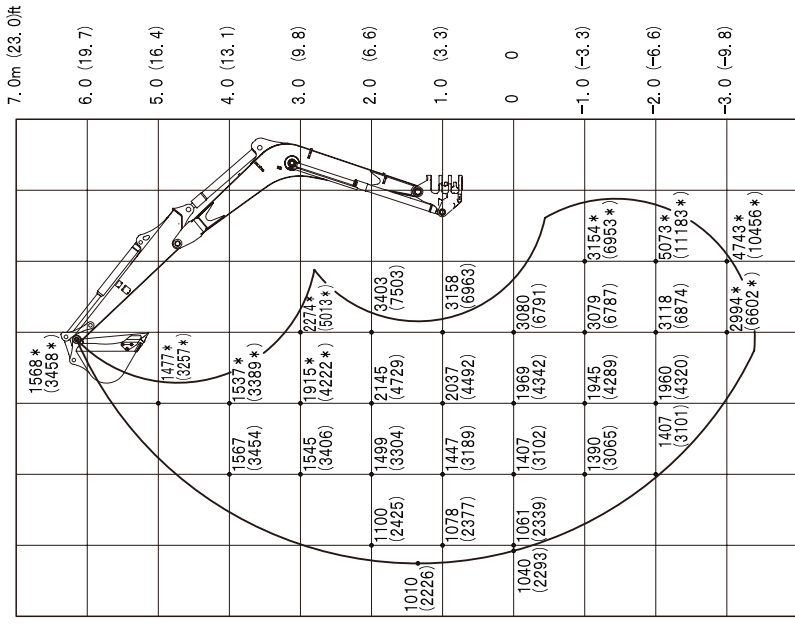
SPECIFICATIONS  
**LIFTING CAPACITIES**

Middle arm <Applicable machine models 185100001 or later>

**Over Side**



**Over Rear**



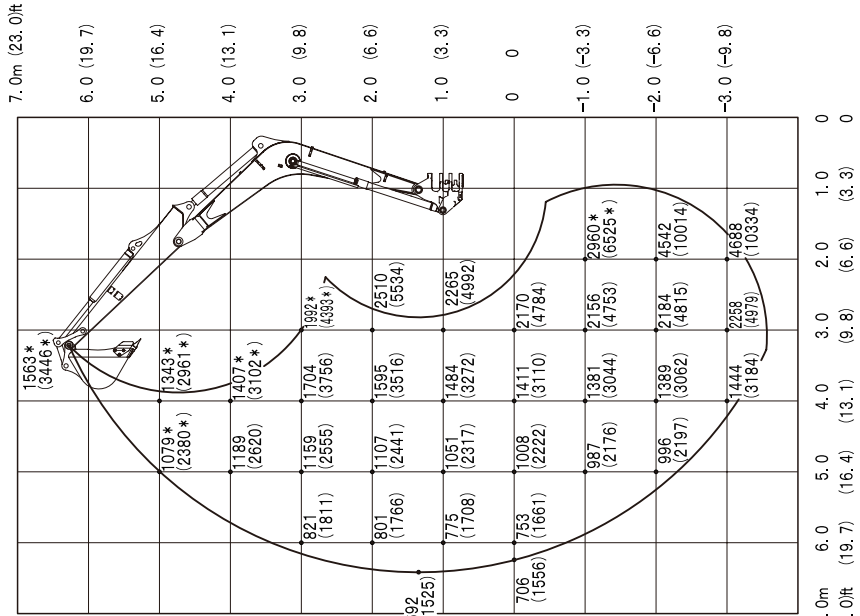
Units: daN(lbs.)



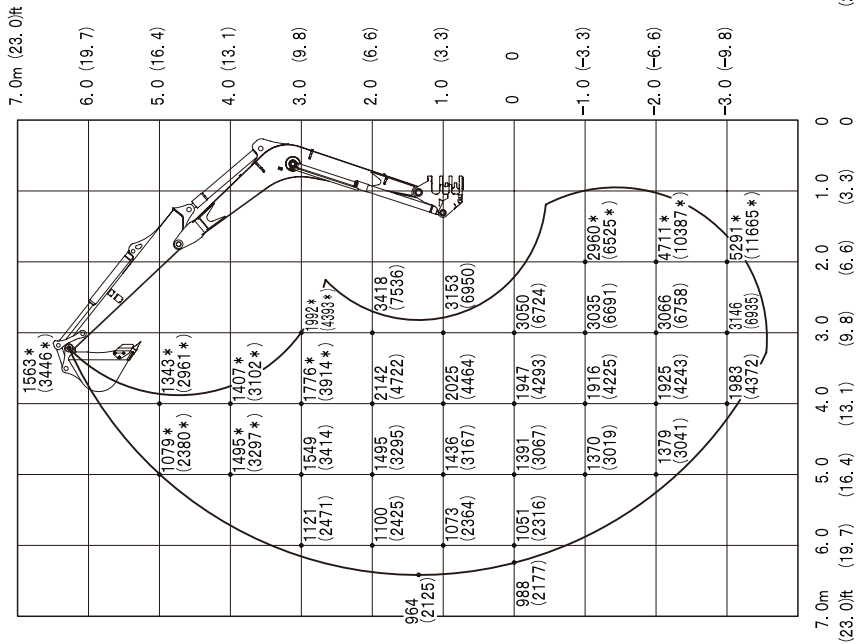


Long arm <Applicable machine models 185100001 or later>

Over Side



Over Rear

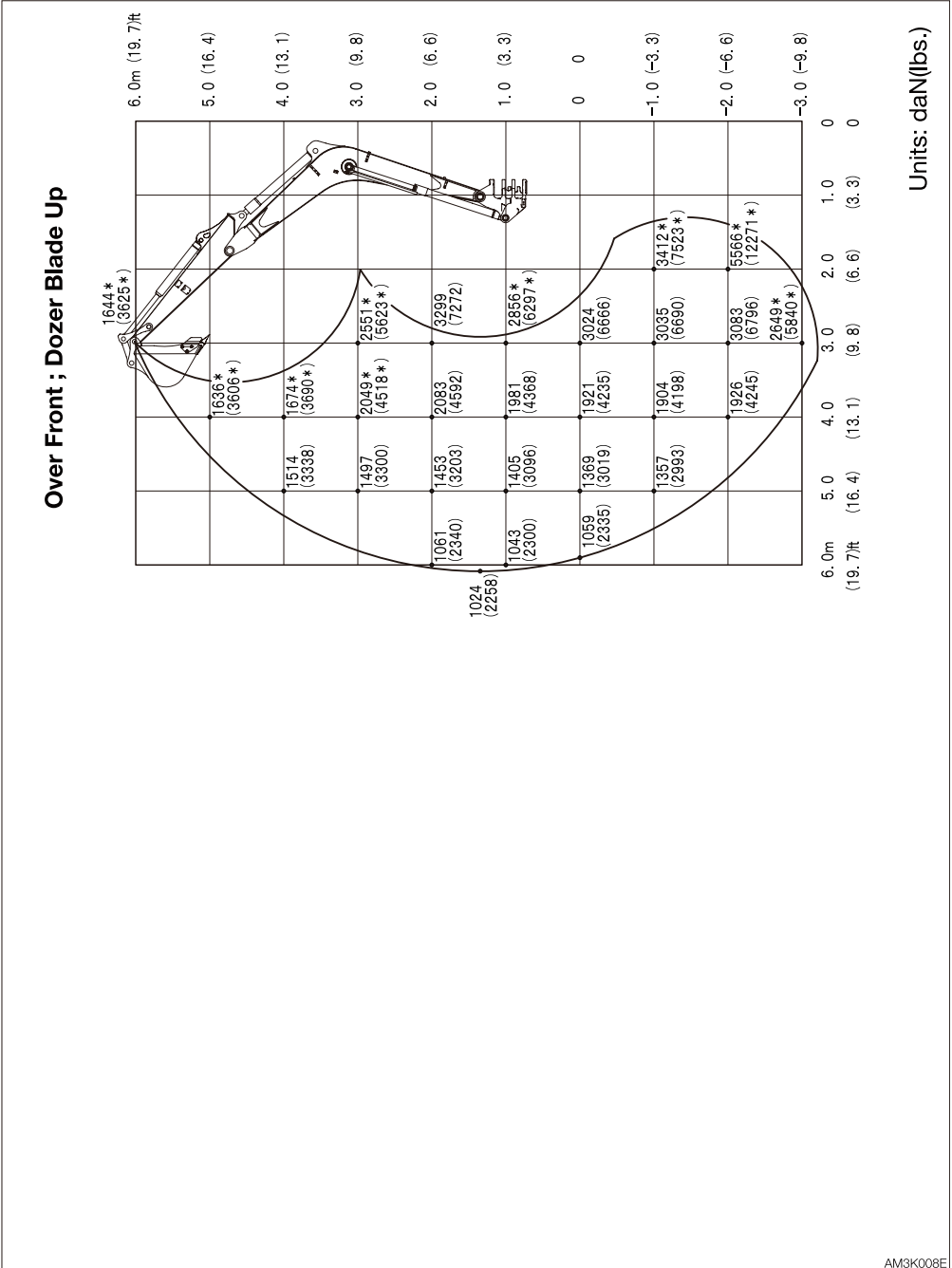


Units: daN(lbs.)

7.0m (23.0ft) 0 1.0 (3.3) 2.0 (6.6) 3.0 (9.8) 4.0 (13.1) 5.0 (16.4) 6.0 (19.7) 7.0m (23.0ft)



Standard arm <Applicable machine models 190200001 or later>



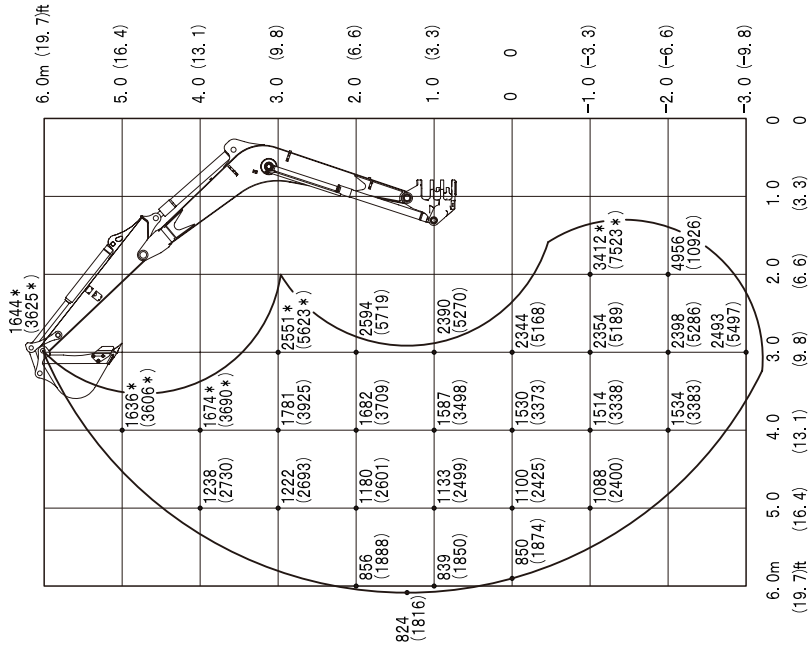




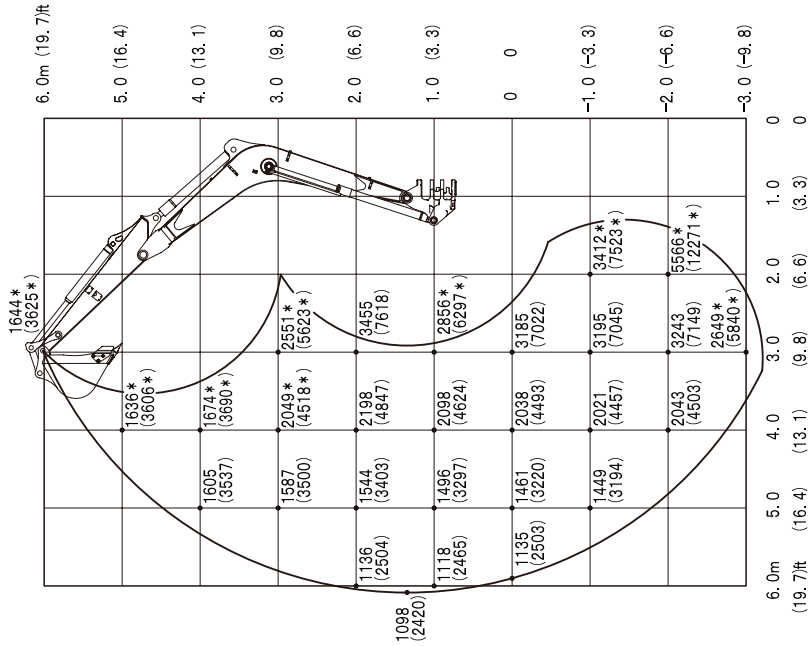
SPECIFICATIONS  
LIFTING CAPACITIES

Standard arm <Applicable machine models 190200001 or later>

Over Side



Over Rear



Units: daN(lbs.)

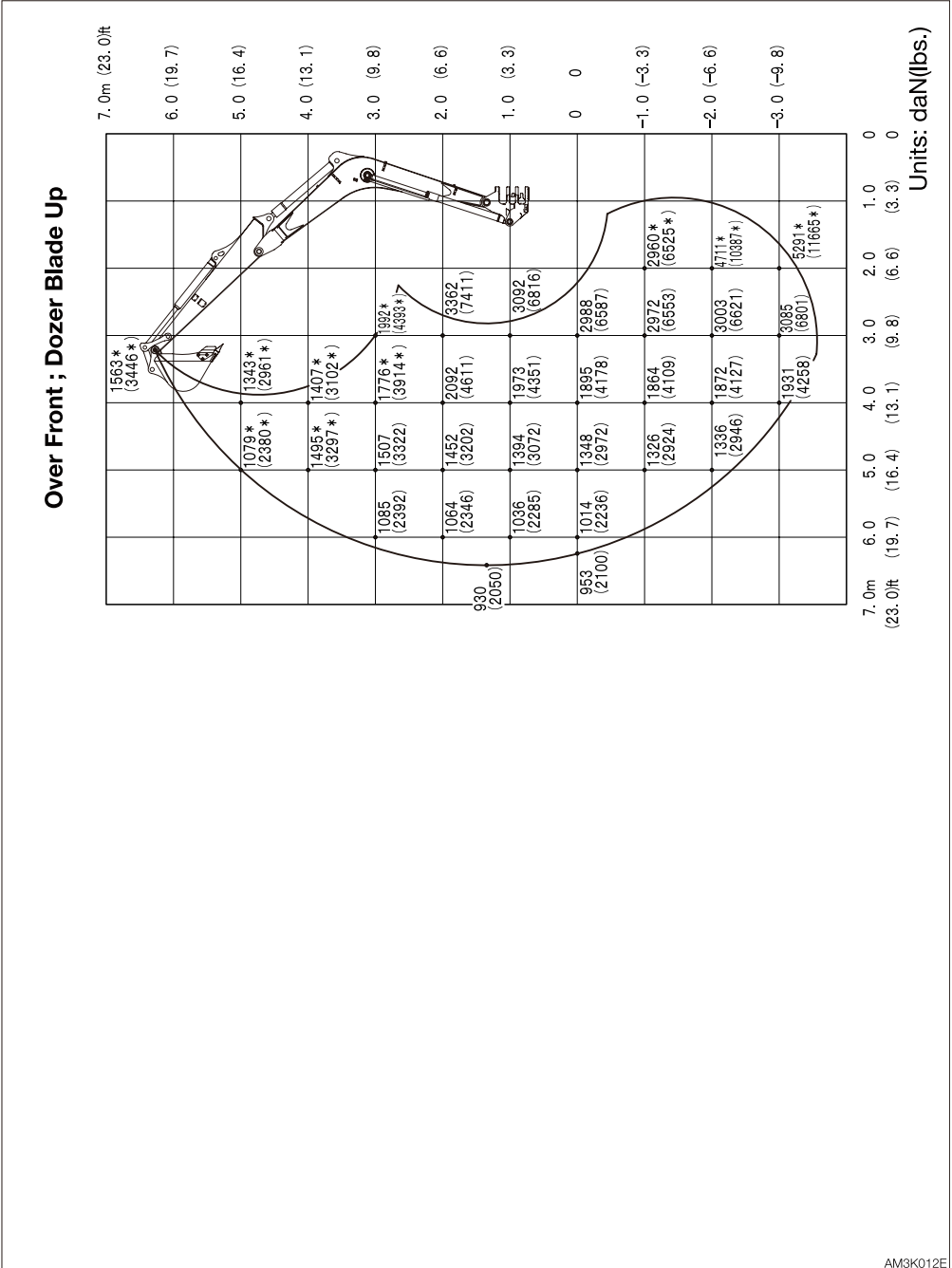






**SPECIFICATIONS**  
**LIFTING CAPACITIES**

**Long arm <Applicable machine models 190200001 or later>**

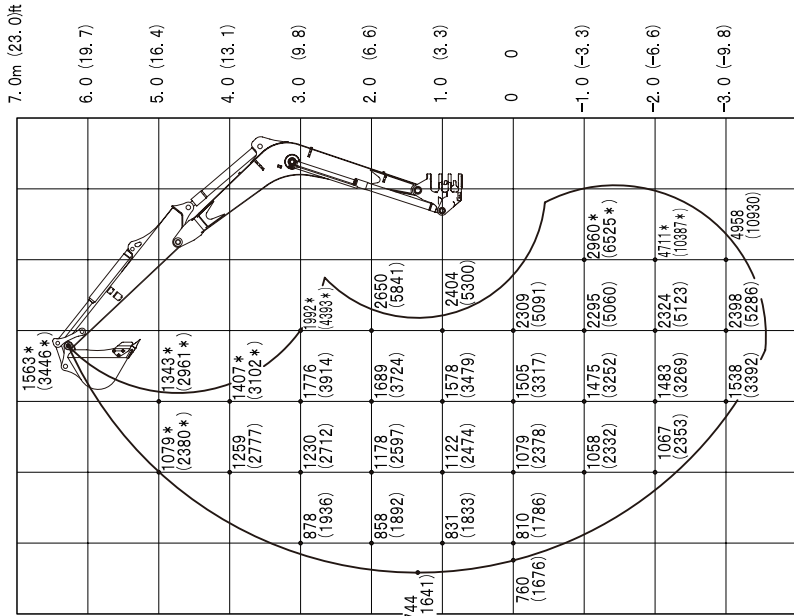


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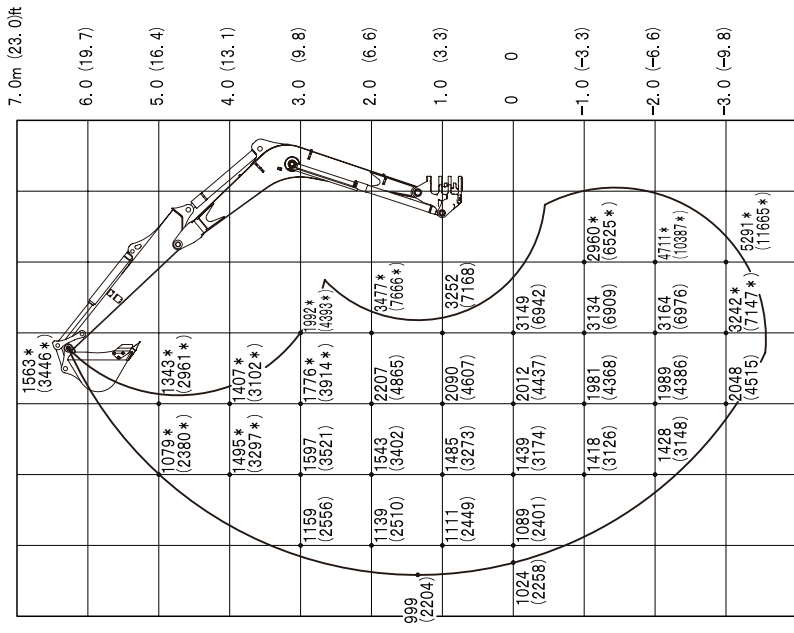


Long arm <Applicable machine models 190200001 or later>

Over Side



Over Rear

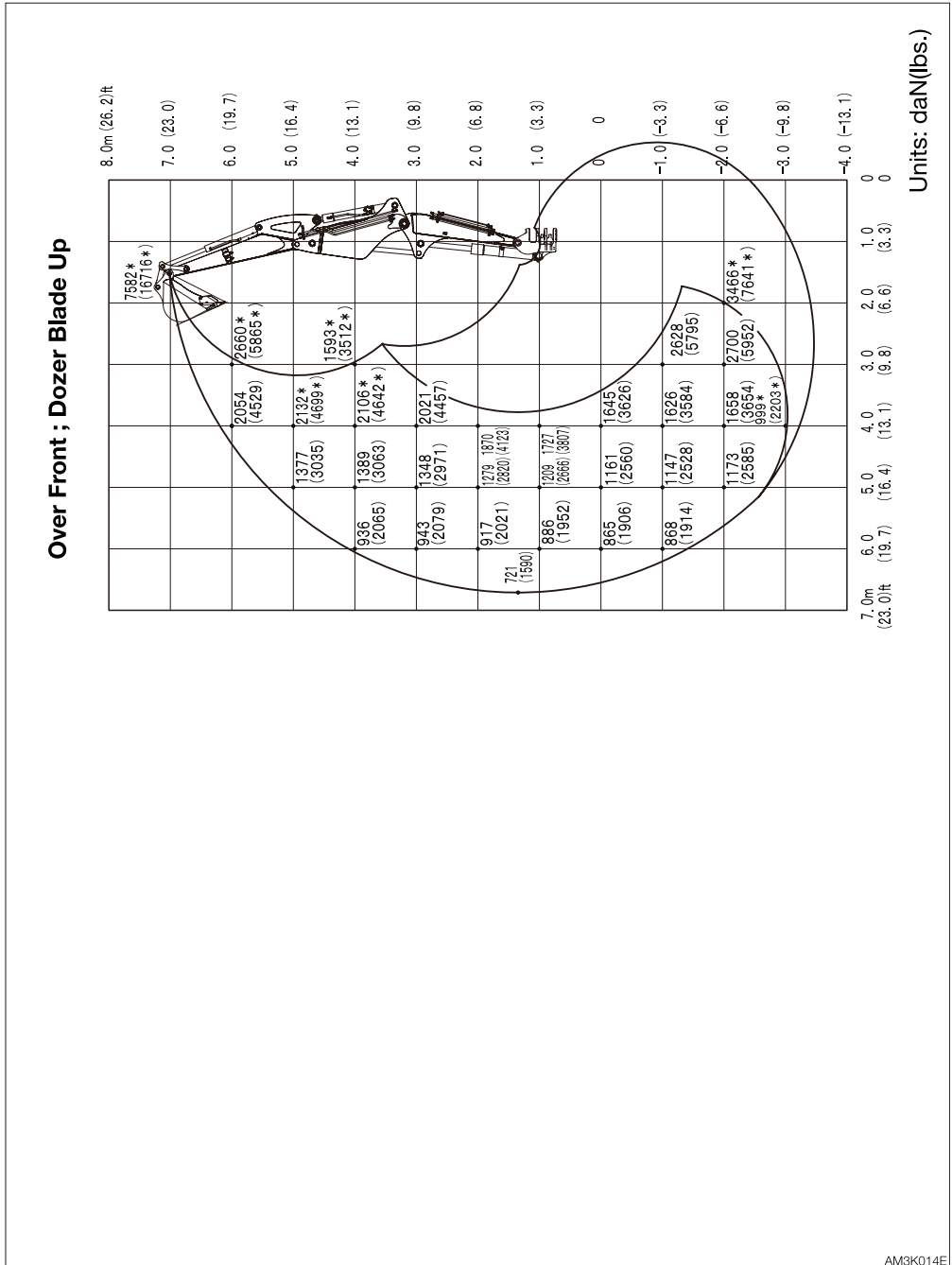


Units: daN(lbs.)

7.0m (23.0ft) 0 1.0 (3.3) 2.0 (6.6) 3.0 (9.8) 4.0 (13.1) 5.0 (16.4) 6.0 (19.7) 7.0m (23.0ft) 0 1.0 (3.3) 2.0 (6.6) 3.0 (9.8) 4.0 (13.1) 5.0 (16.4) 6.0 (19.7) 7.0m (23.0ft)



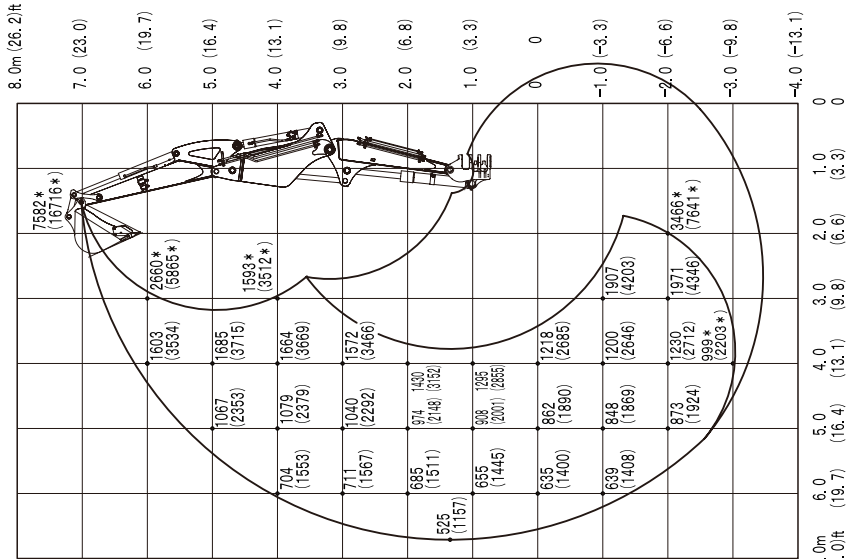
2-Piece boom (One cylinder) <Applicable machine models 185100001 or later>



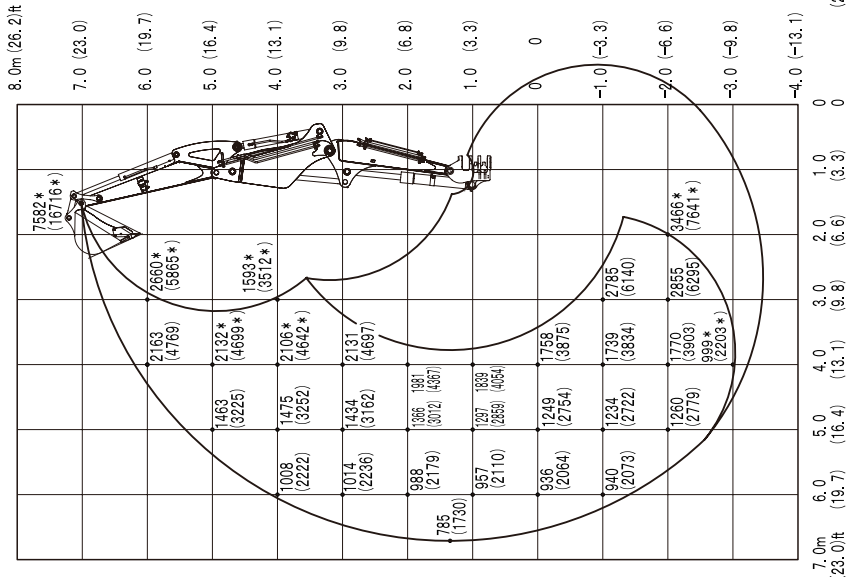


2-Piece boom (One cylinder) <Applicable machine models 185100001 or later>

Over Side



Over Rear



Units: daN(lbs.)

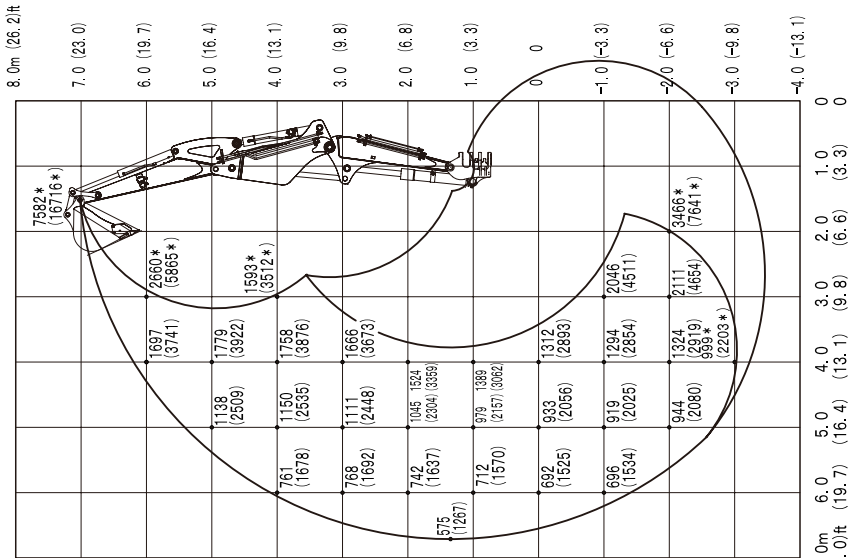




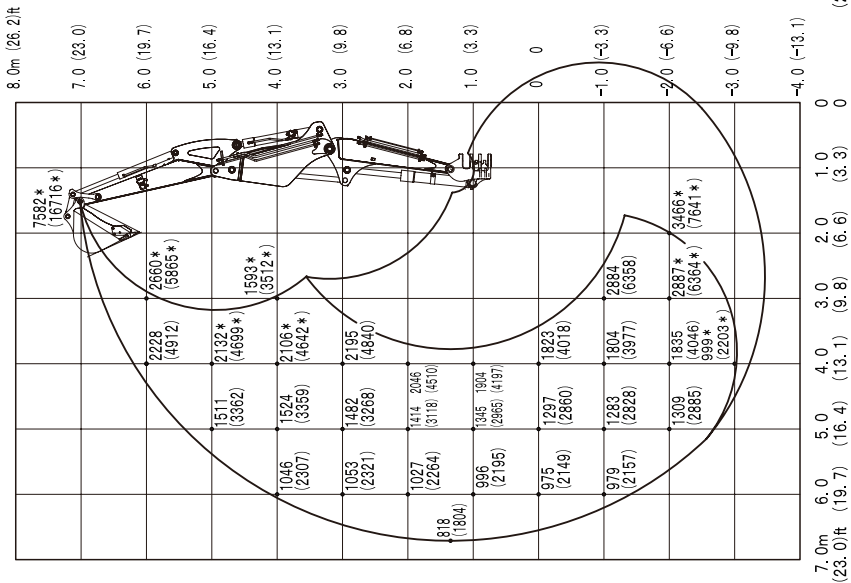


2-Piece boom (One cylinder) <Applicable machine models 190200001 or later>

Over Side



Over Rear



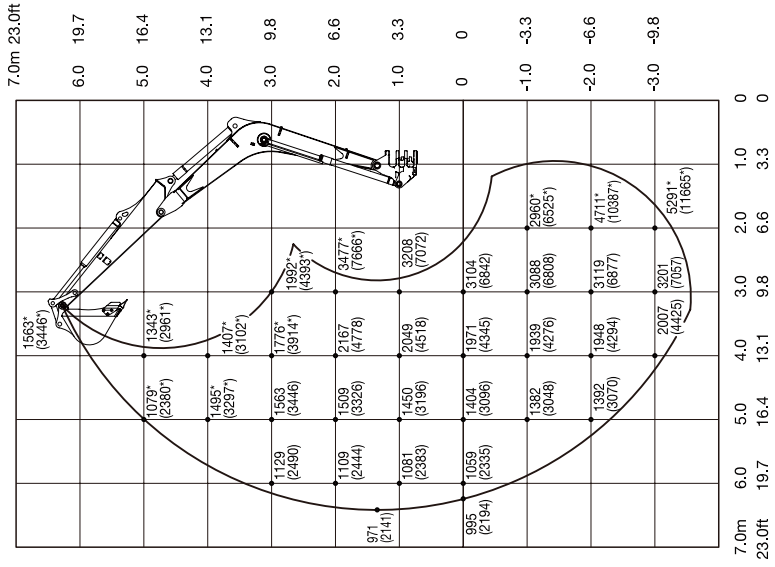
Units: daN(lbs.)



SPECIFICATIONS  
**LIFTING CAPACITIES**

Long arm (Equipped with Extra weight) Rubber crawlers

Over Front ; Dozer Blade Up

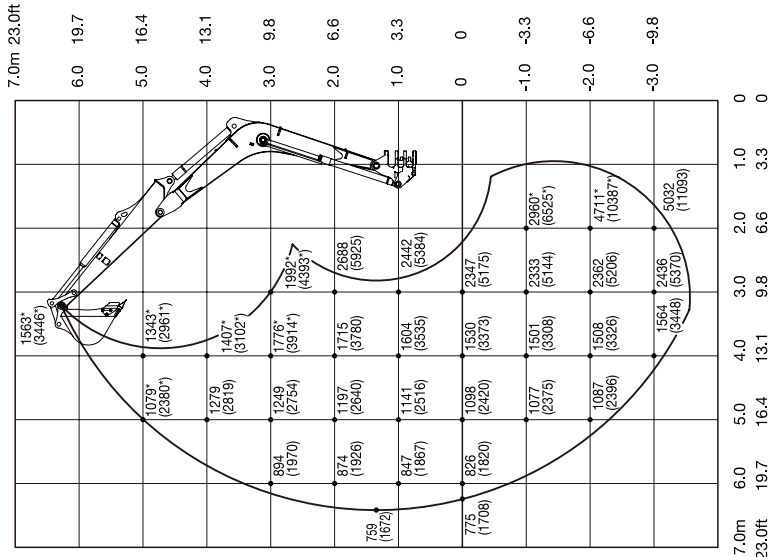


Units: daN(lbs.)

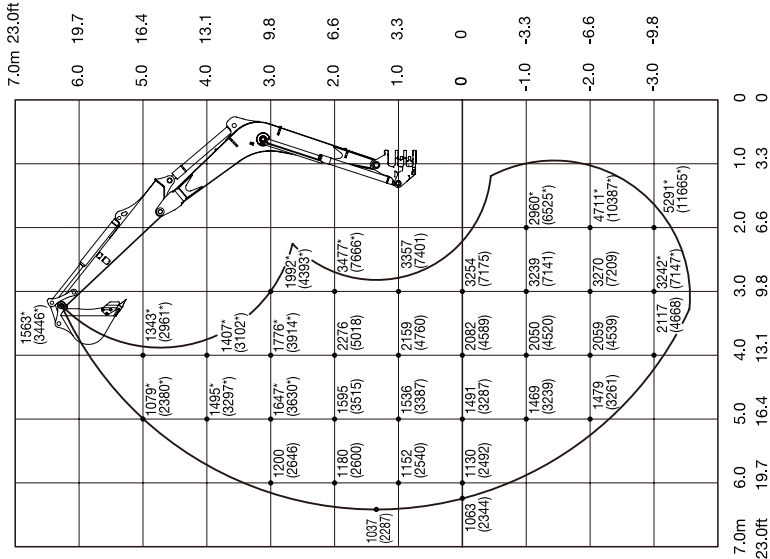


Long arm (Equipped with Extra weight) Rubber crawlers

Over Side



Over Rear

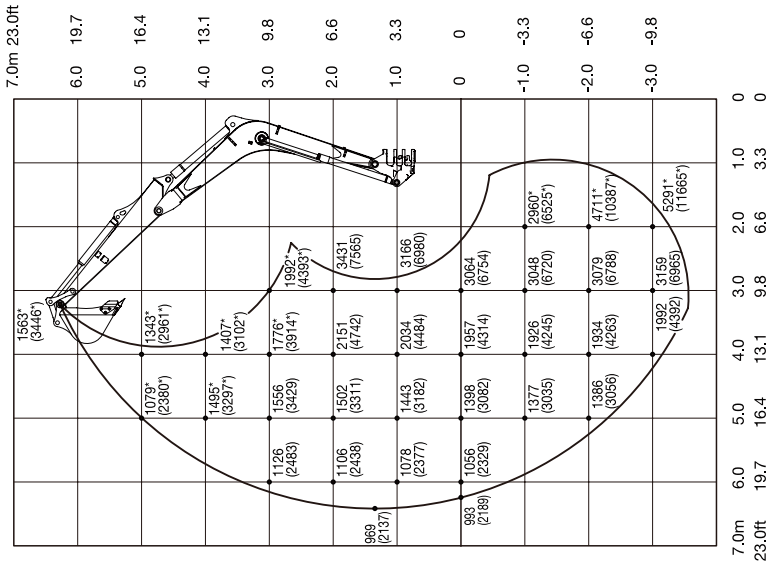


Units: daN(lbs.)



Long arm (Equipped with Extra weight) Steel crawlers

**Over Front ; Dozer Blade Up**

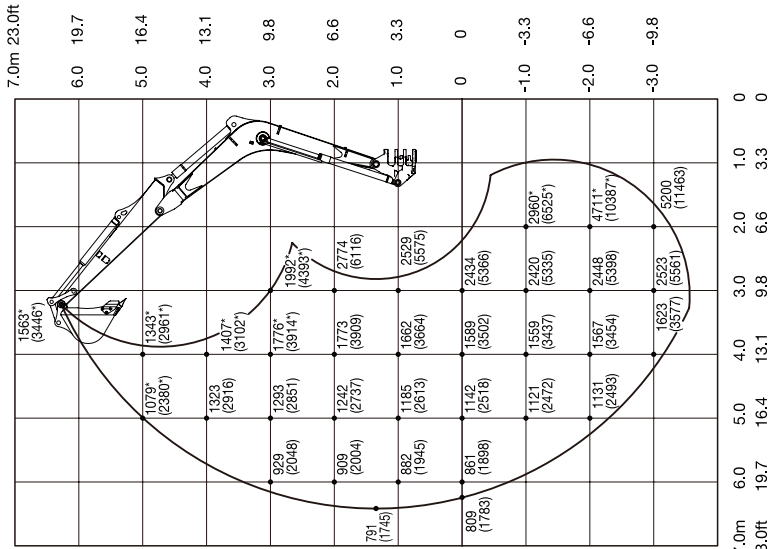


Units: daN(lbs.)

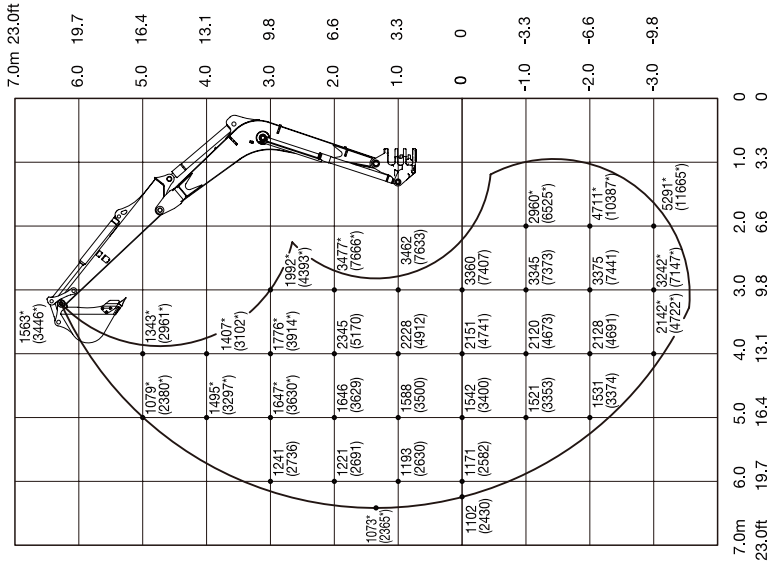


Long arm (Equipped with Extra weight) Steel crawlers

Over Side



Over Rear

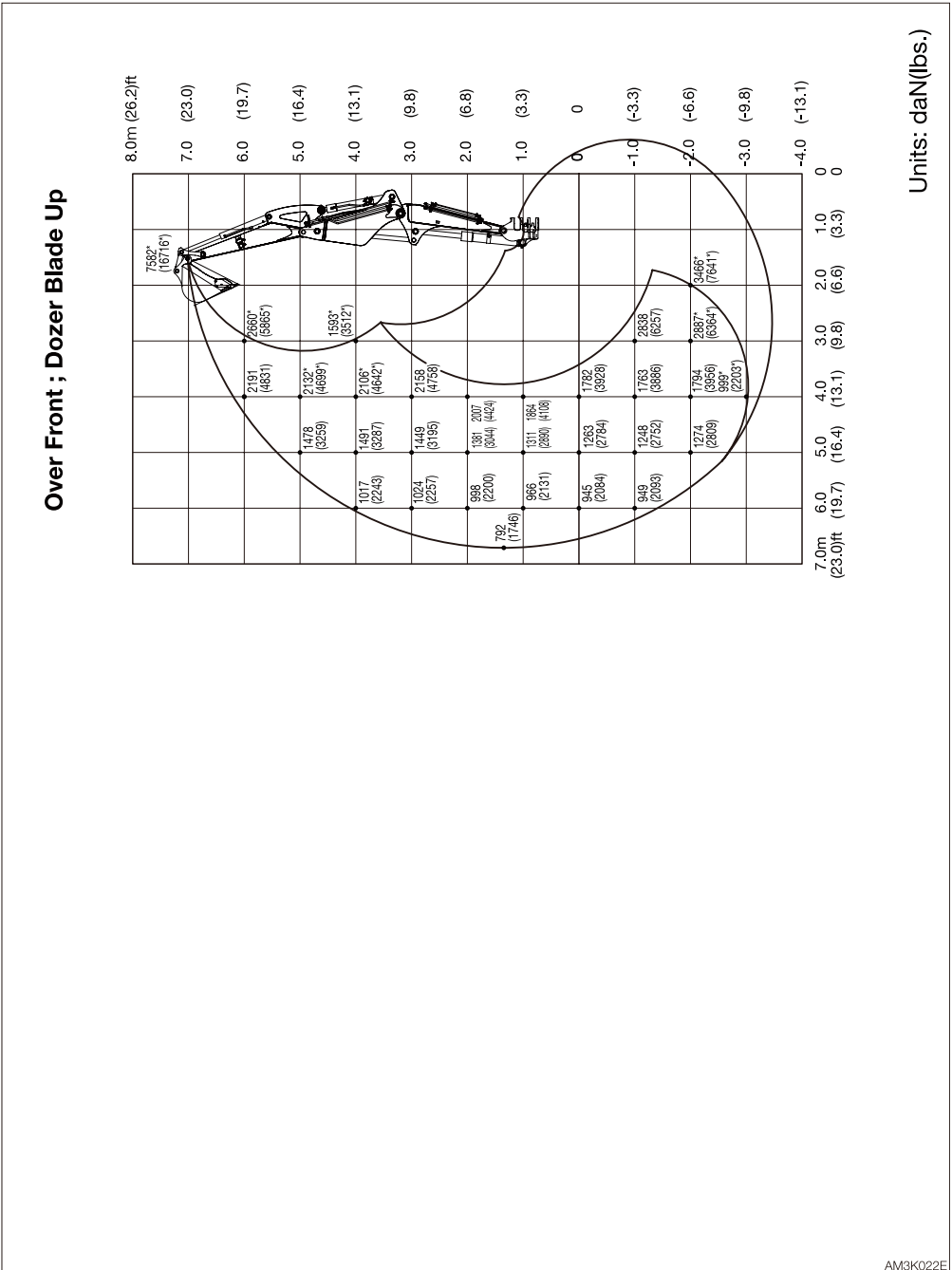


Units: daN(lbs.)



SPECIFICATIONS  
**LIFTING CAPACITIES**

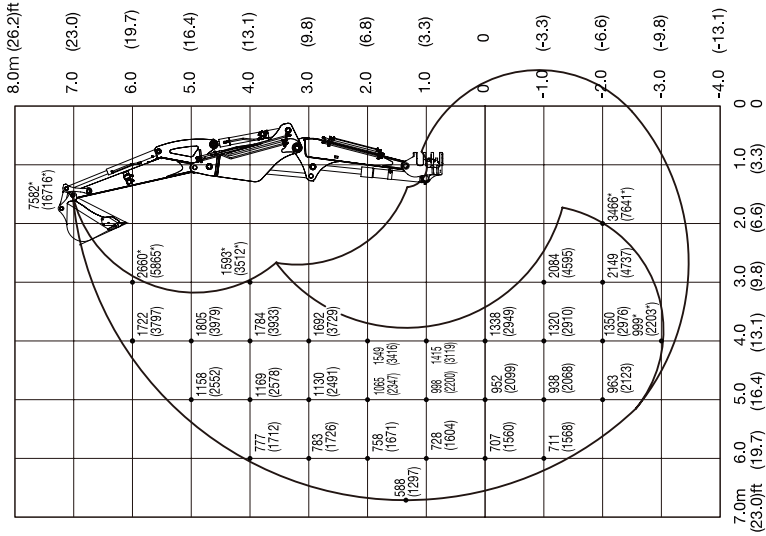
**2-Piece boom (One cylinder) (Equipped with Extra weight) Rubber crawlers**



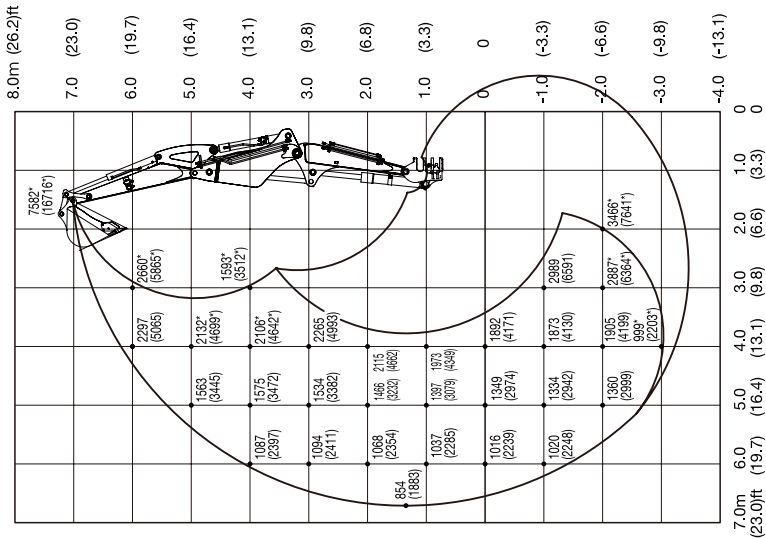


## 2-Piece boom (One cylinder) (Equipped with Extra weight) Rubber crawlers

Over Side



Over Rear

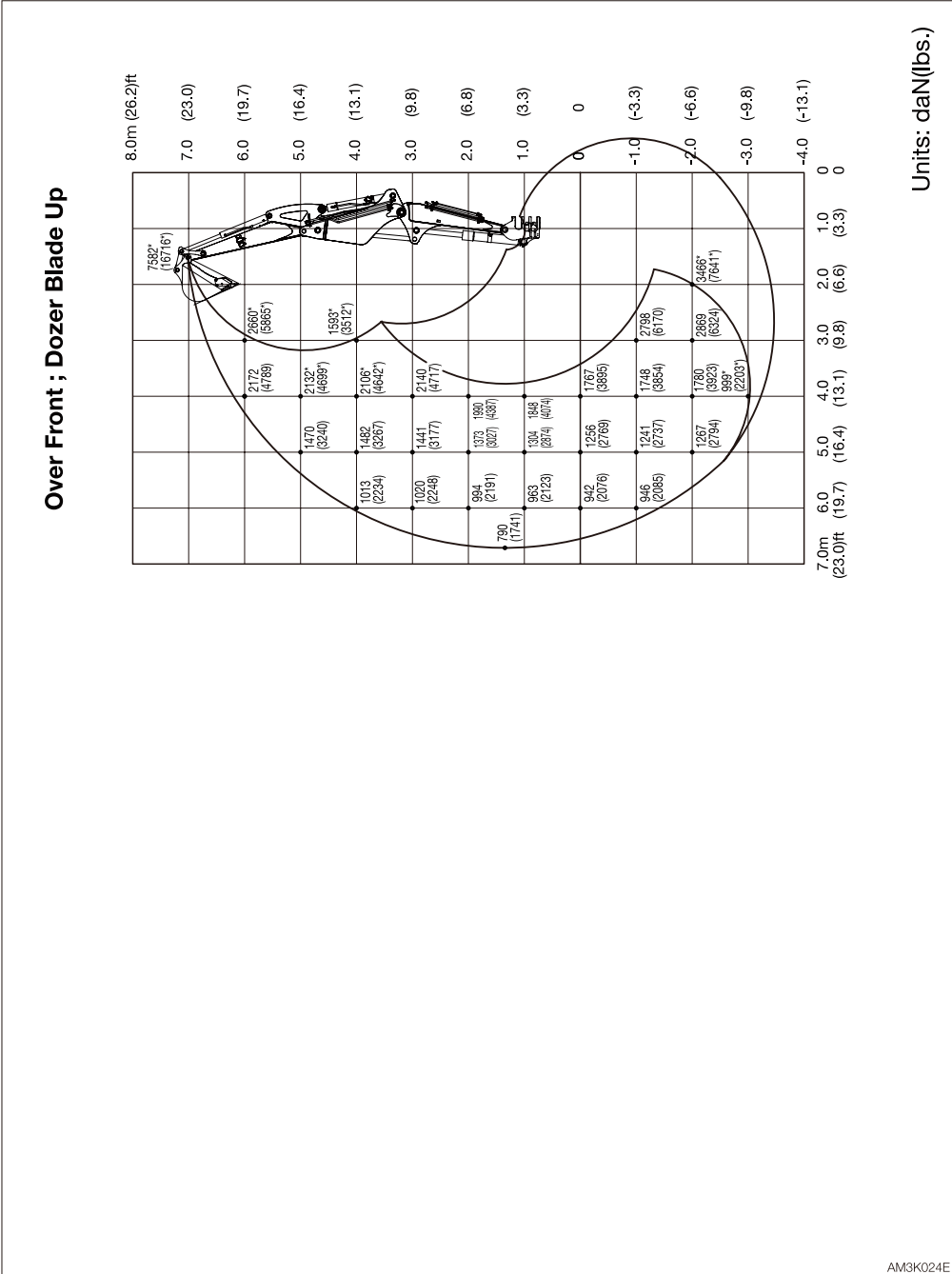


Units: daN(lbs.)



SPECIFICATIONS  
**LIFTING CAPACITIES**

**2-Piece boom (One cylinder) (Equipped with Extra weight) Steel crawlers**

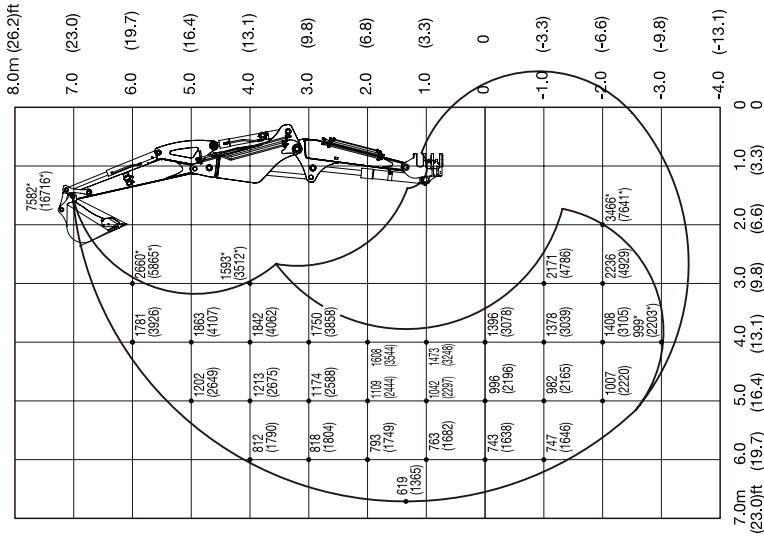




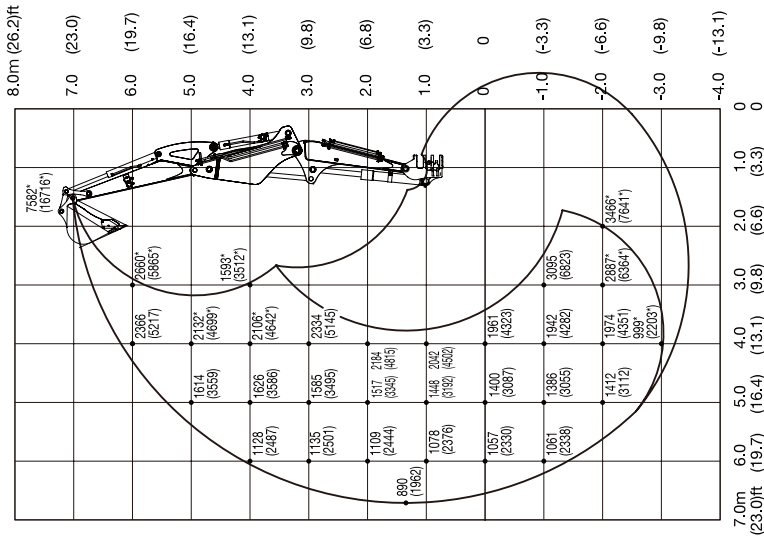


2-Piece boom (One cylinder) (Equipped with Extra weight) Steel crawlers

Over Side



Over Rear

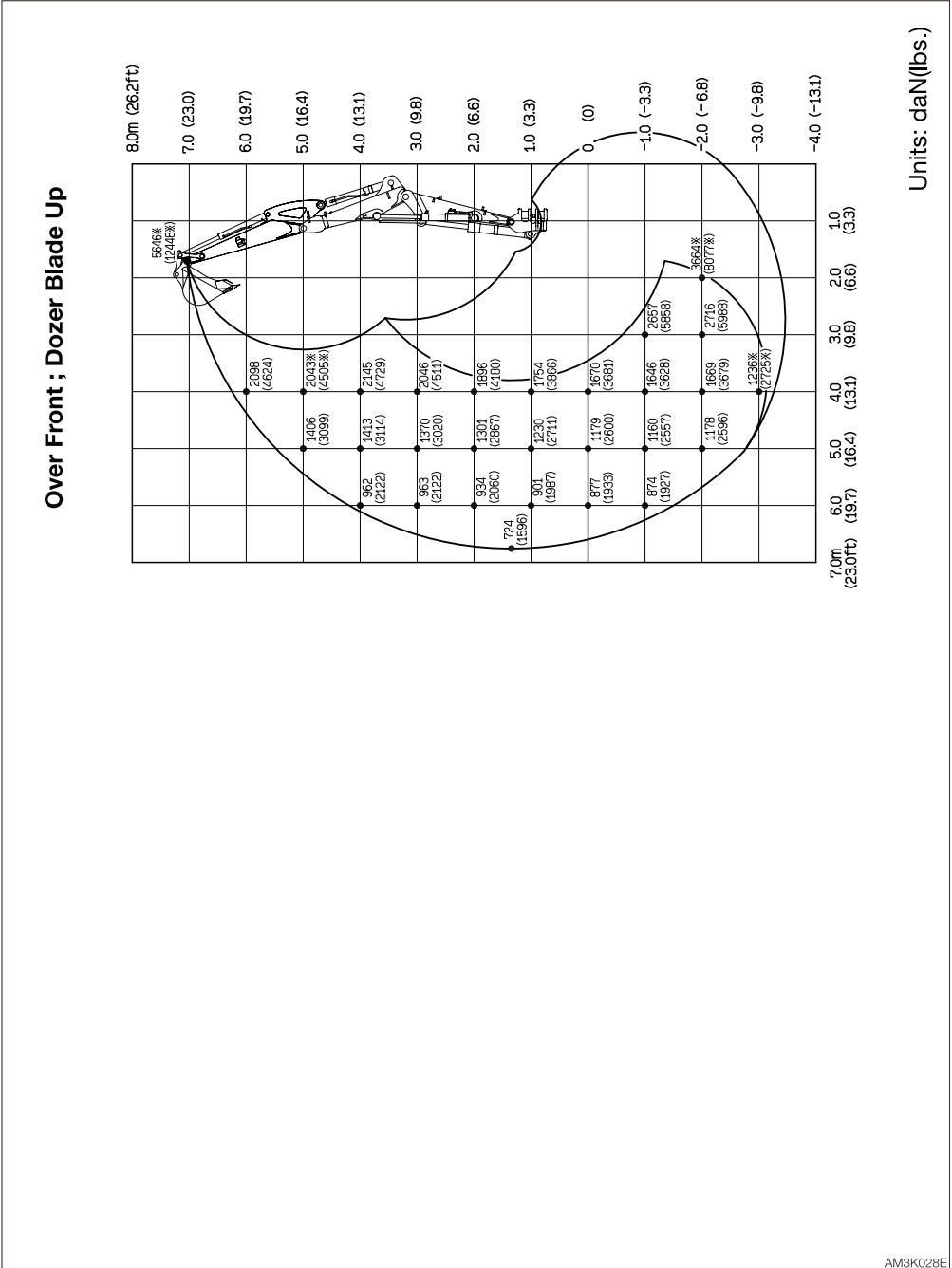


Units: daN(lbs.)



SPECIFICATIONS  
**LIFTING CAPACITIES**

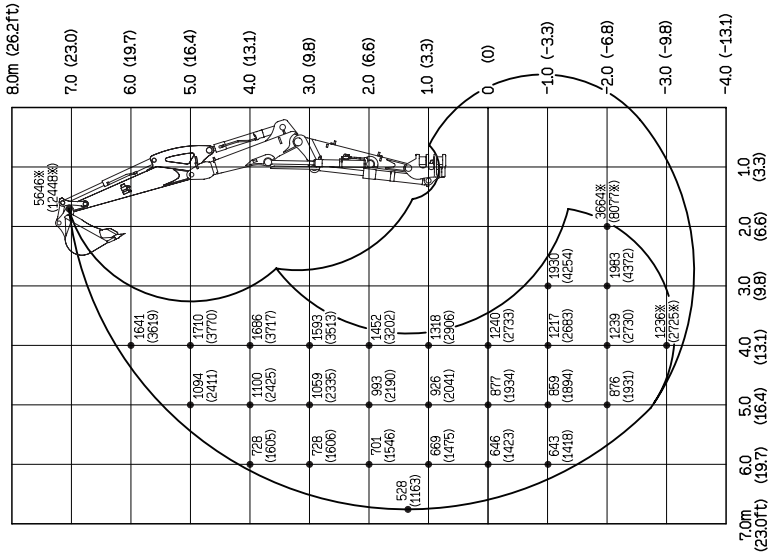
2-Piece boom (Two cylinders) Rubber crawlers



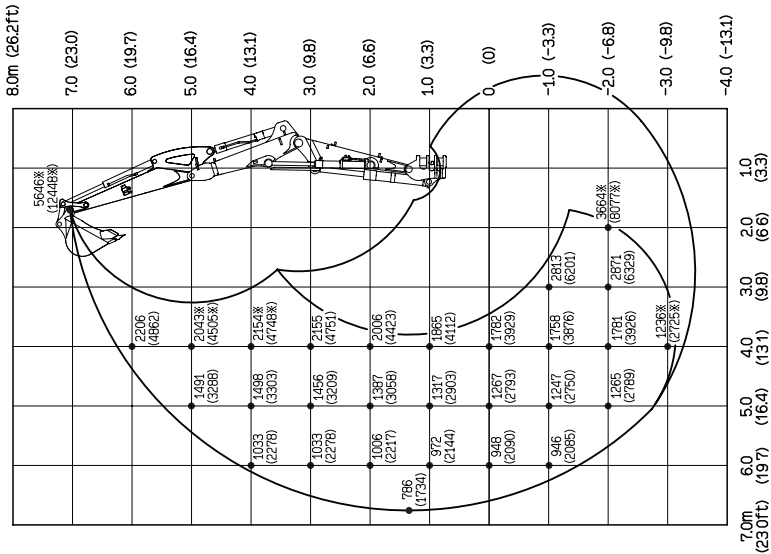


## 2-Piece boom (Two cylinders) Rubber crawler

Over Side



Over Rear



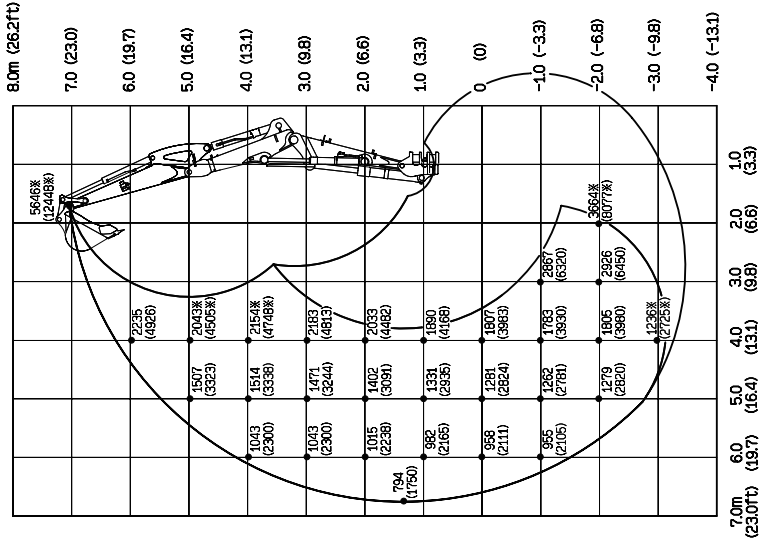
Units: daN(lbs.)



SPECIFICATIONS  
**LIFTING CAPACITIES**

**2-Piece boom (Two cylinders) (Equipped with Extra weight) Rubber crawlers**

**Over Front ; Dozer Blade Up**



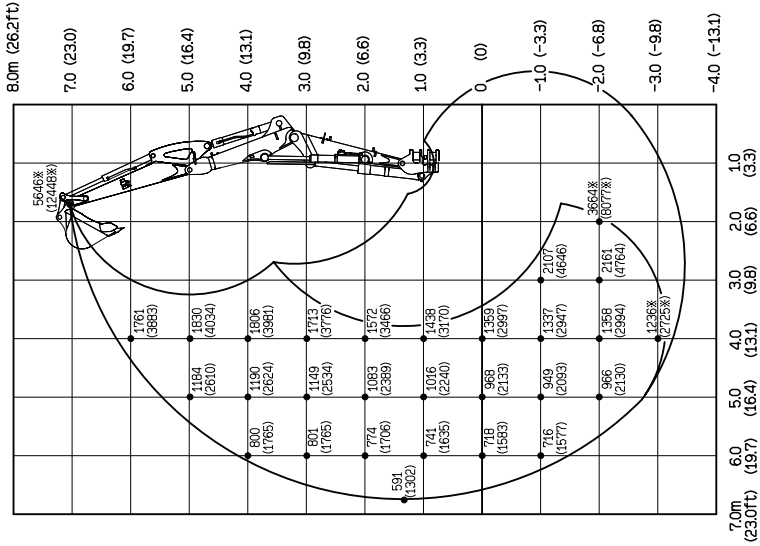
Units: daN(lbs.)



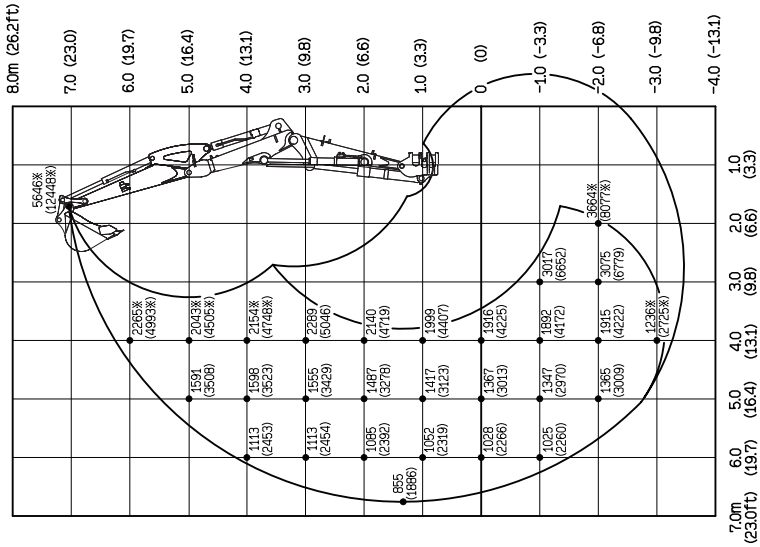
SPECIFICATIONS  
**LIFTING CAPACITIES**

**2-Piece boom (Two cylinders) (Equipped with Extra weight) Rubber crawler**

**Over Side**



**Over Rear**



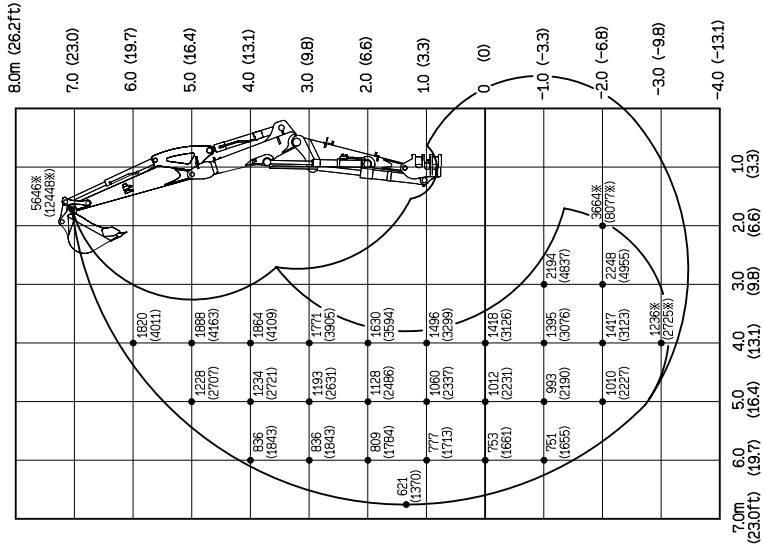
Units: daN(lbs.)



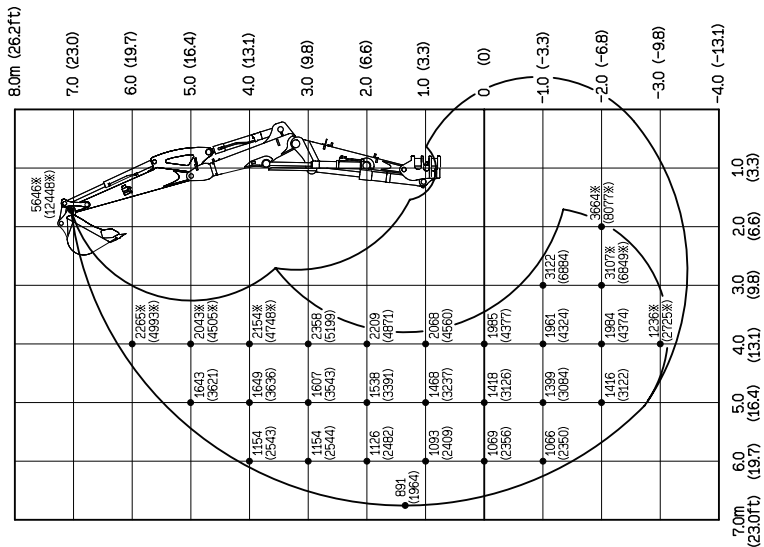


2-Piece boom (Two cylinders) (Equipped with Extra weight) Steel crawlers

Over Side



Over Rear



Units: daN(lbs.)

