

SPECIFICATIONS





BASIC SPECIFICATIONS

Type			2-Piece boom
MASS			
Operating mass	kg (lb)	Machines with outriggers	10625(23425)
		Equipped with a rear blade	10225(22540)
Maximum operating mass**		kg (lb)	12000(26455)
PERFORMANCE			
Bucket capacity (Standard bucket)	m³ (cu. ft.)	Heaped	0.245 (8.65)
		Struck	0.185 (6.53)
Slew speed		min ⁻¹ (rpm)	9.7 (9.7)
Travel speed	km/h (mph)	Low-speed travel 1	0 to 5.6 (3.5) / 0 to 5.6 (3.5)*
		High-speed travel 1	0 to 15.6 (9.7) / 0 to 10.5 (6.5)*
		Low-speed travel 2	0 to 10.5 (6.5) / 0 to 10.5 (6.5)*
		High-speed travel 2	0 to 29.1 (18.1) / 0 to 20.0(12.4)*
Gradeability		(degrees)	35
Noise level dB (A)	Sound power level		L _{WA} 99
	Emission sound pressure level at the operator's position (ISO 6396,2008:)		L _{pA} 71.85
ENGINE			
Manufacturer and model			DEUTZ TCD3.6L4
Rated output	Net (ISO 14396)	kW/min ⁻¹ (hp/rpm)	85/2200 (114/2200)
Displacement		ml (cu.in.)	3621 (221)
Amount of CO ₂ emission***		g/kWh	690.7
Starter		V-kW	24 - 4.0
Alternator		V-kW	28 - 2.24
Battery (IEC 60095-1)		V-A·h	12 – 90 X 2
CCA		A	710

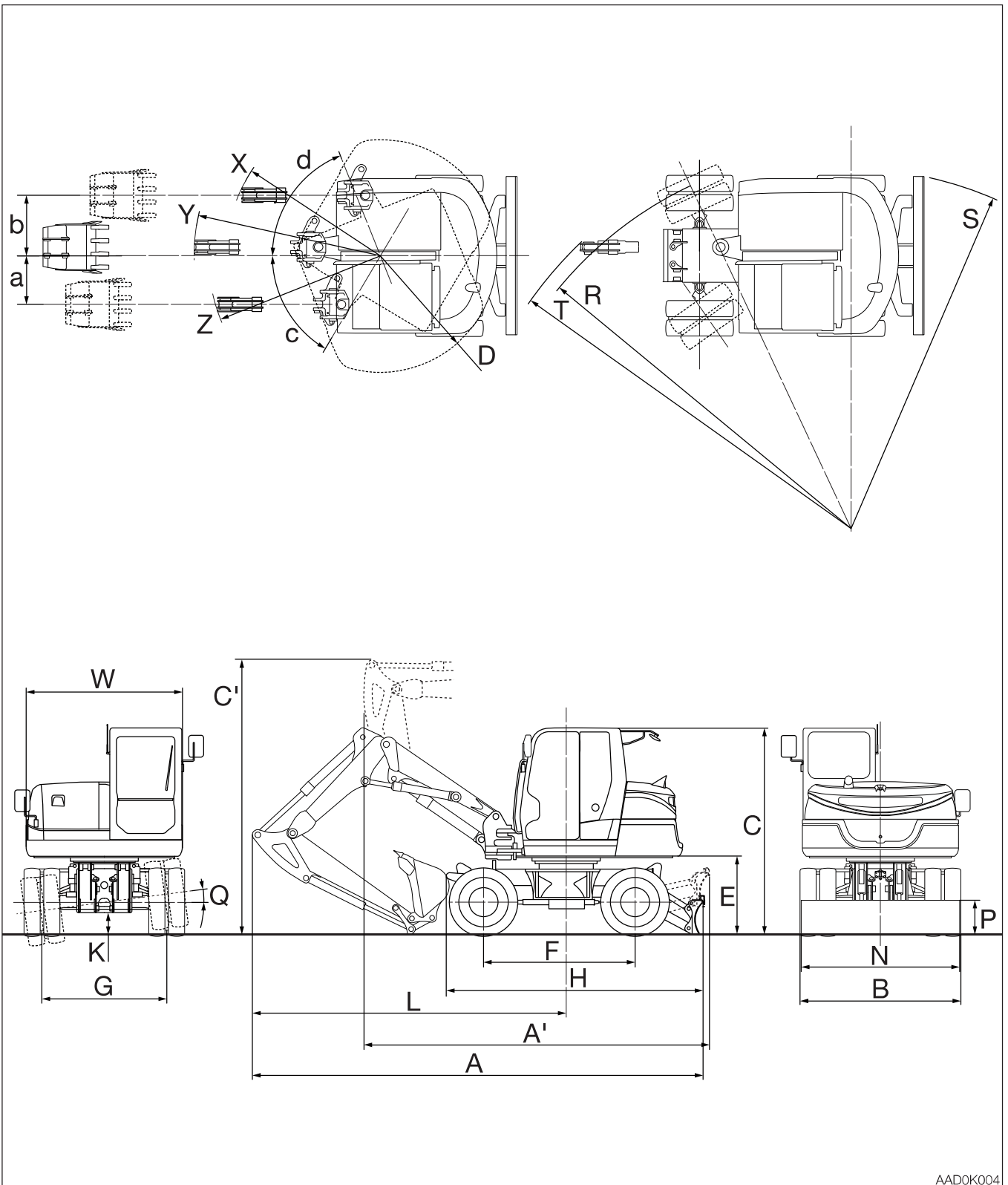
*: for Germany

**.: This value is the maximum safe mass for operation specified by the manufacturer.
Optional accessories can be added until the operating mass exceeds this value.

***.: The amount of CO₂ emission refers to the value obtained by testing the parent engine representing the engine type (engine family member) being used; it shall not guarantee the performance of the machine.

MACHINE DIMENSIONS

2-Piece boom (Two cylinders) (Equipped with a rear blade)



AAD0K004



SPECIFICATIONS MACHINE DIMENSIONS

2-Piece boom (Two cylinders) (Equipped with a rear blade)

Unit: mm (inch)

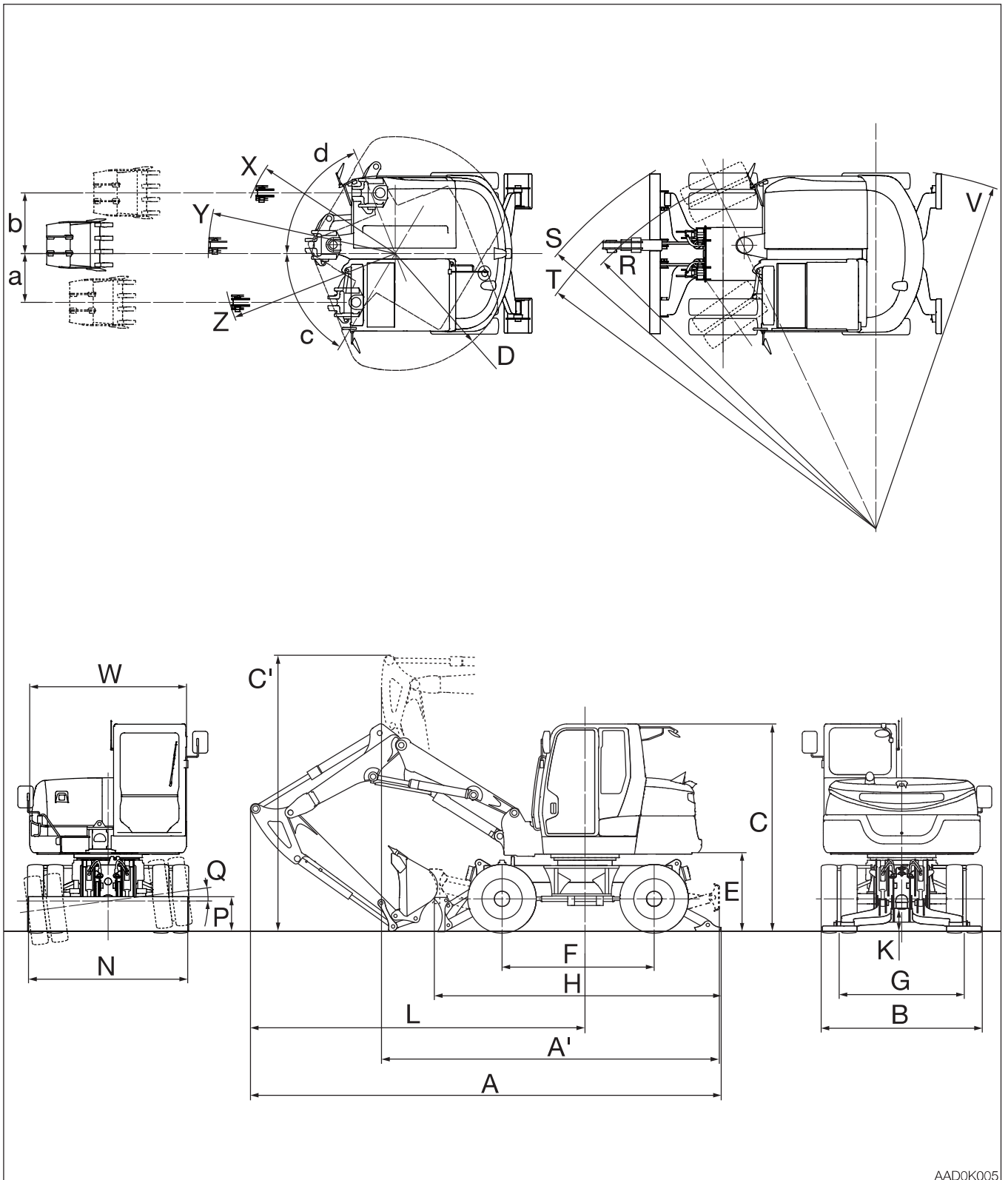
	Item	2-Piece boom
A	Overall length	6555 (258)
A'	Overall length (Road travel posture)	5580 (220)
B	Overall width	2320 (91) 2380 (94)*
B'	Overall width (Equipped with mud guard)	2360 (93) 2410 (95)*
C	Overall height	3020 (119) 3055 (120)**
C'	Overall height (Road travel posture)	3975 (156)
D	Slew radius	1690 (67)
E	Clearance height under upperstructure	1115 (44)
F	Wheel base	2200 (87)
G	Tread	1810 (71)
H	Overall length of undercarriage	3745 (147)
K	Ground clearance of undercarriage	320 (13)
L	Front distance to axis of rotation	4550 (179)
N	Dozer blade width	2300 (91)
P	Dozer blade height	500 (20)
Q	Swing angle of axles	6.5°
Q'	Swing angle of axles (Equipped with mud guard)	3.5°
R	Minimum turning radius (Tire)	5725 (225) 3365 (132)***
S	Minimum turning radius (Dozer blade)	5470 (215) 3905 (154)***
T	Outside machine clearance radius	6290 (248) 4115 (162)***
W	Overall width of upperstructure	2270 (89)
X	Minimum radius of equipment at maximum front offset (Right)	2010 (79)
Y	Minimum radius of equipment and attachment	2445 (96)
Z	Minimum radius of equipment at maximum front offset (Left)	2255 (89)
a	Offset distance of bucket (right swing)	705 (28)
b	Offset distance of bucket (left swing)	875 (34)
c	Boom swing angle (Right)	59°
d	Boom swing angle (Left)	68°

*:Gapless tire specification

** :With roof guard

***:4WS mode

2-Piece boom (Two cylinders) (Machines with outriggers)



AAD0K005



SPECIFICATIONS MACHINE DIMENSIONS

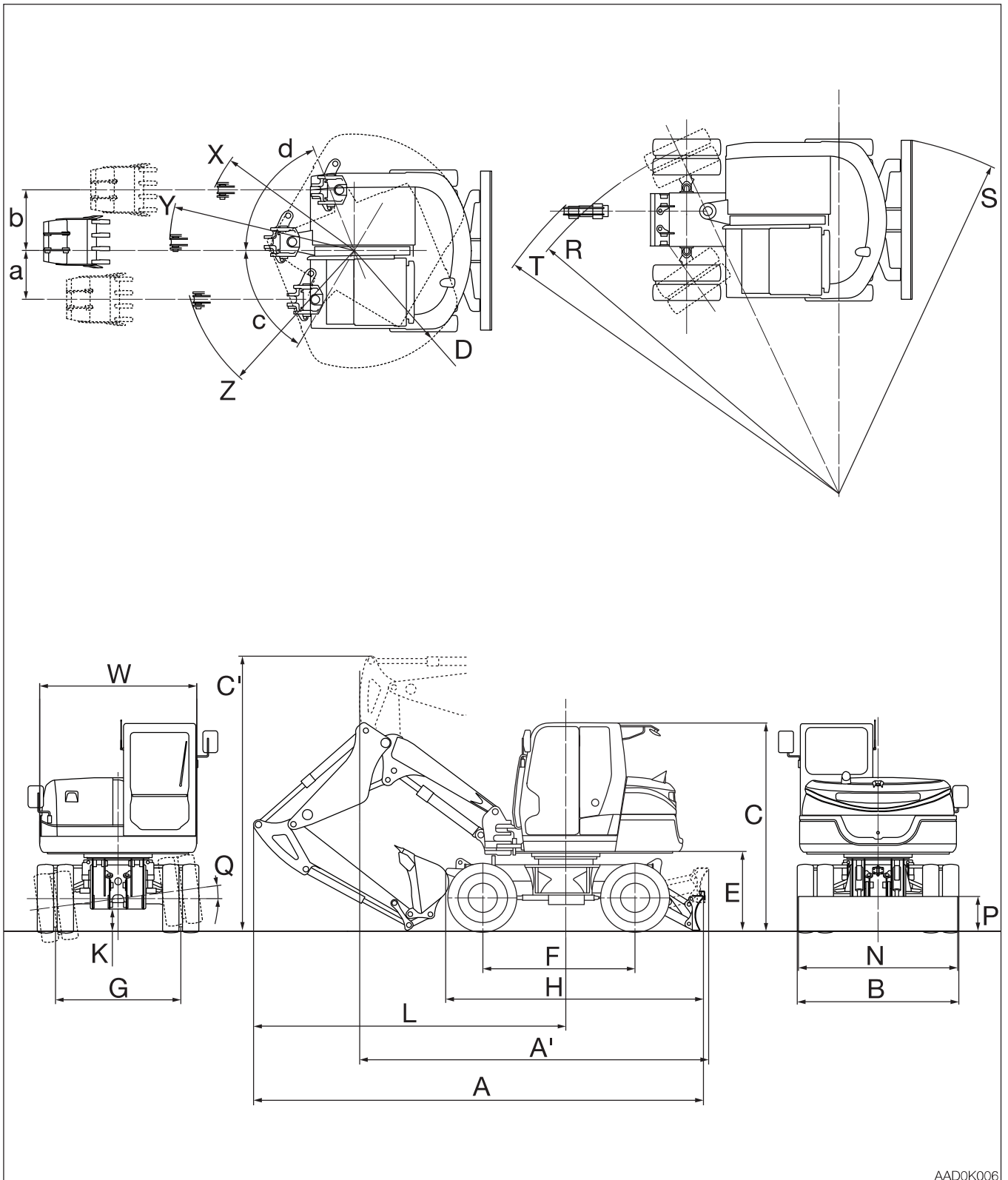
2-Piece boom (Two cylinders) (Machines with outriggers)

Unit: mm (inch)

	Item	2-Piece boom
A	Overall length	6790 (267)
A'	Overall length (Road travel posture)	5440 (214)
B	Overall width	2320 (91) 2380 (94)*
B'	Overall width (Equipped with mud guard)	2360 (93) 2410 (95)*
C	Overall height	3020 (119) 3055 (120)**
C'	Overall height (Road travel posture)	3975 (156)
D	Slew radius	1690 (67)
E	Clearance height under upperstructure	1115 (44)
F	Wheel base	2200 (87)
G	Tread	1810 (71)
H	Overall length of undercarriage	4165 (164)
K	Ground clearance of undercarriage	320 (13)
L	Front distance to axis of rotation	4815 (190)
N	Dozer blade width	2300 (91)
P	Dozer blade height	500 (20)
Q	Swing angle of axles	6.5°
Q'	Swing angle of axles (Equipped with mud guard)	3.5°
R	Minimum turning radius (Tire)	5725 (225) 3365 (132)***
S	Minimum turning radius (Dozer blade)	6280 (247) 3920 (154)***
T	Outside machine clearance radius	6290 (248) 4115 (162)***
V	Minimum turn radius (outrigger)	5450 (215) 3840 (151)**
W	Overall width of upperstructure	2270 (89)
X	Minimum radius of equipment at maximum front offset (Right)	2010 (79)
Y	Minimum radius of equipment and attachment	2445 (96)
Z	Minimum radius of equipment at maximum front offset (Left)	2255 (89)
a	Offset distance of bucket (right swing)	705 (28)
b	Offset distance of bucket (left swing)	875 (34)
c	Boom swing angle (Right)	59°
d	Boom swing angle (Left)	68°

*:Gapless tire specification **:With roof guard ***:4WS mode

2-Piece boom (One cylinder) (Equipped with a rear blade)



AAD0K006



SPECIFICATIONS MACHINE DIMENSIONS

2-Piece boom (One cylinder) (Equipped with a rear blade)

Unit: mm (inch)

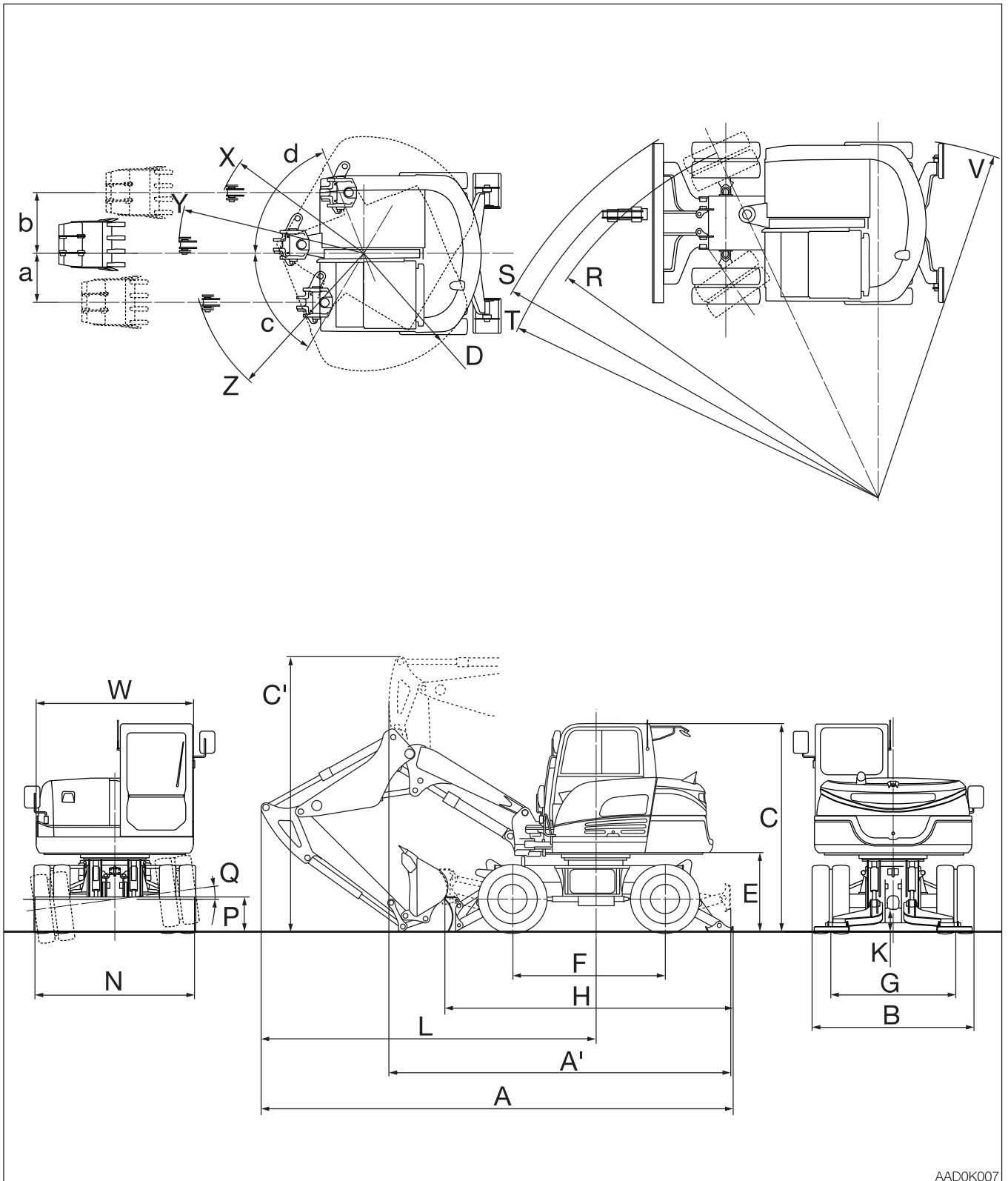
	Item	2-Piece boom
A	Overall length	6530 (257)
A'	Overall length (Road travel posture)	5065 (199)
B	Overall width	2320 (91) 2380 (94)*
B'	Overall width (Equipped with mud guard)	2360 (93) 2410 (95)*
C	Overall height	3020 (119) 3055 (120)**
C'	Overall height (Road travel posture)	4000 (156)
D	Slew radius	1690 (67)
E	Clearance height under upperstructure	1115 (44)
F	Wheel base	2200 (87)
G	Tread	1810 (71)
H	Overall length of undercarriage	3745 (147)
K	Ground clearance of undercarriage	320 (13)
L	Front distance to axis of rotation	4520 (178)
N	Dozer blade width	2300 (91)
P	Dozer blade height	500 (20)
Q	Swing angle of axles	6.5°
Q'	Swing angle of axles (Equipped with mud guard)	3.5°
R	Minimum turning radius (Tire)	5725 (225) 3365 (132)***
S	Minimum turning radius (Dozer blade)	5470 (215) 3905 (154)***
T	Outside machine clearance radius	5930 (233) 3695 (145)***
W	Overall width of upperstructure	2270 (89)
X	Minimum radius of equipment at maximum front offset (Right)	2215 (87)
Y	Minimum radius of equipment and attachment	2675 (105)
Z	Minimum radius of equipment at maximum front offset (Left)	2470 (97)
a	Offset distance of bucket (right swing)	705 (28)
b	Offset distance of bucket (left swing)	875 (34)
c	Boom swing angle (Right)	59°
d	Boom swing angle (Left)	68°

*:Gapless tire specification

** :With roof guard

***:4WS mode

2-Piece boom (One cylinder) (Machines with outriggers)



AAD0K007



SPECIFICATIONS MACHINE DIMENSIONS

2-Piece boom (One cylinder) (Machines with outriggers)

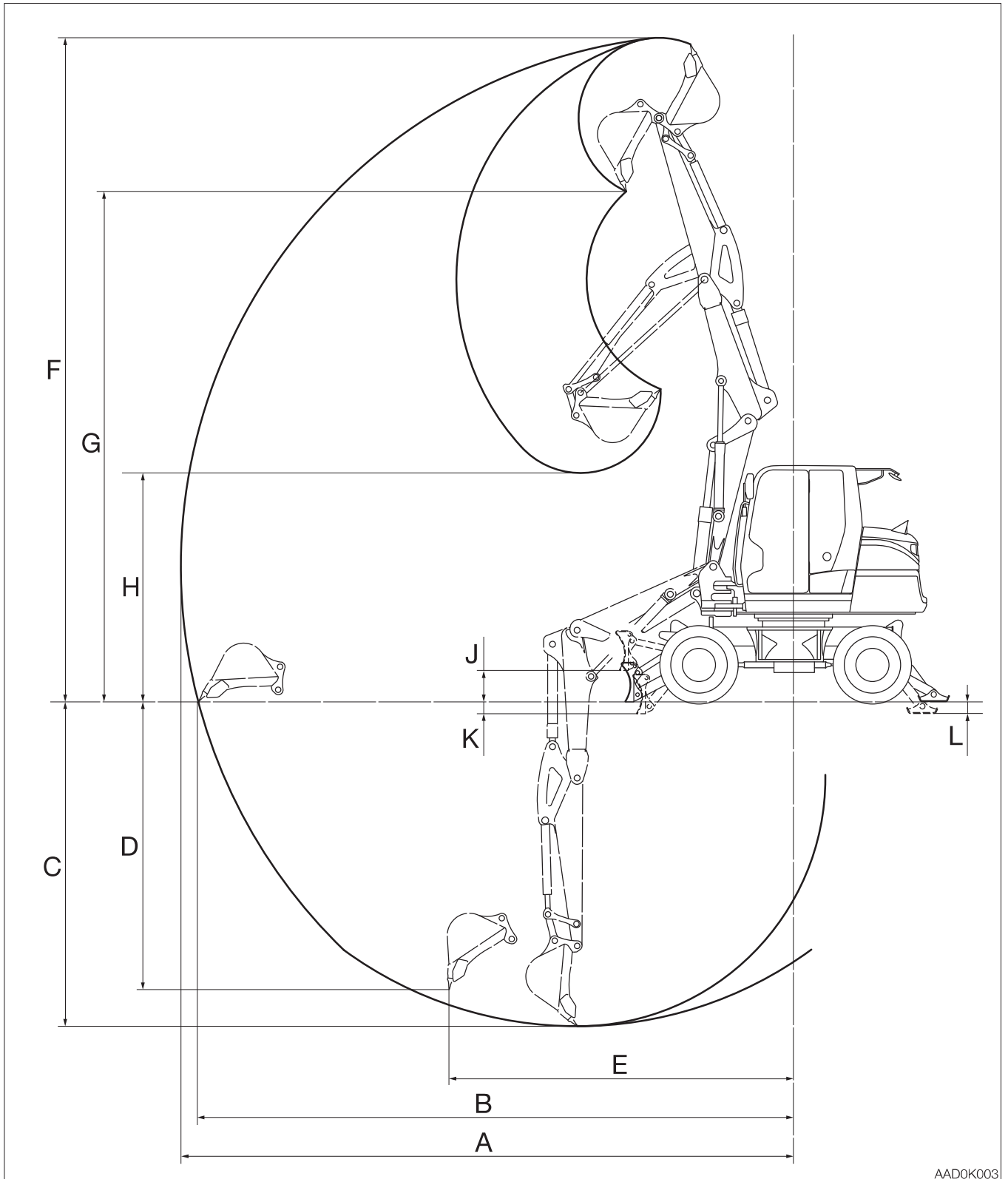
Unit: mm (inch)

	Item	2-Piece boom
A	Overall length	6815 (268)
A'	Overall length (Road travel posture)	4925 (194)
B	Overall width	2320 (91) 2380 (94)*
B'	Overall width (Equipped with mud guard)	2360 (93) 2410 (95)*
C	Overall height	3020 (119) 3055 (120)**
C'	Overall height (Road travel posture)	4000 (156)
D	Slew radius	1690 (67)
E	Clearance height under upperstructure	1115 (44)
F	Wheel base	2200 (87)
G	Tread	1810 (71)
H	Overall length of undercarriage	4165 (164)
K	Ground clearance of undercarriage	320 (13)
L	Front distance to axis of rotation	4835 (190)
N	Dozer blade width	2300 (91)
P	Dozer blade height	500 (20)
Q	Swing angle of axles	6.5°
Q'	Swing angle of axles (Equipped with mud guard)	3.5°
R	Minimum turning radius (Tire)	5725 (225) 3365 (132)***
S	Minimum turning radius (Dozer blade)	6280 (247) 3920 (154)***
T	Outside machine clearance radius	5930 (233) 3695 (145)***
V	Minimum turn radius (outrigger)	5450 (215) 3840 (151)***
W	Overall width of upperstructure	2270 (89)
X	Minimum radius of equipment at maximum front offset (Right)	2215 (87)
Y	Minimum radius of equipment and attachment	2675 (105)
Z	Minimum radius of equipment at maximum front offset (Left)	2470 (97)
a	Offset distance of bucket (right swing)	705 (28)
b	Offset distance of bucket (left swing)	875 (34)
c	Boom swing angle (Right)	59°
d	Boom swing angle (Left)	68°

*:Gapless tire specification ** :With roof guard ***:4WS mode

OPERATING RANGES

2-Piece boom (Two cylinders)



AAD0K003



SPECIFICATIONS OPERATING RANGES

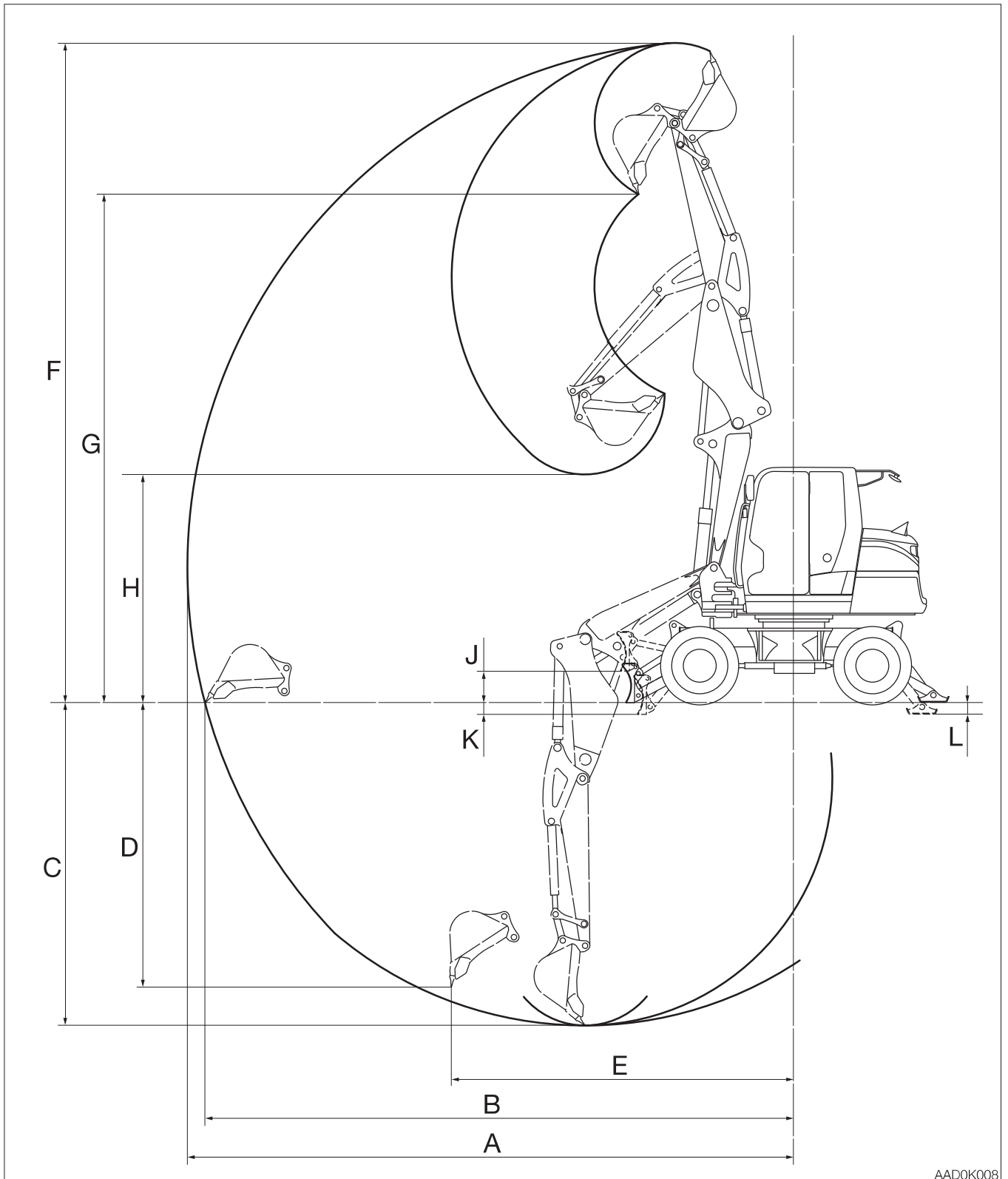
2-Piece boom (Two cylinders)

Unit: mm (inch)

	Item	2-Piece boom
A	Maximum reach	7675 (302)
B	Maximum reach at ground reference plane	7450 (293)
C	Maximum digging depth	4095 (161)
D	Maximum vertical digging depth	3525 (139)
E	Reach at maximum vertical digging depth	4775 (188)
F	Maximum height of cutting edge	8260 (325)
G	Maximum dumping height	6240 (246)
H	Minimum dumping height	2605 (103)
J	Dozer blade maximum lifting height	400 (16)
K	Dozer blade maximum lowering depth	150 (6)
L	Outrigger maximum lowering depth*	150 (6)

*: Machines with outriggers

2-Piece boom (One cylinder)



AAD0K008



SPECIFICATIONS OPERATING RANGES

2-Piece boom (One cylinder)

Unit: mm (inch)

	Item	2-Piece boom
A	Maximum reach	7730 (304)
B	Maximum reach at ground reference plane	7510 (296)
C	Maximum digging depth	4115 (162)
D	Maximum vertical digging depth	3625 (143)
E	Reach at maximum vertical digging depth	4390 (173)
F	Maximum height of cutting edge	8400 (331)
G	Maximum dumping height	6475 (255)
H	Minimum dumping height	2905 (114)
J	Dozer blade maximum lifting height	400 (16)
K	Dozer blade maximum lowering depth	150 (6)
L	Outrigger maximum lowering depth*	150 (6)

*: Machines with outriggers



LIFTING CAPACITIES

When an excavator is used to lift loads in Europe, it must comply with EN 474-1. Install the following devices, and then turn on the overload warning switch before starting the lifting operation:

- Lifting device
- Lifting safety device

The lifting safety device must include the emergency shut-off valves on the boom and on the arm.

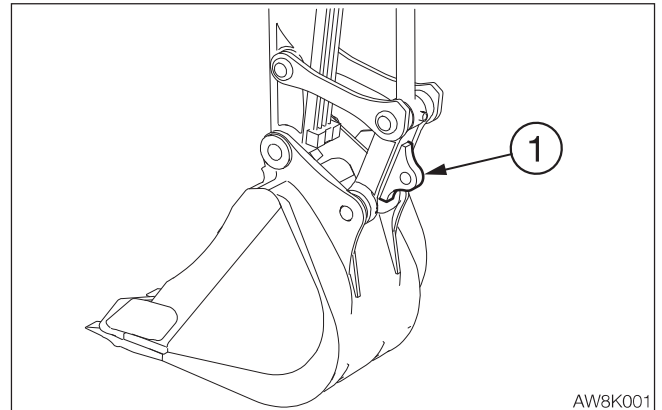
For a 2-piece boom machine, an emergency shut-off valve must be installed on the first boom, the second boom and the arm, respectively.

If the blade is used as an outrigger when lifting loads, the blade cylinder must be equipped with an emergency shut-off valve. Refer to “Lifting safety device (If equipped)” on page 2-121.

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 bucket mass is excluded.
- 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.
- The bucket cylinder is fully extended.
- Unit: kg (lbs)

Lifting device (If equipped)



When lifting loads, install the sling on the lifting device (1).

Load hooking system

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

1. A system which can withstand two-and-a-half times 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.



SPECIFICATIONS

LIFTING CAPACITIES

Inspection before lifting loads

Before lifting loads, inspect the following items to ensure there is no abnormality:

- Inspect for any damage to the attachment, hose or lifting device.
- Confirm that the overload warning device operates.

Turn on the overload warning switch, and then fully raise the boom. If the horn is sounded, the overload warning device is normal.

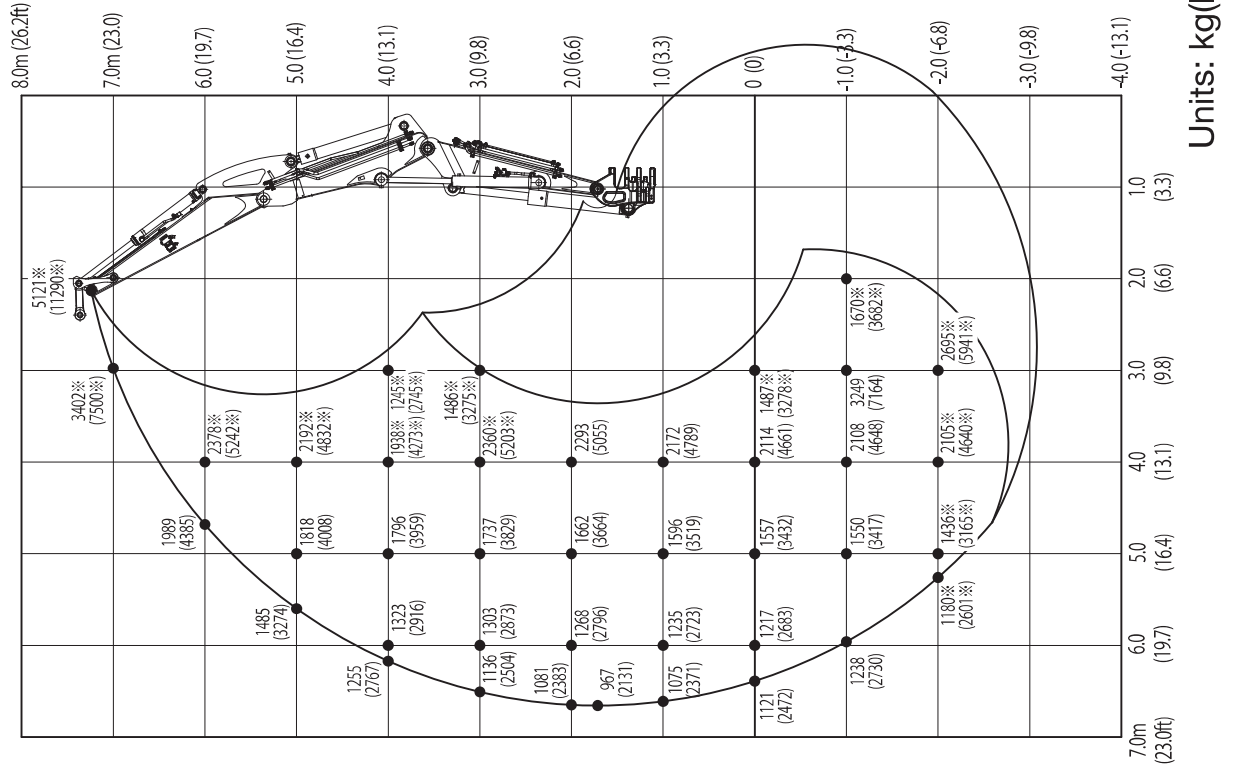


WARNING

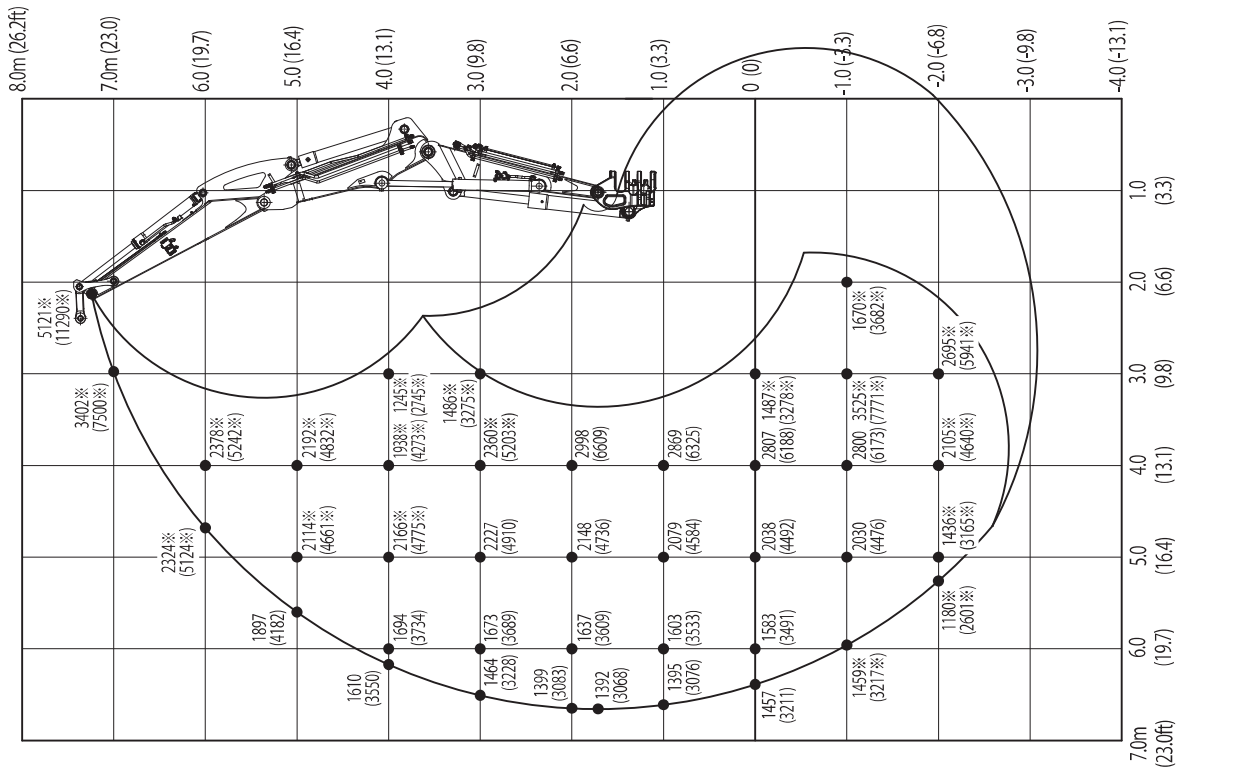
- Do not attempt to lift or hold any load that is greater than these rated values at their specified load radii and height.
 - The rated lift capacities are based on the machine being level and situated on a firm supporting surface. For safe lifting, the operator is expected to make due allowance for 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.
 - Do not lift loads when the boom is being swung to the right or left. Doing so could cause the machine to tip over.
-

2-Piece boom (Two cylinders) (Equipped with a rear blade)

Lifting posture: Rear (Blade raise)



Lifting posture: Front



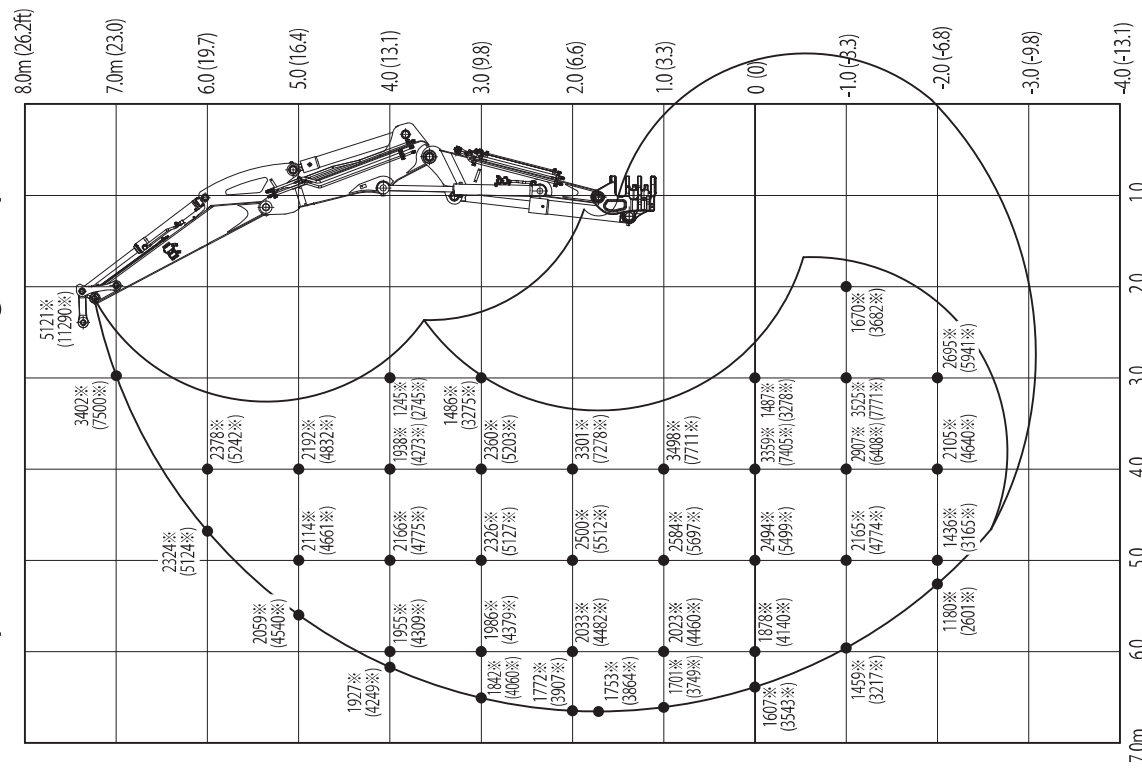


SPECIFICATIONS

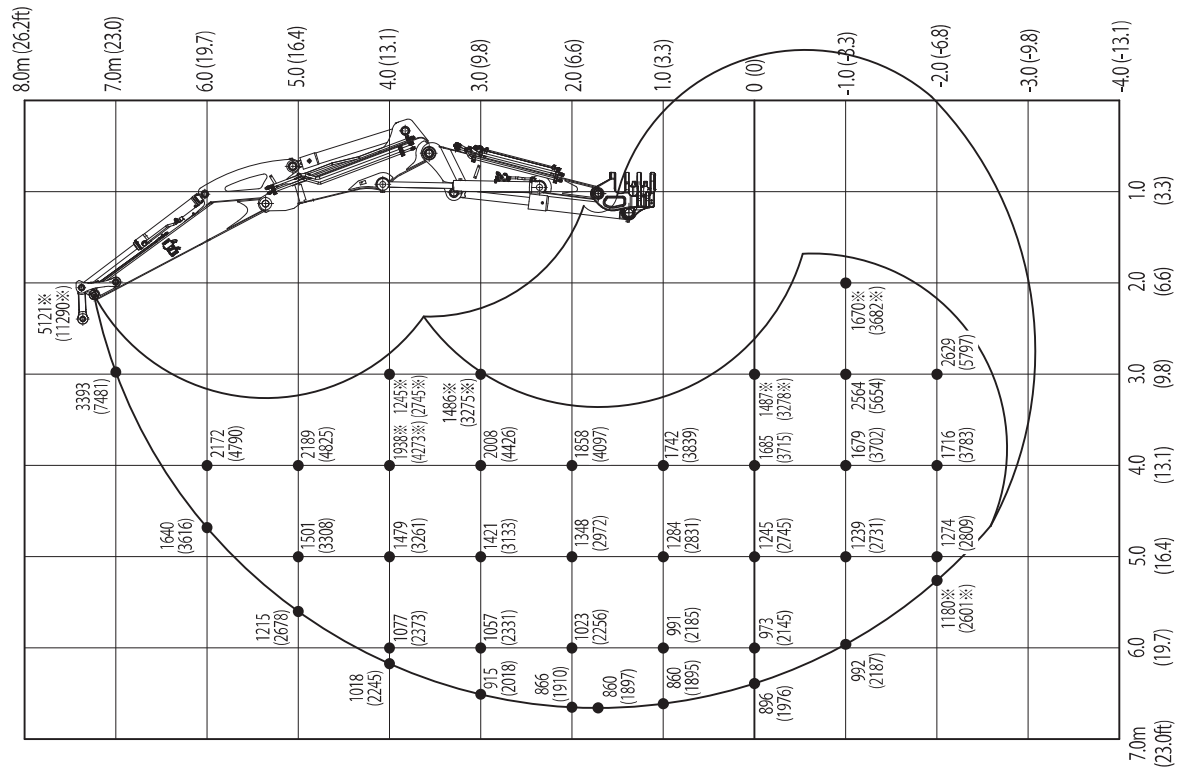
LIFTING CAPACITIES

2-Piece boom (Two cylinders) (Equipped with a rear blade)

Lifting posture: Rear
(Blade lower to the ground)



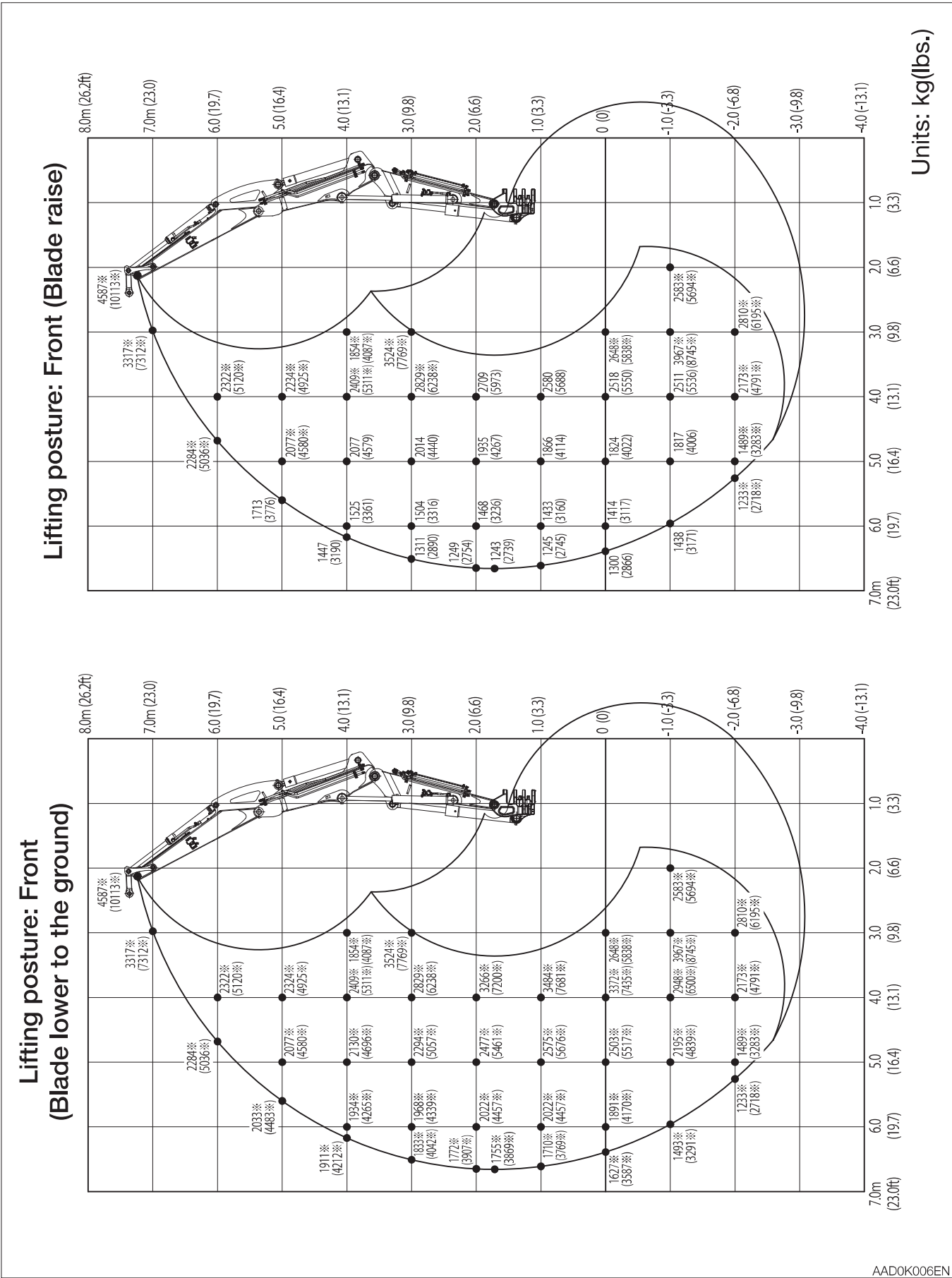
Lifting posture: Side



Units: kg(lbs.)



2-Piece boom (Two cylinders) (Machines with outriggers)

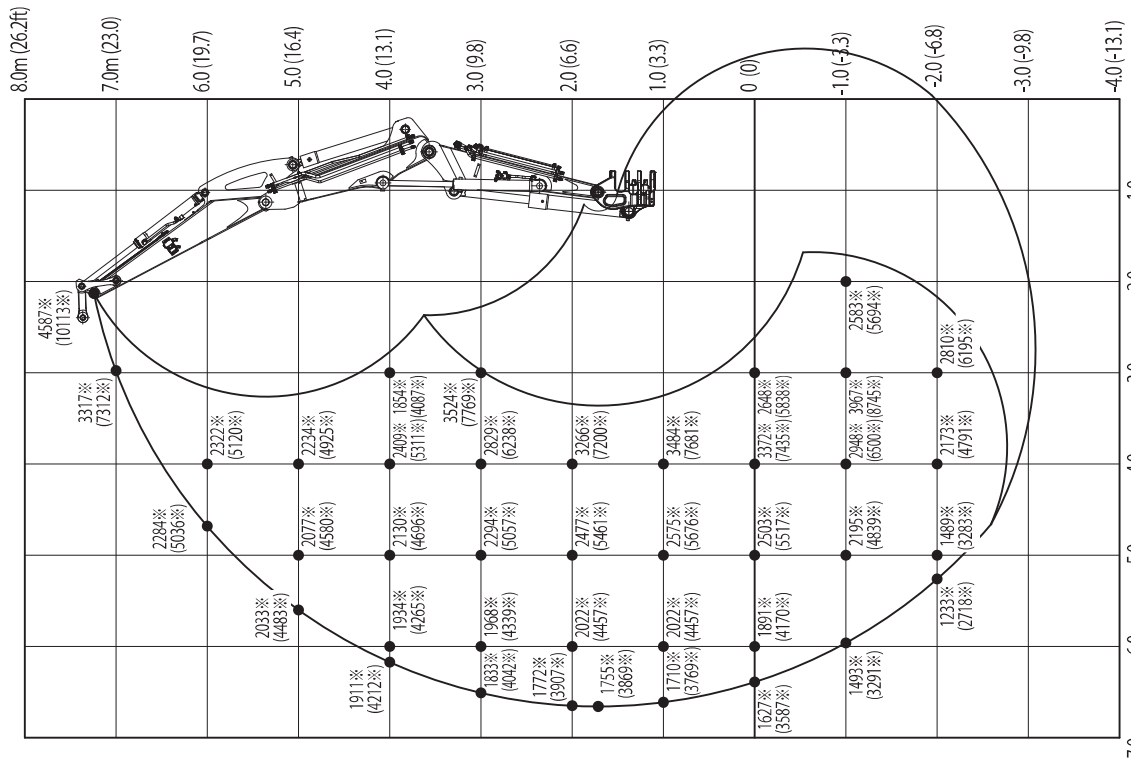




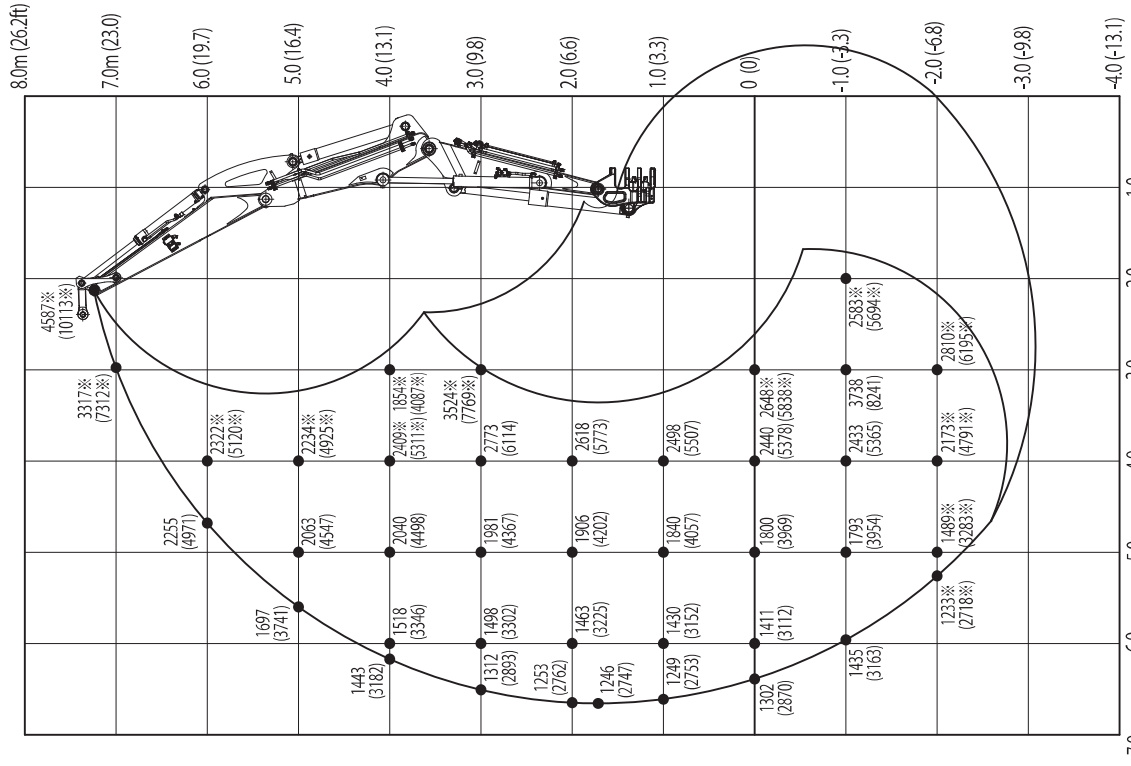
SPECIFICATIONS LIFTING CAPACITIES

2-Piece boom (Two cylinders) (Machines with outriggers)

Lifting posture: Rear
(Outrigger lower to the ground)



Lifting posture: Rear (Outrigger raise)

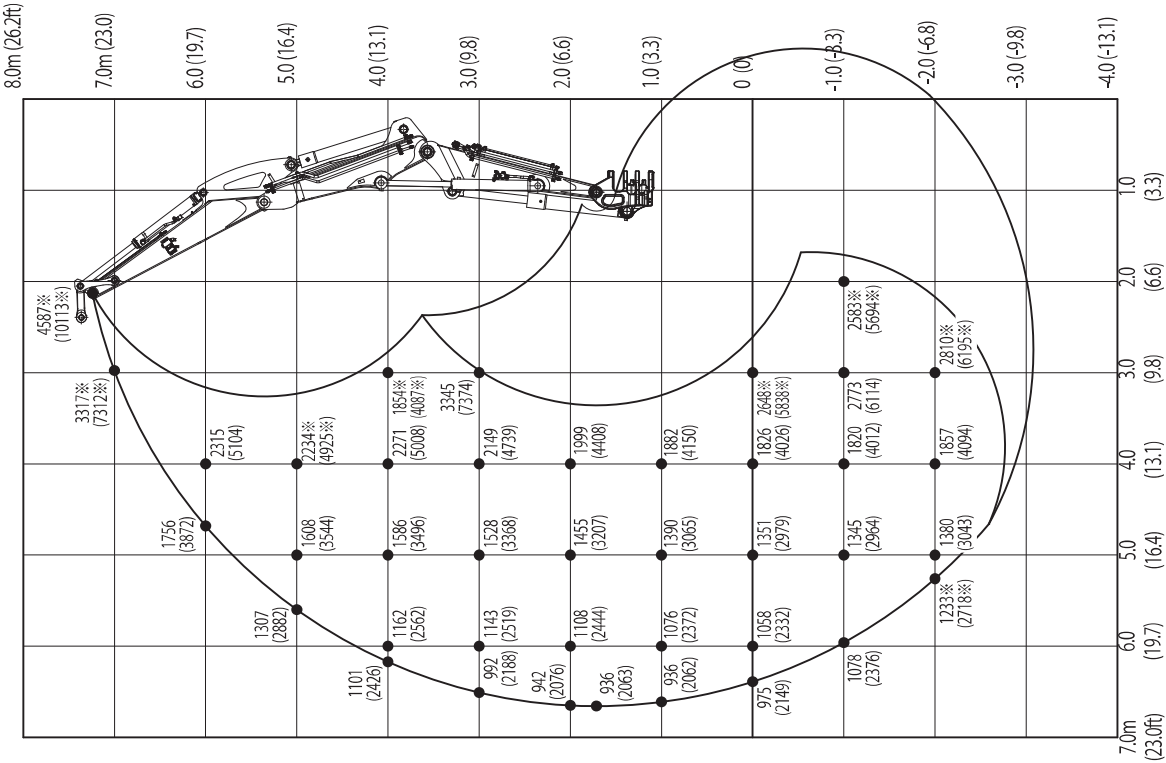


Units: kg(lbs.)



2-Piece boom (Two cylinders) (Machines with outriggers)

Lifting posture: Side



Units: kg(lbs.)

MEMO
