

LOAD SPECIFICATIONS		Diameter of wheels: 840 mm	Diameter of wheels: 908 mm	±
Platform				
- Maximum capacity of basket	kg (lbs)	230 (507)		-
- Maximum wind speed when operating outside	km/h	45		-
- Number of people in the basket in indoor use		2		-
- Number of people in the basket in outdoor use		2		-
- Unladen platform weight	kg (lbs)	6,118 (13,488)	6,380 (14,065)	2%
- Authorised maximum tilt	°	5		0.1%
- Traversable slope (+100 kg)	%	45		2%
- Maximum authorised lateral manual force	N	400		-
Wheels				
- Load on one front wheel (transport position)	kg (lbs)	1,465 (3,230)	1,540 (3,395)	2%
- Load on one rear wheel (transport position)	kg (lbs)	1,615 (3,560)	1,690 (3,726)	2%
- Maximum load on one wheel (working position)	kg (lbs)	3,740 (8,245)	3,910 (8,620)	2%
- Bearing surface on ground (hard / soft)	cm ²	344 / 728	482 / 980	5%
- Ground bearing pressure (hard / loose)	daN/cm ²	11.6 / 5.5	8.3 / 4.1	5%
SPEEDS AND MOVEMENTS		Diameter of wheels: 840 mm	Diameter of wheels: 908 mm	±
Driving speed				
- WORKING POSITION speed	km/h	1		0.1
- TORTOISE speed	km/h	2.5		0.5
- RAMP speed	km/h	2.5		0.2
- HARE speed	km/h	5	5.5	0.2
Main jib (telescope extended)				
- Unladen / laden lifting	s	20 / 20		1
- Unladen / laden lowering	s	18 / 18		1
Main jib (telescope retracted)				
- Unladen / laden lifting	s	14 / 14		2
- Unladen / laden lowering	s	14 / 14		2
Secondary jib				
- Unladen / laden lifting	s	22 / 22		1
- Unladen / laden lowering	s	28.5 / 28.5		2.5
Telescope				
- Unladen / laden extension	s	9 / 9		1
- Unladen / laden retraction	s	9 / 9		1
Jib				
- Unladen / laden lifting	s	20 / 20		1
- Unladen / laden lowering	s	18 / 18		1
Turntable				
- 350° rotation (telescope extended/retracted)	s	90 / 70		5
Basket				
- Left / right rotation	s	13 / 13		2

ENGINE		Diameter of wheels: 840 mm	Diameter of wheels: 908 mm	±
Type		KUBOTA D1105-E4B		-
Fuel		Diesel		-
Number of cylinders		3		-
Cubic capacity	cm³	1123		-
Idling speed unladen	rpm	1300		20
Maximum speed unladen	rpm	3000		40
Power at 3,000 rpm	kW	18.5		-
Maximum torque at 2,300 rpm	N.m	72		-
Unladen weight	kg (lbs)	93 (205)		5 (11)
Type of cooling		Water		-
Fan		Puller		-
Emissions				
- CO (carbon monoxide)	g/kWh	1.4		-
- HC + Nox (hydrocarbons + nitrogen dioxide)	g/kWh	5.8		-
- PT (particles)	g/kWh	0.21		-
TRANSMISSION		Diameter of wheels: 840 mm	Diameter of wheels: 908 mm	±
Hydrostatic pump				
- Type		BOSCH REXROTH A10VG45		-
- Cubic capacity	cm³	46		-
- Maximum unladen flow rate	L/min	115		-
- Maximum pressure	bar	340		-
Hydrostatic motor				
- Type		BOSCH REXROTH		-
- Cubic capacity	cm³	63		-
Axles				
- Type		DANA SPICER		-
- Reduction ratio		55.9		-
- Pulling force	daN	3890	3540	-
- Front axle differential		45% limited slip		-
- Rear axle differential		Hydraulic locking 100%		-
Number of front / rear steerable wheels		2 / 2		-
Number of front / rear drive wheels		2 / 2		-
Wheels				
- Type		OTR		-
- Dimensions (external Ø x width)	mm	Standard: 840 x 295	Option: 908 x 370	-
- Inflation		Foam		-
BRAKE SYSTEM (parking brake)		Diameter of wheels: 840 mm	Diameter of wheels: 908 mm	±
Type of brake		Negative		-
Type of control		Hydraulics		-
Braked wheels front / rear		0 / 2		-
Release (freewheel mode)		Yes, manual		-
Braking torque	daN.m	1,600 on wheel		5%

HYDRAULIC CIRCUIT		Diameter of wheels: 840 mm	Diameter of wheels: 908 mm	±
Auxiliary hydraulic pump				
- Type		BOSCH REXROTH		-
- Maximum cylinder capacity	cm³	18		-
- Maximum unladen flow rate	L/min	54		-
Distributor				
- Type		DANFOSS		-
- Maximum pressure	bar	210		5
Filtration				
- Suction	µm	125		-
- Pressure	µm	10		-
- Operation	µm	10		-
ELECTRIC CIRCUIT		Diameter of wheels: 840 mm	Diameter of wheels: 908 mm	±
Battery				
- Type		EXIDE		-
- Capacity C5	Ah	110		-
- Capacity C20	Ah	-		-
- Rated voltage	V	12		-
Alternator				
- Type		SUMITOMO		-
- Maximum current	A	60		-
- Rated voltage	V	12		-
Starter				
- Type		Electric		-
- Power	kW	2		-
- Voltage	V	12		-
BACKUP PUMP		Diameter of wheels: 840 mm	Diameter of wheels: 908 mm	±
- Type		Electric		-
- Cubic capacity	cm³	2		-
- Power	kW	1.3		-
- Voltage	V	12		-
- Pressure 150 bars	A	-		-
DIMENSIONS		Diameter of wheels: 840 mm	Diameter of wheels: 908 mm	±
Standard basket				
- External dimensions (length x width)	mm	1,800 x 800		1%
- Floor dimensions (length x width)	mm	1,790 x 760		1%
- Rotation angle right/left	°	90 / 90		1%
Wide basket (option)				
- External dimensions (length x width)	mm	2,100 x 800		1%
- Floor dimensions (length x width)	mm	2,090 x 760		1%
- Rotation angle right/left	°	90 / 90		1%
Jib displacement angle up/down	°	65 / 59.5		1%
160 ATJ RNC... : Turntable rotation angle	°	350		1%
160 ATJ RC... : Turntable rotation angle	°	Continuous rotation		-
Other dimensions:  DIMENSIONS AND DIAGRAM 160 ATJ...				

SOUND AND VIBRATION		Diameter of wheels: 840 mm	Diameter of wheels: 908 mm	±	
Sound power level LwA		dB		105	-
Vibrations affecting body in the basket					
- Average quadratic values for the body		m/s ²		<0.5	-
EQUIPMENT		Diameter of wheels: 840 mm	Diameter of wheels: 908 mm	±	
Orange rotating beacon light		Standard		-	
Hour meter		Standard		-	
Proportional diesel level display		Standard		-	
Fuel/battery low level alarm		Standard		-	
Tool box in basket		Standard		-	
User interface (diagnostic aid)		Standard		-	
Wide basket		Option		-	
Oscillating front axle		Option		-	
Non-marking tyres		Option	Option	-	
Permanent orange rotating beacon light		Option*		-	
All movements alarm		Option*		-	
Driving/steering alarm		Option*		-	
Key-locked fuel tank cap		Option		-	
Battery cut-off		Option		-	
230 V outlet in basket		Option		-	
Engine block heater		Option		-	
Generator 110 V/3.5 kW (UK electric power socket)		Option		-	
Generator 220 V/3.5 kW		Option		-	
Generator 220 V/5 kW		Option		-	
Working light		Option		-	
Secondary protection system "SafeManSystem"		Option		-	
Automatic retraction of telescope (for option "SafeManSystem")		Option*		-	
Driving direction "Drive Enable"		Option		-	
*:  DEFINITION OF SUB-MENUS.					

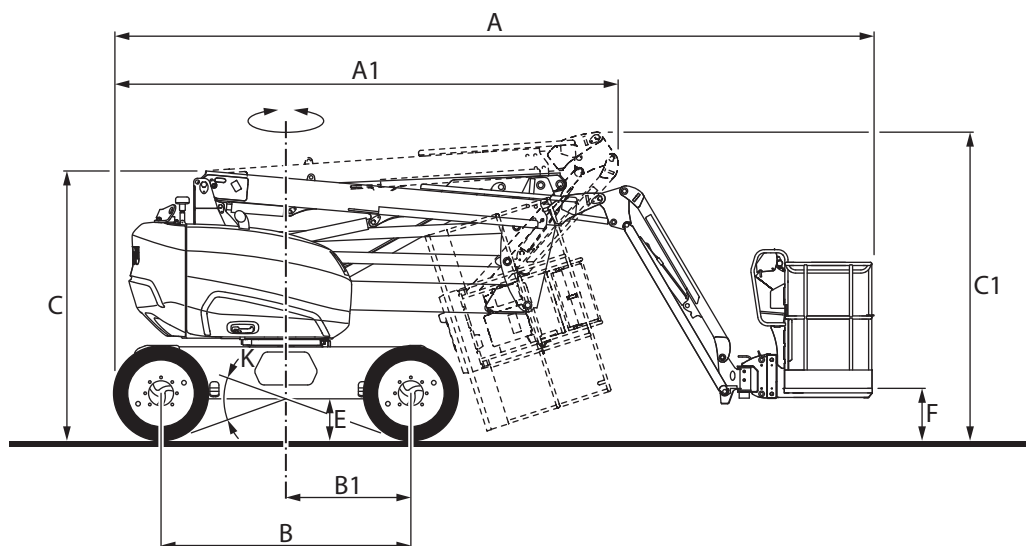
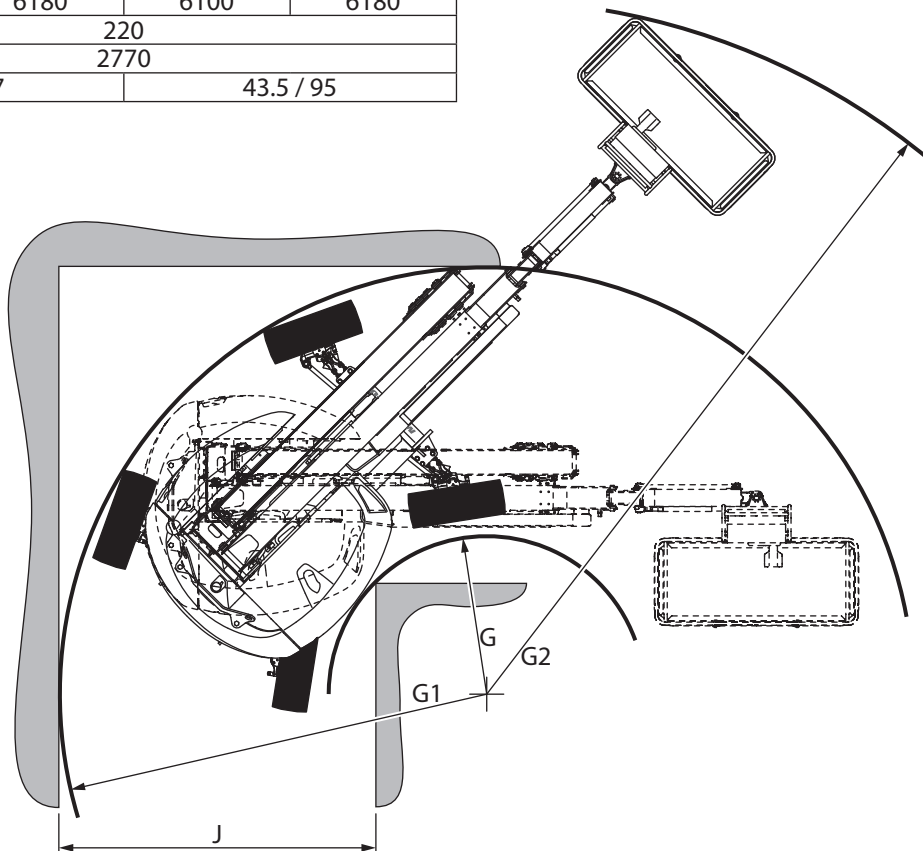
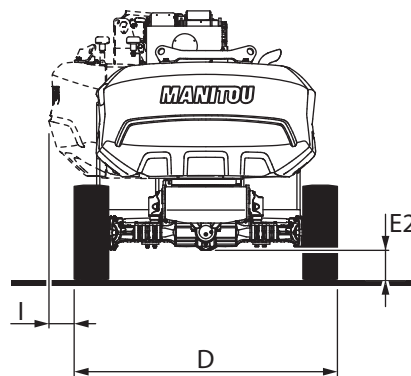
LOAD SPECIFICATIONS			±
Platform			
- Maximum capacity of basket	kg (lbs)	230 (507)	-
- Maximum wind speed when operating outside	km/h	45	-
- Number of people in the basket in indoor use		2	-
- Number of people in the basket in outdoor use		2	-
- Unladen platform weight	kg (lbs)	7430 (16380)	2%
- Authorised maximum tilt	°	5	0.1%
- Traversable slope (+100 kg)	%	45	2%
- Maximum authorised horizontal manual force	N	400	-
Wheels			
- Load on one front wheel (transport position)	kg (lbs)	1,840 (4,056)	2%
- Load on one rear wheel (transport position)	kg (lbs)	1,935 (4,266)	2%
- Maximum load on one wheel (working position)	kg (lbs)	4,845 (10,681)	2%
- Bearing surface on ground (hard / soft)	cm ²	487 / 987	5%
- Ground bearing pressure (hard / loose)	daN/cm ²	10 / 5	5%
SPEEDS AND MOVEMENTS			±
Driving speed			
- WORKING POSITION speed	km/h	1	0.1
- TORTOISE speed	km/h	2.5	0.5
- RAMP speed	km/h	2.5	0.2
- HARE speed	km/h	5	0.2
Main jib (telescope extended)			
- Unladen / laden lifting	s	27 / 27	1
- Unladen / laden lowering	s	25 / 25	1
Main jib (telescope retracted)			
- Unladen / laden lifting	s	16 / 16	2
- Unladen / laden lowering	s	15 / 15	2
Secondary jib			
- Unladen / laden lifting	s	22 / 22	1
- Unladen / laden lowering	s	28.5 / 28.5	2.5
Telescope			
- Unladen / laden extension	s	14 / 14	1
- Unladen / laden retraction	s	14 / 14	1
Jib			
- Unladen / laden lifting	s	20 / 20	1
- Unladen / laden lowering	s	18 / 18	1
Turntable			
- 350° rotation (telescope extended/retracted)	s	120 / 90	5
Basket			
- Left / right rotation	s	13 / 13	2

ENGINE			±
Type		KUBOTA D1105-E4B	-
Fuel		Diesel	-
Number of cylinders		3	-
Cubic capacity	cm ³	1123	-
Idling speed unladen	rpm	1300	20
Maximum speed unladen	rpm	3000	40
Power at 3,000 rpm	kW	18.5	-
Maximum torque at 2,300 rpm	N.m	72	-
Unladen weight	kg (lbs)	93 (205)	5 (11)
Type of cooling		Water	-
Fan		Puller	-
Emissions			
- CO (carbon monoxide)	g/kWh	1.4	-
- HC + Nox (hydrocarbons + nitrogen dioxide)	g/kWh	5.8	-
- PT (particles)	g/kWh	0.21	-
TRANSMISSION			±
Hydrostatic pump			
- Type		BOSCH REXROTH A10VG45	-
- Cubic capacity	cm ³	46	-
- Maximum unladen flow rate	L/min	115	-
- Maximum pressure	bar	340	-
Hydrostatic motor			
- Type		BOSCH REXROTH	-
- Cubic capacity	cm ³	80	-
Axles			
- Type		DANA SPICER	-
- Reduction ratio		55.9	-
- Pulling force	daN	4510	-
- Front axle differential		45% limited slip	-
- Rear axle differential		Hydraulic locking 100%	-
Number of front / rear steerable wheels		2 / 2	-
Number of front / rear drive wheels		2 / 2	-
Wheels			
- Type		OTR	-
- Dimensions (external Ø x width)	mm	908 x 370	-
- Inflation		Foam	-
BRAKE SYSTEM (parking brake)			±
Type of brake		Negative	-
Type of control		Hydraulics	-
Braked wheels front / rear		0 / 2	-
Release (freewheel mode)		Yes, manual	-
Braking torque	daN.m	1,600 on wheel	5%

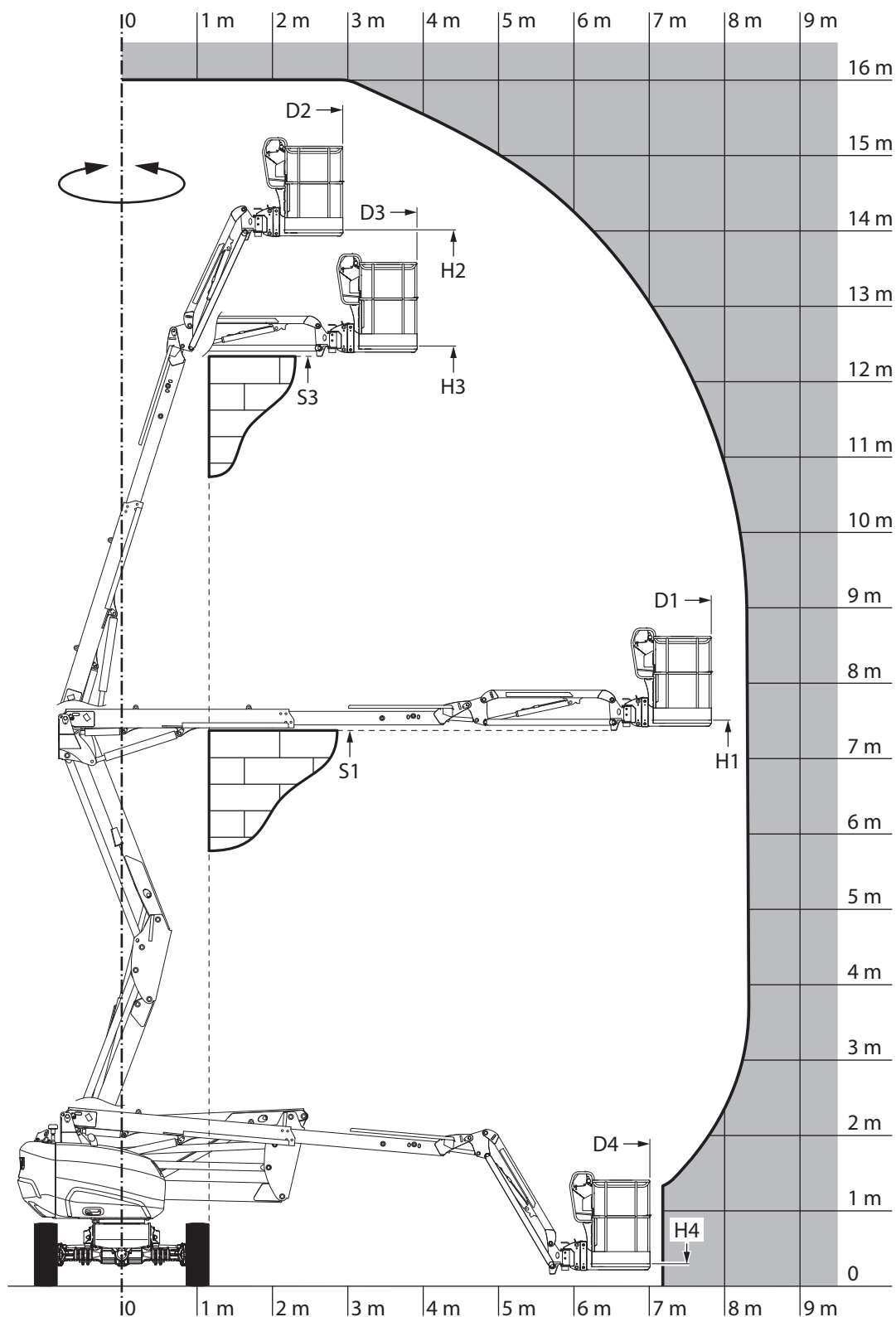
HYDRAULIC CIRCUIT			±
Auxiliary hydraulic pump			
- Type		BOSCH REXROTH	-
- Maximum cylinder capacity	cm ³	18	-
- Maximum unladen flow rate	L/min	54	-
Distributor			
- Type		DANFOSS	-
- Maximum pressure	bar	220	5
Filtration			
- Suction	µm	125	-
- Pressure	µm	10	-
- Operation	µm	10	-
ELECTRIC CIRCUIT			±
Battery			
- Type		EXIDE	-
- Capacity C5	Ah	110	-
- Capacity C20	Ah	-	-
- Rated voltage	V	12	-
Alternator			
- Type		SUMITOMO	-
- Maximum current	A	60	-
- Rated voltage	V	12	-
Starter			
- Type		Electric	-
- Power	kW	2	-
- Voltage	V	12	-
BACKUP PUMP			±
- Type		Electric	-
- Cubic capacity	cm ³	2	-
- Power	kW	1.3	-
- Voltage	V	12	-
- Pressure 150 bars	A	-	-
DIMENSIONS			±
Standard basket			
- External dimensions (length x width)	mm	1,800 x 800	1%
- Floor dimensions (length x width)	mm	1,790 x 760	1%
- Rotation angle right/left	°	90 / 90	1%
Wide basket (option)			
- External dimensions (length x width)	mm	2,100 x 800	1%
- Floor dimensions (length x width)	mm	2,090 x 760	1%
- Rotation angle right/left	°	90 / 90	1%
Jib displacement angle up/down	°	65 / 59.5	1%
180 ATJ RNC... : Turntable rotation angle	°	350	1%
180 ATJ RC... : Turntable rotation angle	°	Continuous rotation	1%
Other dimensions: DIMENSIONS AND DIAGRAM 180 ATJ...			

SOUND AND VIBRATION			±
Sound power level L _{WA}	dB	105	-
Vibrations affecting body in the basket			
- Average quadratic values for the body	m/s ²	<0.5	-
EQUIPMENT			±
Orange rotating beacon light	Standard	-	-
Hour meter	Standard	-	-
Proportional diesel level display	Standard	-	-
Fuel/battery low level alarm	Standard	-	-
Tool box in basket	Standard	-	-
User interface (diagnostic aid)	Standard	-	-
Permanent orange rotating beacon light	Option*	-	-
All movements alarm	Option*	-	-
Driving/steering alarm	Option*	-	-
Wide basket	Option	-	-
Oscillating front axle	Option	-	-
Non-marking tyres	Option	-	-
Key-locked fuel tank cap	Option	-	-
Battery cut-off	Option	-	-
230 V outlet in basket	Option	-	-
Engine block heater	Option	-	-
Generator 110 V/3.5 kW (electric power socket UK)	Option	-	-
Generator 220 V/3.5 kW	Option	-	-
Generator 220 V/5 kW	Option	-	-
Working light	Option	-	-
Secondary protection system "SafeManSystem"	Option	-	-
Automatic retraction of telescope (for option "SafeManSystem")	Option*	-	-
Driving direction "Drive Enable"	Option	-	-
*: DEFINITION OF SUB-MENUS.			

		Diameter of wheels: 840 mm		Diameter of wheels: 908 mm	
		Standard basket	Wide basket	Standard basket	Wide basket
A	mm	6680		6720	
A1	mm	4445	4490	4485	4530
B	mm	2200			
B1	mm	1100			
C	mm	2370		2410	
C1	mm	2630	2830	2690	2810
D	mm	2320			
E	mm	360		400	
E2	mm	260		300	
F	mm	450		495	
G	mm	1380			
G1	mm	3750			
G2	mm	6100	6180	6100	6180
I	mm	220			
J	mm	2770			
K	° / %	37.6 / 77		43.5 / 95	

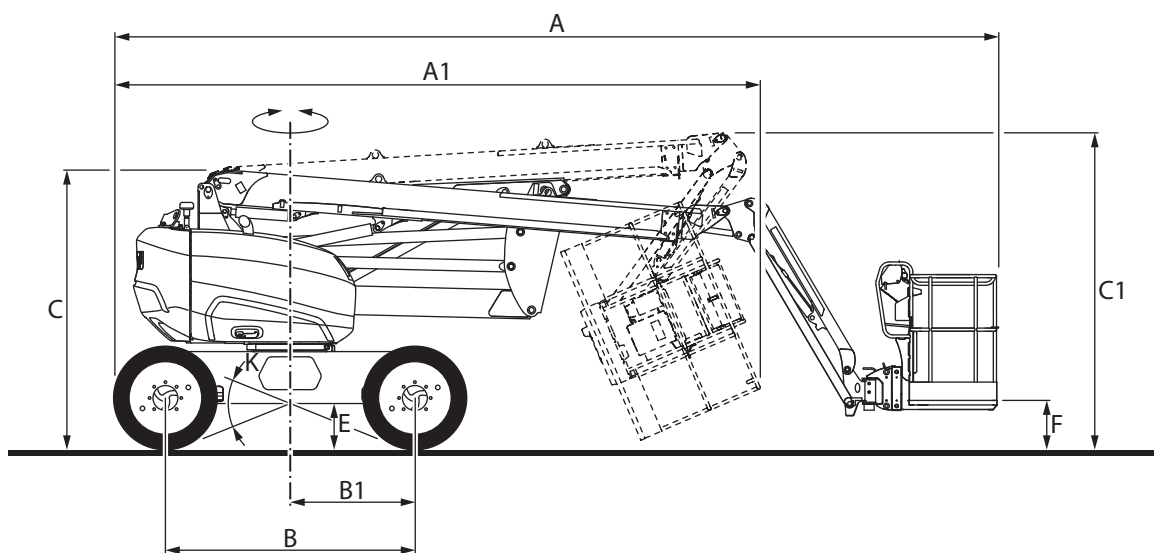
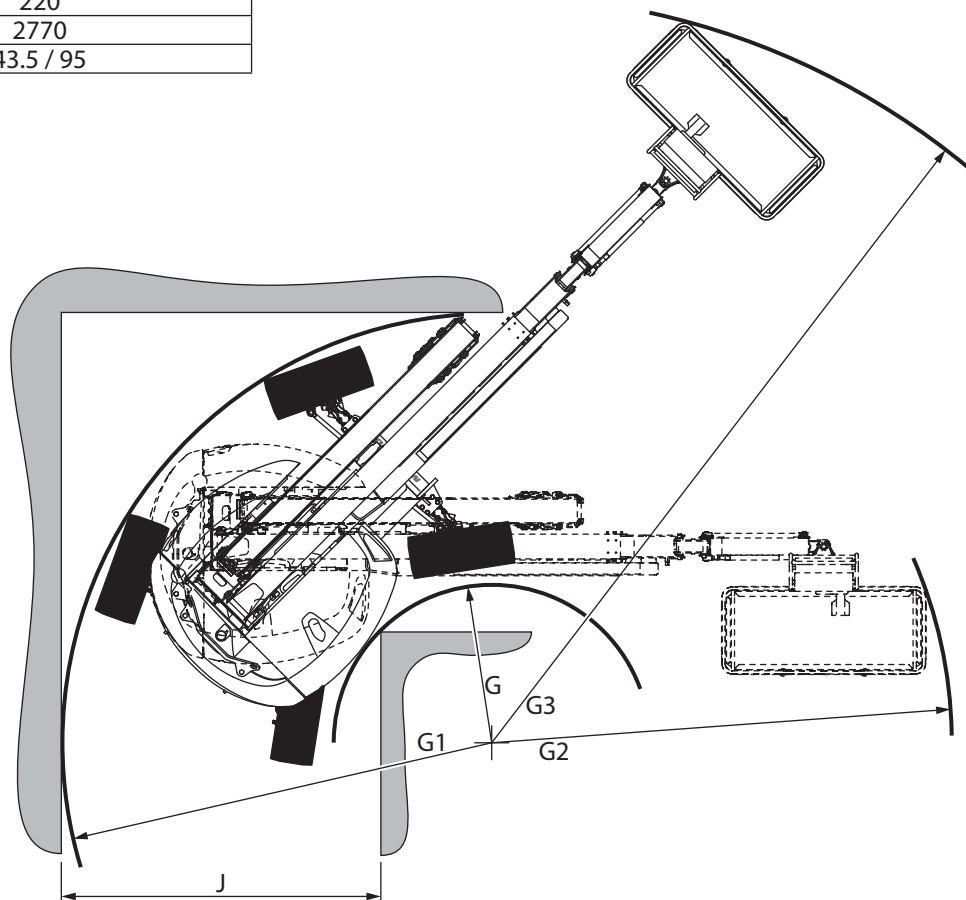
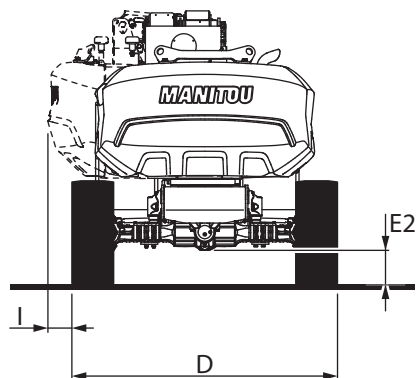


		Diameter of wheels: 840 mm		Diameter of wheels: 908 mm				Diameter of wheels: 840 mm		Diameter of wheels: 908 mm	
H1	mm	7510		7550		S1	mm	7366		7406	
D1	mm	7795									
H2	mm	14015		14055							
D2	mm	2905									
H3	mm	12475		12515		S3	mm	12334		12374	
D3	mm	3890									
H4	mm	295		335							
D4	mm	6980									



DIMENSIONS AND DIAGRAM 180 ATJ...

		Standard basket	Wide basket
A	mm	7790	
A1	mm	5560	
B	mm	2200	
B1	mm	1100	
C	mm	2475	2485
C1	mm	2560	2780
D	mm	2320	
E	mm	400	
E2	mm	300	
F	mm	430	
G	mm	1380	
G1	mm	3750	
G2	mm	4535	4675
G3	mm	7030	7095
I	mm	220	
J	mm	2770	
K	° / %	43.5 / 95	



H1	mm	7555	S1	mm	7420
D1	mm	10010			
H2	mm	16180			
D2	mm	3545			
H3	mm	14640	S3	mm	13350
D3	mm	4530			
H4	mm	185			
D4	mm	9190			

