CHARACTERISTICS OF 180 ATJ 2 E3 & 180 ATJ 2 E3 RC

LOAD SPECIFICATIONS	UNIT	180 ATJ 2 E3	180 ATJ 2 E3 Wheel 18"	TOL ±
Lifting platform				
Nominal capacity for use indoors	Kg	230		-
Nominal capacity for use outdoors	Kg			-
Max wind during outdoor use	km/h	45		-
No. of people in the basket during indoor/outdoor use		2		-
Maximum allowed manual horizontal force (1daN=1kg)	daN	40		-
Turret rotation	°	355° / Continuous		
Lifting platform unladen weight	Kg	7250	7550	20
Max permissible tilt	° - %	5-9		0,1
Traversable slope	%	40	33	2
Work speed	Km/h	0.8		0,1
Slow transport speed (1)	Km/h	2.5		0,2
Ramp transport speed (2)	Km/h	2.5		0,2
Fast transport speed (3)	Km/h	6.1	7.2	0,2
Wheels				
Supplier		SOLIDEAL		
Tyres		CURED ON 830x285	12,5 - 18 OPTIMIZER	
Inflation/Pressure	bar	Honeycomb PPS	Foam, 4 bar	
Front wheel - radius under load (static 1h, transport)	mm	405	455	2
Rear wheel - radius under load (static 1h, transport)	mm	405	455	2
Front/rear wheel - radius under dynamic load (transport)	mm	415	477	
Bearing circumference recorded	mm	2618	2999	
Load on a front wheel (transport position)	Kg	1763	1840	5
Load on a rear wheel (transport position)	Kg	1862	1935	5
Maximum load on a wheel, working position	Kg	4742	4845	5
Bearing surface on ground (hard/unconsolidated)	Cm^2	268 / 645	314/830	3
Indenting on ground (hard/unconsolidated)	daN/ cm^2	17.70 / 7.35	15.43 / 5.84	-
HYDRAULIC MOVEMENT (basket control)	**UNIT**	**180 ATJ 2 E3**	**180 ATJ 2 E3 Wheel 18"**	**TOL ±**
Arms 1/2				
Raising unladen / laden	s	22 / 22		5%
Lowering unladen / laden	s	28 / 28		5%
Arm 3, telescope extended				
Raising unladen / laden	s	27 / --		5%
Lowering unladen / laden	s	25 / --		5%
Arm 3, telescope retracted				
Raising unladen / laden	s	16 / --		5%
Lowering unladen / laden	s	16 / --		5%
Telescope				
Extended unladen / laden	s	14 / --		5%
Retraction unladen / laden	s	14 / --		5%
Pendular arm				
Raising unladen / laden	s	20 / 20		5%
Lowering unladen / laden	s	18 / 18		5%
Turret rotation				
Rotation over 350°, telescope extended / retracted	s	120 / 88		5%
Basket rotation				
Rotation over 180°	s	13		5%

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CHARACTERISTICS OF 180 ATJ 2 E3 & 180 ATJ 2 E3 RC

INTERNAL COMBUSTION ENGINE	UNIT	180 ATJ 2 E3	180 ATJ 2 E3 Wheel 18"	TOL ±
Type		KUBOTA V1505-E3B		-
Fuel		Diesel		-
No. of cylinders		4		-
Cubic capacity	Cm3	1498		-
Idling speed, unladen	rpm	1000		50
Max engine revs, unladen	rpm	3000		20
ISO power/ rpm (at 3000 rpm)	CV - KW	26.2		-
Max torque (at 2300 rpm)	Nm	92		-
Fuel consumption per hour	L/h	1.92		
No. of cycles / fuel consumption test	No. of cycles / h	6		
Unladen weight	Kg	110		5
Air filtration	µm	-		-
Type of cooling		AIR		-
Fan		SUCTION		-
LwA acoustic pressure level	dBA	104		-

TRANSMISSION	UNIT	180 ATJ 2 E3	180 ATJ 2 E3 Wheel 18"	TOL ±
Type		HYDROSTATIC		
Pump		A10VG45		
Supplier		BOSCH - REXROTH		
Cylinder capacity (hydraulic transmission)	Cm3	46		
Max service pressure	bar	Dr 305		5 %
Hydrostatic motor		A10FM63		
Supplier		BOSCH-REXROTH		
Cylinder capacity	Cm3	63		
Axle		Type 26 - 20		
Supplier		CARRARO		
Reduction ratio		52.36		
Traction power	daNm	3130	2790	-
Front axle differential		SLIPPAGE LIMIT 45%		
Rear axle differential		Hydraulic lock 100%		
No. of steered wheels, front / rear		2 / 2		
No. of driven wheels, front / rear		2 / 2		

BRAKING CIRCUIT (parking brake)	UNIT	180 ATJ 2 E3	180 ATJ 2 E3 Wheel 18"	TOL ±
Type of brake		Negative		
Type of control		Hydraulic		
Braked wheels		2 rear wheels		
Brake release (freewheeling)		Manual, on axle		
Braking torque	daNm	1600 at the wheel		5 %

LEVEL OF VIBRATIONS	UNIT	180 ATJ 2 E3	180 ATJ 2 E3 Wheel 18"	TOL ±
Quadratic average values for the body	m/s^2	< 0,5		-

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CHARACTERISTICS OF 180 ATJ 2 E3 & 180 ATJ 2 E3 RC

CIRCUIT HYDRAULIC	UNIT	180 ATJ 2 E3	180 ATJ 2 E3 Wheel 18"	TOL ±
Auxiliary hydraulic pump				
Type		fixed Cubic capacity BOSCH		
Cubic capacity	Cm3	16		-
Max flow rate, unladen	l/min	48		-
Max permanent service pressure	bar	230		5 %
Filtration				
Return	µm	-		-
Suction	µm	100 (ß10)		-
Pressure	µm	10		-

ELECTRICAL CIRCUIT	UNIT	180 ATJ 2 E3	180 ATJ 2 E3 Wheel 18"	TOL ±
Battery				
C5 capacity	Ah	105		-
Nominal voltage	V	12		-
Type		Starting		
Alternator				
Type		-		-
Intensity	A	40		-
Voltage	V	12		
Starter				
Type		-		-
Power	Kw	-		-
Voltage	V	12		-

EMERGENCY PUMP	UNIT	180 ATJ 2 E3	180 ATJ 2 E3 Wheel 18"	TOL ±
Type		Electric		-
Cubic capacity	Cm3	2.0		-
Power	Kw	1.3		-
Voltage	V	12		-
Intensity at 150 bars	A	-		-
Integral thermal cut-off		YES		
S2	mn	6.2 min at 100 b		-
S3	%	10.3 % at 100 b		-

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CHARACTERISTICS OF 180 ATJ 2 E3 & 180 ATJ 2 E3 RC

DIMENSIONS	UNIT	180 ATJ 2 E3	180 ATJ 2 E3 Wheel 18"	TOL ±
Transport position				
Width	mm	2298	2280	1%
Length	mm	7591	7631	1%
Length (truck transport)	mm	5522	5562	1%
Height	mm	2472	2522	1%
Floor height	mm	305	355	1%
Tail swing	mm	232	252	1%
Work position				
Work height	mm	18120	18170	1%
Floor height	mm	16120	16170	1%
Maximum offset	mm	10038	10038	1%
Working offset - (int basket +500)	mm	10538	10538	1%
Platform height basket at maximum offset	mm	7395	7445	1%
Overhang under upper arm	mm	7405	7455	1%
Ground clearance under chassis 1	mm	355	405	2%
Ground clearance under chassis 2	mm	260	310	2%
Maximum angle under chassis	%	75	78	2%
Interior turning circle 2 wheels/4 wheels	mm	- / -	- / -	3%
Exterior turning circle 2 wheels/4 wheels	mm	1390 / 3710	1390 / 3710	3%
Basket				
External dimensions	mm	1800 x 800		1%
Floor area	mm	1790 x 760		1%

CAPACITY	UNIT	180 ATJ 2 E3	180 ATJ 2 E3 Wheel 18"	TOL ±
Hydraulic oil reservoir	l	54		2%
Diesel tank	l	52		2%
Engine oil sump	l	6.7		2%
Coolant circuit	l	5		2%

STANDARD EQUIPMENT	UNIT	180 ATJ 2 E3	180 ATJ 2 E3 Wheel 18"	TOL ±
Sound beep all movements		Option		
Flashing light/rotating beacon		Option		
Hour counter		Standard		
230V layout		Standard		
Diesel level proportional display		Standard		
Low fuel / battery level alarm		Standard		
Dead Man's pedal		Standard		
Basket toolbox		Standard		
User interface (diagnostic aid)		Standard		
Balanced axle		Standard		

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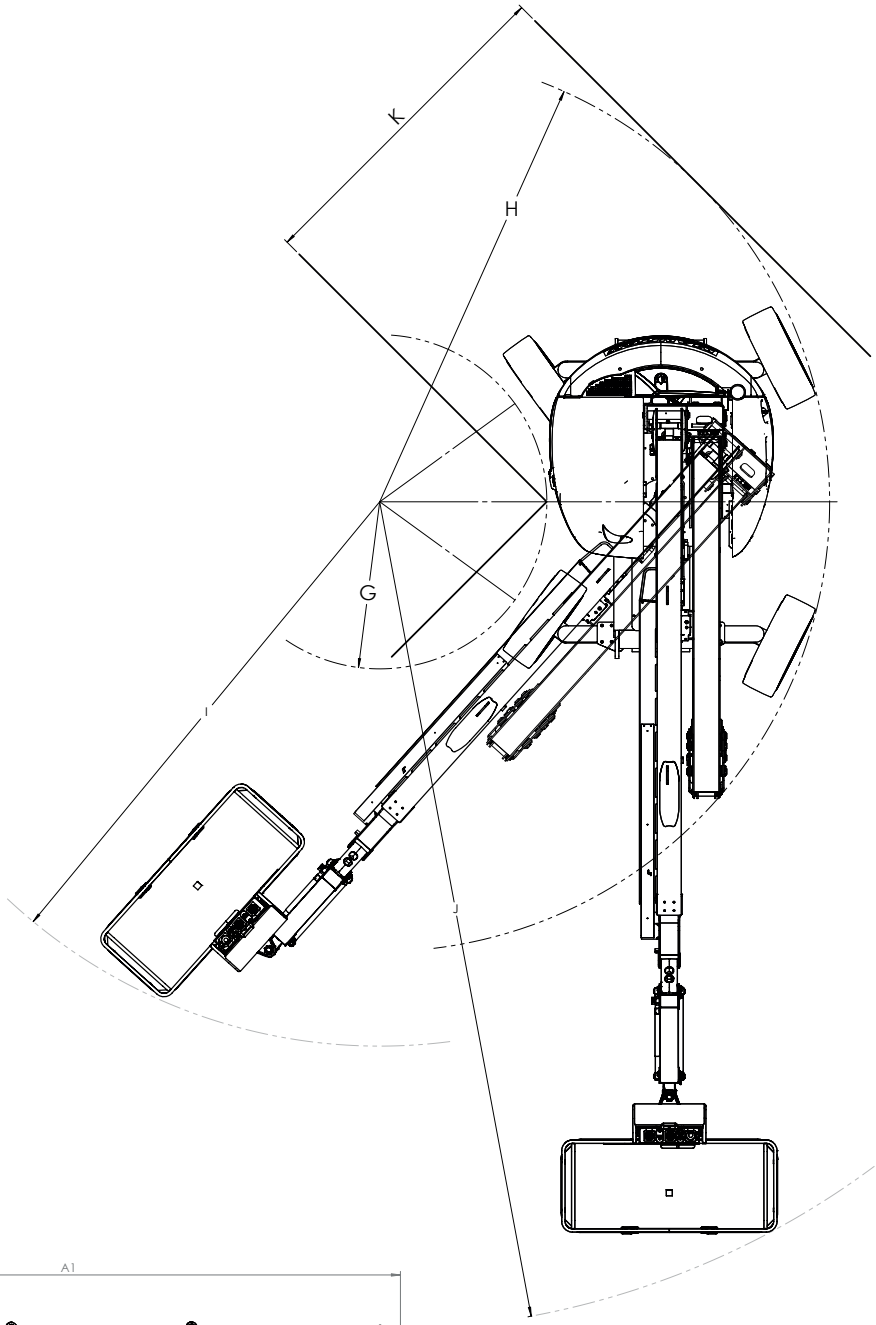
DIMENSIONS 180 ATJ 2 E3 & 180 ATJ 2 E3 RC

A	7591
A1	5522
B	2429
C	2472
C1	2610
D	2298
E	355
F	260
G	1390
H	3710
I	4528
J	6891
K	2730
L	316
M (radius under load)	405
X	37°



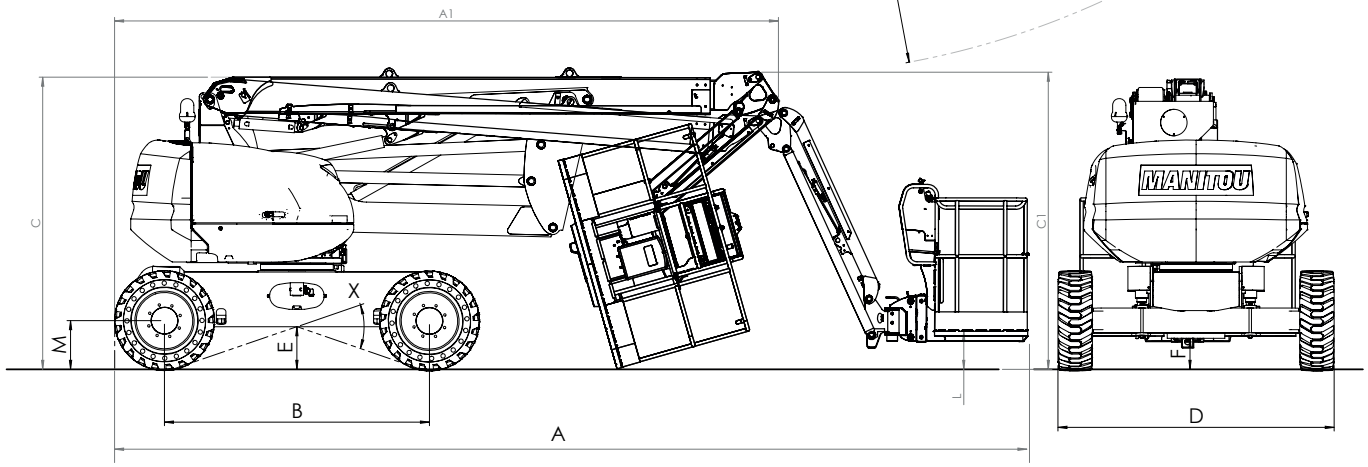
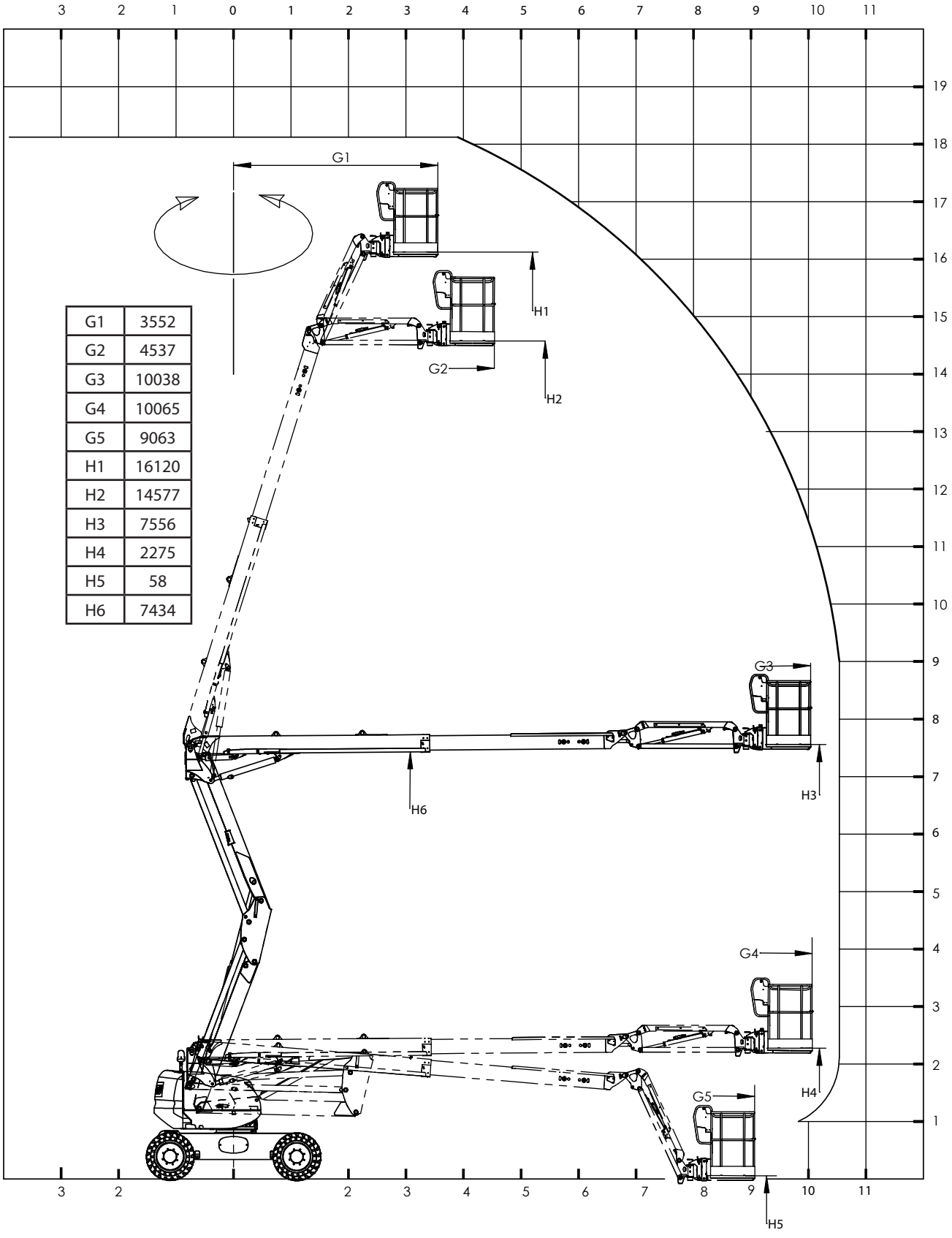


DIAGRAM 180 ATJ 2 E3 - 180 ATJ 2 E3 RC



G1	3552
G2	4537
G3	10038
G4	10065
G5	9063
H1	16120
H2	14577
H3	7556
H4	2275
H5	58
H6	7434

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