

TEST REPORT



STIHL MSA 220 C-B

Test no.: 9195

OWNER OF TEST ZERTIFICATE:

Andreas Stihl AG & Co. KG
Andreas-Stihl-Straße 4
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www.stihl.de



MSA 220 C-B



Battery AP 300 s



Quick charger AL 500



Test results and evaluations

Battery chain-saw: STIHL MSA 220 C-B

**Tested with battery AP 300s, Charger AL 500 and
3/8" PS3 35 cm Rollomatic E cutting attachment**

Applicant: Andreas Stihl AG & Co. KG; Andreas Stihl Straße 4; 71336 Waiblingen - Germany

Test item	Test result	Rating
Suitability	Battery-operated chainsaw for use in noise-sensitive areas Care of young growths and young stands, construction of recreational and hunting facilities, tree care pruning, carpentry, firewood processing of weaker dimensions	w.R.
Mass-work-relationship		
Dry weight without battery and cutting attachment / Largest integrated battery work	10,3 kg/kWh	o
Cutting performance per battery charge		
Cuts in spruce-squared wood 10 x 10 cm	Approx. 255 cuts in continuous operation, corresponds to 2.6 m ² cutting area (Operation with organic chain lubricant with KWF TEST)	+
Battery		
Energy content	156 Wh/kg	+
Charging power	43 min to 100% battery capacity	+
Degree of protection	Operation permitted in the rain	+
Status display	Bar display with 4 LEDs	+
Locking	Safety lock, easy removal with gloves possible	+
Exchangeable battery system	Batteries with different battery capacities available	o
Charger		
Charging technology	Quick charger with status display	+
Cooling while charging	Active cooling while charging	+
Temperature monitoring	Temperature monitoring integrated to protect the battery	+

Test item	Test result	Rating
Noise		
Equivalent sound pressure	Measurements according to EN 60745-2-13: 89 dB(A)	o
Equivalent sound power	Measurements according to ISO 22868: 100 dB(A)	
Vibration		
Equivalent vibration level front / rear handle	Measurements according to EN 60745-2-13: 3,6 m/s ² / 4,8 m/s ²	-
Ease of use		
Start	The system prohibits low operating forces and a slight unintentional start-up	+
Controls	Good usability even with gloves, clear arrangement and easy accessibility	+
	Horizontal cut difficult due to the arrangement of the throttle lock (push button on the side of the rear handle)	o
Assembly of chain	External drive sprocket, easy to assemble without tools	+
Chain tension	In the sprocket cover without tools	+
Refueling chain lubricant	Without tools, hinged lid lock	o
Level control	Semi-transparent tank, easy to read in different lighting conditions	o
Status display device	Readable via switch / button setting	o
Maintenance and Care		
Device	minor maintenance and care	+
Battery system	minor maintenance and care	+
Maintenance points	Easily accessible	+
Operational safety		
	No repeated damage in the course of the test	o
Operation manual		
	Illustrated, detailed and clear	+
Occupational safety		
	EC type examination certificate is available	o
	GS certificate is available	+
Environmental compatibility		
	No environmental label available	o

Rating: + / o / - / o.B. (o = average / o.B. = without rating)

Description and technical data

Drive

- Maintenance-free brushless DC motor
- 36V supply voltage
- Infinitely variable
- 6-tooth drive sprocket

Cutting attachment

- Pitch 3/8" P groove width 1.3 mm
- Full chisel low kick back saw chain Picco Micro (PS3)
- Guide bar with 35 cm cutting length and 9 bar nose sprocket teeth
- Further cutting attachments according to operation manual available

Battery / charger

- Battery AP 300s, capacity 281 Wh, output voltage 36 V
- Quick charger AL 500, power consumption 600 W, supply voltage 230 V
- Additional battery types and battery chargers available

Technical data (measured, rounded values)

Length	Cutting attachment included	725 mm
	Engine unit without spiked bumper	420 mm
Width	Engine unit	160 mm
	With front handle	210 mm
Height	Engine unit	155 mm
	Hand guard included	255 mm
Stump high	Chain sprocket guard	19 mm
Dry weight	without / with cutting attachment without battery	2,9 / 3,6 kg
Tank capacity	Chain lubricant (can be refueled)	200 ml
Battery AP 300s	Length / height / width	160/70/115 mm
	weight	1.8 kg
Charger AL 500	Length / height / width	205/95/200 mm
	weight	1.2 kg

In acknowledgement of the results of the test carried out by the KWF the approved product is also entitled to carry the following test marks: "DLG anerkannt".

Test committee: tools and equipment
Chairman: Dr. Sebastian Paar, Laubau

Inspection closed May 2020

Approval until May 2025

First approval May 2020

Responsible test engineer:

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practical application carried out by professional user

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