

TEST REPORT



STIHL MSA 161 T

Test no.: 9194

OWNER OF TEST ZERTIFICATE:

Andreas Stihl AG & Co. KG
Andreas-Stihl-Straße 4
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MSA 161 T



Battery AP 200



Quick charger AL 500



Test results and evaluations

Battery chain-saw: STIHL MSA 161 T

**Tested with battery AP 200, Charger AL 500 and
1/4" P PM3 30 cm Rollomatic E mini 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 tree service. Use only for tree service work by specially trained personnel; not suitable for conventional chain saw work (e.g. felling, limbing, cutting to length).	o.B.
Mass-work-relationship		
Dry weight without battery and cutting attachment / Largest integrated battery work	10,2 kg/kWh	o
Cutting performance per battery charge		
Cuts in spruce-squared wood 10 x 10 cm	Approx. 284 cuts in continuous operation, corresponds to 2.8 m ² cutting area (Operation with organic chain lubricant with KWF TEST)	+
Battery		
Energy content	144 Wh/kg	o
Charging power	40 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 ISO 22868: 83 dB(A)	+
Equivalent sound power	Measurements according to ISO 22868: 94 dB(A) Hearing protection not required	
Vibration		
Equivalent vibration level front / rear handle	Measurements according to ISO 22867: 2,2 m/s ² / 2,1 m/s ²	o
Ease of use		
Start	Low operating forces, easy unintentional start-up is prohibited by 3 independent operations	+
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 with tool	o
Chain tension	In the sprocket cover with tool	o
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	+
Operation manual		
	Illustrated, detailed and clear	+
Occupational safety		
	EC type examination certificate is available	o
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
- 10-tooth drive sprocket

Cutting attachment

- Pitch 1/4"P groove width 1,1 mm
- Semi chisel Picco Micro (PM3) saw chain
- Guide bar with 30 cm cutting length and 8 bar nose sprocket teeth
- Further cutting attachments according to operation manual available

Battery / charger

- Battery AP 200, capacity 187 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	565 mm
	Engine unit without spiked bumper	300 mm
Width	Engine unit	130 mm
	With front handle	200 mm
Height	Engine unit	205 mm
	Hand guard included	230 mm
Stump high	Chain sprocket guard	12 mm
Dry weight	without / with cutting attachment without battery	1,9 / 2,3 kg
Tank capacity	Chain lubricant (can be refueled)	70 ml
Battery AP 200	Length / height / width	160/70/115 mm
	weight	1.3 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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