



TEST REPORT

STIHL MS 250 / 250 C

TEST CERTIFICATE HOLDER:

Manufacturer and applicant:

Andreas Stihl AG & Co KG

Badstrasse 115

D-71336 Waiblingen

[www: stihl.de](http://www.stihl.de)



quick chain adjuster
Typ 250 C

Test Results and Evaluations

Chainsaw Stihl MS 250 / 250 C

Company: Andreas Stihl AG & Co KG; D-71336 Waiblingen, Badstrasse 115

Test item	Test results				Evaluation
Function	Chain saw in the power range up to 3 kW; for semi-professional use				
Engine power		Engine speed	Torque	Specific power output	N.E
Power		10000 min ⁻¹	2.3 Nm	53 kW/l	
max. 2.4 kW		7200 min ⁻¹	max. 2.6 Nm	44 kW/l	
2.0 kW					
Fuel consumption		max. power		max. torque	
absolute / specific		1.6 l/h 510 g/kWh		1.5 l/h 570 g/kWh	O
Exhaust emission	complies with stage I of Directive 2002/88 EC				O
Chain lubrication		at 5000 min ⁻¹		at 9000 min ⁻¹	
Oil consumption		4 ml/min		9 ml/min	O
Noise		idling	full load	racing	
Sound pressure level [dB(A)]		81	101	101	O
Equivalent sound pressure level: 99 dB(A) (operation modes idling/ full load/ racing with equal duration of exposure)					
Sound power level: 111 dB(A) according to Directive 2000/14/EC					
Vibration		idling	full load	racing	
MS 250					
front handle [m/s ²]		5.6	6.9	4.4	O
rear handle [m/s ²]		4.6	8.6	6.5	
Equivalent vibration total value: front/rear: 5.7 / 6.8 m/s ² (operation modes idling/ full load/ racing with equal duration of exposure)					
MS 250C		idling	full load	racing	
front handle [m/s ²]		4.8	5.3	3.7	O
rear handle [m/s ²]		4.4	7.9	8.1	
Equivalent vibration total value: front/rear: 4.6 / 7.0 m/s ² (operation modes idling/ full load/ racing with equal duration of exposure)					

Stihl MS 250 C/250C ErgoStart

Chain brake					
Hand guard activation		activation force	aver. braking time	max. braking time	N.E
		31 N	0.07 s	0.08 s	
Inertia activation		horizontal acceleration		vertical acceleration	N.E
		210 m/s ²		840 m/s ²	
Kickback					
Cutting attachment 35 cm, 3/8"		Chain stop angle			N.E
Half chisel tooth		37 °			
Power to weight ratio					
		With cutting attachment	Without cutting attachment		
MS 250		2.3 kg/kW	2.0 kg/kW		+
MS 250 C		2.4 kg/kW	2.2 kg/kW		+
Operability / handling					
Control elements		Easy to reach and use			+
		Fuel tank cap can be opened without tools			+
Primer	MS 250	No primer			O
	MS 250C	With Primer			+
Chain assembly	MS 250	Drive sprocket easily accessible			O
	MS 250C	No tools required for changing chain			+
Chain tensioning	MS 250	Drive sprocket easily accessible			O
	MS 250C	Quick chain adjuster, no tools required			+
Only MS 250C		Engine start is facilitated by a spring supported starting system			++
Maintenance					
Air filter and spark plug cover		Removable without tools			+
Housing		Non-removable, difficult to clean			-
Air filter	cleaning	Clip connection, no tools required			+
	soiling	Normal			O
Reliability					
		No defects during test			+
Operating manual					
		clear, well illustrated			+
Operator safety					
EG-type examination test		(DPLF) Test certificate No. K-EG-2001-3469			
GS-Test		(DPLF) Test certificate No. K-GS-2001-3470			

Rating: ++ / + / o / - / --./.(o = Standard / NE= no evaluation, complies with tolerance value)

Description and Technical Data

Motor

- Air-cooled single-cylinder two-stroke engine;
- Engine displacement 45.4 cm³; bore 42.5 mm; stroke 32 mm;
- Fuel: minimum octane number 90 ROZ; mixed lubrication;
2-T- special fuel with "KWF-TEST" or regular lead-free petrol;
- Spark plug Bosch WSR 6F or NGK BPMR 7A;
- Idling speed: 2800 min⁻¹; max. speed: 13300 min⁻¹;
- Zama membrane carburettor.

Cutting attachment

- Clutch drum with external chain sprocket;
- Available guide bars lengths from 30 to 45 cm;

Main dimensions and weights

		MS 250	MS 250C	
Length	incl. cutting attachment 30 cm	665	665	mm
	engine unit with spiked bumper	414	414	mm
Width	engine unit	185	210	mm
	incl. handle	255	282	mm
Height	engine unit	196	196	mm
	with front hand guard	270	270	mm
Stump height	chain sprocket cover	21	21	mm
	handle	29	21	mm
Tank capacity	fuel	0.43	0.43	l
	chain oil	0.20	0.20	l
Weight	incl. cutting attachment 30 cm	5.2	5.6	kg
	without cutting attachment	4.6	5.0	kg

Test

Test carried out by

Kuratorium für Waldarbeit und Forsttechnik Groß-Umstadt
DLG-Testzentrum Technik & Betriebsmittel Groß-Umstadt

Field test

Forstamt Lampertheim
Landesanstalt für Ökologie, Bodenordnung und Forsten, Arnsberg

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FPA/DLG-Test Committee

“Geräte und Werkzeuge“ (“Equipment and tools”) with 16 members
Chairman: Alois Zöllner

FPA/DLG- approval:

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FPA- Index: 1.01.4200
DLG- Test Report: 5561

According to the test regulations, the applicant is entitled to display the test mark on machines of this type and to use the certification for advertising purposes.

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