

TEST REPORT



Stihl MS 261

OWNER OF TEST CERTIFICATE:

Test no.: 6909

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MS 261



MS 261 C-M



MS 261 C-MVW



MS 261 C-BM



MS 261 C-MQ



Test results and evaluations

Andreas Stihl AG & Co. KG, Badstrasse 115, D – 71336 Waiblingen

Chainsaw tested with 40 cm Rollomatic E guide bar and 26 RS saw chain.

STIHL MS 261 (with non-electronic engine management)

STIHL MS 261 C M (with electronic engine management)

STIHL MS 261 C MQ (with electronic engine management and Quick-Stop)

STIHL MS 261 C BEM (with electronic engine management, Ergostart and quick chain tensioner)

STIHL MS 261 C M VW (with electronic engine management, handle and carburettor heating)

Application field

Petrol chainsaw in the power range up to 3 kW for professional use.

Operation, maintenance and product safety		
Operability / Handling / Ergonomics		
Control elements	Easy to reach and operate.	o
Starting the engine	Combined switch for engine ON/OFF and START Decompression valve.	+ o
Engine control	Electronical control (except standard version).	o
Mounting of the saw chain	Easy to access and use.	o
Chain tensioning	Simple. Tensioner on the side of the machine. MS 261 C-BM toolless.	o +
Refilling	No tools required for removing fuel tank caps. Easy access.	o
Maintenance		
Engine-, airfilter- and spark plug cover	Quick release / requires combine wrench.	o
Airfilter		
Cleaning	No tools required.	+
Soiling	Low	+
Reliability	No noticeable problems in the course of the tests.	o
Safety and user information		
Instruction manual	Clearly, well illustrated.	+
Work safety		
EG-type examination	DPLF K-EG-2009/5306	w/o r.
GS-type examination	DPLF K-GS-2009/5307	

Technical data**Main dimensions and weights**

Length	Including cutting set 45 cm	823 mm
	Engine unit w/o bumper spike	425 mm
Width	Engine unit	180 mm
	w/ handle	246 mm
Height	Engine unit	201 mm
	w/ handguard	290 mm
Stump height	Sprocket cover	21 mm
	Handle	31 mm
Tank volumes	Fuel	500 ml
	Chain oil	260 ml
Empty weight	Including cutting set 45 cm	6,0 kg
	w/o cutting set	5,0 kg

Cutting set

- Clutch bell w/ external sprocket
- Guide bar w/ 11-toothed sprocket nose
- Semi- or full chisel chain
- Pitch 0,325" with gauge 1,6 mm
- Further guide bar lengths and chain types fitting the saw type available

Engine data

- Air-cooled single-cylinder two-stroke engine
- Displacement: 50,2 cm³; cylinder bore: 44,7 mm; piston stroke: 32,0 mm
- Spark plug: NGK BPMR 7A
- Idle speed: 2.800 min⁻¹; racing speed: 14.000 min⁻¹

Fuel: minimum octane index 90 ROZ (mixture ratio 1:50) or two-stroke alkylate gasoline with „KWF-Test“. Manufacturer's recommendation: Stihl MotoMix

Power / torque at P _{max} = 3,0 kW, M = 2,8 Nm M _{max} = 3,0 Nm, P = 2,4 kW	revolutions 10.750 min ⁻¹ 7500 min ⁻¹		Power / displacement 59 kW/l 48 kW/l		w/o r.
Power to weight ratio MS 261	w/ cutting set 40 cm 0,5 kW/kg		w/o cutting set 0,6 kW/kg		
Fuel consumption	at max. power output		at max. torque output		+
absolute / specific	1,8 l/h	436 g/kWh	1,5 l/h	451 g/kWh	
Chain oil consumption	at 5.000 min ⁻¹		at 9.000 min ⁻¹		o
min / max	3,3 ml/min	7 ml/min	7 ml/min	15 ml/min	

Exhaust emissions

Comply with stage V of engine category NRSh-v-1a of EU-directive (EU) 2016/1628.
Approval no. given on the type plate.

	Limits according to EU regulation 2016/1628	Manufacturer's information		w/o r.
CO	805 g/kWh	- g/kWh		
HC + NO _x	50,0 g/kWh	- g/kWh		
Noise emissions (maximum values according to manufacturer)				
Max. noise emissions (Cutting set 40 cm)	Idle	Full throttle	Full load	-
At the operator's ear	87 dB(A)	107 dB(A)	104 dB(A)	
Equivalent sound pressure level according to DIN EN ISO 22868: 101 dB(A)				
Equivalent sound power level according to DIN EN ISO 22868: 112 dB(A) (Mix: idle / full throttle)				
Vibration (maximum values according to manufacturer)				
Max. vibrations (Cutting set 40 cm)	Idle	Full throttle	Full load	o
Front handle	3,0 m/s ²	3,0 m/s ²	4,5 m/s ²	
Rear handle	3,0 m/s ²	3,0 m/s ²	4,5 m/s ²	
Equivalent total vibration value according to DIN EN ISO 22867				
Front handle: 3,5 m/s ²				
Rear handle: 3,5 m/s ²				
Rating: ++ / + / o / - / -- ; o = standard ; w/o r. = w/o rating ; – compliance with threshold value				

In the field of measurement tolerances, the Stihl MS 261 is still manufactured unchanged.

Published with funding from the Federal Ministry of Food and Agriculture on the basis of a resolution of the German Bundestag and by the Federal State Ministries of Forestry by:



Test committee equipment and tools
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Test completion **November 2021**
Approval until **November 2026**
First approval **May 2012**
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Practical work with professional users

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