TEST REPORT



Dolmar PS-6400

Test-No.: 3433 OWNER OF THE TEST CERTIFICATE:

Applicant:

Makita Engineering Germany Jenfelder Strasse 38 D- 22045 Hamburg

www.makita.de



Test results and evaluations



Chain saws

Dolmar PS 6400 (standard model)
Dolmar PS 6400 H (with handle heating)
Tested with 45 cm cutting length

Company: Makita Engineering Germany; Jenfelder Strasse 38; D- 22045 Hamburg

Test item	Test resul	ts			Evaluation
Application		Chain saw in the power class up to w kW, for professional use			
Engine power					
P _{max} = 3.5 kW Md _{max} bei 3.0 kW	Engine speed 9000 min ⁻¹ 6500 min ⁻¹	Torque 3.8 Nm Max.4.4 N	55	oec. fuel onsumption kW/I kW/I	NE
Fuel consumption					
	max. powe	max. power max. torque		е	
absolute / specific	2.4 l/h	501 g/kWh	2.1 l/h	532 g/kWh	0
Exhaust emission complies with level I of the standard	ard 2002/88 E	G			0
Approval number e1*97/68SH3-L	A*2011/88*025	55*02			
Chain lubrication					
Oil consumption	at 5000 mi	at 5000 min ⁻¹ at 9000 min ⁻¹		in ⁻¹	
min / max	5 ml/min	13 ml/min	8 ml/min	24 ml/min	0
Noise					
	idling	full loa	ad	racing	
At operator's ear	81 dB(A)	31 dB(A) 103 dB(A) 108 dB(A)		dB(A)	-
Equivalent sound pressure level	according to D	IN EN ISO 228	68: 104 dB(A);	
(Mix: idling/ full load/ racing)					
Noise power level according to D	IN EN ISO 228	368: 113 dB(A)			
(50:50 mix: full throttle / full load)					
Vibration					
	idling	full loa		racing	
front handle	9.1 m/s ²	5.8 m/s ²	4.6		0
rear handle	9.5 m/s ²	6.3 m/s ²	6.4	m/s²	
Equivalent vibration total value a	ccording to DIN	N EN ISO 2286	7		
front handle 5.9 m/s2; rear handle	e 3.6 m/s ²				

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Chain brake		
Hand guard activation	activation aver. braking time max. braking time force	
	32 N 0.105 s 0.116 s	NE
Inertia activation	horizontal acceleration vertical acceleration	
	325 m/s ² 848 m/s ²	
Kickback		
Kickback angle	39°	NE
Weight		
Power to weight ratio	With cutting attachment Without cutting attachment	
	1.8 kg/kW 2.2 kg/kW	o
Operability / handling		
Control elements Easy to reach and use		O
Machine start	Machine start Decompression valve	
	separate engine ON-OFF switch and CHOKE	+
		0
Engine control Limited manual adjustability of the carburettor / idling screw		o
Chain assembly	bly easy access and simple to use	
Chain tensioning	in tensioning simple, on side of machine	
Tank filling Tool required to remove tank caps		0
Maintenance		
Air filter and spark plug cover	Quick-release clips for easy disassembly;	o
	requires combination wrench	· ·
Air filter cleaning	No tools required	+
soiling	low	+
Reliability	No problems during the test	0
Operating manual	clear, well illustrated	0
Operator safety		
EG-type examination test	DEKRA Testing and Certification GmbH. Nr. 4811004.11012	
GS-Test	TÜV Produkt Service GmbH. AL 01 07 24243 043	

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

Threshold values and evaluation criteria are described in the "Information about the Utility Value Test" available from the DLG and the KWF.

Description and technical data

Engine

- Air-cooled single-cylinder two-stroke engine
- Engine displacement 64 cm³; bore 47 mm; stroke 37 mm

Fuel: minimum octane number 91ROZ; mixed lubrication

Manufacturers recommendation: DOLMAR HP 100 High Performance 2-stroke oil, DOLMAR High Performance 2-stroke oil, 2-stroke special fuel with "KWF-TEST"

- Spark plug Bosch WSR-6F or NGK BPMR 7A
- Idling speed 2500 min⁻¹; max. speed 13500 min⁻¹ (electronic speed control)

Cutting attachment

- Clutch drum with external chain sprocket
- Guide bar with sprocket nose
- Half or full chisel tooth chain
- pitch 3/8" or 0.325", gauge 1.5 mm
- additional guide bars and chain types are available for this saw

Main dimensions and weights (measured values)

Length	incl. cutting attachment 45 cm	935 mm
	engine unit without spiked bumper	460 mm
Width	engine unit	195 mm
	incl. handle	255 mm
Height	engine unit	230 mm
	with front hand guard	315 mm
Stump height	chain sprocket cover	16 mm
	handle	25 mm
Tank capacity	fuel	0.75 l
	chain oil	0.42 l
Weight	incl. cutting attachment 38 cm	7.9 kg
	without cutting attachment	6.4 kg

Test

Test facilities

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

Field test

Forstamt Driedorf LÖBF NRW Arnsberg

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FPA/DLG-Test Committee

" Equipment and tools"

Chairman: Sebastian Paar, FBZ Laubau

FPA/DLG- approval until February 2018

(first approved in April 2002)

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 SIGNUM TEST"

Published by

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