

TEST REPORT



Makita Type 195 (Dolmar PS-420 und Makita EA4300F)

Test number: 8390

OWNER OF THE TEST CERTIFICATE:

Applicant:

Makita Engineering Germany GmbH
Jenfelder Strasse 38
D- 22045 Hamburg

www.makita.com



Makita Type 195 (Dolmar PS-420)



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Test results and evaluations

Motorkettensäge MAKITA Type 195 tested in the following versions

DOLMAR PS-420 / SC mit 33 - 45 cm cutting attachment

MAKITA EA4300F mit 33 - 45 cm cutting attachment

Firma: Makita Engineering Germany; Jenfelder Straße 38; D-22045 Hamburg

Test item	Test result				Evaluation
Suitability	Chain saw in the power class up to 3 kW, for semiprofessional use				
Motorleistung	Engine speed	Torque		Spec. fuel consumption	N.E.
P _{max} = 2.2 kW	9.500 min ⁻¹	2.2 Nm		52 kW/l	
Md _{max} bei 1.5 kW	6.500 min ⁻¹	Max.2.4 Nm		36 kW/l	
Fuel consumption					
	max. power		max. torque		
absolute / specific	1.2 l/h	420 g/kWh	1.0 l/h	484 g/kWh	+
Exhaust emission					
complies with level II of the guideline 2002/88/EG					o
Approval number: e1*97/68SH2-IIA*201004/26*0485*020					
Chain lubrication					
Oil consumption	at 5000 min ⁻¹		at 9000 min ⁻¹		
min / max	3 ml/min	8 ml/min	6 ml/min	13 ml/min	o
Noise					
	idling	full load		Full throttle no load	
At ear of operator	81 dB(A)	103 dB(A)		103 dB(A)	-
Equivalent sound pressure level according to DIN EN ISO 22868: 101 dB(A)					
(Mix idling / full throttle / full load)					
Equivalent sound power level according to DIN EN ISO 22868: 110 dB(A)					
(50:50 Mix: full throttle / full load)					

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Vibration					
		idling	full load	Full throttle no load	
front handle		2.9 m/s ²	5.4 m/s ²	4.2 m/s ²	o
rear handle		2.6 m/s ²	4.9 m/s ²	2.4 m/s ²	
Equivalent vibration total value according to DIN EN ISO 22867					
Front handle 4.3 m/s ² ; rear handle 3.6 m/s ²					
Chain brake					
Hand guard activation		activation force	aver. braking time	max. braking time	N.E.
		32 N	0.09 s	0.10 s	
Inertia activation		horizontal acceleration	vertical acceleration		N.E.
		239 m/s ²	573 m/s ²		
Kickback angle		13 °			
Weight					
Power to weight ratio		With cutting attachment	Without cutting attachment		o
		2.6 kg/kW	2.2 kg/kW		
Operability / handling					
Control elements		Easy to reach and use			o
					+
Machine start		With primer			+
		separate engine ON-OFF switch and CHOKE			o
Engine control		Limited manual adjustability of the carburettor / idling screw			o
Chain assembly		easy access and simple to use			o
Chain tensioning		simple, on side of machine			o
Tank filling		Tool required to remove tank caps, easy access			o
Maintenance					
Air filter and spark plug cover		No tools required, screw with formed grip			+
Casing		Difficult to disassemble, makes cleaning difficult			-
Air filter	cleaning	No tools required, clip			+
	soiling	normal			+
Reliability		No problems during the test			o
Operating manual		clear, well illustrated			+
Work safety					

EG- -type examination test

DEKRA Testing and Certification GmbH Nr.
4814056.16003

N.E.

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 42.4 cm³; bore 42 mm; stroke 30.6 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 NGK BPMR 7A
- Idling speed 2800 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 0.325", gauge 1.3 mm
- additional guide bars and chain types are available for this saw

Main dimensions and weights (measured values)

Length	incl. cutting attachment 38 cm	765 mm
	engine unit without spiked bumper	395 mm
Width	engine unit	187 mm
	incl. handle	245 mm
Height	engine unit	190 mm
	with front hand guard	277 mm
Stump height	chain sprocket cover	18 mm
	handle	14 mm
Tank capacity	fuel	0.47 l
	chain oil	0.26 l
Weight	incl. cutting attachment 38 cm	5.6 kg
	without cutting attachment	4.7 kg

Prüfung

Test facilities

Kuratorium für Waldarbeit und Forsttechnik, Groß-Umstadt

Field test

Forstamt Lampertheim

Forstliches Bildungszentrum Königsbronn, Itzelberg

Forstamt Ehringshausen

Authors

P. Müßig, KWF, Gross-Umstadt

FPA test committee of the KWF

" Equipment and tools"



Chairman: Dr. Sebastian Paar, FBZ Laubau

FPA- approval until February 2023

(first approved in November 2007)

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"

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	ENTAM European Network for Testing of Agricultural Machines c/o ENAMA Via Venafrò, 5 I-00159 Rome	Telephone: +39 06 40860030 Fax: +39 06 4076264 E-mail: inf@entam.com Internet: www.entam.com
	Kuratorium für Waldarbeit und Forsttechnik e.V. Forsttechnischer Prüfungsausschuss (FPA) Spremberger Strasse 1 D-64823 Gross-Umstadt	Telephone: +49 06078/785-0 Fax: +49 06078/785-50 E-mail: Muessig@kwf-online.de Internet: www.kwf-online.de
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