Test Report issued under the responsibility of:

eurofins

TEST REPORT
IEC 60745-2-6
Hand-held motor-operated electric tools - Safety
Part 2: Particular requirements for hammers

Report Number. .....:	EFSH21120882-IE-01-L01
Date of issue .....:	2021-12-14
Total number of pages.....:	9 pages
Name of Testing Laboratory preparing the Report.....:	**Eurofins Product Testing Service (Shanghai) Co., Ltd**
Applicant's name.....:	**NINGBO DELI TOOLS CO., LTD.**
Address .....:	No. 128 Chezhan West Road, Huangtan Town, Ninghai County, Ningbo, Zhejiang, China
Test specification:	
Standard .....:	EN 60745-2-6:2010 used in conjunction with EN 60745-1:2009+ A11:2010
Test procedure.....:	CE-MD
Non-standard test method.....:	N/A
Test Report Form No.....:	IEC60745_2_6F
Test Report Form(s) Originator.....:	Eurofins Electrosuisse Product Testing AG
Master TRF .....:	2018-08-09

This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

General disclaimer:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

Test item description ..... :	Rotary Hammer
Trade Mark ..... :	deli
Manufacturer ..... :	NINGBO DELI TOOLS CO., LTD.
Model/Type reference ..... :	DL-DC26-E1
Ratings ..... :	220-240V~, 50-60Hz, 800W, n_0: 0-1150/min, Ø26mm, Class II

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):			
☒	**Testing Laboratory:**	Eurofins Product Testing Service (Shanghai) Co., Ltd	
Testing location/ address ..... :		Building 18, No. 2168 Chenhang Highway, Minhang District, Shanghai, China	
Tested by (name, function, signature) ..... :		Lockie Liu/ Project Engineer	Lockie Liu
Approved by (name, function, signature) .. :		Rancho Ke/ Reviewer	Rancho Ke
☐	**Testing procedure: CTF Stage 1:**		
Testing location/ address ..... :		N/A	
Tested by (name, function, signature) ..... :		N/A	
Approved by (name, function, signature) .. :		N/A	
☐	**Testing procedure: CTF Stage 2:**		
Testing location/ address ..... :		N/A	
Tested by (name + signature) ..... :		N/A	
Witnessed by (name, function, signature) . :		N/A	
Approved by (name, function, signature) .. :		N/A	
☐	**Testing procedure: CTF Stage 3:**		
☐	**Testing procedure: CTF Stage 4:**		
Testing location/ address ..... :		N/A	
Tested by (name, function, signature) ..... :		N/A	
Witnessed by (name, function, signature) . :		N/A	
Approved by (name, function, signature) .. :		N/A	
Supervised by (name, function, signature) :		N/A	

List of Attachments (including a total number of pages in each attachment):

- Constructional data form (CDF): 2 pages (separate file)

Summary of testing:
From the result of our inspection and tests on the submitted samples, we conclude they comply with requirements of the standard.

Tests performed (name of test and test clause):	**Testing location:**
None.	Eurofins Product Testing Service (Shanghai) Co., Ltd Building 18, No. 2168 Chenhang Highway, Minhang District, Shanghai, China

Summary of compliance with National Differences (List of countries addressed):

European Group Differences

Copy of marking plate:
The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

Remark: Full name and address of EU importer will be marked on the appliance.

Test item particulars ..... :	
Classification of installation and use ..... :	Class II
Supply Connection ..... :	Type X
..... :	
Possible test case verdicts:	
- test case does not apply to the test object ..... :	N/A
- test object does meet the requirement ..... :	P (Pass)
- test object does not meet the requirement ..... :	F (Fail)
Testing ..... :	
Date of receipt of test item ..... :	--
Date (s) of performance of tests ..... :	--

General remarks:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

"(See Enclosure #)" refers to additional information appended to the report.
"(See appended table)" refers to a table appended to the report.

Throughout this report a ☒ comma / ☐ point is used as the decimal separator.

Determination of the test result includes consideration of measurement uncertainty from the test equipment and methods.

The related applicable CTL/OSM decisions have been considered and the requirements found fulfilled.

Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided ..... :	☐ **Yes** ☒ **Not applicable**

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies) ..... :	YongKang LingWei Electric Co., Ltd. Jinguquan village, Huajie Town, YongKang City, Zhejiang P.R. China

General product information and other remarks:

The tool is intended to drill in wood, metal, plastic and masonry as well as for light chiselling.

The original Eurofins report ref. No. EFSH21072166-IE-04-L01, dated 2021-09-18, was additionally modified on 2021-12-14 to include the following changes and/or additions:

1. Differences between EN 60745-1:2009+A11:2012 and IEC 60745-1:2006 is checked.
2. Differences between EN 60745-2-6:2010 and IEC 60745-2-6:2003+A1:2006+A2:2008 is checked.

This report is only valid in conjunction with the original Eurofins report ref. No. EFSH21072166-IE-04-L01, and the related amendment/modification reports.

IEC60745_2_6F - Attachment			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 60745-2-6
EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS - SAFETY
PART 2: PARTICULAR REQUIREMENTS FOR HAMMERS

Differences according to.....:	EN 60745-2-6:2010 used in conjunction with EN 60745-1:2009 + A11:2010
Attachment Form No.....:	EU_GD_IEC60745_2_F_III
Attachment Originator .....:	TÜV SÜD Product Service GmbH
Master Attachment .....:	Date 2014-03

IEC60745_2_6F - Attachment			
Clause	Requirement + Test	Result - Remark	Verdict
6	**ENVIRONMENTAL REQUIREMENTS**		
6.1.2.2 M	Sound power level determination		—
6.1.2.2.101	Sound power level determination for concrete breakers and picks		N/A
6.1.2.2.102	For chiselling hammers, 6.1.2.2 of Part 1 applies		P
6.1.2.2.103	For rotary hammers, 6.1.2.2 of Part 1 applies		P
6.1.2.4 M	Installation and mounting conditions of the power tools during noise tests		—
6.1.2.4.101	Concrete breakers and picks are fixed as described in 6.1.2.5.101		N/A
6.1.2.4.102	Chiselling hammers are held by the operator in vertical position using the test equipment described in 6.1.2.5.102		P
6.1.2.4.103	Rotary hammers are held by the operator for drilling vertically down in accordance with 6.1.2.5.103		P
6.1.2.5 M	Operating conditions		—
6.1.2.5.101	Operating conditions for concrete breakers and picks		N/A
6.1.2.5.102	Operating conditions for chiselling hammers		P
6.1.2.5.103	Operating conditions for rotary hammers		P
6.2.6.3 A	Operating conditions		—
	Operating conditions for rotary hammers		P
6.2.6.3.101	Operating conditions for percussion hammers		P
6.2.6.3.102	Operating conditions for rotary hammers		P
6.2.7.1 A	Reported vibration value		—
	“hammer drilling” in accordance with 6.2.6.3.102 $a_{h,HD}$ (m/s²).....:	$a_{h,HD}$ =1,3 m/s2	P
	“chiselling” in accordance with 6.2.6.3.101 $a_{h,CH}$ (m/s²).....:	$a_{h,CH}$ =1,6 m/s2	P
	“no load” in accordance with 6.2.6.3.101 $a_{h,NL}$ (m/s²).....:	$a_{h,NL}$ =1,1 m/s2	P
	Equivalent chiselling value (80%load / 20% no load) $a_{h,CHeq}$ (m/s²).....:	$a_{h,CHeq}$= [0,2 (ah,NL)² + 0,8 ($a_{h,CH}$)²] ^{0,5}= 1,51 m/s²	P
6.2.7.2 A	Declaration of the vibration emission value (instruction manual)		—

IEC60745_2_6F - Attachment			
Clause	Requirement + Test	Result - Remark	Verdict
	For rotary hammers without chiselling function “hammer drilling into concrete”		P
	Vibration emission value $a_{h,HD}$ (m/s²) .....:	$a_{h,HD}$ =1,2 m/s²	P
	Uncertainty K (m/s²)	K: 1,5 m/s²	P
	For rotary hammers with separate chiselling function “hammer drilling into concrete”		P
	Vibration emission value $a_{h,HD}$ (m/s²) .....:	$a_{h,HD}$ =1,6 m/s²	P
	Uncertainty K (m/s²)	K: 1,5 m/s²	P
	For rotary hammers with separate chiselling function “chiselling”		P
	Vibration emission value $a_{h,CHeq}$ (m/s²).....:	$a_{h,CHeq}$ =1,6 m/s²	P
	Uncertainty K (m/s²)	K: 1,5 m/s²	P
	For chiselling hammers and concrete breakers “chiselling”		N/A
	Vibration emission value $a_{h,CHeq}$ (m/s²).....:		N/A
	Uncertainty K (m/s²)		N/A

8	**MARKING AND INSTRUCTIONS**		
8.12.2 A Z101)	Information on the correct use of the dust collection system, if any	No dust collection device	P
Z102)	Advise to wear a dust mask		P