TEST REPORT

Report Reference No.	:	3146349.51QS
Tested by (name + signature)	:	Jiawei Chen
Approved by (name + signature)	:	David Yang
Date of testing	:	2014-06-11
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Contents / enclosures	:	N/A
Testing Laboratory	:	DEKRA Testing and Certification (Shanghai) Ltd.
Testing location / address	:	Testing and Calibration Laboratory of vibration and noise of CSIC No.711 Research Institute / No. 3111, Hua'ning Road, Shanghai,
Applicant	:	LEE YEONG INDUSTRIAL CO., Ltd.
Address	:	No.2, Kejia Rd. Douliu City 64057 YUNLIN COUNTY TAIWAN
Test specification:		
Standards	:	EN 60745-1:2009+A11:2010; EN 60745-2-22:2011 + A11:2013
Test procedure	:	☐ Basic safety test ☐ Screen test ☐ Quick scan ☐ Basic EMC test ☐ Flash test ☐ IP 54 ☒ Noise test ☒ Vibration test
Test object description	:	Concrete Saw(cut-off machine)
Trade Mark	:	AGP
Manufacturer	:	LEE YEONG INDUSTRIAL CO., Ltd.
Address	:	No.2, Kejia Rd. Douliu City 64057 YUNLIN COUNTY TAIWAN
Model/Type reference	:	QHS-350; C14; C355; CS355; CS14; SCS14; SCS355; SC14; SC355
Ratings	:	220-240 V; 50-60 Hz; 2800 W; n=4500 min^{-1}; ø355mm; Class I 110-120 V; 50-60 Hz; 1700 W; n=4500 min^{-1}; ø355mm; Class I
Number of test objects	:	1 pc for noise and vibration measurement

Conclusion:

- The following noise and vibration values (minimum) shall be declared on instruction manual:

Declared dual-number noise emission values in accordance with ISO 4871

Measured A-weighted sound power level, L_{WA} (ref.1pW),in decibels	**115,0 dB(A)**
Uncertainty, K_{WA},in decibels	**3 dB(A)**
Measured A-weighted emission sound pressure level at the work station, L_{pA} (ref.20μPa),in decibels	**104,0 dB(A)**
Uncertainty, K_{pA},in decibels	**3 dB(A)**

Values determined according to noise test code given in EN 60745-1:2009+A11:2010, using the basic standards EN 60745-2-22:2011 + A11:2013.

NOTE - The sum of a measured noise emission value and its associated uncertainty represents an upper boundary of the range of values which is likely to occur in measurements.

Vibration total values (triaxial vector sum) determined according to EN60745

Vibration emission Value a_h	**11,0 m/s^2**
Uncertainty K	**1,5 m/s^2**

Values determined according to EN 60745-1:2009+A11:2010 and EN 60745-2-22:2011 + A11:2013.

Summary of testing:

Location of testing and Environmental condition:

Location:	Hemi-anechoic room
Address:	No. 3111, Hua'ning Road, Shanghai, China
Background noise:	18,0 dB(A)
Radius of free field:	4m
Air temperature:	25℃
Relative humidity:	80%
Barometric pressure:	101,1kPa
Wind velocity:	0m/s

Test equipment list:

Equipment	Type	Serial number	Manufacturer	Calibration due date
Soundmeter	2250	2590450	Brüel & Kjær	2015/04/17
Pulse	3050-A-060	100753	Brüel & Kjær	2014/07/29
Calibrator	4231	1820906	Brüel & Kjær	2015/04/18
Accelerometer	66A11	10303	Brüel & Kjær	2015/05/25
Accelerometer	66A11	10298	Brüel & Kjær	2015/05/25

Part 1 Noise test

1.1 Test standards

EN 60745-1:2009+A11:2010; EN 60745-2-22:2011 + A11:2013

1.2 Description of the hand-held tool

Product: Concrete Saw(cut-off machine)

Model: QHS-350; C14; C355; CS355; CS14; SCS14; SCS355; SC14; SC355

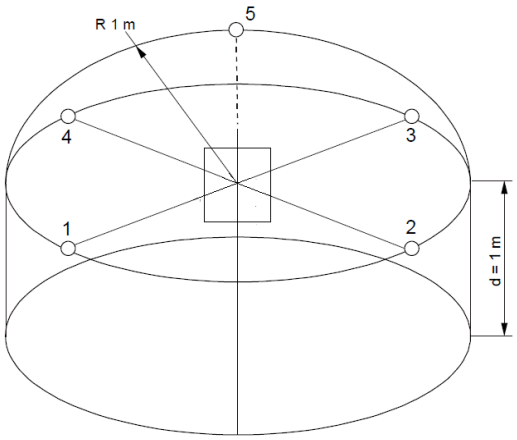
Technical data: 220-240 V; 50-60 Hz; 2800 W; n=4500 min^{-1}; ø355mm;
110-120 V; 50-60 Hz; 1700 W; n=4500 min^{-1}; ø355mm;Class I

1.3 Description of mounting and operation conditions

Mounting: The machine was held by the operator.

Operating conditions: Cutting concrete slab.

1.4 Microphone positions:



1.5 Measurement data

cycle \ point	1	2	3	4	5
1	105,1	104,2	103,8	103,8	100,1
2	104,7	103,7	103,9	104,1	99,7
3	104,6	103,9	103,9	104,3	100,1
4	104,9	103,9	104,3	104,3	99,6
5	105,2	104,1	104,2	104,2	99,8

1.6 Test result

sound power level: $\boldsymbol{L_{WA} = 114,7dB(A)}$

Emission sound pressure level: $\boldsymbol{L_{pA} = 103,7dB(A)}$

Part 2 Vibration test

2.1 Test standards

EN 60745-1:2009+A11:2010; EN 60745-2-22:2011 + A11:2013

2.2 Description of the hand-held tool

Product: Concrete Saw(cut-off machine)

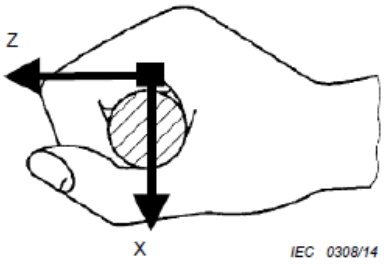
Model: QHS-350; C14; C355; CS355; CS14; SCS14; SCS355; SC14; SC355

Technical data: 220-240 V; 50-60 Hz; 2800 W; n=4500 min^{-1}; ø355mm;
110-120 V; 50-60 Hz; 1700 W; n=4500 min^{-1}; ø355mm;Class I

2.3 Description of operating and testing conditions

Testing conditions: Cutting concrete slab.

2.4 Measurement direction



2.5 Measurement data

Main handle:

Operator A				
Direction / No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	3,213	5,337	3,466	7,129
2	3,141	5,102	3,597	6,988
3	3,149	5,242	4,205	7,422
4	3,185	5,204	3,834	7,206
5	3,746	5,264	3,952	7,574
the arithmetic mean total vibration				7,264

Operator B				
Direction / No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	3,606	5,236	3,621	7,316
2	3,789	4,836	3,266	6,958
3	3,387	5,200	3,674	7,212
4	3,209	5,178	3,587	7,069
5	3,678	4,988	3,320	7,031
the arithmetic mean total vibration				7,117

Operator C				
Direction / No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	3,512	5,217	3,401	7,150
2	3,531	5,230	3,806	7,369
3	3,093	4,945	3,685	6,899
4	3,126	5,123	3,997	7,211
5	3,443	5,137	3,386	7,050
the arithmetic mean total vibration				7,136

Auxiliary handle:

Operator A				
Direction / No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	8,788	6,696	3,823	11,692
2	8,212	6,400	3,510	10,987
3	8,881	6,247	3,632	11,449
4	8,247	6,294	3,501	10,949
5	7,972	6,594	3,256	10,846
the arithmetic mean total vibration				11,185

Operator B				
Direction / No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	7,829	6,345	3,847	10,787
2	7,925	6,568	4,154	11,099
3	8,136	6,357	3,722	10,976
4	7,824	6,326	3,413	10,625
5	7,848	6,413	4,189	10,966
the arithmetic mean total vibration				10,891

Operator C				
Direction / No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	7,734	6,179	4,241	10,769
2	7,913	6,487	3,319	10,757
3	7,827	6,202	3,300	10,518
4	8,460	6,229	3,500	11,073
5	8,443	6,645	3,956	11,449
the arithmetic mean total vibration				10,913

2.1.6 Test result

Main handle: The average vibration total value a_h: 7,172 m/s^2

Auxiliary handle: The average vibration total value a_h:10,996 m/s^2

The test results shown in this report relate only to the tests performed according to the test program. The test object has not been submitted to a full test program.

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