

Summary of testing:
Location of testing and Environmental condition:

Location:	Noise lab of DEKRA Testing and Certification (Shanghai) Ltd.
Address:	No. 1050, Xingxian Road, Shanghai, China
Background noise:	31,8 dB(A)
Dimension:	3,95m*2,8m*2,4m
Air temperature:	30°C
Relative humidity:	36%
Barometric pressure:	101,1kPa
Wind velocity:	0m/s

Test equipment list:

Equipment	Type	Serial number	Manufacturer	Calibration due date
Soundmeter	2250	3025106	Brüel & Kjær	2020/02/24
Pulse	3050-A-060	3050-112000	Brüel & Kjær	2020/02/27
Calibrator	4231	3022391	Brüel & Kjær	2020/02/24
Accelerometer	4535B001	32675	Brüel & Kjær	2020/02/27
Accelerometer	4535B001	32674	Brüel & Kjær	2020/02/27

Part 1 Noise test
1.1 Test standards

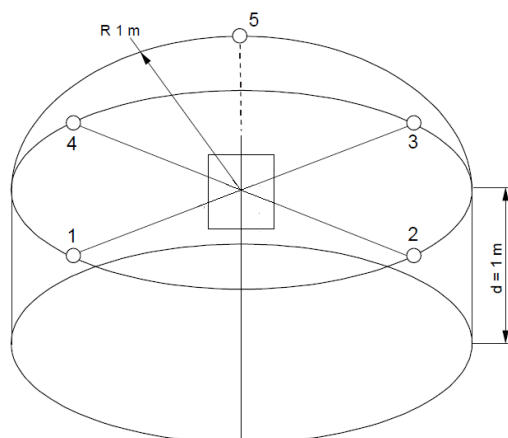
EN 60745-1:2009+A11:2010; EN 60745-2-22:2011

1.2 Description of the hand-held tool

Product: Concrete Saw
 Model: C16; C405; CS16; CS405; PC16; PC405; PS16; PS405; QHS- 400; KCS400
 Technical data: 110-120Va.c.

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	107,2	105,0	102,5	106,4	100,5
2	106,8	104,6	102,3	106,2	100,1
3	106,5	105,4	102,9	106,3	99,9
4	106,9	105,2	102,7	106,5	100,2
5	107,1	105,6	102,5	106,2	100,3

1.6 Test result

sound power level: $L_{WA} = 115,9dB(A)$

Emission sound pressure level: $L_{pA} = 104,9dB(A)$

Part 2 Vibration test

2.1 Mode "Cutting concrete slab"

2.1.1 Test standards

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

2.1.2 Description of the hand-held tool

Product: Concrete Saw

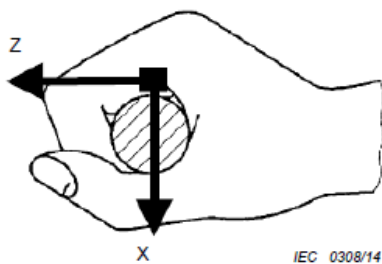
Model: C16; C405; CS16; CS405; PC16; PC405; PS16; PS405; QHS- 400; KCS400

Technical data: 110-120Va.c.

2.1.3 Description of operating and testing conditions

Testing conditions: Cutting concrete slab.

2.1.4 Measurement direction



2.1.5 Measurement data

Main handle:

Operator A				
Direction \ No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	1,247	2,166	2,386	3,455
2	1,370	2,077	2,172	3,303
3	1,465	1,979	1,967	3,152
4	1,247	2,174	2,089	3,263
5	1,818	2,884	1,859	3,883
the arithmetic mean total vibration				3,411

Operator B				
Direction No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	1,651	2,352	1,992	3,496
2	1,514	2,230	2,186	3,471
3	1,448	2,158	2,089	3,334
4	1,101	2,303	2,171	3,351
5	1,525	2,137	2,144	3,389
the arithmetic mean total vibration				3,408

Operator C				
Direction No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	1,540	1,997	2,081	3,269
2	1,531	2,652	1,984	3,648
3	1,451	2,018	2,029	3,209
4	1,460	1,995	1,992	3,175
5	1,354	2,192	2,306	3,458
the arithmetic mean total vibration				3,352

Auxiliary handle:

Operator A				
Direction No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	2,521	1,683	1,231	3,271
2	2,833	2,078	1,660	3,885
3	3,273	1,590	1,716	4,023
4	3,152	2,064	1,813	4,181
5	3,208	1,685	1,635	3,975
the arithmetic mean total vibration				3,867

Operator B				
Direction No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	3,127	1,976	1,503	3,992
2	2,964	1,714	1,428	3,710
3	3,021	1,966	1,537	3,918
4	3,071	2,381	1,877	4,315
5	3,007	1,897	1,423	3,830
the arithmetic mean total vibration				3,953

Operator C				
Direction No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	3,072	2,171	1,415	4,019
2	3,153	1,963	1,732	4,098
3	3,041	2,341	1,946	4,303
4	3,180	1,890	1,808	4,118
5	2,698	1,696	1,310	3,445
the arithmetic mean total vibration				3,997

2.1.6 Test result

Main handle: The average vibration total value a_h : 7,172 m/s²

Auxiliary handle: The average vibration total value a_h : 10,996 m/s²

2.2 Mode "No load without saw blade"

2.2.1 Test standards

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

2.2.2 Description of the hand-held tool

Product: Concrete Saw

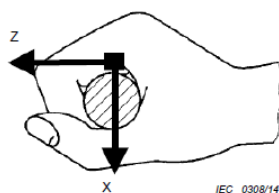
Model: C16; C405; CS16; CS405; PC16; PC405; PS16; PS405; QHS- 400;
KCS400

Technical data: 110-120V a.c.

2.2.3 Description of operating and testing conditions

Testing conditions: No load/max.speed

2.2.4 Measurement direction



2.2.5 Measurement data

Main handle:

Operator A				
Direction No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	1,328	1,758	0,810	2,347
2	1,263	1,830	0,834	2,375
3	1,135	1,935	0,814	2,387
4	1,598	1,808	0,892	2,573
5	1,133	1,991	0,822	2,434
the arithmetic mean total vibration				2,423

Operator B				
Direction No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	1,276	2,033	0,807	2,532
2	1,414	1,800	0,839	2,438
3	1,348	1,964	0,844	2,527
4	1,453	1,727	0,882	2,424
5	1,532	1,735	0,861	2,470
the arithmetic mean total vibration				2,478

Operator C				
Direction No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	1,250	1,980	0,898	2,508
2	1,289	2,039	0,871	2,565
3	1,178	1,962	0,803	2,425
4	1,110	1,803	0,891	2,297
5	1,211	1,720	0,868	2,276
the arithmetic mean total vibration				2,414

Auxiliary handle:

Operator A				
Direction No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	1,144	1,075	1,668	2,291
2	1,377	1,084	1,722	2,456
3	1,381	1,235	1,473	2,366
4	1,569	1,059	1,500	2,415
5	1,734	1,358	1,333	2,574
the arithmetic mean total vibration				2,421

Operator B				
Direction No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	1,688	1,650	1,755	2,942
2	1,294	1,165	1,570	2,345
3	1,781	1,588	1,365	2,749
4	1,528	1,571	1,657	2,748
5	1,765	1,072	1,451	2,524
the arithmetic mean total vibration				2,661

Operator C				
Direction No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	1,450	1,679	1,301	2,571
2	1,103	1,496	1,705	2,522
3	1,480	1,193	1,298	2,302
4	1,639	1,579	1,461	2,705
5	1,671	1,460	1,759	2,832
the arithmetic mean total vibration				2,586

2.2.6 Test result

Main handle: The average vibration total value a_h : 2,438 m/s^2

Auxiliary handle: The average vibration total value a_h : 2,556 m/s^2

2.3 Mode "No load with saw blade"

2.3.1 Test standards

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

2.3.2 Description of the hand-held tool

Product: Concrete Saw

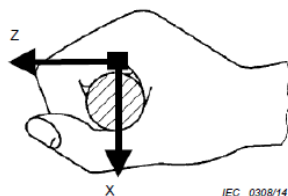
Model: C16; C405; CS16; CS405; PC16; PC405; PS16; PS405; QHS- 400;
KCS400

Technical data: 110-120V a.c.

2.3.3 Description of operating and testing conditions

Testing conditions: No load/max.speed

2.3.4 Measurement direction



2.3.5 Measurement data

Main handle:

Operator A				
Direction No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	1,582	1,759	1,208	2,656
2	1,398	1,656	1,111	2,435
3	1,494	2,139	1,500	3,009
4	1,163	2,122	1,468	2,830
5	1,489	2,151	1,314	2,927
the arithmetic mean total vibration				2,772

Operator B				
Direction No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	1,192	1,823	1,798	2,824
2	1,213	1,925	1,216	2,580
3	1,330	1,740	1,477	2,642
4	1,339	1,646	1,422	2,554
5	1,297	2,182	1,270	2,838
the arithmetic mean total vibration				2,688

Operator C				
Direction No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	1,392	1,655	1,343	2,546
2	1,640	2,114	1,168	2,919
3	1,388	2,282	1,588	3,107
4	1,285	1,864	1,663	2,809
5	1,021	2,276	1,571	2,948
the arithmetic mean total vibration				2,866

Auxiliary handle:

Operator A				
Direction No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	2,296	2,352	1,116	3,471
2	2,103	2,393	1,457	3,503
3	2,094	2,345	1,095	3,329
4	2,296	2,353	1,299	3,535
5	2,084	2,240	1,201	3,287
the arithmetic mean total vibration				3,425

Operator B				
Direction No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	1,844	2,372	1,162	3,221
2	2,202	2,204	1,217	3,345
3	1,935	2,604	1,023	3,401
4	2,255	2,233	1,039	3,339
5	2,069	2,419	1,177	3,393
the arithmetic mean total vibration				3,340

Operator C				
Direction No.	a_{hwx}	a_{hwy}	a_{hwz}	The vibration total value
1	1,709	2,455	1,082	3,181
2	2,355	2,463	1,478	3,715
3	2,231	2,225	1,248	3,389
4	1,824	2,395	1,047	3,187
5	2,331	2,330	1,193	3,505
the arithmetic mean total vibration				3,395

2.3.6 Test result

Main handle: The average vibration total value a_h : 2,775 m/s^2

Auxiliary handle: The average vibration total value a_h : 3,387 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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