

12/14/2007

## TOOL TEST SUMMARY SHEET

NAME OF DEVICE UNDER TEST (DUT)  
TEST ENGINEER  
TEST DATE

Jig Saw  
Edward Zechmann  
9/21/2004

TEST DESCRIPTION  
TEST LOCATION  
MANUFACTURER  
MODEL  
SERIAL NUMBER  
MODE OF OPERATION  
RUN NUMBER  
YEAR MADE

Sound Power Level Measurement  
UC anechoic lab  
Bosch  
1590EVSK  
486093007  
Normal  
1

DIMENSIONS (inches)  
TECHNICAL SPECIFICATIONS  
MOUNTING CONDITIONS  
LOADING CONDITIONS  
K1 (dBA)  
K2 (dBA)  
TEMPERATURE (FARHENHEIT, CELSIUS)  
HUMIDITY %  
BAROMETRIC PRESSURE ("Hg, Pa)

LENGTH 10, WIDTH 3, HEIGHT 8.5  
1 inch stroke length  
free-free, bungy cords  
Full speed no load  
0  
1.15  
79 F, 26 C  
38  
29.49 "Hg, 998700 Pa

TEST ENVIRONMENT  
TOOL TESTING STANDARD  
MEASUREMENT STANDARD  
MICROPHONE SET-UP  
SURFACE RADIUS

SEMI ANECHOIC, SEMI HEMISPHERICAL  
ANSI S12.15-1992  
ISO 3744:1994-05-01  
10-MICROPHONES  
2.00 meters

RATED POWER (WATTS)  
ACTUAL INPUT POWER (WATTS)  
VOLTAGE (VOLTS)  
CURRENT (AMPS)  
RATED SPEED SPM  
ACTUAL SPEED SPM  
SOUND POWER LEVEL (dBA)  
SOUND POWER (WATTS) A-weighted

768  
330  
117  
4.18  
2800  
3000  
97.0  
0.00503

SWL - k2 (dBA)  
SWL - k2 (WATTS) A-weighted  
SOUND PRESSURE LEVEL @ (2m) (dBA)

95.9  
0.00386  
83.2

AT THE NOMINAL HEARING ZONE OF OPERATOR  
SOUND PRESSURE LEVEL (dBA)

89.2

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## Directivity Study

DUT	Jig Saw
Manufacturer	Bosch
Model Number	1590EVSK
Serial Number	486093007
MODE OF OPERATION	Normal
RUN NUMBER	1

### A-weighted Sound Pressure Level

Mic #	Position1 dBA	Position2 dBA
0	81.9	
1	82.9	
2	82.7	
3	83.4	
4	83.5	
5	82.7	
6	83.7	
7	83.7	
8	85.0	
9	82.8	
10	89.2	
dB difference	3.1	

Mic #	A-weighted Directivity Index	
	Position1	Position2
0	-1.3	
1	-0.3	
2	-0.6	
3	0.2	
4	0.3	
5	-0.6	
6	0.5	
7	0.4	
8	1.8	
9	-0.5	
10	6.0	

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# TOOL TEST DATA SHEET

DUT Jig Saw  
Manufacturer Bosch  
Model Number 1590EVSK  
Serial Number 486093007  
MODE OF OPERATION Normal  
RUN NUMBER 1

## TEST CONDITIONS

Actual Power (watt) 330  
Voltage (Volts) 117  
Current (Amps) 4.18  
Actual RPM 3000  
Temperature (Deg. F) 79 F, 26 C  
Humidity (%) 38  
Baro. Press. (inch of Hg) 29.49 "Hg, 998700 Pa

## Measurement Data

### Linear

	Position 1	Position 2
Sound Power Level (dB)	96.7	
Sound Power Level (Watt)	0.00469	
Sound Pressure Level (dB)	82.9	

### A-Weighted

	Position 1			
	Test 1	Test 2	Test 3	Test 4
Sound Power Level (dBA)	97.1	97.0	97.0	97.0
Sound Power Level (Watt)	0.00514	0.00496	0.00499	0.00504
Sound Pressure Level (dBA)	83.3	83.1	83.1	83.2

## Calculations

Average Sound Power Level (Watt)	0.00503
Average Sound Power Level (dBA)	97.0
Average Sound Pressure Level (dBA)	83.2
Std. Deviation of Sound Power Level (dBA)	0.0665
0.95 Confidence of Sound Power Level (dBA)	0.0709
Average Sound Power Level (dBA) -K2	95.87
Average Sound Pressure Level (dBA) -K2	82.02