

# LOADED SOUND TEST SUMMARY SHEET

NAME OF DEVICE UNDER TEST (DUT)  
TOOL OPERATOR  
COMPUTER OPERATOR  
TEST DATE

Miter Saw  
Edward Zechmann  
Automated Mode, Xiandong Zhu  
6/7/2006

TEST DESCRIPTION  
TEST LOCATION  
MANUFACTURER  
MODEL  
SERIAL NUMBER  
MODE OF OPERATION  
RUN NUMBER  
YEAR MADE  
DIMENSIONS (inches)  
WEIGHT (lbs.)  
TECHNICAL SPECIFICATIONS  
MOUNTING CONDITIONS  
LOADING CONDITIONS  
K1 (dBA)  
K2 (dBA)  
TEMPERATURE (CELSIUS)  
HUMIDITY %  
BAROMETRIC PRESSURE ("Hg)

Sound Power Level Measurement  
UC ANECHOIC LAB  
Global Machinery Company (GMC)  
MS1015AUL

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 RPM  
ACTUAL RPM

1800  
NA  
NA  
NA  
5200  
NA

SOUND POWER LEVEL (dBA)  
SOUND POWER (WATTS) A-weighted  
SWLA - k2 (dBA)  
SWLA - k2 (WATTS) A-weighted  
SOUND PRESSURE LEVEL (dBA) @ 2 meters

111.1  
0.13003  
109.8  
0.09528  
97.1

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

107.2

## Average Directivity Study

TEST DATE 6/7/2006  
DUT Miter Saw  
Manufacturer Global Machinery Company (GMC)  
Model Number MS1015AUL  
Serial Number  
Mode Normal  
Run Number 3

### A-weighted Sound Pressure Level

Mic #	Position1	Position2
	dBA	dBA
0	97.1	96.9
1	92.1	95.2
2	98.5	99.0
3	97.6	99.0
4	96.9	98.6
5	98.2	96.8
6	94.2	91.8
7	98.6	98.3
8	95.5	95.5
9	97.5	97.3
10	107.2	106.1
dB difference		6.5      7.2

### A-weighted Directivity Index

Mic #	dBA	dBA
0	0.5	0.1
1	-4.5	-1.6
2	1.9	2.1
3	0.9	2.1
4	0.3	1.8
5	1.6	0.0
6	-2.4	-5.0
7	2.0	1.4
8	-1.1	-1.3
9	0.8	0.5

# SOUND DATA SHEET

## PRODUCT INFORMATION

## TEST CONDITIONS

TEST DATE	6/7/2006		
DUT	Miter Saw	Actual Power (watt)	NA
Manufacturer	Global Machinery Company (GMC)	Voltage (Volts)	NA
Model Number	MS1015AUL	Current (Amps)	NA
Serial Number		Actual RPM	NA
Mode of Operation	Normal	Temperature (Deg. F)	23 C
Run Number	3	Humidity (%)	39

## Measurement Data

Baro. Press. (inch of Hg) 29.93 "Hg

### Linear (unweighted) Position 1

Sound Power (dB)	109.36	109.80	109.63	109.99	110.14	109.85	111.01	112.24	110.93	111.16
Sound Power (Watts)	0.08631	0.09558	0.09174	0.09970	0.10337	0.09654	0.12616	0.16756	0.12400	0.13058
Sound Pressure (dB)	95.36	95.80	95.62	95.98	96.14	95.84	97.01	98.24	96.93	97.16

### Linear (unweighted) Position 2

Sound Power (dB)	111.57	111.45	110.91	110.85	110.65	110.37	110.29	110.16	110.08	109.85
Sound Power (Watts)	0.14371	0.13962	0.12332	0.12170	0.11625	0.10902	0.10698	0.10375	0.10179	0.09667
Sound Pressure (dB)	97.57	97.45	96.91	96.85	96.65	96.37	96.29	96.16	96.07	95.85

### A-weighted Position 1

Sound Power (dBA)	109.77	110.13	110.07	110.30	110.52	110.29	111.53	113.00	111.51	111.84
Sound Power (Watts)	0.09494	0.10294	0.10171	0.10723	0.11276	0.10688	0.14219	0.19965	0.14144	0.15282
Sound Pressure (dBA)	95.77	96.12	96.07	96.30	96.52	96.29	97.53	99.00	97.50	97.84

### A-weighted Position 2

Sound Power (dBA)	112.23	112.13	111.57	111.51	111.28	110.96	110.94	110.69	110.58	110.33
Sound Power (Watts)	0.16720	0.16328	0.14369	0.14144	0.13421	0.12462	0.12408	0.11734	0.11417	0.10791
Sound Pressure (dBA)	98.23	98.13	97.57	97.50	97.28	96.95	96.93	96.69	96.57	96.33

## Calculations

### Average A-weighted Sound Data

Sound Power (dBA)	111.14
Sound Power (Watts)	0.1300
Sound Pressure (dBA)	97.14

Std. Deviation SWLA	0.8496
95 % Confidence Level	0.3277
Mean SPLA-k2	95.79