



BUREAU VERITAS / GLOBAL SOURCES SUPPLIER CAPABILITY ASSESSMENT

BV Report No.:10082190372

Assessed Factory Name	Shenzhen Mason Technologies Co., Ltd.
Assessed Factory Address	64D Bld., Ma Shan Tou the 4 th Industrial Zone, GongMing Town, Bao An District, ShenZhen City, Guangdong Province, China
City / Country	Shenzhen City/ China
Consigner of Assessment	SHENZHEN MASON TECHNOLOGIES CO LTD
GS Supplier / Manufacturer No.	8814179977
GS Supplier Name	Shenzhen Mason Technologies Co., Ltd.
Date of Assessment	13-Aug-08
Expiry Date (12 months validity)	12-Aug-09
Name of Assessor	Gavin Duan
Reviewed by	Jessica Sun

Bureau Veritas Consumer Products Services division in collaboration with Global Sources has developed a new

"**Supplier Capability Assessment**" program which has been based on good practice principals used by international retailers and brands. The objective of validating supplier information is to provide additional confidence to buyers so that they know the information has been verified by an independent third party.

The Bureau Veritas "**Supplier Capability Assessment**" program is not designed to be a performance standard but rather an information validation program against an established criterion providing potential buyers with information on the establishments stated claims and capabilities. The criteria used to assess the "**Supplier Capability Assessment**" program consist of a questionnaire with the following categories:

1. Factory Overview
2. Legal Entity
3. Personnel
4. Export Markets
5. Key Clients
6. Product Capabilities
7. Production Capabilities
8. Management Systems & Accreditations
9. Quality Control Management
10. Development / Expansion Plans

The above reflects our findings for the particular factory in concern on the date of our service only. This report does not certify, confirm or imply: a) compliance with any government, industry or association regulations or standards, unless stated otherwise; or, b) the quality of any specific products manufactured by the factory/sellers/suppliers; or, c) the shipment of any specific products. This report does not discharge or release the factory/sellers/suppliers from their commercial, legal or contractual obligations with buyers in respect of products manufactured by the factory/sellers/suppliers. Our services, including reports and certificates, are subject to the General Conditions of Service of Bureau Veritas which have been sent to your company. They can be resent upon written request. This report cannot be partially copied. Any reader other than the party for which this report has been specifically issued is hereby informed that the General Conditions of Service of Bureau Veritas contain liability limitation provisions.

1. Factory Overview

Factory Name	Shenzhen Mason Technologies Co., Ltd.		
Factory Address	64D Bld., Ma Shan Tou the 4 th Industrial Zone, GongMing Town, Bao An District, ShenZhen City, Guangdong Province, China		
Factory Phone Number	86-755-29886863		
Factory Fax Number	86-755-29886865		
URL/Web Address	www.mason-led.com		
Name of Contact	Mr. Peter Zhang		
E-mail address	director@mason-led.com		
Year Established	13-Dec-02	Number of Dormitories	
Number of Buildings	3 buildings	Total Dormitory Capacity (beds)	
Total Production Area M ²	12,000 M ²	Percentage of Workers in residence	
Factory Capital Investment	USD 15,000,000		
A Subsidiary Factory of	N/A		
Type of Ownership	<input type="checkbox"/> Privately Owned	<input checked="" type="checkbox"/> Public Company	<input type="checkbox"/> Joint Venture
	<input type="checkbox"/> Stated Owned	<input type="checkbox"/> Proprietorship	
Principle/Owner	Mr. Leon Lee	E-mail:	Leonlee@mason-led.com
		E-mail:	
		E-mail:	
Supplier - Factory Relationship	<input checked="" type="checkbox"/> shareholder/partner	<input type="checkbox"/> Wholly Owned	<input type="checkbox"/> Capacity Contract
	<input type="checkbox"/> Historical Working relationship		
Valid Product liability insurance	<input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	Expiry date	N/A
Valid Product recall insurance	<input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	Expiry date	N/A

2. Legal Entity

Does the factory have a valid business license which accurately reflect the current operations?	<input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
Registration number	4403011031755800
<input checked="" type="checkbox"/> manufacturer <input type="checkbox"/> export trading <input type="checkbox"/> both	
Date of Registration	13-Dec-02
Valid period	13-Dec-12
Name of Corporative Representative	Mr. Li Zhijiang
Is the annual review done by the local authority, e.g., Industrial & Commerical Bureau? (please specify)	<input checked="" type="checkbox"/> Y, <input type="checkbox"/> N Shenzhen Industrial & Commercial Bureau (Recently review was conducted in June 2007)

3. Personnel

Key Staff	Name	Tel	E-mail	Year(s) in Position
General Manager	Mr. Robin Luo	0755-29886912	luoming@vip.163.com	5
Quality/Technical Manager	Mr. Hu Pengfei	0755-29886863	hpf@masonled.com	5
Production Manager	Mr. Luo Guangdong	0755-29886863	lqd@masonled.com	3
R & D Manager	Mr. Yang Boyong	0755-29886863	richard@masonled.com	5
Health & Safety Officer	Mr. Shu Weiping	0755-29886863	wqq@masonled.com	3
Security Representative/Officer	Mr. Shu Weiping	0755-29886863	wqq@masonled.com	5
Equipment Maintenance	Mr. Wang Xiongbin	0755-29886863	mason@163.com	5
Others (please specify)				

Does QA/QC Manager have responsibilities other than quality? If "YES", please specify. Y, N
N/A

Personnel / Headcount by Department	Department	Full time	Part time	Total
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Financial Department	8	8
Purchasing Department	8	8
PMC Department	22	22
Administrative Department	25	25
Producing Department	750	750
Marketing Department	28	28
Department	12	12
QC Department	110	110
Engineer Department	14	14
SMD/IR Department	13	13
ARD Department	21	21
Equipment Department	16	16
Total:	1027	1027

4. Export Markets

Markets	Total Units Exported (annual)	% of Total Business Volume
[X] U.S. / North America	266,600,000	15.01%
[X] E.U.	266,600,000	15.01%
[X] Asia	88,800,000	5.00%
[X] Others	88,800,000	5.00%
[X] Domestic	1,065,200,000	59.98%
Annual \$ Volume in (last year)	41,700,000 USD	
Estimated Annual \$ Volume (this year)	52,125,000 USD	

5. Key Clients (past 12 months)

Customers	% Business	Type of Products
Midea	20%	LED lamps
Skyworth	15%	LED lamps
Ege-tek	5%	LED strips
LDF	5%	LED strips and led modules
Other	55%	Module

6. Product Capabilities (previous 12 months)

Product Description / Category	Production Capacity	
	Total Installed capacity (units)	Actual Units Shipped
SMD LED	360,000,000	336,000,000
LED Strips	144,000,000	120,000,000
LED Module	144,000,000	120,000,000
LED Lamps	2,100,000,000	1,200,000,000

7. Production Capabilities

How many production lines are in the factory?	6		
How many employees are working in each line?	Supervisor: 2		
	Workers / operators: 118		
	In-line QC: 15		
	Helpers: 5		
	Total per line: 140	X lines =	840
What is the factory's projected average production capacity per month / year of each line?	225,000,00 monthly	0 pieces annually	2,800,000,000 pieces
What is the factory's projected average lead time from PO confirmation to production EX WORKS delivery?	7-15 days		
Please describe the factory's production process flow. * see attachments for further detail	SMT, Welding, Assembling, Packing * see attachments for further details		
Does the assessed facility have the correct machinery types and infrastructure to produce the claimed products?	Yes		
Please list out the major machinery / utilities in the factory.			

List of Major Machinery / Utilities

Name of machinery	Type / Model	Specification	Quantity	Year Made	Service Date	Condition
Automatic Die-bonding Machine	AD809A-03	Nil	31 sets	2004-2006	2004-2008	Acceptable
Automatic Wire-bonding Machine	AB339	Nil	22 sets	2004-2006	2004-2008	Acceptable
Automatic Double-orbit Encapsulation Machine	Nil	Nil	8 sets	2004-2006	2004-2008	Acceptable
Automatic Sorting Machine	Nil	Nil	38 sets	2004-2006	2004-2008	Acceptable
Viewing Angle Testing Machine	Nil	Nil	1 set	2005	2006	Acceptable
Thermal Shock Testing Machine	QA-TT-40	Nil	1 set	2005	2006	Acceptable
Spectral Measurement Machine	PMS-50	Nil	1 set	2005	2006	Acceptable
Salt Spray Testing Machine	QA-TT-60	Nil	1 set	2005	2006	Acceptable
Constant Temp & Humidity Testing Machine	IPC1000	Nil	1 set	2005	2006	Acceptable

If the factory subcontracts any work, please specify the details.

List of Subcontractors

Name of Subcontractors	Process involved	Address
N/A, No subcontractors used		

8. Management Systems and Accreditation

(please attach copies of each)

Accreditation		Certifying Body	Date
ISO 9001:2000	[X] Y, [] N	China United Certification	15-Sep-05
ISO 14000	[X] Y, [] N	China United Certification	15-Sep-05
BRC Standard - Consumer Products	[] Y, [X] N		
SA 8000	[] Y, [X] N		
WRAP	[] Y, [X] N		
Others (please specify):	N/A		

Is product certification done in terms of selling designation

(e.g., UL for US, CCC for China, CE for Europe...) at the factory? [X] Y, [] N

if Yes, please specify

	Certifying Body	Date
UL for USA	Underwriters Laboratories Inc.	11-Sep-07
CE for Europe	Shenzhen Toby Technology Co., Ltd	18-Jun-07

9. Quality Control Management

Is quality monitored on all relevant line operations?

[X] Y, [] N

Are QA/QC inspectors independent of production?

[X] Y, [] N

Who does the QC/QA Manager/Supervisor report to? Mr. Robin Luo/ General Manager

How many QA/QC in total? Final: 10 In-line: 90

Are there designated on-line inspection/test areas? [X] Y, [] N

Are production inspection records kept? [X] Y, [] N How long? 3 years

Do inspectors conduct spot-checking in accordance with specifications during In-process or Final inspection?

Do you test functionality of product items on sight? [X] Y, [] N

Types of Final Inspections
 (if no final inspection, please select "No" ; if yes please select the type below): [X] Y, [] N

100 % Inspection [] Y, [X] N

Selected samples [X] Y, [] N

If yes, please specify the sampling plan used:
MIL-STD-105E, Level II, Single, Normal, and AQL: Critical/0, Major/0.4, Minor/0.65

Are rejected pieces 100 % re-inspected by inspector after repair ? [X] Y, [] N

If the answer above is "No", are the rejected pieces discarded ? [] Y, [] N

10. Factory Development / Expansion Plans

Item	Factory Development Projects / Actions	Time Frame
LED Application Lighting	LED Application lighting was in development.	Would be finished next year

Please see the attached annex:

- A. Photos.
- B. Flow chart of manufacturing processes.
- C. Organization chart.
- D. Copy(ies) of Quality Management System Certificate (if any).

Digital Photo Form

		
(1) Facility exterior view	(2) Facility name	(3) Dormitory building
		
(4) Automatic die bonding workshop	(5) Automatic Double-orbit Encapsulation workshop	(6) Press-mounting workshop
		
(7) Automatic color separation workshop	(8) White light workshop	(9) Pin die cutting workshop
		Nil
(10) Packing workshop	(11) Testing room	Nil



Factory organization chart

万润科技股份有限公司
Q C 工程图

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文件编号: MS-SIP-0030 版次: A/3

流程图	工程名	设备	管理项目	测定确认办法	管理水准			规格标准	SPC管理要领	管制图表	记录	担当者	异常报告处					
					频度	检验数	记录数											
1	原料检验	显微镜 游标卡尺 试产设备	外观	目视, 显微镜	每一批	依抽样标准 和检验 规范	不良数 SPCS 不良数 不良数	进料检验规范 MS-SIP-0007 MS-SIP-0008 MS-SIP-0015 MS-SIP-0016 样板及规格图	1. 外观 2. 尺寸规格 3. 来料合格率	— — — —	IQC IQC IQC IQC	IQC IQC IQC IQC	IQC IQC IQC IQC	品质经理 品质经理 品质经理 品质经理				
			尺寸	卡尺, 数字投影机														
			规格	目视, 卡尺														
2	扩晶	扩晶机 离子风扇 刀片	材料确认	核对生产指令单	每一次	全检	—	扩晶片作业指导书 MS-SIP-0001	1. 晶片方向间距 2. 静电防护 3. 晶片膜保护	— — —	— — —	— — —	— — —	作业者 作业者 作业者	IQC IQC IQC	IQC IQC IQC	品质经理 品质经理 品质经理	
			扩晶过程	依作业指导书														
			外观检测	目视, 显微镜														
3	自动固晶	显微镜 固晶机 固晶笔	位置	显示器, 手动调整	每一批	全检	—	自动固晶 作业指导书 MS-SIP-0031	1. 晶片方向 2. 晶片位置 3. 胶量多少 4. 晶片平衡	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —
			型号	目视														
			胶量	手动调节														
4	制程全检烘烤	显微镜 烤箱	位置, 数量	显微镜	每一天	全检	不良数	固晶检验规范 MS-SIP-0001	1. 晶片方向 2. 晶片位置 3. 胶量多少 4. 晶片平衡	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —
			温度, 时间	调整烤箱														
			温度	目视, 显示器														
5	自动焊线	显微镜 自动焊线 焊机	压力	目视, 显示器 焊机操作	每一批	全检	—	自动焊线 作业指导书 MS-SIP-0032	1. 焊线时间, 压力, 时间 2. 焊点大小 3. 焊线位置 4. 焊线弧度	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —
			时间	目视, 显示器														
			温度	目视, 显示器														
6	制程全检拉力测试	显微镜 拉力测试 仪	型号	目视	每一支	—	—	焊线检验规范 MS-SIP-0002	1. 焊线时间, 压力, 时间 2. 焊点大小 3. 焊线位置 4. 焊线弧度	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —
			编焊	目视 拉力测试														
			焊线拉力	目视 拉力测试														
7	配胶 抽真空	电子秤 真空机 搅拌机	预热	时钟, 调节	每一批	每一次	—	配胶作业指导书 MS-SIP-0007 抽真空作业指导书 MS-SIP-0008	1. 抽真空 2. 配胶比例 3. 配胶均匀 4. 胶体摆放条件	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —
			配胶比例	电子秤														
			搅拌, 抽真空	真空机														

Product production process chart (Page 1)

万润科技股份有限公司
Q C 工程图

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文件编号: MS-SIP-0030 版次: A/3

流程图	工程名	设备	管理项目	测定确认办法	管理水准			规格标准	SPC管理要领	管制图表	记录	担当者	异常报告处
					频度	检验数	记录数						
8	自动封胶	全自动封 胶机	液晶面板	目视	每一支	—	—	全自动封胶作业 指导书 MS-SIP-0033	1. 液晶型号检查, 环境条件 2. 胶体保温温度 3. 胶料, 注射机清洁 4. 注射量和时间 5. 烤箱温度时间调整	— — —	— — —	— — —	— — —
			调整注胶量	目视									
			点胶气压	全自动封胶机调整									
9	制程全检	—	外观	目视, 抽检	每一批	依抽样标 准	不良数	制程检验规范 MS-SIP-0004	制程合格率	不良率 管制图	— — —	— — —	— — —
			性能	目视									
			支架方向	调整切割机 手动操作									
10	切割	切割机	安全	目视	每一批	每一支	—	切割作业指导书 MS-SIP-0013	1. 确认切割方向 2. 切割机运转调节 检查 3. 切割效果检查	— — —	— — —	— — —	— — —
			防静电	目视									
			电压	调整测试机									
11	测试	测试机 静电	电压	调整测试机	每一批	每一支	不良数	测试作业指导书 MS-SIP-0014	1. 不良品区判定位置 2. 测试参数设定, 测试检验 3. 外观检测	— — —	— — —	— — —	— — —
			外观	目视									
			防静电	目视									
12	后切	二切机	型号	调整二切机 手动调整	每一批	每一包	—	后切作业指导书 MS-SIP-0015	1. 切割机气压调节 2. 刀片回距离检查 3. 切割支架摆放 4. 避免废料, 少数	— — —	— — —	— — —	— — —
			数量	目视									
			防静电	目视									
13	分光	自动分光 机	分光效果	光电测试仪	每一批	每一包	—	分光作业指导书 MS-SIP-0027	电压, 颜色一致, 少数	— — —	— — —	— — —	— — —
			电压	目视									
			防静电	目视									
14	成品检验	测试机	电压	调整测试机	每一批	依抽样标 准	不良数	制程检验规范 MS-SIP-0009	外观, 电压不良率	不良率 管制图	— — —	— — —	— — —
			外观	目视									
			防静电	目视									
15	包装	电子秤	数量	电子秤	每一批	每一包	实际数量	包装作业指导书 MS-SIP-0016	1. 核对物料, 生产流 程单及指令单 2. 称量点检过程 3. 物料, 数量检查 4. 标签填写	— — —	— — —	— — —	— — —
			防静电	目视									
			数量	目视									

批准: _____ 审核: _____ 制定: _____

Product production process chart (Page 2)



Certificate ISO9001: 2000



Certificate ISO14001: 2004