

SEJONGTECH PRODUCTS INTRODUCTION

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SYSTEM CERTIFIED
ISO/TS16949 Certified



SEJONG TECH CO.,LTD.



SEJONG TECH.CO.LTD

- 1. Company History / Organization Chart**
- 2. Patent/QMS Certificate and Planning**
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- 4. Research and Development Capability**
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- 6. Measuring & Examination Instrument List**

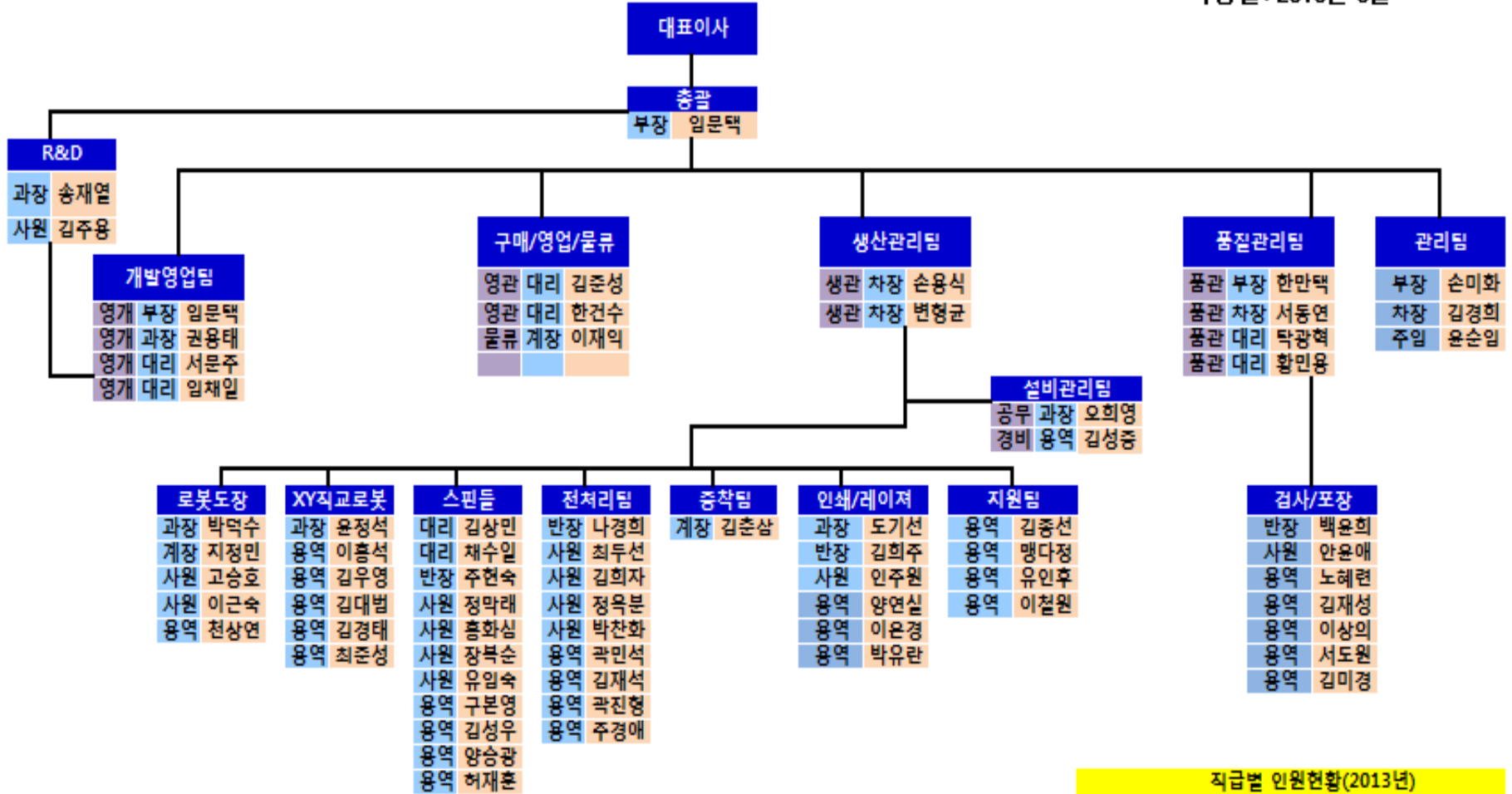


- **Feb. 1987** Established Sejong industry for Spring production addressed in Bucheon city
- **May. 1992** Set up overseas plant at Cavite Export Zone, Philippines to produce Springs for customers in Electronic fields as named by “Sejong Philippines(KJ Technology Inc.)”
- **Dec. 1998** Expanded the business into “UV coating, Metallizing & Plastic injection molding”
- **Jun. 2003** Acquired QS9000:2000 Quality System by BVQI International acquisition
- Mar. 2005** Increased production line at new plant which is located in Juan Industrial complex
- Nov. 2005** Awarded \$3 million dollars Export Prize by Korean Government
- Apr. 2006** Acquired SQ Mark for Hyundai and Kia (Wiring part & Painting part)
- Dec. 2007** Established Research and Development Institute
- Jan. 2008** Settled 3rd Branch Office in Dohwa-dong
- Jan. 2011** Achieved sales performance of US \$ 35 million
- May. 2012** Acquired SQ Mark for Hyundai and Kia (Plastic Injection & Metalizing)
- Mar. 2013** Obtained ISO/TS16949 and ISO14001 by OQS

Organization Chart (1st Plant)

세종테크 본사 조직도

작성일: 2013년 6월



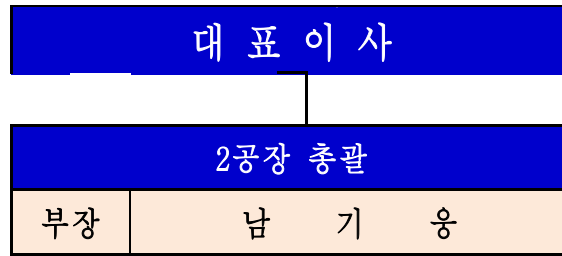
	직급별 인원현황(2013년)								
	임원	부장	차장	과장	대리	계장	사원	용역	총원
관리	1	3	4	3	6	1	2	1	21
생산				3	2	2	16	26	49
합계	1	3	4	6	8	3	18	27	70



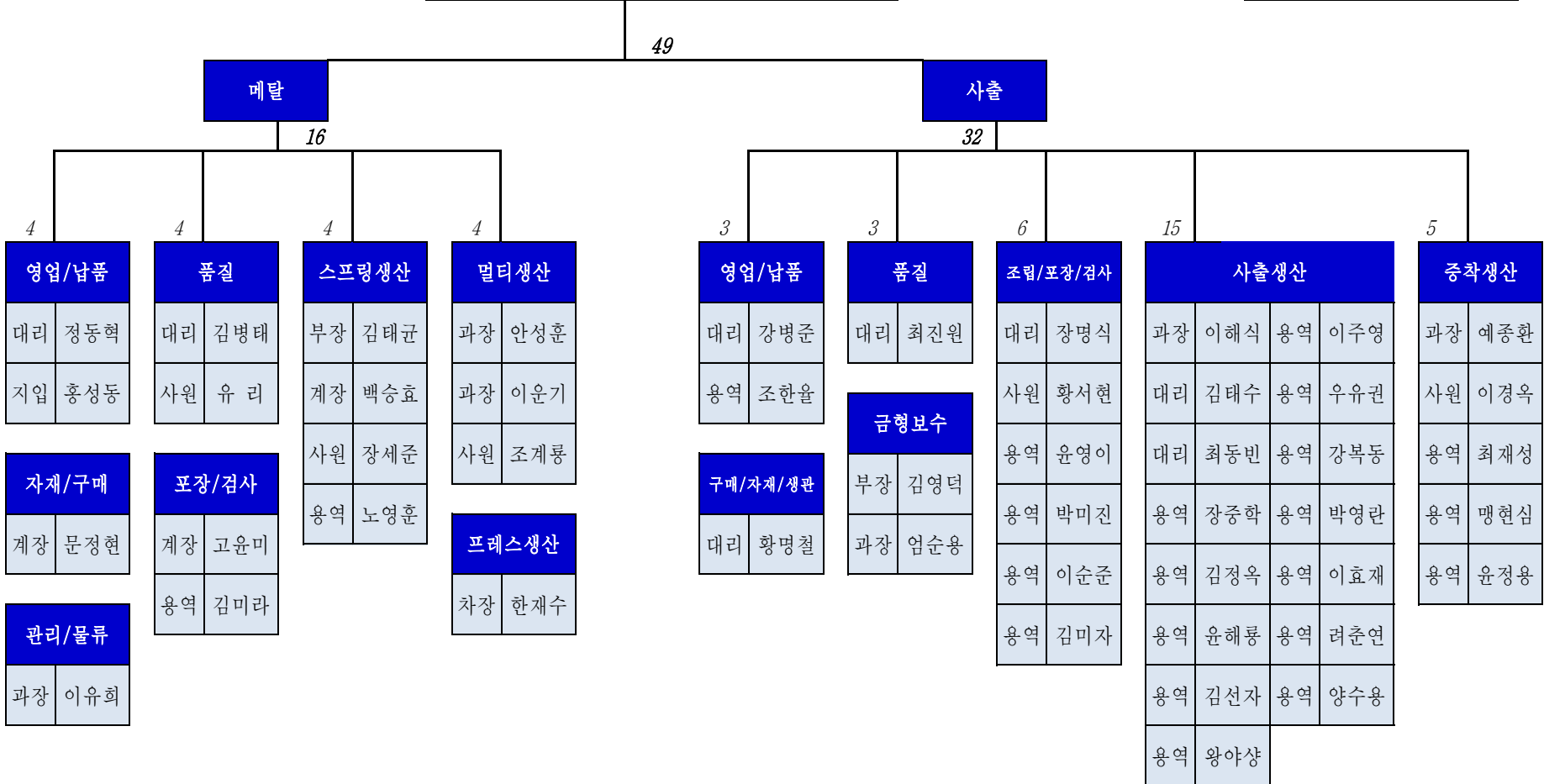
Organization Chart (2nd Plant)

2공장 조직도

2013년 6월 기준



구분	메탈	사출	지원	계
정직원	13	13		26
용역	3	20		23
소계	16	33		49



Patent/QMS Certificate and Planning

Intellectual property rights obtaining status

Cat.	Register No.	Intellectual property rights	Possessed	Comments
Patent	10-0998731	Metalic VM method of high polymer material surface	SejongTech	Reg.
Patent	10-2008-0057215	Synthetic resin panel with hair line	SejongTech	Reg
Patent	10-2008-0064490	Metallic VM method of Anti-electric penetration	SejongTech	Pending
Patent	10-1006164 10-1006162	Plastic part for the automotive	SejongTech	Reg. Reg.
Patent	10-2008-0117591	Transparent pattern forming method light	SeionqTech	Pending

Quality Management System and Planning

Certification	Certified Date	Certified Authorities	Certified Field/Periods
HMC/KMC SQ Mark	22 Mar. 2006	HMC/KMC	Painting/ Wire Harness
HMC/KMC SQ Mark	13 Jun. 2012	HMC/KMC	Plastic injection / VM
ISO/TS 16949	19 Mar. 2013	OQS	18 Mar. 2016
ISO 14001	25 Mar. 2013	OQS	24 Mar. 2016



Main Product : 1. Automotive Parts



1. EXTERIOR ITEMS



2. GOODS for DOOR MODULE



3. PRODUCTS
for
CRUSH PAD



4. CONSOLE &
CONTROL
MODULE
PARTS



5. SAFETY ITEMS



6. SPRING & METAL PARTS



7. WIRE-HARNESS

Main Product : 1. Automotive Parts

1. EXTERIOR ITEMS



↑ WHEEL CAP LOGO



↑ SIDE MIRROR LIGHTING

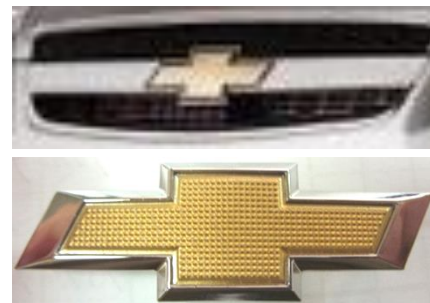
MIRROR LIGHTING VM →



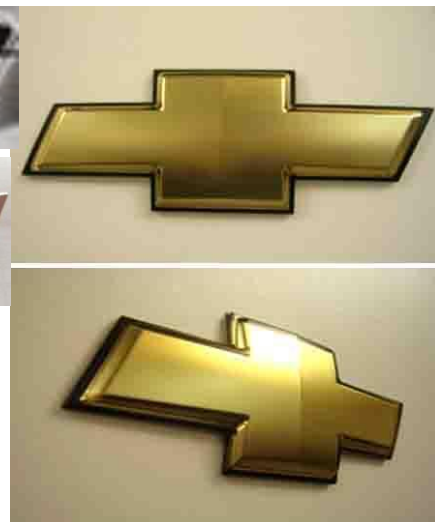
↑ EMBLEM FOR RADIATOR GRILLE



← VI-IP GARNISH
(High hardness high glossy painting)



↑ GM DAEWOO EMBLEM
1.Back : Non-Primer, Al Metallizing
2.Plating + Painting



Main Product : 1. Automotive Parts

2. GOODS for DOOR MODULE



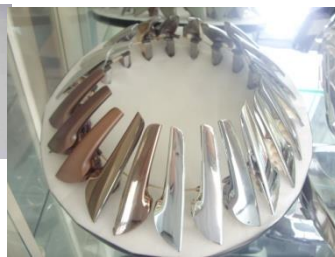
JAGUAR KNOB (Laser design) AI VM



DOOR TRIM DECORATION / Real Aluminum Imitation



Inside Handle (Ti /Alloy VM)



DOOR TRIM DECORATION
(HALF-MIRROR 증착)



POWER WINDOW
S/W ASSY



POWER WINDOW
PANEL(High Glossy)

HG FOB Remote Control
(High Glossy)



Main Product : 1. Automotive Parts

3. High Glossy Product



Main Product : 1. Automotive Parts

4. PRODUCTS for CRUSH PAD



↑ AIRBAG COVER EMBLEM



→ AIR-VENT



← RMC AUDIO & ACC COVER



↑ Ssangyong W-190 (Ti VM)



↑ HYUN DAI EMBLEM (AI VM)



↑ CM Panel - Cr VM



↑ HYUN DAI EN - AI VM



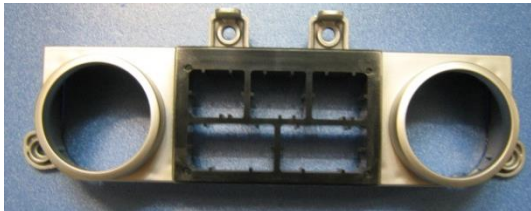
↑ CENTER FACIA

Main Product : 1. Automotive Parts

5. CONSOLE & CONTROL MODULE PARTS



↑ GM V-275 : AI VM
Laser/Lighting Transparent



← REAR TEMP.
CONTROL
PANEL & KNOB



↑ ASHTRAY & CUP HOLDER

AIR-VENT DECO(Galvano Color) →



HMC, KMC, GM →
Developed Various
Concepts



Main Product : 1. Automotive Parts

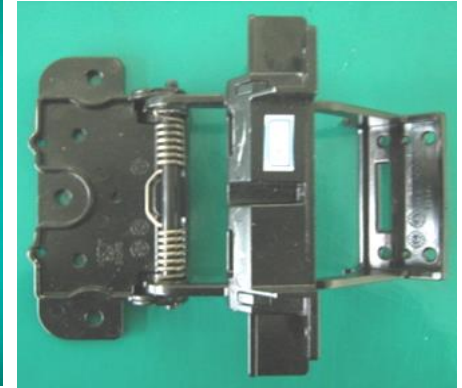
6. SAFETY ITEMS



↑ GUIDE ANCHOR



← RETAINER



7. SPRING & METAL PARTS



↑ TORSION SPRING



↑ COMPRESSION SPRING



↑ TENSILE SPRING



↑ ACTUATOR ROD Etc.



↑ CLIP & NUT SPRING



↑ BRACKET, CLAMP & WASHER



Main Product : 2. Electronics



←
SSG-3700 3D
glasses
(Nylon None
burn-in
Metalizing)

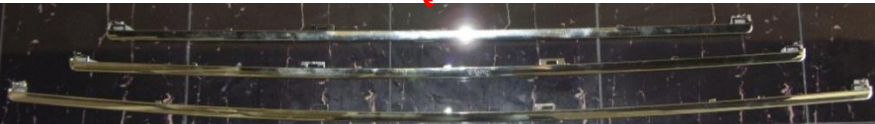


←
Wireless charger
for 3D glasses
(None burn-in
Metalizing)



↑ LCD TV Decoration (Cr VM)

Main Product : 2. Electronics



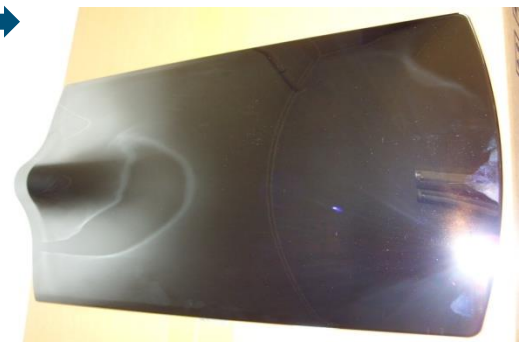
↑ LED 3D TV DECORATION
(Large Size Touch Switch Function Metalizing)

↑ SAMSUNG FRIDGE HANDLE (Shows Pink Gold color with Cu alloy metallizing)



↑ 삼성 3D TV BACK COVER DECORATION (Ti color VM) 400X500

← SAMSUNG TV REMOTE DECORATION (Various metallizing)



Main Product : 2. Electronics



↑ SAMSUNG Non-Primer none burn-in metallizing (Base -Hair line texture) with laser or print



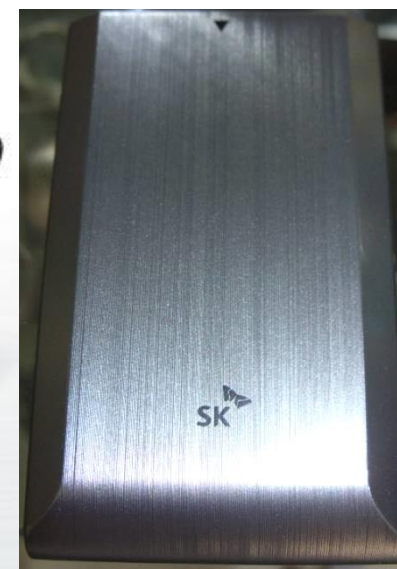
SAMSUNG color None burn-in Metallizing ↑



↑ SAMSUNG Non-Primer none burn-in metallizing (Base -Hair line) texture



↑ SK TELESYS Non-Primer none burn-in metallizing (Hair line texture)



Main Product : 3. Other – Half mirror & Glass



↑ HMC IP-GARNISH Half Mirror VM (Transparent Rate 7%, AL VM)



↑ Various Color VM for Glass Bottle (Amore Perfume Bottle)

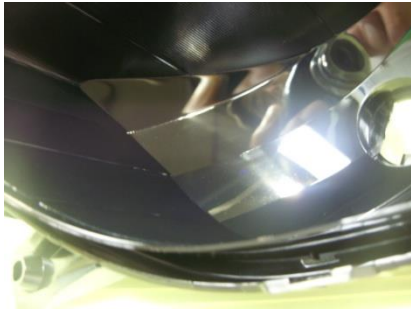


↑ Perfume bottle
Metallizing with
Laser or Print
(Amore Pacific)



← Various Color
realization for
perfume bottle
by Ion beam
VM & Multi VM
(Amore Pacific)

Main Product : 3. Other – Plastic Injection/Color VM



↑ None painting high glossy plastic injection



↑ None painting reflector IPE metallizing

Galvano color VM →
Transparent Half
mirror metallizing



Main Customer

• Plastic spray & UV coating

No	Company Name	Urethane	Detailed Item
1	Samsung Electronic	Home appliances	LCD/PDP TV,monitor FRONT BACK COVER,KNOB painting &evaporation,UV ,Semi Ass'y
2	HALLA climate control	Automotive parts	Heater-Control Knob evaporation & painting parts
3	Korea ALPS	Automotive & Electronic parts	Camera&camcorder painting part, Automotive part evaporation
4	Daesung electricity	Automotive parts	Electric&audio SWITCH, KNOB,Button painting parts
5	DAESHIN machine	Automotive parts	LED Indicator cover painting & Pad/Laser Printing/Semi Ass'y
6	SL Corp.	Automotive parts	Lamp system, Mirror system Chassis system,
7	Lotte E & M	Boiler parts	Boiler parts, Auto parking system

• Spring & Metal & Harness

No	Company Name	Urethane	Detailed Item
1	NIFCEO Korea	Electronic parts	Fuel Components, Engin Parts, Seat Belt Parts
2	Hyundai Mobis	Automotive parts	Front Panel Inner Clip
3	FICOSA (Mexico)	Automotive & Electronic parts	Bulb ASS'Y etc.
4	D.B.I	Automotive parts	Safe Seat/Belt Spring (in-vehicle) & Harness ASS'Y part etc.
5	Daeshin Machinery	Automotive parts	Parking Brake,Gear Box inner Spring & Clip, Bulb ASS'Y Part etc..
6	Daeyee Tech	Automotive parts	Front Panel inner Clip & Spring part
7	TAKATA	Automotive parts	Safe Seat/Belt Spring (in-vehicle) & Harness ASS'Y part etc.

2 Factory Main Customer

No.	Main Cusomer	Main Products	Detailed Item
1	SL Lightech	Automotive Parts	Head Lamp Injection & Metalizing
2	SL Lightech	Automotive Parts	Head Lamp Injection & Metalizing



Application case of Technology research and development

- Non – Primer VM Development (SK Telesys applied)
- Non – Top VM Development
- Non – Spray VM Development (applied in automotive light reflection plate)
- Laser method Development (two tone color design – applied in Jaguar, Tosca)
- Anti-electric penetration laser method development for Decoration Touch Switch (applied in SAMSUNG 3D LED TV)
- High glossy piano black & Soft black (applied in Hyundai YF panel)
- High glossy plastic Injection Development (simplified piano black)
- Various VM method development of HALF-MIRROR , Gradation
- Painting, VM and Laser for glass material (applied in Amore Pacific)
- High hardness, high glossy UV paing development
- Flexible material VM development for TPE or TPU (applied in Hyundai Emblem
- Metallic VM development of Titan, Chrome, Nichel and Copper can make color variation

Manufacturing Equipment List

ROBOT SPRAY&METALIZING&PRINTING M/C

NO	설비명	보유수	제조사
1	SIX-ARTICULATION ROBOT	3	JAPAN
2	IONIZOR CONVEYOR	2	KOREA
3	IR OVEN CONVEYOR	1	KOREA
4	UV OVEN CONVEYOR	1	KOREA
5	BOX OVEN ROOM	1	KOREA
6	MULTI METALIZING M/C(1200)	1	KOREA
7	METALIZING M/C(2200×1600)	4	KOREA
8	METALIZING M/C(1600×1600)	2	KOREA
9	공조 SYSTEM	1	KOREA
10	DRYING M/C	1	KOREA
11	UV LINE	1	KOREA
12	열건 LINE	1	KOREA
13	YAG LASER MARKING M/C	1	KOREA
14	PAD PRINTING M/C	2	KOREA

SPRING & PRESS & HARNESS & INJECTION

NO	설비명	보유수	제조사
1	CNC40 COILING M/C	1	KOREA
2	CNC20 COILING M/C	5	KOREA
3	CNC10	1	TAIPEI
4	CM26,CM16,CM8	4	TAIPEI
5	AC - 2	2	KOREA
6	MTS-23(10)	1	KOREA
7	CLS 10	1	JAPEN
8	CM 4(8,14)	5	KOREA
9	TM 4(14,20)	3	KOREA
10	MULTI FORMING M/C	3	KOREA
11	C.S PRESS 150t,80t	2	KOREA
12	C.S AUTOPRESS 60t,35t	3	KOREA
13	POWER PRESS(3~5t)	4	KOREA
14	CRIPING MACHINE	2	KOREA
15	AUTO CUTTING M/C	2	KOREA
16	INJECTION 120t,100t	6	KOREA



2 Factory Manufacturing Equipment List

	설비 PART별 등록 관리 목록표						
	설비구분			사출성형 PART			

NO	설비명	설비등록 관리번호	설비양식	설비규격	제작국명	제작업체	MODEL
1	다대사출성형기	SJ-설비-01-01	성형기	120 톤	KOREA	대경유압	DKY-120ER
2	사출 성형기	SJ-설비-01-02	성형기	480톤	KOREA	우진셀렉스	SELEX NE480
3	사출 성형기	SJ-설비-01-03	성형기	380 톤	KOREA	우진셀렉스	SELEX NE380
4	사출 성형기	SJ-설비-01-04	성형기	280 톤	KOREA	우진셀렉스	SELEX NE280
5	사출 성형기	SJ-설비-01-05	성형기	250 톤	KOREA	LS 엠트론	LGH250D-GC
6	사출 성형기	SJ-설비-01-06	성형기	250 톤	KOREA	LS 엠트론	LGH250D-GC
7	사출 성형기	SJ-설비-01-07	성형기	170 톤	KOREA	LS 엠트론	LGH170D
8	사출 성형기	SJ-설비-01-08	성형기	130 톤	KOREA	LS 엠트론	LGH130D
9	사출 성형기	SJ-설비-01-09	성형기	100 톤	KOREA	LS 엠트론	LGH100D
10	사출 성형기	SJ-설비-01-10	성형기	80 톤	KOREA	LS 엠트론	LGH80D

	설비 PART별 등록 관리 목록표					
	설비구분		증착 PART			
NO	설비명	설비등록 관리번호	설비양식	설비규격	제작국명	제작업체
1	증착 1호기	SJ-설비-02-41	AL전광증착	GE1001206	한국	조은전공
2	증착 2호기	SJ-설비-02-42	AL전광증착	GE1001206	한국	조은전공
3	증착 3호기	SJ-설비-02-43	AL전광증착	GE1008608	한국	조은전공
4	제습기	SJ-설비-02-006	1호기		한국	LG
5	제습기	SJ-설비-02-007	1호기		한국	LG
6	제습기	SJ-설비-02-008	2호기		한국	LG
7	제습기	SJ-설비-02-009	2호기		한국	LG
8	제습기	SJ-설비-02-010	3호기		한국	LG
9	제습기	SJ-설비-02-011	3호기		한국	LG



2 Factory Manufacturing Equipment List

NO	Machine	Quantity	Maker
1	Injection 480ton	1	우진세렉스
2	Injection 380ton	1	우진세렉스
3	Injection 280ton	1	우진세렉스
4	Injection 250ton	2	LS엠트론
5	Injection 170ton	1	LS엠트론
6	Injection 130ton	1	LS엠트론
7	Injection 100ton	1	LS엠트론
8	Injection 80ton	1	LS엠트론
9	Vertical Injection 120ton	1	대경유압
10	Metalizing M/C 1800	2	조은진공
11	Metalizing M/C 1400	1	조은진공





Vertical Injection



480ton



380ton



280ton





250ton



250ton



MOLD TEMP CONTROLLER



HOPPER LOADER



UNIT 1



UNIT 2



UNIT 3



DEHUMIDIFIER

Measuring & Examination Instrument List

Measuring Instrument

NO	계측기명	규격	보유수	제조사
1	Video Meter(공구현미경)	300×200×150mm	1	National
2	Projector (투영기)	50mm×50mm	1	Mitutoyo
3	Spring Tester	0.2g~10kg	2	AIKOH
4	Torsion Spring Tester	500gf / 1gf	1	신영ENG
5	Rockwell Hardness	60~150kgf	1	삼일정밀
6	Digimatic Micrometer	0~25mm	2	Mitutoyo
7	Digimatic Height Gauge	300mm	2	“
8	Digimatic Calipers	1500mm	3	“
9	Digimatic Calipers	150,200mm	10	“
10	Push/Pull Gauge	200g~20kg	1	IMADA
11	PIN Gauge	3~3.5mm	1	아이젠
12	Surface Plate	750×500mm	2	미크론정밀
13	Balance	40g~50kg	3	CAS
14	Balance	200g~25kg	1	“
15	Balance	0.4~120g,0.8~60g	2	“
16	Torque Wrench	1~3 N.mm	1	Tohnichi

Examination Instrument

NO	계측기명	규격	보유수	제조사
1	항온항습기	-40~120℃/30~98%	1	ALL THREE
2	염수분무시험기	45℃,999Hr	1	대하교역
3	Spectro Colorimeter	파장:360~740nm	1	Minolta
4	TRI Gross Master	20°,60°,85°	1	SHEEN
5	Coating thickness Gauge	0~300μm	2	SANKO
6	온도프로파일	-50℃~1200℃	1	TQC
7	Illumination Meter	20,000Lux	1	TES
8	정전기 테스터기	0~20kv	3	SIMCO
9	풍량풍속계	0.4~35m/sec	1	AZ
10	RCA 시험기	0~300g,0~1200rpm	1	대하교역
11	자외선 시험기	15w,UV-B Type	1	코아테크
12	내열탕 시험기	0~100℃	1	CAS
13	연필경도기	1000g	2	CK상사
14	Stereo scope	45x~160x	1	삼안현미경
15	내마모 Tester(부품용/시편용)	120~200mm	2	CK상사
16	Spring Lifecycle Tester	10kg	1	세종테크



2 Factory Measuring & Examination Instrument List

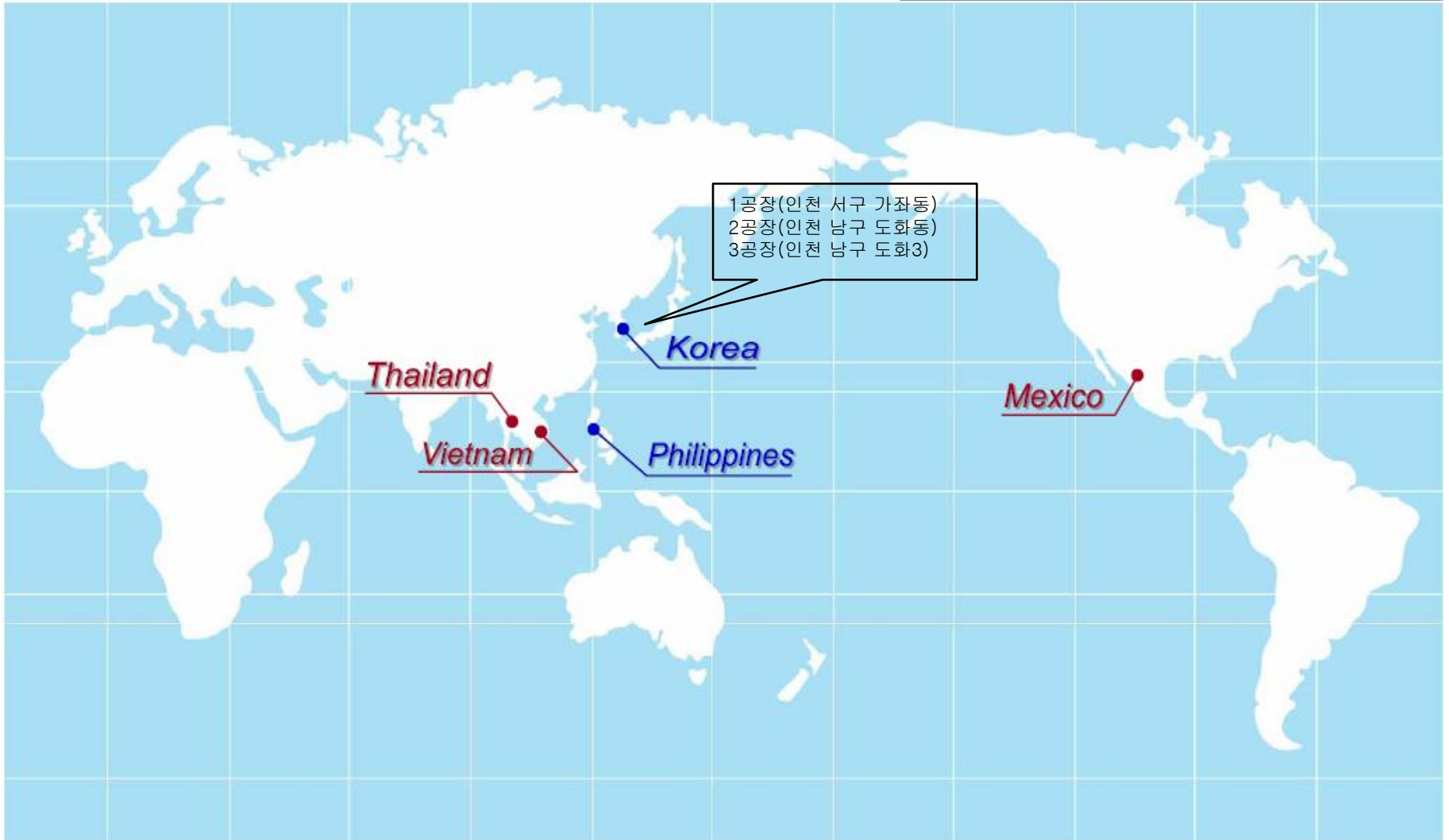


Measuring & Examination Instrument List

순번	등록관리번호	계측기명	규격	기기번호	MAKER	등록/해제일자
						구입/등록
1	SJTM-OO1	디지털 캘리퍼스	0 ~ 150mm	08159766	Mitutoyo	2010.01.12
2	SJTM-OO2	디지털 캘리퍼스	0 ~ 200mm	06389076	Mitutoyo	2010.01.12
3	SJTM-OO3	고정밀 전자저울	6Kg/0.1g	GG232	CAS	2010.01.12
4	SJTM-OO4	수분측정기	51/0.001g	P1006355	AND	2010.01.12
5	SJTM-OO5	조도계	100000 LUX	447410	INTELL INSTRUMENTS	2010.01.12
6	SJTM-OO6	전하량측정기	0 ~ 20KV	RX09245	SIMCO	2010.01.12
7	SJTM-OO7	금형온도측정기	°C/°F	K000797	LINE SEIKI	2010.01.12
8	SJTM-OO8	바이메탈온도계	°C	-	협성계기	2011.05.12
9	SJTM-OO9	바이메탈온도계	°C	-	협성계기	2011.05.12



● Planning site ● Present site




qualityaustria
 Succeed with Quality

CERTIFICATE

Quality Austria Training, Certification and Evaluation GmbH awards this Quality Austria Certificate to the following organisation(s):

Sejong Tech Co., Ltd.
 (주)세종테크
 04, 603beon-Gil, Baekbeom-Ro, Seo-Gu, Incheon-City, Korea
 인천광역시 서구 백범로 603번길 64

QUALITY MANAGEMENT SYSTEM
 complying with the requirements of standard **ISO/TS 16949:2009**, without product design

Registration No.: 038370
 IATF-Registration No.: 0159010
 Date of initial issue: 19 March 2013
 Valid until: 18 March 2016

Vienna, 19 March 2013
 Quality Austria Training, Certification and Evaluation GmbH,
 A-1010 Vienna, Zelinkagasse 103

Signatures removed for security reasons
 Konrad Scheiber General Manager Gerald Penschler Specialist representative

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 Quality Austria is the Austrian member of the International Certification Network.
 Tel: No. 03 20 20 200
 https://www.qualityaustria.com/en/sect


qualityaustria
 Succeed with Quality

CERTIFICATE

Quality Austria Training, Certification and Evaluation GmbH awards this Quality Austria Certificate to the following organisation(s):

Sejong Tech Co., Ltd.
 (주)세종테크
 04, 603beon-Gil, Baekbeom-Ro, Seo-Gu, Incheon-City, Korea
 인천광역시 서구 백범로 603번길 64

ENVIRONMENTAL MANAGEMENT SYSTEM
 complying with the requirements of standard **ISO 14001:2004**


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CERTIFICATE OF SUPPLIER QUALITY


SQ 인증서

회사명: (주)세종테크
 대표자명: 김상길
 사업자번호: 1378518342
 업체코드: #1079
 회사주소: 인천 남구 도화동 744-6

인증번호: PA137
 인증등급: C
 인증업종: 도장

협력사 품질평가 규정에 의거
 상기와 같이 SQ(협력사 품질보증)
 요구사항에 적합함을 인증합니다.


2006년 03월 22일



■ 주관: 대성전기공업(주)
 ■ 후원: 현대·기아자동차



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SQ 인증서

회사명: (주)세종인더스트리
대표자명: 김옥권
사업자번호: 1228151360
업세코드: #48KM
회사주소: 인천 남구 도화동 697-1


인증번호: PL827
인증등급: B
인증업종: 사출

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2012년 06월 13일

■ 주관: (주)에스엘라이텍
■ 후원: 현대·기아자동차

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사업자번호: 1228151360
업세코드: #48KM
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인증번호: SPV208
인증등급: B
인증업종: 주조

협력사 품질평가 규정에 의거
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2012년 06월 13일

■ 주관: (주)에스엘라이텍
■ 후원: 현대·기아자동차

Company Location



공장위성지도



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도хва 3공장



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