

TOTAL MECHATRONICS

SOLUTION SERVICE

for Injection Mold
Manufacturing



3-Dimension design system



1-Step production system



Automatic System



KI-SUNG ENGINEERING CO., LTD.

KI-SUNG ENGINEERING

Total Mechatronics Solution Service



Greeting from KI-SUNG ENGINEERING

KI-SUNG Engineering is a professional mold manufacturer specialized in plastic case for mobile phone and Metal Injection Molding process, founded in June 1996.

Equipped with design engineers conducted Quick Delivery Mold development for leading entrepreneurs and 3-Dimension design system, KI-SUNG Engineering is providing **Total Mechatronics Solution Service** for Clients' QDM, injection Mold, and MIM mold for the best support to the clients, fearlessly challenging for the state of art technology.

Especially, possessing product design team and assembly line in the same shop, Kisung can achieve the best competitiveness with **1-Step production system** of product design → QDM production → QDM manufacturing at once.

With vast experience with mold design/manufacturing and injection, KI-SUNG delivers **High Quality, Low Cost and Quick Delivery** utilizing cutting-edge facilities and vast know-how.

Thank you very much.

PARK, Tae Dong,
Chief Executive Officer

Company Profile

Company Name	KI-SUNG Engineering Co. Ltd.		
Date of Foundation	2010. 07. 16		
Location	Gong-dan dong, Gumi, Gyeongsangbukdo		
Facility	Injection machine 12 units, High speed Machining center 26 units, Milling machine 7units, Polisher 3 units		
Capital	2.5 Billion KRW	Factory Area	5,104㎡ (1,544坪)
Main Client	Samsung Electronics, LS Automotive, Kyeong Chang (Clutch, Pedal etc.)		
Main Products	Design, Manufacturing of Injection Mold and its test products (Injection products)		



High Quality,



Low Cost



Quick Delivery

KI-SUNG ENGINEERING

Customer Satisfaction

Immediate and accurate response to customer needs such as lead time and cost reduction.

KI-SUNG ENGINEERING CO., Ltd. achieves maximum client satisfaction with ceaseless challenges to the up-to-date technologies and fearless passion for the innovation.

Company History

1996 ~ 2010

- 1996.06 Established Design/development office
- 1996.06 Designed cell phone injection mold
- 2000. Established injection mold fabrication / manufacturing factory
- 2000. Registered sub-vendor list of samsung electronics for QDM injection mold
- 2005.12 Facility relocation to : 238 Gongdan-dong gumi (826.5m²)
- 2007.09 ISO9001 qualified ISO14001 qualified
- 2010.07 Incorporated to kisung engineering Co., Ltd.

2011 ~ Present

- 2011.03 Business expansion to automobile parts (with client - LS automotive)
- 2012. 01 Registered military service exemption corporate
- 2012.08 Facility relocation to : 292-46 Gongdan-dong gumi (6776m²)
- 2015.03 Patent acquired for Precision manufacturing of micro-pitch interface block
- 2016.08 SMART FACTORY qualified

PROCESS DRAWING

Total Mechatronics Solution Service



01

Design Team

Mold CAD, CAE Analysis,
Electrode design



02

Primary Machining

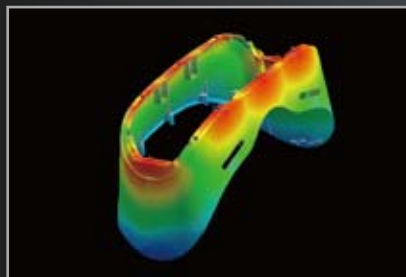
Material Inspection,
Primary Machining



03

Wire

Ejector Pin, Insert Core,
Link Core Wire Cutting



KI-SUNG ENGINEERING Co., Ltd provides One-Step solution for injection molding through the vast experience in the industry, state of art design technology & precision machining skill, and spirit of challenging to the limitation.

10

Final Inspection

Final Inspection, Shipping etc.



09

Quality Control

Product Inspection



08

Injection

Test Injection



KI-SUNG ENGINEERING Co., Ltd. has been increasing production capacity with the state-of-the-art technologies in coping with customers needs.



Quality



Cost



Deliver



04

NC(numerical control)

Core, Electrode CAM, machining

05

Electro-Spark Machining

Electro Spark machining for core



Responsible Customer Safety

Assured Inspection Quality

07

Assembly

Lapping, Mold Assembly etc.



06

Measuring Room

Measurement for core/electrode



MAIN PRODUCTS

Design, Manufacturing of Injection Mold and its test products (Injection products)
Delivers best quality with High-tech design capability, precision machining and strict quality control.

Network Device



Modem / Set top Box / Bluetooth Speaker /
Remote Control



Automotive Parts



Automobile Application Components
e.g. Front Bezel, Blanking Button,
Double-injection Engraving etc



Mobile Parts



Mobile phone components
e.g. Rear Cover / Key / SIM tray /
Intenna (Antenna) etc



MACHINING FACILITY

15 Injection Molding Machine(inc. Double Injection)operates simultaneously

Revolutionary Short Delivery

QDM 70 sets per month capable

Mass production mold 50 sets per month capable



Introduced and applied
Auto Probe



Ultra-precision
machining enabled



Introduced and applied
controllor RMS 6



EROWA SYSTEM
Established



CORE Machining 7 units
Electrode Machining 5 Units
CNC Electric spark machine 6
Units WIRE machine 4 units
can operate simultaneously
for **best quality and
delivery period.**

Facility	Specification	Maker	Installation	Remarks
High Speed Machining Centre	42000 rpm (HSM 400)	Mikron	3	Established EROWA system, max. unobserved machining possible for max. 160 electrodes
	42000 rpm (HSM 500)		6	
	42000 rpm (HSM 700)		3	
	21000 rpm	Hyundai	2	
	20000 rpm	WIA	1	
	12000 rpm	Hyundai	2	
	8000 rpm	Hyundai	1	Unit #7
	30000 rpm	Makino	1	
Tapping	8000 rpm	Hyundai	2	
Milling	Unit 2	NAMSUN	3	
Electro-Spark Machining	EDGE3	Makino	3	Unobserved Machining of 16 Electrodes (Auto Change)
	EDNC65		2	Unobserved Machining of 32 Electrodes (Auto Change)
	AG80L	SODICK	1	Unobserved Machining of 32 Electrodes (Auto Change)
	RoboForm 35	Charmilles	1	Unobserved Machining of 64 Electrodes (Auto Change)
Planning Machine	800 X 400	Okamoto	1	
	600 x 300	Okamoto	3	
	600 x 300	DAESAN	1	
Abrasive Blasting	520 x 270	JINYOUNG	5	Surface Machining
Wire EDM	600 x 400 (W53FB)	Makino	6	0.1 φ Machining (Min 0.007φ Possible)
	550 x 370 (DUO43)		1	

Category	Facility	Size	Maker	Unit	Remarks
Measuring Instrument	Co-ordinate Measurement Machine	400 x 400	Dr. Heinrich Schneider	1	Probe / Optical
	Co-ordinate Measurement Machine	508 x 609	Sheffield	1	Probe
		760 x 1016		1	
	Toolmaker's microscope	200 x 170	Mitutoyo	2	Optical
	Height Gauge	310	Mitutoyo	1	
	2D measuring instrument	600	Mahr	2	
	Level Meter		SURFCOM 1800D	1	
	Granite Surface Plate	15000 x 1000		2	
900 x 600		1			
Injection Molding	Injection Molding Machine	130 Ton	DONG SHIN	5	Double Injection
		700 Ton	ENGEL	1	
		300 Ton		1	
		120 Ton		2	
		80 Ton		5	
		120 Ton	Woojin SELEX	1	Vertical Molding



New Technology

Active introduction of developed new technology



Quality

Customer satisfaction with the excellent quality



Cost reduction

Realization of Customer surprise with cost reduction and on-time delivery



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