



HANGUKMOLD

It's HANGUK MOLD's Technology Concept



Harmony, Unity,
and Creative minds are
our belief.



HanGuk Mold Co., Ltd.

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Ulsan 2nd. Plant

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 **HanGuk Mold Co., Ltd.**

CEO Message

We really thank you for the constant interest and encouragement.

With the business philosophy, "Ambition for the future innovation and emphasis on human being and promise" We, HANGUK MOLD Corporation, are doing our best to develop technology and satisfy customers.

Our main products are diverse, ranging from complicated and high precise parts to large ones for automobile interior and exterior use.

Furthermore, We have utilized CAD/CAM/CAE systems to attain high quality and well-timed delivery.

Always looking forward to our customer's constant support and interest, HANGUK MOLD staff will be your permanent assistant to the new millennium.

끊임없는 관심과 격려에 진심으로 감사 드립니다.

저희 (주)한국몰드는 "미래를 크게 보고 새로운 것을 추구하며 인간과 약속을 중요시 한다"라는 경영이념으로 기술 개발 및 고객만족에 최선의 노력을 다 하고 있습니다.

당사의 주력 제품으로는 자동차 내, 외장재 PART의 복잡한 초정밀 제품에서 대형품에 이르기 까지 다양하며, CAD/CAM/CAE 시스템을 활용함으로써 고품질 및 적기 납기를 실현하고 있습니다.

앞으로도 고객 여러분의 지속적인 성원과 관심 부탁드립니다. 저희 임직원도 새로운 천년의 희망으로 창조와 성실로써 귀사의 영원한 협조자가 되겠습니다.

Chairman **KO, IL JU**

History

The companies, along with our customers

언제나 고객과 함께하는 기업 (주)한국몰드 입니다

- | | | |
|---------|---|--------------------------------|
| 1987.03 | Established HanGuk Mold | 한국몰드 설립 |
| 1989.01 | Designated as a Tier 1 vender by Hyundai / KIA Motors | 현대/기아자동차 1차 협력업체 등록 |
| 1996.09 | Associated as a Leading mold making Co. of the Korean Mold Industry | 한국금형협동조합 가입 |
| 1999.12 | Designated as a Tier 1 vender by Hyundai Mobis | 현대모비스 1차 협력업체 등록 |
| 2002.03 | Operated ERP system | 업무전산화 E.R.P 구축 운영 |
| 2002.12 | We exhibited 'Film Insert Mold' at German Euro Mold Exhibition | 독일 유로몰드 출품 전시 - 필름인서트금형 |
| 2005.12 | ISO 9001 certified by SMICC / ERP operate | ISO9001 품질시스템 운영 전환 / E.R.P 운영 |
| 2005.12 | Operated 2nd. Plant (Kim Je) | SMC 자동차부품 생산공장(김제) OPEN |
| 2006.06 | Operated 3rd. Plant (Ulsan city innovation center) | (주)한국ACM 설립 - 협업체계 구축 |
| 2007.03 | Automated MES(Manufacturing Execution System) | 생산관리 e_MES 구축 운영 |
| 2008.03 | Product for Metallic insert film | 세계최초 외장필름인서트 제품 양산 |
| 2008.07 | Moved the factory to Maegok Industrial area | 매곡산업단지로 본사 이전 |
| 2011.04 | Selected 'Star Company' by the chamber of commercial & industry | 상공회의소 주관 STAR기업 선정 |
| 2012.03 | Certified Supplier best Quality by Hyundai/Kia Motors | 현대/기아자동차 Best Quality 공급업체 선정 |
| 2013.12 | Awarded 10 million dollars Export Tower from Korean government | 1000만불 수출 탑 수상 |
| 2014.12 | Awarded 20 million dollars Export Tower from Korean Government | 2000만불 수출 탑 수상 |
| 2016.02 | Open 2nd Plant for Automotive part production plant (Focusing to high efficiency part). | 울산 2공장 설립 - 협업체계 구축 |





Research & Development



The creative and innovative specialized manpower is realizing high efficiency in production by optimizing mold design and injection process through data research and CAE interpretation.

창의적이고 혁신적인 전문인력들이 자료연구와 CAE 해석 등을 통하여 금형 설계 및 사출 공정의 최적화를 이루어냄으로써 생산의 고효율화를 실현하고 있습니다.

CAD/CAM/CAE System

CAD / CAM / CAE	Solution	Quantity
CAD / CAM	Catia	9
CAD / CAM	Think	5
CAD / CAM	Unigraphics	4
CAM	Work NC / Hipermill	4 / 3
CAM	Hyper Hesh	2
CAE	Mold Flow / 3D Timon	1 / 1

Film Insert Mold & Producing

- ▶ Producing Finished Goods to insert film which is trimmed and making by using injection molding in the Vacuum.
 - ▶ Effect
 - Substitute for painting
 - Reduce the process (previous 16 steps -->5 steps)
 - Luxury surface to apply variety color Film
 - Cost down - Eco-friendly
- ** Vacuum mold /Trimming mold/ Injection mold

Tandem Mold

- ▶ Efficient Injection Molding System to reduce cycle time.
- ▶ Effect
 - Improving Productivity on the basis of same condition (Man/Machine/Time)
 - Cost Reduction

2 shot injection Mold

- ▶ Possible to produce Many colors Parts at one mold
 - ▶ Effect
 - Improving Productivity on the basis of same condition (Man/Machine/Time)
 - Cost Reduction - Substitute for painting
 - Cost down - Eco-friendly
- ** Injection Molding machine 2 NOZZLE Needed

LFT & Composite Injection Mold

- ▶ Injection Molding by using Glass fiber & carbon fiber materials
- ▶ Effect
 - Substitute for steel panel
 - Reduce the weight
 - Could be adopped varialbe Design

Heat & cooling Mold

- ▶ Effect
 - Weldless
 - High Quality(Especially, Surface Quality)
 - Eco-friendly

etc...

- ▶ Themo plastic mold & producing
- ▶ Hidden parting line Mold
- ▶ FEM carrier



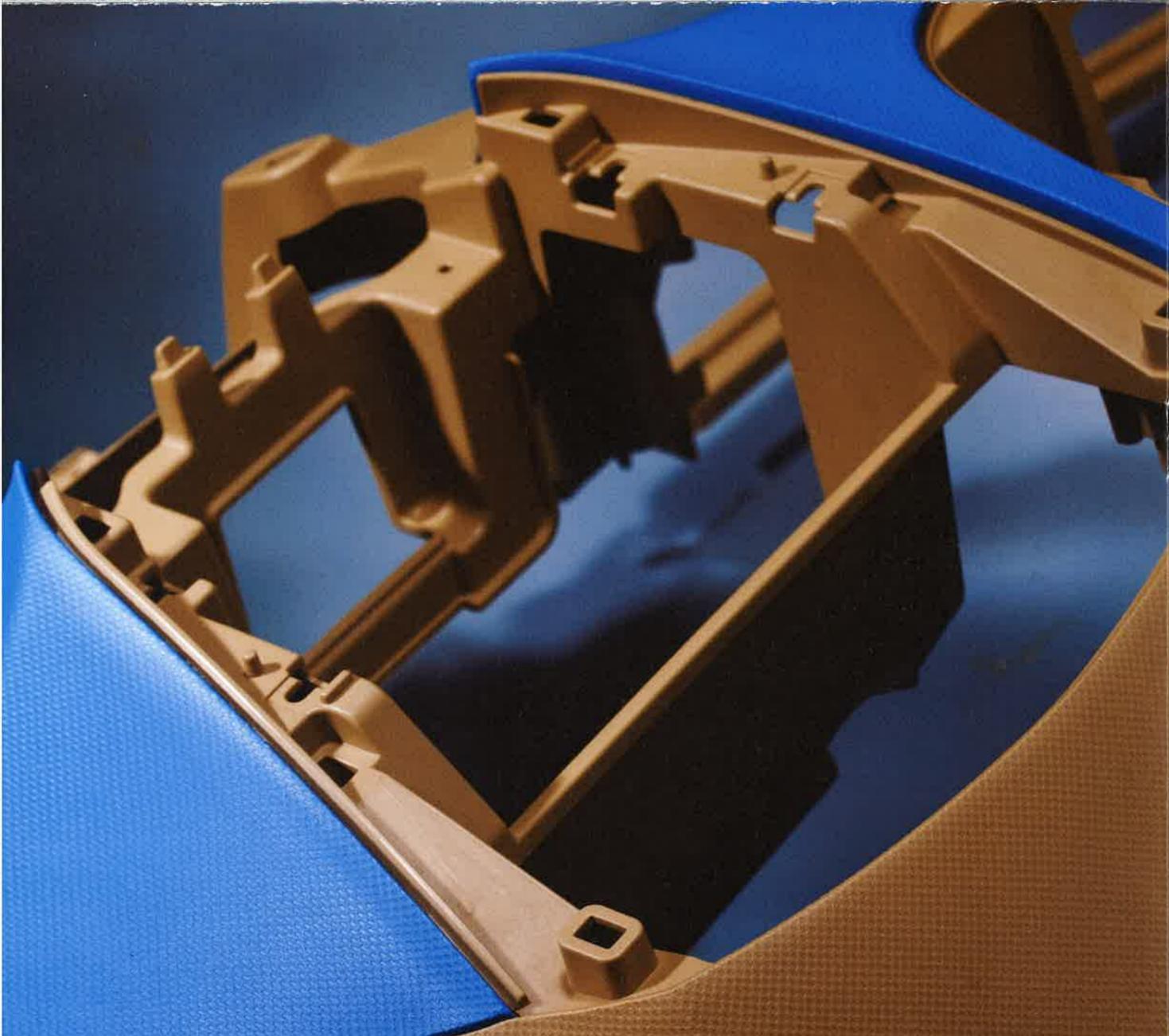
Patents



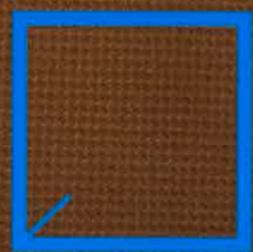
Reinforced plastic mold devices for molding | Manufacturing Method of Automobile Radiator Grill | Injection mold with slide core | Injection molding device & injection molding method | Cooling channels applying the large areas



ISO 9001 : 2008 | KS Q ISO 9001 : 2009 | ISO / TS16949 : 2009 | KS I ISO 14001 : 2009 | ISO 14001 : 2004 | K-OHSMS 18001 : 2007 | OHSAS 18001 : 2007 | SQ CERTIFICATE OF SUPPLIER QUALITY(Mold) | SQ CERTIFICATE OF SUPPLIER QUALITY(Injection)

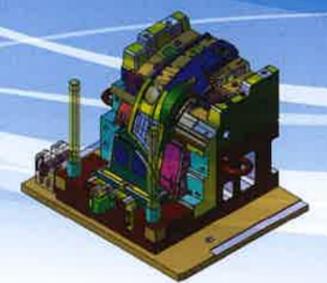


Main Products

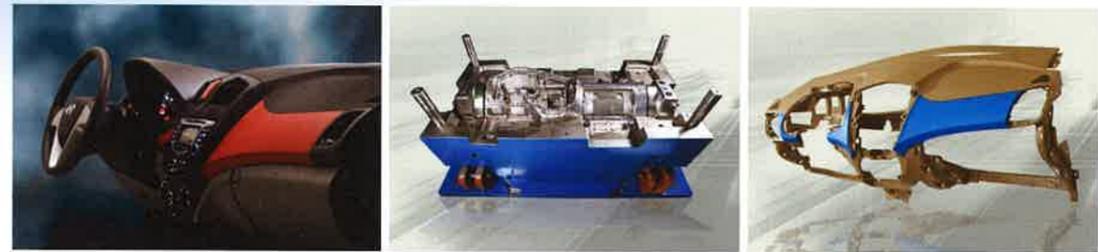


We pursue solid management with constant activity for quality improvement and ISO 9001 quality certification by realizing perfect quality that can move the customers and constructing synthetic and systematic quality system through technology.

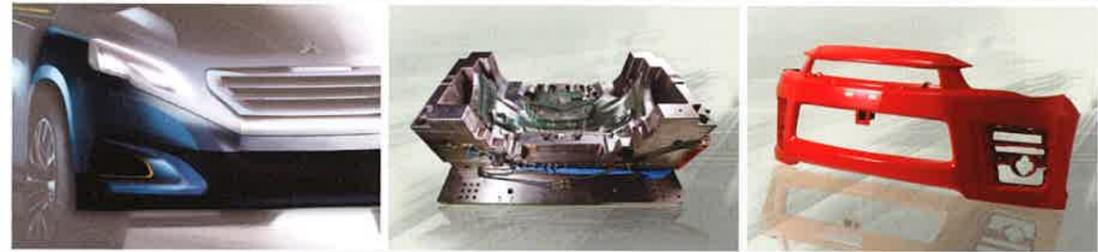
완벽한 품질확보와 고객감동을 실현 할 수 있는 품질과 기술력 확보를 통한 종합적이고 체계적인 품질시스템을 구축하여 지속적인 품질개선 활동과 ISO9001 품질인증으로 내실화를 기하고 있습니다.



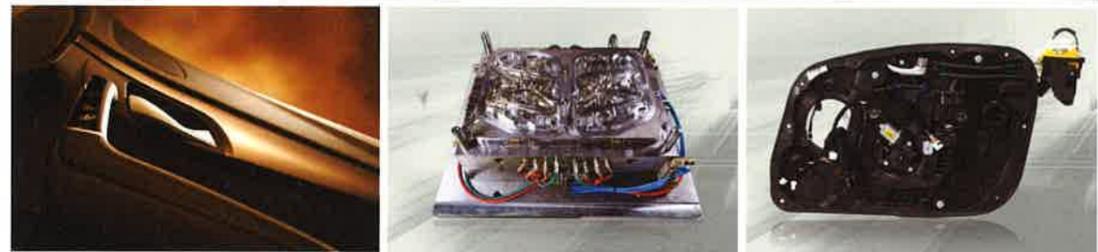
Plastic Injection Mold for Automotive Interior & Exterior Parts



Plastic Injection Mold for instrument Ass'y



Plastic Injection Mold for Bumper Ass'y



Plastic Injection Mold for Doortrim Ass'y

Plastic Injection Mold for Automotive Parts Etc.



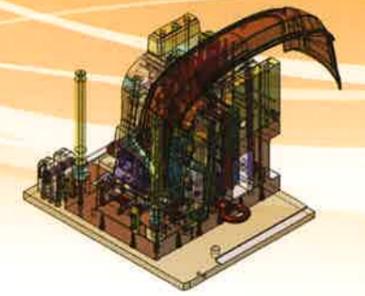
SMC Products



Facilities & Process

Hanguk mold is strengthening the competitiveness with balance between every production equipment and process. Even for one production, total quality control, systematic prime cost management, and efficient production supervision should work together.

한국몰드의 모든 생산 설비와 공정은 조화를 통해 기업 경쟁력을 높여 갑니다. 하나의 제품으로 거듭나기까지 종합적인 품질관리, 체계적인 원가관리, 효율적인 생산관리와 함께 최신의 생산설비가 조화를 이루어야 합니다.



Plant Inside



N/C Line

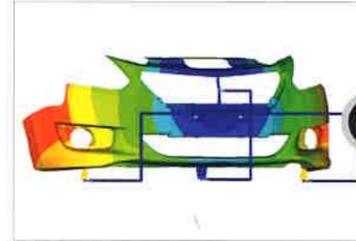


Ass'y Line



Injection Line

Injection Mold Process



CAD / CAM / CAE



NC



Ass'y



Delivery



T/O



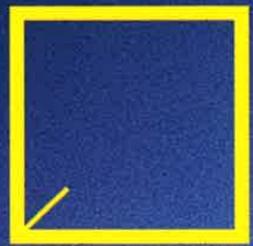
Inspection

Main Equipment

MACHINE DESC.	MODEL	SIZE	QTY
NC 20 M/C	HF-S-NC	4000*2800*1800	1
NC WORKING (20 M/C)	MCR-ASC	4000*2800*1800	1
NC 15 M/C	MCV- II	3200*2500*650	2
DOOSAN 12	VM1260	2500*1560*900	1
NC 12 M/C	MCV-1260	2140*1260*900	1
CNC 5 AXIS HIGH SPEED PROCESSOR	XF6300 (HYUNDAI WIA)	600*600*400	1
CNC 5 AXIS HIGH SPEED PROCESSOR	RONIN 20 (FPT)	6000*2200*2500	1
CNC 5 AXIS HIGH SPEED PROCESSOR	DMU 60T	630*560*560	1
EDM-TWO HEAD	SB 1800 CNC	7800*800*700	1
EDM	SB 1000B	1000*600*400	1
EDM	EP100M	500*400*320	1
EDM	M35	450*400*320	1

MACHINE DESC.	MODEL	SIZE	QTY
EDM	SB 800B	1000*600*400	1
400TON HYD PRESS	DSP-3020-400	2500mm	1
500TON HYD PRESS	DSP-3020-400	2500mm	1
WIDE MILLING 2M/C	HMT11100	750*300*450	1
WIDE MILLING 1½M/C	TM25		1
LATHE	HL-460*640	Ø460*1000	1
Radial Drilling	NRD-2000		1
Radial Drilling	NRD-1600	1050*1750*870	1
Injection M/C	WOOJIN	3300 TON	1
Injection M/C	TOSHIBA/DONG SHIN /WOOJIN	2500 / 2000 / 1800 TON	3(1/1/1)
Injection M/C	TOSHIBA / MITSUBISHI /LS CABLE TOSHIBA /LS CABLE	850 / 650 TON	5(3+2)
Injection M/C	LS CABLE SUMIMOTO	450 / 350 TON	2(1+1)
Injection M/C	WOOJIN	260 TON	1

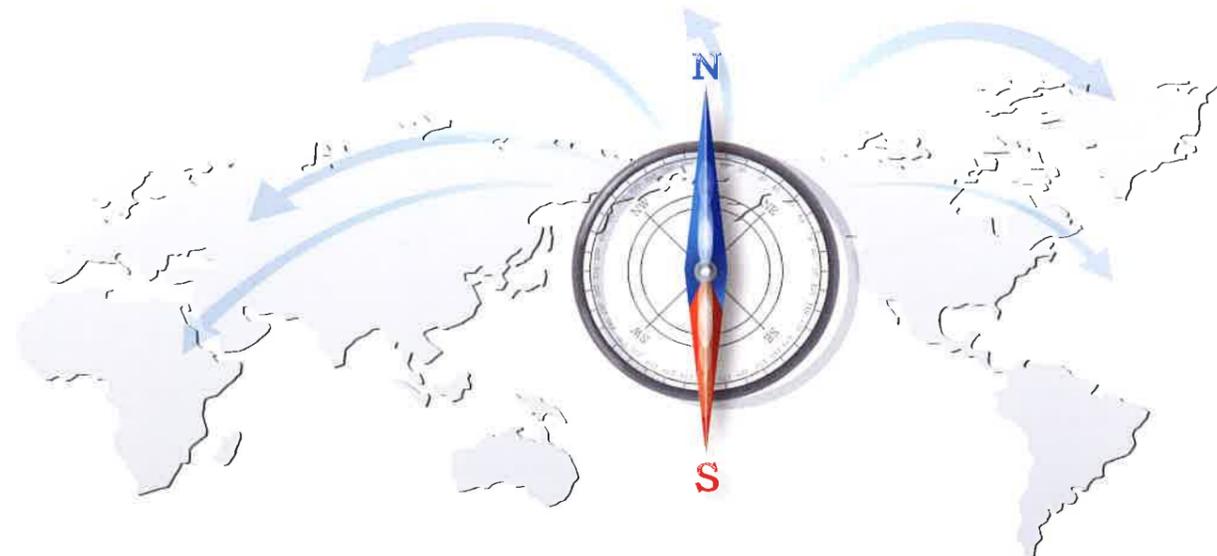
and other necessary equipment for mold manufacturing



Innovation Concept Tooling

Connecting organically all processes from the early stage of development to mold for mass production by making use of accumulated experience and state-of-art technological system, we are trying our utmost for customer satisfaction by shortening development period, reducing cost and improving quality.

축적된 경험과 첨단 기술 시스템을 활용함으로써 시작 개발 단계에서 양산 금형까지 모든 공정을 유기적으로 연결하여 개발기간 단축 및 원가절감, 품질향상의 실현으로 고객 만족에 최선을 다하고 있습니다.



To the Wide world, For the New world

“더 넓은 세상을 향한 출발. 지금 (주)한국몰드와 함께 새로운 세상을 만납니다.”



HANGUK MOLD's Group



Ulsan 1st. Plant

Injection Mold & Parts / Die casting Mold

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Ulsan 2nd. Plant

AIM Manufacturing & Assembling & Automotive A/S Market Part

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Kimje Plant

SMC Product & Heavy Commercial Vehicle Products

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HANGUK ACM CO.,LTD.

SMC Material

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