



HISTORY

CEO ANNOUNCE

MAIN PRODUCTS

PROCESS

EQUIPMENT

ORGANIZATION

Contact Information

History

Established in November 2000

The primary cooperated company with Doosan Infracore in 2006

Military optics part certification, USA in 2007

The cooperated company with LG Innotek in 2007

ISO 9001:2000 & 14001:2004 in 2008

2010

ISO 9001:2015 & ISO 14001:2015

Promising Export Firm in 2016

Inno-Biz in 2016

Product-specific approved exporter in 2016

Main-Biz in 2017

Promising small and medium-sized

enterprise in 2017

RMI U.S.A Exportation in 2001 JML U.S.A Exportation in 2002

The primary cooperated company with Samsung Tech Win in 2002

The primary cooperated company with Lil-Jin Display in 2004

The Primary cooperated company with LGE in 2005

Established USA(Colorado) Branch in 2011

Korea Military optics part certification in 2013

Moved to larger facility in Sambang-ri, Paju-City in 2013

Business partnership with Korea Polytechnic University in 2014

Business partnership with Korea Aerospace University in 2014

History

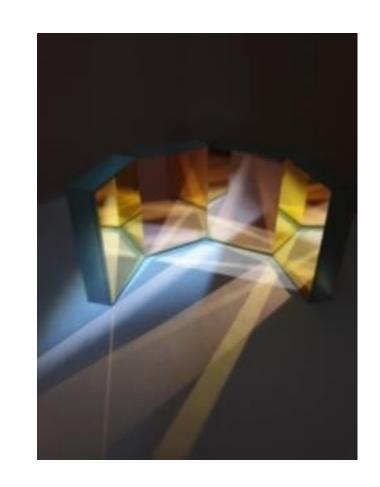


CEO ANNOUNCE

MOS was established in 2000 and started as a Manufacturer of optical components for Laser and Imaging Applications.

MOS is one of the few companies that possess extensive experience with Lens fabrication using a wide range of UV, Visible, and IR substrates. Unlike Lenses that are manufactured by a third source, all MOS Lenses are manufactured and tested in-house to ensure consistent quality. MOS filters are carefully manufactured and measured to ensure the most accurate wavelength selection available. From our standard color glass filters to accurate, multi-component filter systems, MOS is a total filter solution provider.

MOS has manufactured the highest quality of optical components including thin film coatings and optical assemblies to be used in Medical, Semiconductor and Industrial Applications.



CAPABILITIES

OPTICS

COATING

DESIG & ASSEMBIES

OPTICS

WINDOW

- Wedges
- Interferometer Flats

LENS

- Spherical
- Cylindrical
- Meniscus

PRISM

- Right Angle
- Corner Cube
- Porro
- Littrow

MIRROR

- Plane
- Concave
- Convex
- Metal

Optical Filters

Blue, Green, Red Filter UV Filter, IR Filter Bandpass Filter

COATING

ANTI-REFLECTIVE

- Single layer
- Multi layer
- Narrowband
- Broadband
- Multi wavelength

REFLECTIVE/TRAN SMISSIVE

- Partial/Output coupler
- Narrowband
- Broadband
- Beam Combining
- Beam Splitting
- Multi-wavelength
- Harmonic

FILTER

- Narrowband
- Broadband
- Bandpass Filter
- Long wave pass
- Short wave pass
- Neutral Density

MIRROR HIGH REFLECTIVE

- Protected Metal
- Enhanced Metal
- Phase Retarding
- Hot and Cold
- Dielectric-Low/High Power
- ITO

DESIGN & ASSEMBLIES



LENS

- Spherical Lens, Meniscus Lens,
 Cylindrical lens
- Chalcogenide, CaF2, ZnSe, Si, Ge etc., IR Lens
- 2.0mm Cyl./spherical Pickup Lens
- 1500mm Spherical Mirror
- 600mm Parabolic Mirror **PRISM**
- Right angle prism
- Dove Prism
- Penta Prism
- Roof Penta Prism
- Porro Prism
- Corner Cube Prism
- Rhomboid Prism
- Pecan Prism
- Littrow Prism
- Pellin Broca Prism



ASSEMBLIES

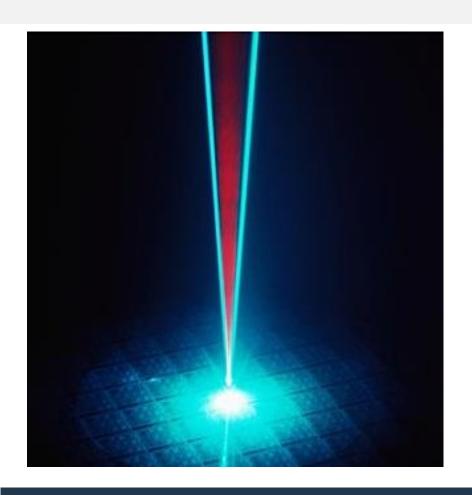
- F-theta Lens
- YAG beam Expander
- Co2 beam Expander
- Converter lens
- Collimator Lens etc.

OPTICAL SYSTEM & MODULE

- Athermalized Mold Lens
- Thermal Lens
- Vein Recognition Camera(In-progress)



Laser Cutting Machine



Semiconductor Laser





Medical Laser

Operating room reflector

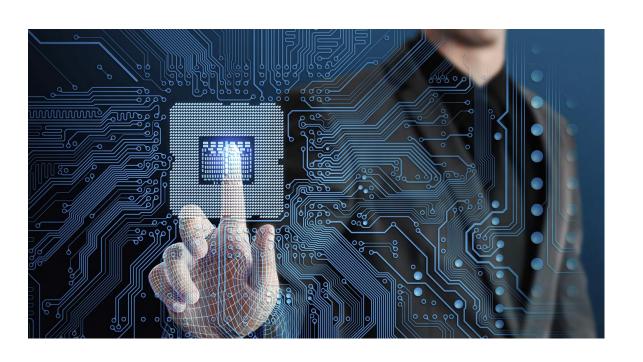


Thermal Imaging Camera



Optical Microscope

주요 생산품





Semiconductor fabrication and inspection equipment

Aerospace related optical components

주요 생산품

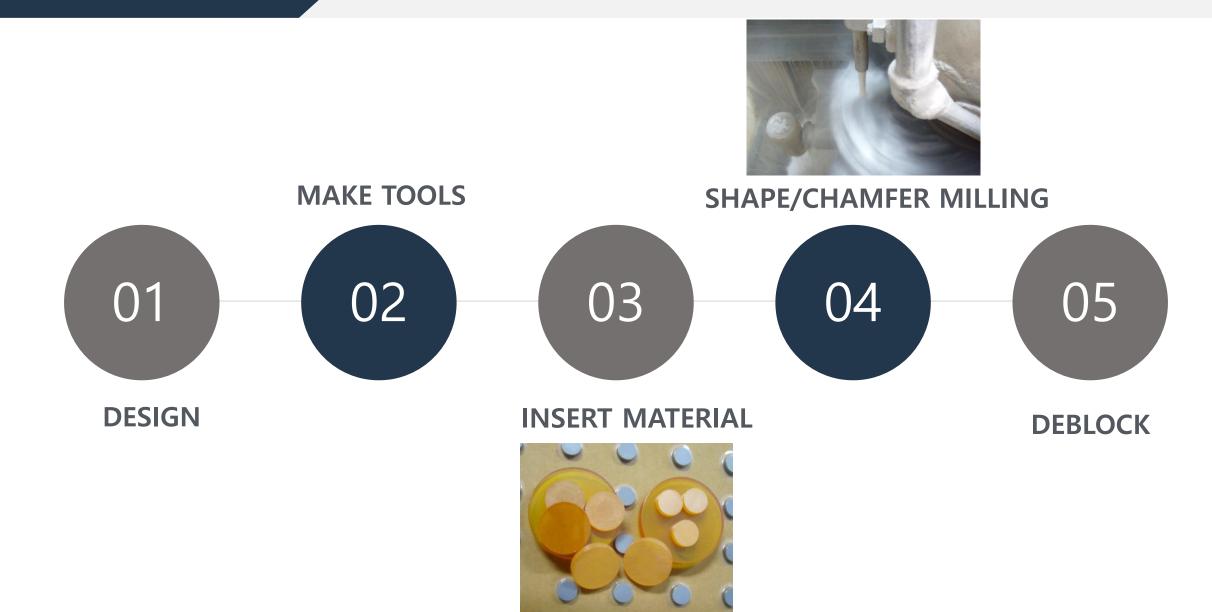


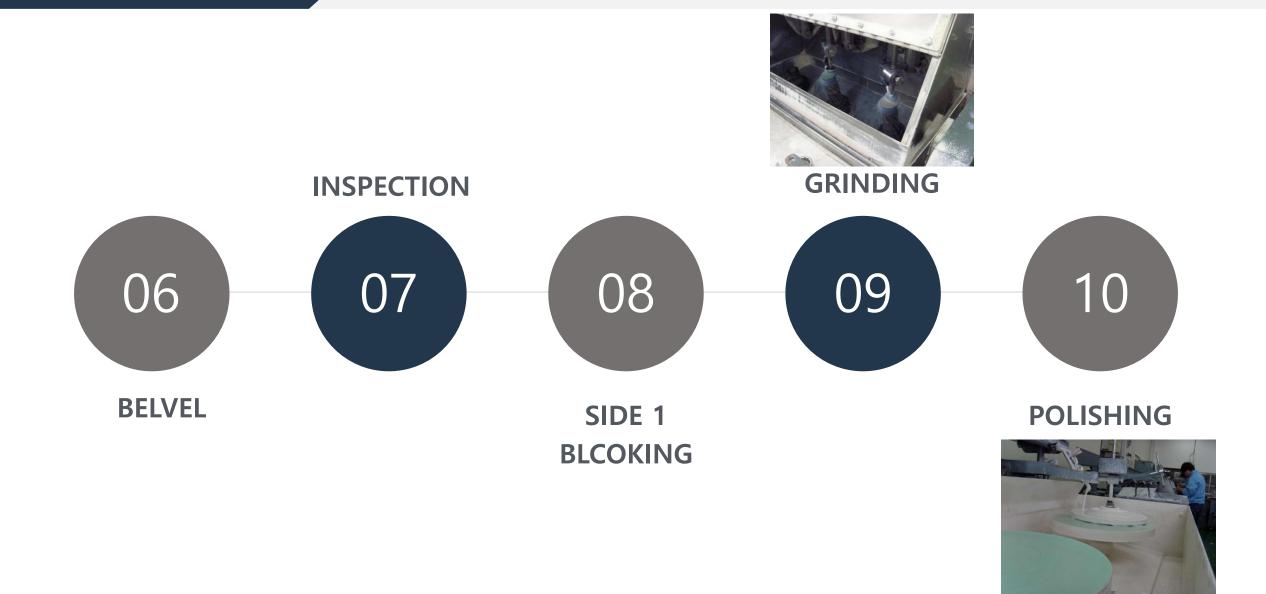


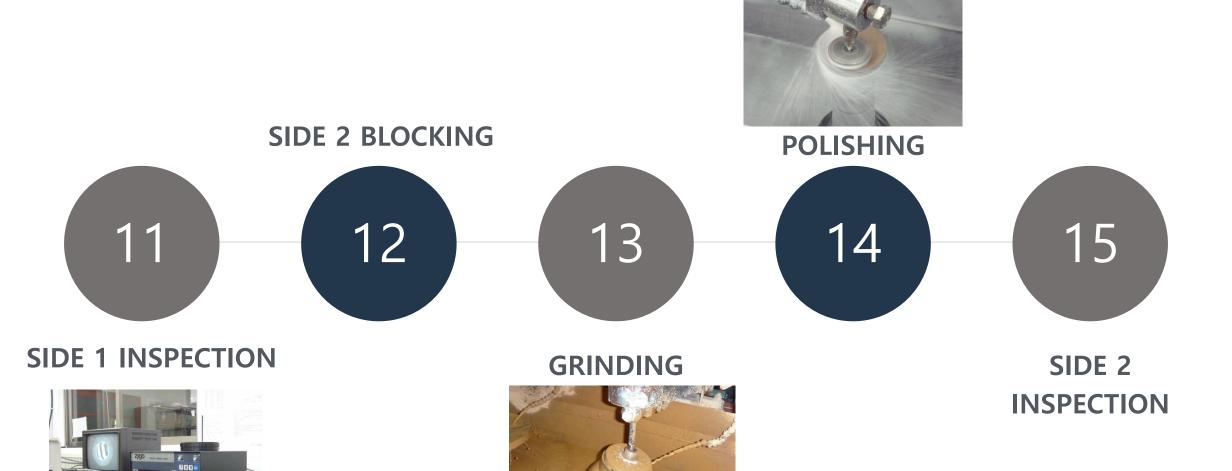
K2 Optical Parts

K9 Optical Parts

defense-related optical components









COATING

17

18

ASSEMBLY



INSPECTION



SHIPPING

20

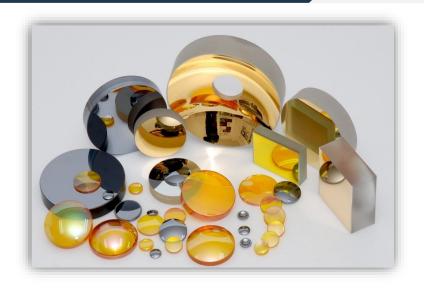




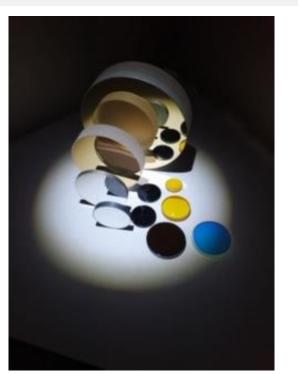
CLEANING



PRODUCTS













PROCESS EQUIPMENT

No.	EQUIPMENT	MADE	QTY	YEAR
1	Plastic Molding Machine	JAPAN	1	2014
2	Rotary Milling	BLANCHARD(USA)	2	1972
3	Rotary Milling	ICHIKAWA(JAPAN)	4	1995
4	6 SPINDLE POLISHING M/C	SIDAE(KOREA)	12	2008/2010
5	4 SPINDLE POLISHING M/C	SIDAE(KOREA)	32	2001/2010
6	HIGH SPEED POLISHING M/C	SIDAE(KOREA)	32	2008/2010
7	CENTERING M/C	SIDAE(KOREA)	12	2001/2010
8	DOUBLE SIDE POLISHER M/C	WAIDA(JAPAN)	6	2011
9	CURVE GENERATION M/C	SIDAE(KOREA)	16	2008/2010
10	CUTTING M/C	SIDAE(KOREA)	2	2001
11	CYLINDRICAL GRINDING M/C	OKUMA(JAPAN)	2	2002
12	CYLINDRICAL POLISHING M/C	SIDAE(KOREA)	4	2002
13	FLAT POLISHING M/C	SPITFIRE(USA)	1	2001
14	COATOR(Ф600:2,Ф950:5,Ф1200:2,Ф1500:1)	INTEC(KOREA)	10	2001
15	ULTRA CLEANER (12set)	DAEHAN(KOREA)	1	2010
16	CLEAN BENCH	KOREA	6	2001/2010
17	OVEN(~ 300°C)	KOREA	2	2001
18	Ø2000 POLISHING M/C	MOS(KOREA)	2	2012
19	MACHINING CENTER	DOOSAN(KOREA)	3	2016

MEASUREMENT EQUIPMENT

No.	EQUIPMENT	MADE	QTY	YEAR
1	SPECTROMETER(UV~NIR)	PERKIN ELMER(USA)	2	2010
2	SPECTROMETER(VISIBLE)	PERKIN ELMER/HITACHI	2	2007
3	SPECTROMETER(LONG IR)	PERKIN ELMER(USA)	1	2008
4	INTERFEROMETER	ZYGO(USA)	3	2001
5	AUTO COLLIMATER	NIKON(JAPAN)	4	2016
6	CENTERING SCOPE	PEARL(JAPAN)	2	2008
7	STEREO SCOPE	NIKON(JAPAN)	2	2009
8	AUTO CENTERING SCOPE	SAMWON(KOREA)	1	2013
9	VACCUM MICROSCOPE	MIRERO(KOREA)	1	2010
10	METALLURGICAL MICROSCOPE	SAMWON(KOREA)	1	2010
11	RADIUS LENGTHMETER	UNIVERSAL(USA)	1	1995
12	INTERFEROMETER	DIVISION(USA)	3	2012

MEASUREMENT EQUIPMENT

No.	EQUIPMENT	MADE	QTY	YEAR
13	PROFILE PROJECTOR	NIKON	2	2006
14	TEMP&HUMID CHAMBER	OSUNG LST(KOREA)	1	2003
15	SALT SPTRY TEST	ALLTHREE(KOREA)	1	2020
16	CNC COORDINATE MEASURING MACHINE	Coord3	1	2014
17	PHASE GRATING INTERFEROMETER	TAYLOR HOBSON	1	2025

MEASUREMENT EQUIPMENT

Salt Spray Test Equipment



■ SPECIFICATION

SPEC' MODEL	ATST-30	ATST-50	
CHAMBER(SIZE)mm	$600^w \times 450^o \times 450^H$	900 ^w ×600 ^D ×600 ^H	
MATERIAL (IN)	PVC PLATE	PVC PLATE	
(OUT)	SUS 304	1.2T PLATE	
TEMP' CONTROLLER	DIGITAL P · I	· D CONTROLLER	
TEMP' RANGE	AMBIENT +3℃ ~ 45℃	AMBIENT +3℃ ~ 60℃ CASSER	
TEMP' ACCURACY	± 1.0°C AT 30°C	±1℃ AT 40℃	
POWER SOURCE	AC 220	OV 1 Ø 60Hz	
HEATER	KANTHAL PIPE, KANTHAL WIRE HEATER		
THERMO-COUPLE	Pt 100Ω TYPE		
SPRAY SYSTEM	ACRYL 수지 NOZZLE TYPE		
AIR COMPRESSOR	0.4kw		
SAFETY DEVICE	OVER HEATING & OVER CURRENT		
POWER CONSUMPTION	2.4Kw 3.4Kw		



Precision Aspheric Contouring Machine					
Model NanoForm 350		Trovol	X-Axis	~ 350mm	
Maker	Precitech, USA	Travel	Z-Axis	~ 250mm	
		Speed		~ 1,500mm/min	
		Driver System		AC Linear Motor	
		Feedback Resolution		8.6nm	
		Straightness	X-Axis	0.3µm/350mm, 0.05µm/25mm	
			Z-Axis	0.2μm/250mm, 0.05μm/25mm	
			Vertical	0.7μm/350mm, 0.05μm/25mm	
		Application		Aspheric Lens Manufacturing	



Ultra High Accurate 3D Profilometer				
Model UA 3P-5		Measuring Range	20	00 x 200 x 45
Maker Panasonic, USA		Measuring Probe	Atomic Force Probe	
,		Measuring Speed	0.0	1 ~ 10mm/sec
		Max. Inclination Angle	60°	
		Measurement Accuracy with Probe (Ruby stylus)	30° max.	0.01 ~ 0.05µm
			45° max.	Up to 0.1µm
			60° max.	Up to 0.3µm
		Measurement Accuracy	10nm	
		Application	Aspheric Surface Evaluation	

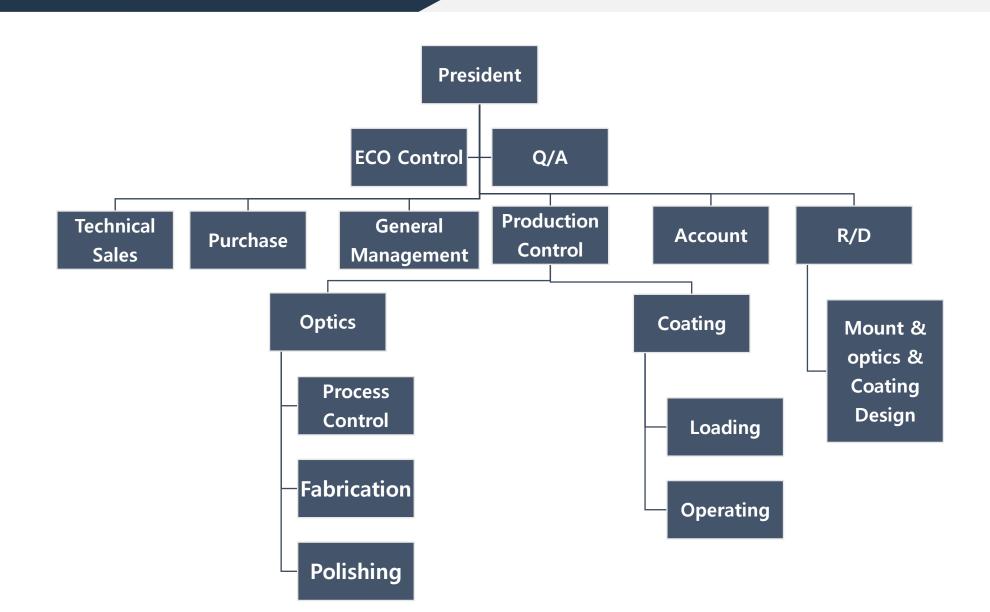


Laser Interferometer				
Model MOT600-300		Max. Sample Diameter	600mm	
Maker Opticentric, Japan		Max. Sample Height	800mm	
		Max. Distance between Measuring Head and Tilt / Translation Table	900mm	
		Max. Sample Weight	50Kg	
		Max. Load Capacity of the Air Bearing	500Kg	
		Application	Aspheric Lens Centering Measurement	

조직도



ORGNIZATION CHART



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