

# TYPE OF MOULDS MANUFACTURED

- 2 PLATES MOULD
- 3 PLATES MOULD
- DOUBLE INJECTION MOULD (2K) – SELECTED DESIGN
- VERTICAL & HORIZONTAL INJECTION
- INSERT MOLDING
- OVERMOULD
- HIGH GLOSS POLISHING / CHROME PARTS
- REFLECTORS / LENS PARTS ( $R>0.3$ )
- MOTORIZED INJECTION
- TPE / TPU / PU MOULD

## MOULD WITH :

- MECHANICAL SLIDES ACTION
- HYDRAULIC SLIDES
- LIFTER ACTION ON SLIDER
- LIFTER ACTION (UP-WAY SLIDE)
- STRIPPER EJECTION
- DOUBLE EJECTION
- RETRACT CORE / CAVITY
- HOT RUNNER – OPEN / VALVE / SEQUENTIAL (HRS, SYNVENTIVE, MOLD MASTER, YUDO, INCOE, PSG)
- HEATED MOLD
- BACK INJECTION MOULD
- INTERCHANGEABLE CORE / CAVITY



5-Axes & 3-Axes  
CNC Finishing  
Machines



3-Axes CNC  
Roughing Machines

TOOL SHOP





EDM Machines



Wire Cut Machines



EDM Machines

TOOL SHOP





**Overhead Crane**  
35 tons

**Spotting Press Machine**  
50tons  
X3000\*Y2000\*Z2500 mm

**Mold Reversing Machine**  
Rotate 180° & 50 tons



**Gun Drilling Machine**  
X3000\*Y1500\*Z2000 mm



**Grinding Machine**  
X1500\*Y700\*Z400 mm



**Small Tool Fitting Area**

# TOOL SHOP

**MITSUBISHI 1600 tons**



**✓ E-Multi Auxiliary Injection Unit**



**TOSHIBA**



**TOSHIBA 60 tons**

**TOSHIBA**



**TOSHIBA 100 tons**

**TOSHIBA**



**TOSHIBA 650 tons**

**TOSHIBA**



**TOSHIBA 450 tons**

**Sumitomo DEMAG**

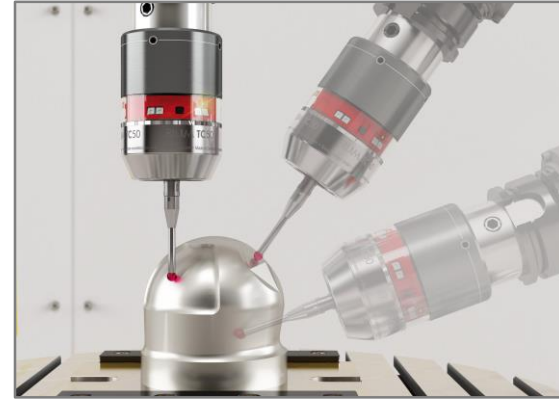


**DEMAG 150 tons**

**IN-HOUSE  
TOOL TRIAL & PLASTIC INJECTION  
PRODUCTION**

## Quality Assurance Equipments:

- **HEXAGON Coordinate Measuring Machine (CMM)**  
X:2000 Y:900 Z:800mm
- **Osaka Seimitsu Gear Rolling Tester GTR-PC**
- **Profile Projector**
- **Digital Height Gauge**
- **Digital Caliper**
- **Digital Micro-Meter**
- **Pin Gauge**
- **Thread Gauge**
- **BLUM Form Control**  
(Attached with CNC Finishing Machine)



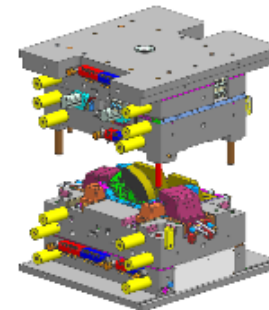
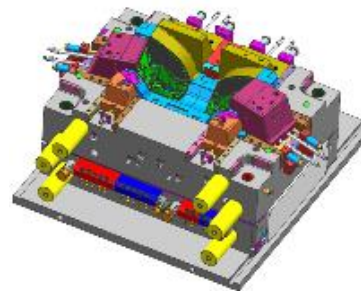
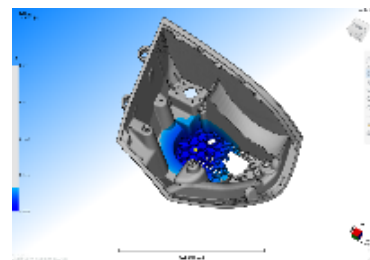
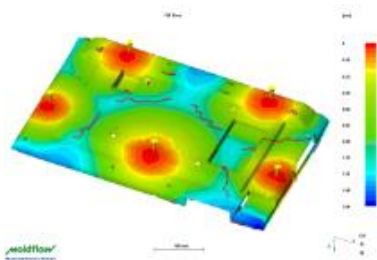
IN-HOUSE QUALITY ASSURANCE FACILITIES

## The CAD & CAM Software:

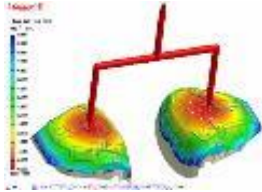
- UNIGRAPHIC (UG) CAD version NX11.0
- UNIGRAPHIC (UG) CAD version NX9.0
- CATIA V5 CAD version R26
- 3D-Tool Converter Premium version 12.3
- UNIGRAPHIC (UG) 3-axis CAM version NX11.0
- UNIGRAPHIC (UG) 3-axis CAM version NX9.0
- HYPERMILL 5-axis CAM version 2016.2
- AUTODESK POWERMILL 3-axis CAM version 2018
- MOLDEX3D Edesign
- MOLDFLOW PLASTIC ADVISER / MOLD ADVISER 7.3

## The Compatibility and Versatility of software are:

- 2D File: DWG, DXF
- 3D File: PRT, STEP, IGES, PARASOLID, CATIA, SOLIDWORKS, JT, ACIS, Pro E, & etc.



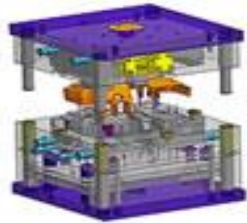
CAD & CAM CAPABILITIES



PRODUCT DEVELOPMENT & PROTOTYPING



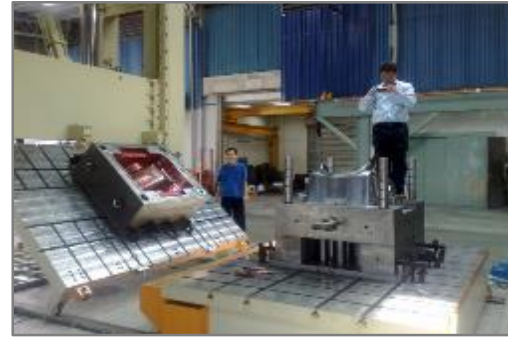
FINALIZING PRODUCT DESIGN



DFM, FMEA, MOLD FLOW, MOLD COOL, \* MOLD WARPAUGE ANALYSIS & TOOL DESIGN



TOOL MANUFACTURING WITH WEEKLY PROGRESS MILESTONES & PHOTO UPDATE



TOOL BUY-OFF



TOOL DELIVERY



CUSTOMER ON-SITE SUPPORT



SAMPLE MEASUREMENT & FA REPORT

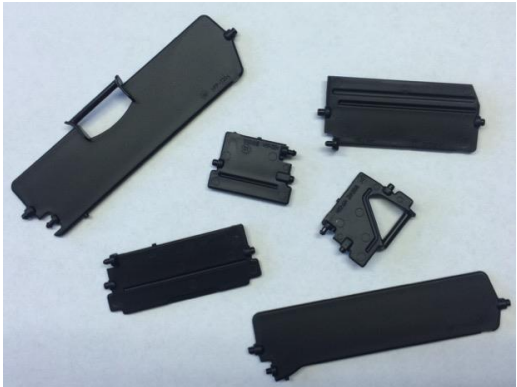


TOOL TRIAL OUT & OPTIMIZATION



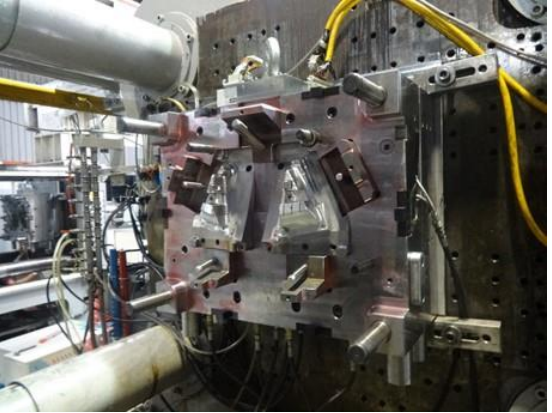
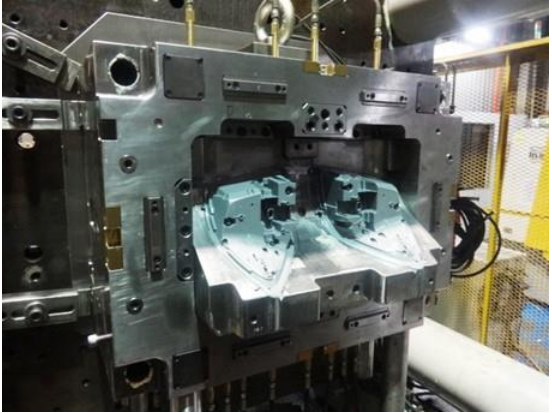
NEW PROJECT PROCESS FLOW





# TYPE OF MOULD / PRODUCT - ENGINEERING PARTS

# TYPE OF MOULD / PRODUCT - AUTOMOTIVE LAMPS



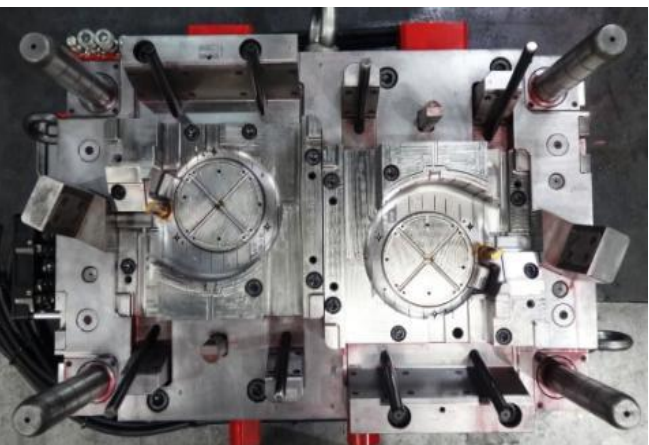
# TYPE OF MOULD / PRODUCT - BUMPER PARTS





TYPE OF MOULD / PRODUCT  
- OTHER AUTOMOTIVE PARTS  
(BIG TOOL – 850 – 1,600 TON)

TYPE OF MOULD / PRODUCT  
- OTHER AUTOMOTIVE PARTS  
(BIG TOOL – 850 – 1,600 TON)



TYPE OF MOULD / PRODUCT  
- TPE / TPU / PU / DOUBLE  
COLOR / INSERT MOLDING /  
OVERMOLD / ETC



# TYPE OF MOULD / PRODUCT

## - HOME APPLIANCES & OFFICE EQUIPMENTS



## Maintenance/Repairing/Modification Toolshop

1. USA, Grand Rapids – max tool weight (15 tonnes)
2. Mexico, Juarez, Monterrey and Guadalajara – max tool weight (30 tonnes)
3. Germany, Marktrodach – max tool weight (3 tonnes)





























SANICHI'S PARTNER - PROTEV


















# APPENDIX



Machine Type	Model	Working Range	Unit	Year	
5-Axis CNC F	DMG MORI DMU 65 monoBLOCK	X735*Y650*Z560mm or Ø650mm / 20K rpm		2017	 
3-Axis CNC F	AgieCharmilles MIKRON VCE 1400 Pro	X1400*Y650*Z675mm / 14K rpm		2015	
3-Axis CNC F	AgieCharmilles MIKRON HEM 1200	X1250*Y530*Z600mm / 18K rpm		2013	
3-Axis CNC F	DMG MORI NVX 5100	X1050*Y530*Z510mm / 15K rpm		2017	 
3-Axis CNC R	Agma VMC2210	X2200*Y1000*Z800mm / 8K rpm		2007	
3-Axis CNC R	Okuma Howa Millac 438V	X850*Y400*Z400mm / 20K rpm		2003	
3-Axis CNC R	Kitamura MyCenter 3XIF	X800*Y500*Z460mm / 20K rpm		2006	
3-Axis CNC G	Makino E33	X650*Y500*Z450mm / 20K rpm		2015	
3-Axis CNC G	Makino E33	X650*Y500*Z450mm / 20K rpm		2006	
3-Axis CNC G	Makino S33	X650*Y500*Z450mm / 20K rpm		2005	
<b>TOTAL CNC MACHINE</b>			=	<b>10 units</b>	
EDM	AgieCharmilles ROBOFORM 55P	X1220*Y870*Z400mm		2002	
EDM	AgieCharmilles Form 30	X1000*Y700*Z400mm		2013	
EDM	AgieCharmilles SPIU	X790*Y480*Z235mm		2013	
EDM	Makino EDNC 64	X900*Y630*400mm		1990	
EDM	Makino EDGE-2-A4	X500*Y350*Z250mm		2006	
EDM	Makino EDGE-2S-A16	X500*Y350*Z250mm		2004	
EDM	Neuar CNC-A100	X1500*Y700*Z350mm		2004	
EDM	Neuar ZNC-50A	X630*Y360*Z200mm		2003	
EDM	Neuar CNC-A50	X630*Y360*Z200mm		2001	
<b>TOTAL EDM MACHINE</b>			=	<b>9 units</b>	
WEDM	AgieCharmilles CUT 30 P	X1050*Y800*Z350mm		2013	
WEDM	Fanuc α-0iC	X650*Y450*Z180mm	1	2005	
WEDM	Fanuc α-1iC	X820*Y730*Z310mm	1	2006	
WEDM	Makino SP43	X850*Y720*Z320mm	1	2006	
SUPER DRILL	Castex SD-22P	X650*Y420*Z240mm		2003	
<b>TOTAL WEDM MACHINE</b>			=	<b>5 units</b>	

# SANICHI'S MACHINE LIST

Machine Type	Model	Working Range	Unit	Year	
Gun Drill	WEi HONG FW-3000	X3000*Y1500*Z1000mm	1	2007	
Radial Drill	Tone Fan TF900S	X910*Y650*Z1100mm	1	2006	
Radial Drill	Tone Fan TF900S	X910*Y650*Z1100mm	1	2001	
		<b>TOTAL DRILL MACHINE</b>	<b>=</b>	<b>3 units</b>	
Reversing	Prosperous HDS-30	30 tons / X2000*Y1000*Z1000mm	1	2007	
		<b>TOTAL REVERSING MACHINE</b>	<b>=</b>	<b>1 unit</b>	
Spotting	Prosperous CDP-300	50 tons / X3000*Y2000*Z2000mm	1	2007	
		<b>TOTAL SPOTTING MACHINE</b>	<b>=</b>	<b>1 unit</b>	
CMM	HEXAGON Coordinate Measuring Machine	X2000*Y900*Z800mm	1	1992	
		<b>TOTAL CMM MACHINE</b>	<b>=</b>	<b>1 unit</b>	
Plastic Injection	Mitsubishi 1600 tons	Screw Ø120mm	1	1996	
Plastic Injection	Toshiba 650 tons	Screw Ø90mm	1	1994	
Plastic Injection	Toshiba 450 tons	Screw Ø70mm	1	1992	
Plastic Injection	Sumitomo DEMAG 150 tons	Screw Ø30mm	1	2007	
Plastic Injection	Toshiba 100 tons	Screw Ø32mm	2	2007	
Plastic Injection	Toshiba 60 tons	Screw Ø28mm	1	2007	
Multi Injection	Mold Master E-Multi EM2-80-25	Screw Ø25mm	1	2015	
		<b>TOTAL INJECTION MACHINE</b>	<b>=</b>	<b>8 units</b>	

# SANICHI'S MACHINE LIST

