

Prototype metal stamping

By greatly reducing the lead-time and costs until production, you can commercialize your products way ahead of the competition!

Bring products to market faster!

Reduced lead-time for prototype manufacturing!

Reduced development costs!

Excellent quality for development reliability!

Prototype manufacturer "Saijo INX" solve your problems of processes from development to prototyping!!



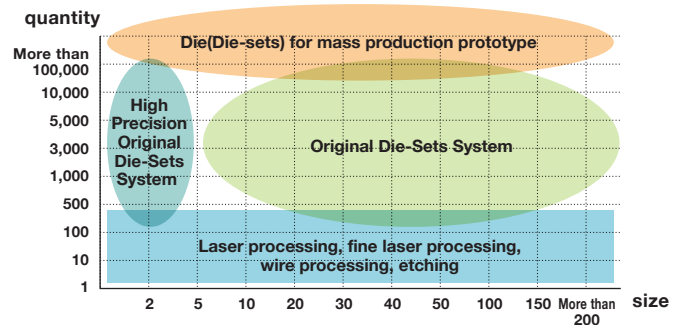
SAIJO

Advantage

The fruition of shorten the delivery time to $\frac{1}{4}$
& reduce the cost to $\frac{1}{3}$.

Original Die-Sets System

Our proprietary "Original Die-Sets System" incorporates only the bare minimum functions required for production, enabling manufacture of prototypes such as electrical and electronic components (connectors, switches, relays, motors), communication devices (optical transmission), medical examination and treatment devices, in-vehicle components (power modules, car navigation), energy related components, and fins (for heat exchangers, oil coolers, EGR coolers) etc., in short delivery times and at low cost, contributing to the increased competitiveness of our customers.



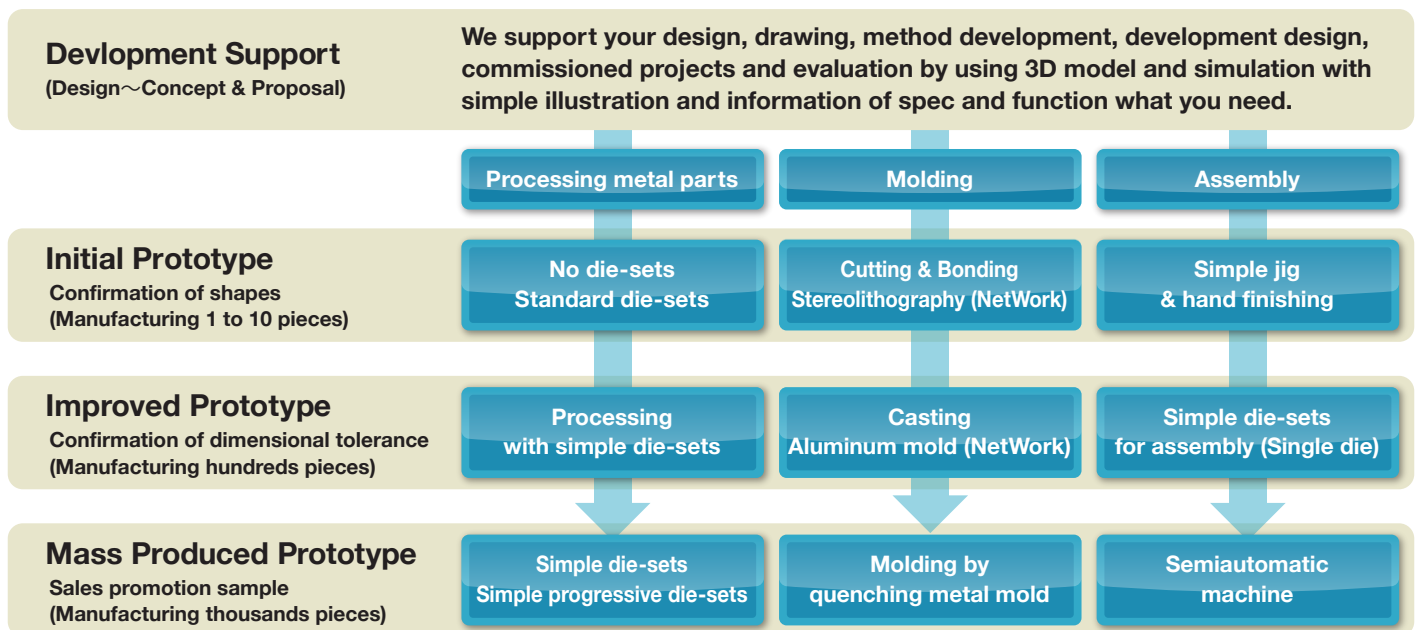
Technological Innovation

We developed high precision die-sets system that is the handfeed simple progressive die. This system can make products of same quality as mass production, moreover contribute to development reliability of customers.

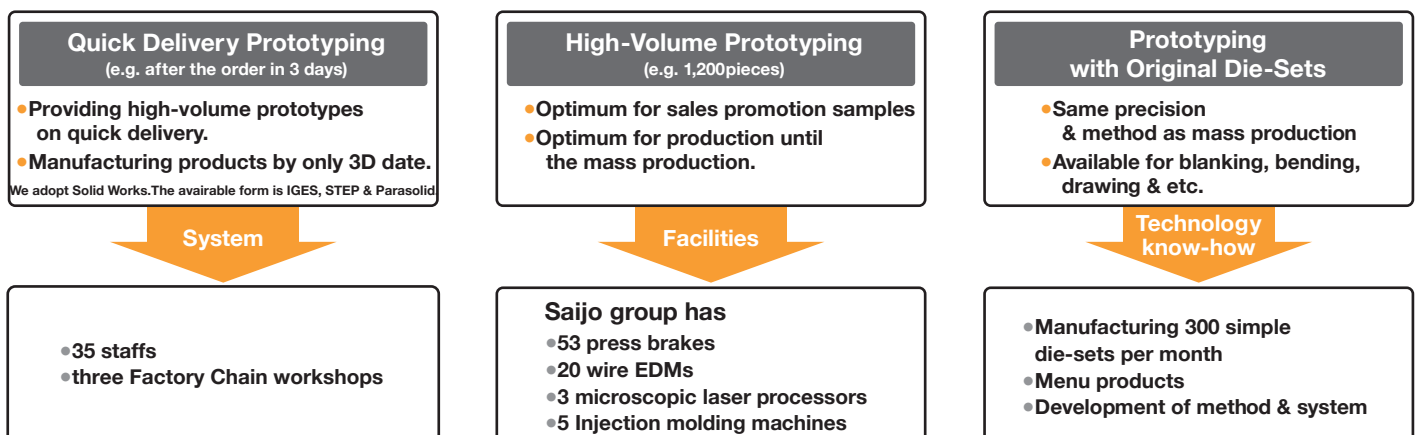
Share of Date & Know-How

We normalized the design and manufacturing process. We greatly contribute to shorten L/T, because we simplify the thinking process and establish the optimum design and manufacturing process.

○ Properly using the method according to the step from 1 piece prototype to mass produced prototype.



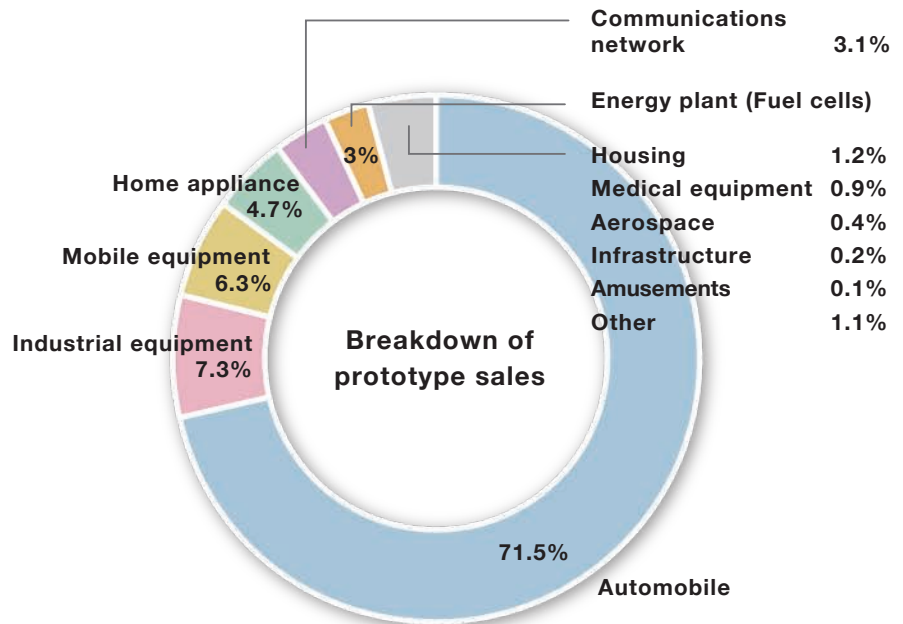
○ Various System & Facilities



Development Support Process of Prototyping

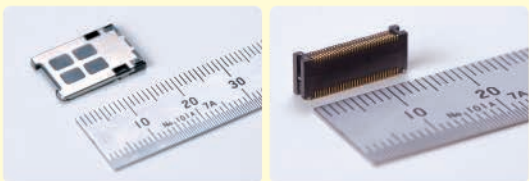
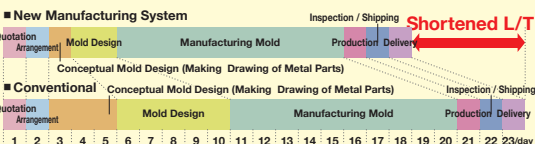
Prototyping result : more than 400 parts per month

We "Saijo INX" was established in 1950 and has been manufacturing more than 400 prototypes per month as innovation partner of thin sheet metal processing. We produce various prototypes that are high precision and moderate price with enough experience and knowledge. Moreover we provide the prototypes which is the same quality as mass production on quick delivery by using our original die-sets system. Recently we also have been involved in so many development projects of components relating to the environment and the energy saving such as fuel cells, offshore generation, heat exchanger, and EV/HV. So we can bring up problems that may occur at the time of mass production at prototype stage, and solve it immediately.



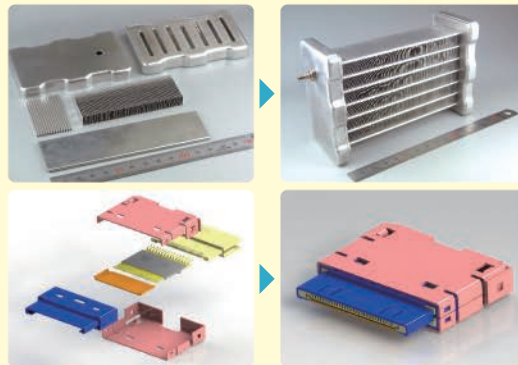
Prototype ~Metal/Resin Sets~

Our integrated manufacturing process enables us to provide everything from the design of injection molding dies through to manufacturing and molding, insert molding, and assembly processing with metal parts.



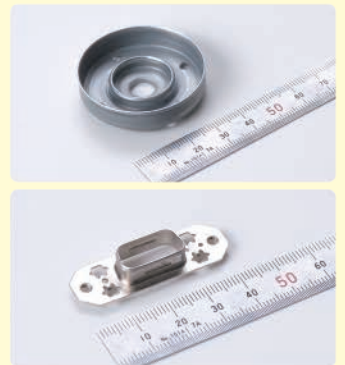
Prototype ~Assembly~

Available for various kinds of assembly such as assembly of plural parts (metal & mold parts), using cutting parts and rubber.



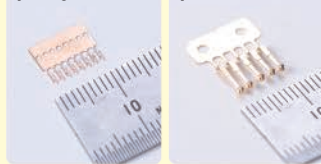
Prototype ~Precision Drawing~

Circular drawing, Square drawing, Complex shape drawing, Deep drawing, Drawing+Ironing



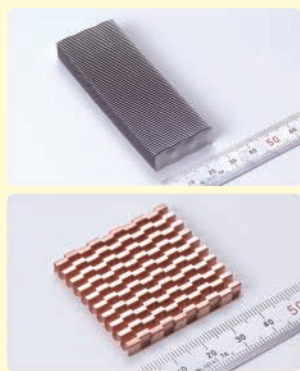
Prototype ~Microscopic Thin Sheet Metal Prototype (Less than 2mm square parts)~

Conventionally, a metal die-sets that is the same type as the mass production die-sets is manufactured when manufacturing microscopic/superfine prototypes. However, at Saijo INX, we have established new manufacturing technology for manufacturing prototypes that maintains the same level of quality as in mass production.



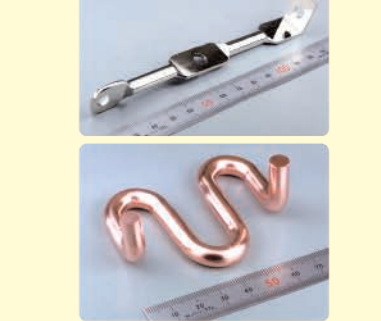
Prototype ~Fin~

Corrugated fin, Offset fin, Inner fin, Louver fin, Waving fin, Slit fin.



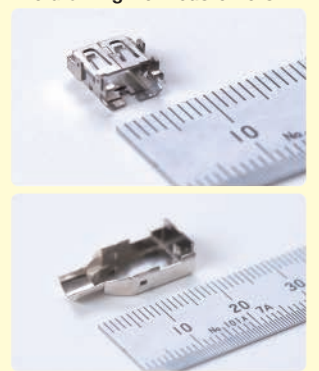
Prototype ~Round Bus Bar~

It is available for improving the space efficiency of products and attaching the insulation properties (insulating layer, surface treatment, thermal expansion tube, molding and etc.).



Prototype ~Thin Sheet Metal Parts~

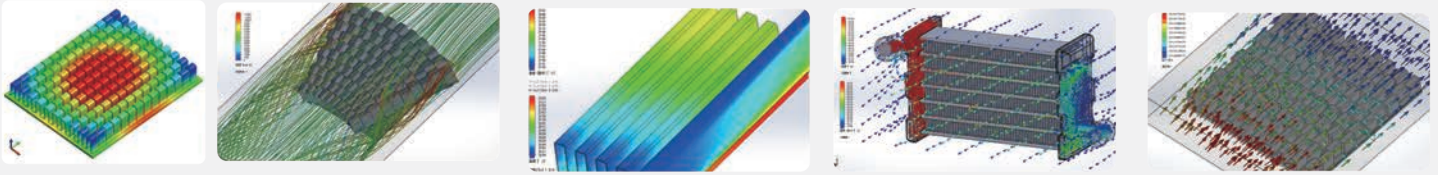
We make up products immediately, as soon as we get the drawing from customers.



Development

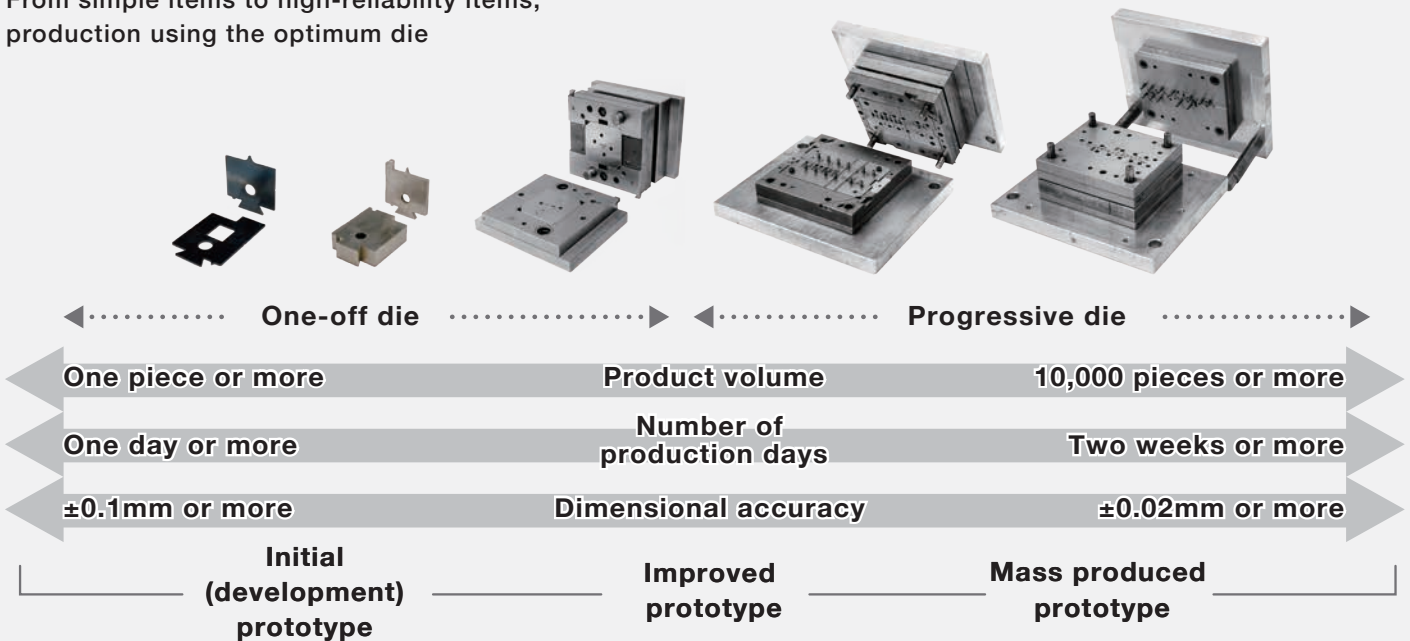
Development Support of Thin Sheet Metal Fin from Development & Design to Prototyping.

As for analysis technology such like thermal fluid analysis, heat conduction analysis, stress analysis with using analysis tool, we simulate the products (design) at the conceptual stage and evaluate the characteristics of products and the directivity of improvement performance. Therefore, you can shorten the development cycle and reduce the development cost.

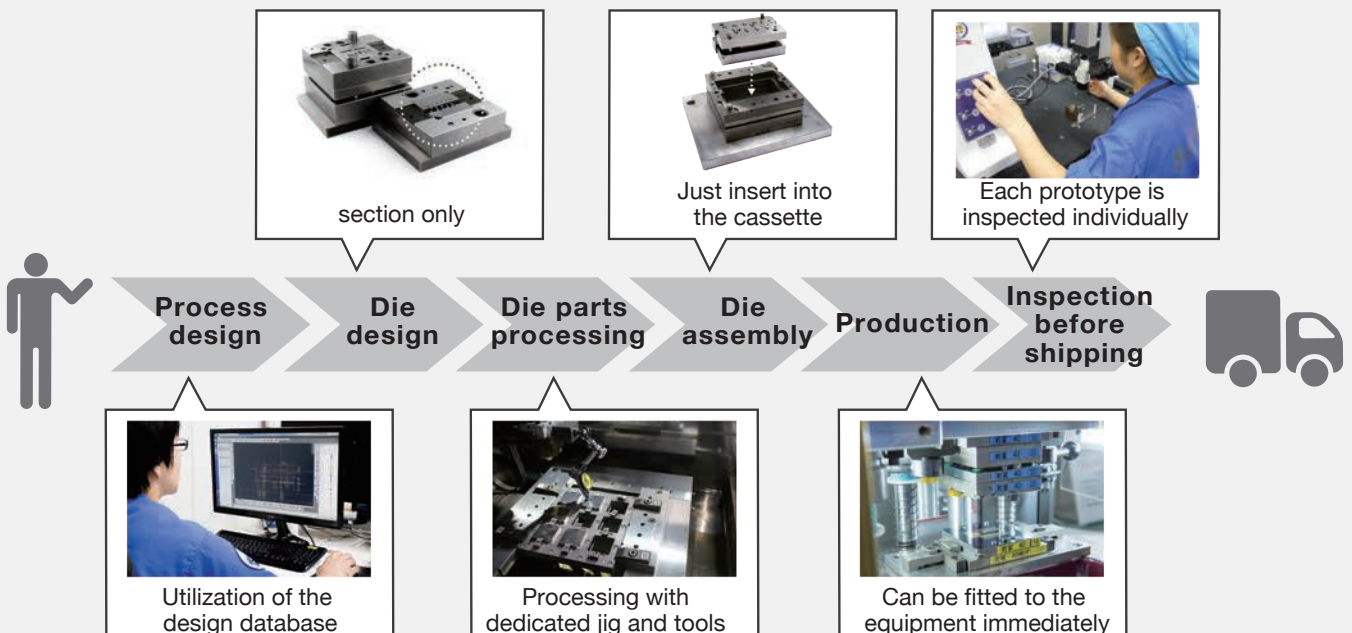


A variety of production methods to match the needs

From simple items to high-reliability items, production using the optimum die



Standardization from process design to production



Facilities

For Prototyping	36kinds	Qty:128
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Microscopic Laser Processor	AC Servo Press
Profile Grinder	Hydraulic Press Brake
Wire EDM	Desk Top Laser Welder etc
High-Precision Wire EDM	NC Grinder
Shot Blast	Surface Grinder
Small Hole Drilling EDM	Profire Projector
AC Servo Brake	Electric furnace etc
3D Printer	



For Molding	10kinds	Qty:12
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Hydraulic Servo Type Injection Molding Machine	Vertical Machining Center
Vertical Injection Molding Machine	3D CAD for Molds
Mold Temperature Controller	3D CAM for Molds
Linear-Motor-Drive	Swing Type Sprue Picker
High-Speed Die-Sinker EDM	Hungry Feeder
	Dehumidifier



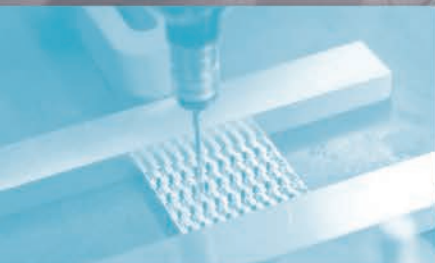
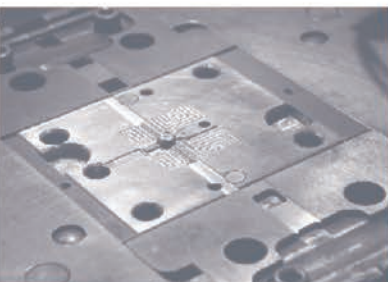
For Die-Sets	8kinds	Qty:12
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NC Milling Cutter	Forming Grinder
Surface Grinder	Lathe
Forming Surface Grinder	Drilling Machine
CNC Surface Grinder	
Dresser for formed grinding machine	



For Measuring	8kinds	Qty:12
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High Accuracy Optical & Measurement Microscope	CNC Vision
3D CNC CMM	Vision Measuring Machine
Measuring Microscope	Profile Projector
Image Dimension Measuring Instrument	Digital Microscope



Development Type Maker ~Supporting The World's Development~

Company Profile

Corporate Name SAIJOINX Co., Ltd.
Locations 5 Nishikotobuki-cho, Saiin, Ukyo-ku, Kyoto, Japan
Contact us E-mail info@saijoinx.co.jp
TEL +81-75-312-8590
Corporate website
URL <http://www.saijoinx.com/en/>
Service website
URL <http://www.prototype-metal-stamping.com/>
Primary Business Precise Metal Stamping & Insert Molding for Prototypes
ISO Standard ISO9001 ISO14001
Main Customers Omron Group Companies / Fujitsu Group /
Murata Mfg.Co.,Ltd. / Sumitomo Electric Industries, Ltd. /
Kyocera Group / Panasonic Electric Group Companies /
J.S.T. Mfg. Co.,Ltd. / NIDEC Group / DENSO Group



● Available Analysis Technology

We can handle thermal fluid analysis, heat conduction analysis, stress analysis and etc.

● Available Metal Materials

We can handle a wide range of metallic materials including SUS, iron, aluminum, phosphor bronze, brass, copper, copper alloy and silver nickel. Please contact us if you have any specific material requirements.

● Available Molding Materials

We can handle a wide range of molding materials including super engineering plastics (LCP, PPS), engineering plastics (POM, various types of PA, PC, PBT), and general plastics (ABS).

We handle approximately 100 types (including different grades) of molding materials per year.

● Available Surface Finishing

Plating: Au, Sn, Ni, Cu, Ag, etc. Please inform us if you require various types of hoop plating or rack plating.

In addition to plating, we can also provide paint finishes, cation electrodeposition coating, anodized aluminum processing, heat treatment and barreling.

● Limitations on The Thickness of The Sheet Metal

The standard is T=0.05 to 3.0mm.

● Limitations on The Product Size

Metal :Consider sizes within 300mm square as a general limit . Any sizes larger than this can be manufactured.

Mold :We have 100ton injection molding machine. Any sizes larger than this can be manufactured

● Available File Formats

STEP / IGES / Parasolid / Auto CAD / JPEG / PNG / PDF / Microsoft Word / Microsoft Excel

● Specification of 3D Printer

It is for confirmation of design model. This machine is ink jet type that can be made high definition modeling.

Modeling size: X270 x Y165 x Z180(mm)

Material: Semitransparent acryl type (ultraviolet curing plastic)

Laminating pitch: 29μm (you can also choose 16μm or 32μm)

*we cannot guarantee the dimension of products.

- I want to know quickly whether it can or cannot be done!
- I want a company to make a prototype for us within a tight deadline that a different company wouldn't do!
- I want a company to make a prototype to a tight deadline, under a tight budget, and to high accuracy!

To solve any of these problems, simply send us your "drawings/data" and tell us your preferred "deadline, quantity and budget", and one of our experienced engineers will reply to you within 6 hours as to whether your request is possible or not.

E-mail info@saijoinx.co.jp

TEL +81-75-312-8590

Inquiries must be received between 9:00am to 5:00pm on weekdays (Japan time).



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