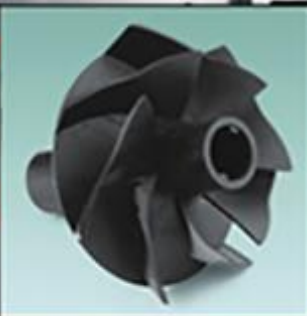


LIBA

Art to Part



FOR
A PERFECT
SHAPE

LIBA ENTERPRISE

OMEGA

ALLIED INSTRUMENTS PRIVATE LIMITED

COMPANY PROFILE

YEARS OF ESTABLISHMENTS	1962
NUMBER OF MANUFACTURING UNITS	5
REGISTRED OFFICE	30 CD GOVT. INDL. EST KANDIVALI (WEST) MUMBAI-400 067
MANUFACTURING UNIT I	30 CD GOVT.INDL.EST KANDIVALI (WEST) MUMBAI- 400 067 PHONE : 28688921/22/23/24 FAX : 28682811
MANUFACTURING UNIT II	PLOT NO. 717 & 720 OFF SOMNATH ROAD, DABHEL, DAMAN 396 210 PHONE : 0260-2243098/22444325 FAX : 0260-2244326
MANUFACTURING UNIT III	LIBA ENTERPRISE 28-AB GOVT.INDL.ESTATE KANDIVALI (WEST) MUMBAI-400 067 PHONE : 28688921/22/23/24 FAX : 28682811
MANUFACTURING UNIT IV	ALTON PLASTICS PVT. LT D. Sai Road, Baddi, Himachal Pradesh Phone: 09318767034
MANUFACTURING UNIT V	ARIA STATIONERY LLP First floor, s.No. 376/2, Plot No.8, Zari Causway Road, Kachigam, Daman-396215



MISSION

To be a full service company supplying quality injection moulded components to our customers. To offer all related services such as tool designing, tool manufacturing, welding, printing a

ALLIED INSTRUMENTS GROUP

ed group of companies was started in 1962 by Mr. Amarjit Singh Marwaha a pioneer in the field of plastic parts manufacture.

Allied has four main business activities: Manufacturing of drawing instruments, office and school stationery items under the brand name "OMEGA". Manufacturing industrial components as an OEM supplier. Exporting plastics moulded finished and semi finished products and plastic injection moulds. Manufacturing high quality plastic injection moulds. From its very inception the philosophy of the group has been to excel in each selected field. With a well-planned strategy, progressive thinking, hard work and uncompromising quality standard the group has carved a solid reputation in the global arena.

LIBA ENTERPRISE

Liba Enterprise was established in 1994 to cater to the demands from our customers to provide greater value addition to the plastic moulding process.

Liba today offers full services through integrated facilities of part design, tool design, mould manufacture, part production and assembly and printing services. Our tool room is equipped with the latest CNC Machines from Europe and Japan with the capability of making moulds upto 3 tons. Our injection moulding facilities are equipped to make parts from less than 1 gram to 1000 grams. We are suppliers of moulds and parts to more than 35 countries in America, Europe, Asia, Africa and Australia.



Mould Work Concept



INTERACTIVE AND APPROVAL STAGES

MOULDING PROCESS TECHNOLOGY

Our 40 years experience in the industry along with the use of the most sophisticated equipments allow us to meet most challenging assignments. We use the latest closed loop Micro Processor based machines from L&T Demag and Engel, which give superior and consistent quality. We also have high-speed machines and an all-electric machine for thin wall moulding applications. These machines ensure low rejection and high productivity. We provide cost effective solutions, which enhance customer profits.

We are one of the pioneering companies in India to use hot runners and robots. We have been using hot runners since 1977 and have built over 200 moulds using hot runners. We do not shy away from the use of SPMs and have developed in-house high speed printing machines, which are capable of printing upto 1500 impression per hour. We have a full printing department using silk-screen printing with UV Curing closed cup pad printing upto 500mm length, hot stamping and roll foil printing. We have an ultra sonic welding department with machines from 1000 watts to 2000 watts and can undertake complex and critical jobs. Our highly skilled assembly team can take up any challenge presented to it.



QUALITY ASSURANCE

Our commitment has been to manufacture best quality products. For this we follow statistical process control and quality control systems. Besides this we also follow customer specific quality standards to ensure that the customer always receives products that meet his specification.

We believe in the principles of total quality management. This policy is followed at every stage by using standard operating process and procedures. Our team of Engineers are there to fulfill the most stringent conditions required by our customers.



System 3R



DMG 70 V hi-dyn Machining center



Sodick Wire Cut



Makino Edge 3S Sparking Machine

ENGINEERING DESIGN SERVICES

Liba offers a single window service from product design to part production. Work begins by understanding the customer requirements. We carry out feasibility studies to identify the best solution for your product.

Advance 3-D CAD/CAM systems are used for design work. Our vast experience and know-how is brought together to the design process. We can predict minimum cycle times at the design stage itself, thereby having a better control on the cost estimation process.

TOOL & DIE MANUFACTURE

We use the latest generation of high-end machines from Germany & Japan. For machining we use high speed machines from DMG and MAKINO with spindle speeds of 18,000 rpm and 20,000 rpm respectively. New concepts such as HSM are a reality for us. This give us better control on accuracy and surface finish. In addition we are able to cut hard steel and difficult to cut materials such as titanium with ease.



Makino S 56 Vertical Machining Center

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Our CNC EDM is equipped with HQSF (High Quality Surface Finish) technology. This virtually eliminates the need for hand finishing thereby increasing the accuracy of the tool. We employ large size wire EDM most situated for Mould and Die production.

Having all machines in-house enables us to do the job faster, thereby meeting tight deadlines.

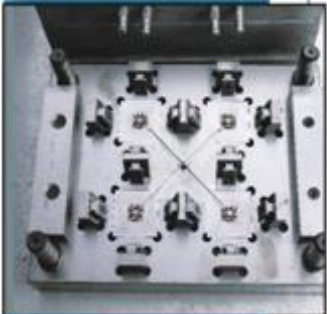
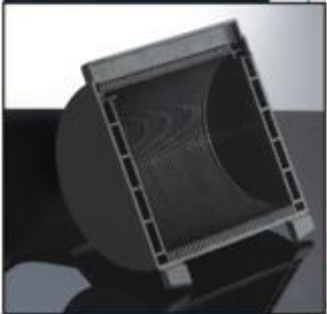
Our dedication team of designs engineers and

with supervisors employ the best practices in the industry with detailed process charts ensuring that no small detail is missed out. Inspection is carried out at every stage thereby eliminating errors, which can delay projects and prove costly in the long run.

With customers in USA, Canada, France and Germany we can switch easily between metric and inch specifications.

LIBA

Art to Part



Our Moulding Specialization includes :

- Transparent Part Moulding
- Hot Runner Moulds
- Thin Wall Moulding
- Auto Unscrewing Moulds
- Precision Plastic Components
- Complex Profiles and Fits

We Process :

ABS, Nylon 6, Nylon 66,
PBT, Noryl-POM, PC-
filled and unfilled

Additional Services :

- Printing
- Decoration
- Welding
- Assembly



LIBA

Art to Part

Our Moulds Specialization :

Injection Moulds
Compression Moulds
Blow Moulds
Die Casting Moulds

We are specialized in :

Electrical & Electronic
Moulds
White Goods Moulds
Consumer Goods Moulds
Automotive Moulds
Packaging
Stationery

Quality Assurance :

All steel purchased only
from certified vendors

Heat Treatment certificates
available to customers

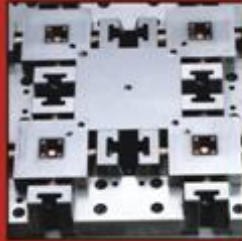
Tryouts and Proving



ALLIED INSTRUMENTS PVT. LTD			
TOOL ROOM			
A. LIST OF MACHINES			
SR NO	DESCRIPTION	MAKE	S.
1	HIGH SPEED VMC (18,000RPM) DMC 70V	DECKEL MAHO	1
2	HIGH SPEED VMC (20,000 RPM)S56	MAKINO	1
3	HASS VF 5XT	Hass	1
4	HASS VF 2	Hass	1
5	CNC EDM-Makino EDGE3S	MAKINO	1
6	SPARK EROSION MAHINE (EDM)	ELECTRONICA	1
7	TOOL PRE SETTER	HAIMER	1
8	SHRINK FIT	HAIMER	1
9	SHRINK FIT	MST CORPORATION	1
10	3D TESTER	HAIMER	1
11	HARDNESS TESTER (PORTEBLE)	INDIA	1
12	ALL JAPANESE MEASURING INSTRUMENTS		
13	SURFACE GRINDER	OKAMOTO	1
14	SURFACE GRINDING	AVRO	1
15	SURFACE GRINDING	ABA	1
16	TURRET MILLINGT M/C WITH DRO	CHEVALIER	1
17	LATHE MACHINE	KIRLOSKAR	1
18	RADIAL DRILLING MACHINE	VR 4	1
19	RADIAL DRILLING MACHINE	YOSHIDA	1
20	LATHE - LOCAL MARKERS		1
21	BENCH GRINDER		1
22	CRANE		8
B	CAD/CAM		
1	2D SOFTWARE	Auto cad	
2	3D SOFTWARE	UG, Solid woks, Power Shape	
3	MOULD FLOW	Mouldex 3D	
4	PROGRAMMING SOFTWARE	Delcam	
C	ACTIVITIES		
1	MANUFACTURING of plasitic Injection moulds (LARGEST 1150X675X950MM)		
2	SERVICING OF MOULDS		
3	CURRENTLY PRODUCING 150-175 MOULDS PER ANNUM		
INDUSTRIES SERVED			
1	FIBER OPTICS/5G INDUSTRIES		
2	REERIGATION INDUSTRY		
3	WRITING INSTRUMENTS		
4	ELECTRICALLY OPERATED APPLIANCES		
5	ELECTRIC PANEL METER INDUSTRY		
6	FURNITURE		
7	APPLICANCES		
8	CHAIR		
9	PHOTOGRAPHY		
10	ELECTRIC & ELECTRONIC INDUSTRY		
11	MEASURING INSTRUMENT		
12	LABORATORY WARE		
13	AUTOMOBILE		
	ETC.		

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LIBA ENTERPRISE

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