About us

Hi-Tech was formed on the principles of providing the highest quality injection molded plastics and sheet metal products at a very reasonable price. Hi-Tech is a leading manufacturer of all sizes of plastic and sheet metal parts for all types of industries.

We take pride in the best technical support to our customers with our world-class engineering team.

We are a one-stop shop to all your mechanical design and manufacturing needs. Our primary customers are: Research and development institutions Electrical and mechanical product design companies Injection molding companies Mechanical design/consulting companies Original equipment manufacturers (OEM)

Our mission

We will provide the lowest cost manufacturing solutions for all your plastic and metal needs without compromising quality. Our world-class manufacturing facilities in Far East will provide you top quality products. We are unique in the fact that we have both state of the art technical expertise and extensive management experience. We can help enhance your designs as well as provide you with the excellent strategic and tactical advice for the growth of your business and profits.

Future prospects

It is imperative that we continue to advance in our technology and human resources to ensure continuing providing the highest quality products. We constantly work on employing technically advanced personnel and machines to fulfill all your future needs. We are also working on securing TS-14969 certifications that would become an industry standard from 2006 onward.

“customer satisfaction

HI-TECH INDUSTRIAL (USA), INC.
n-house tool design

We combine the best tool making craftsmanship with today's technology to provide our customers with the most precise tools at a very reasonable price.

- Over 50 highly trained and skilled tooling as well as management engineers
- Over 120 certified mold makers
- Ability to handle wide range of materials from aluminum through P20 into harden S-7 and H-13 steel
- Manufacturing of export grade hardened injection molds (HRC 50-54)
- Mold maintained at no additional cost to our customers
- Rapid engineering changes
- Prototype mold making facility using aluminum and epoxy
- Expertise in Co-injection molds using various material grades
- Average lead time for tooling is 6 weeks
- Integrated tool design with hot runner systems and stack molds

In year 2002 alone, we manufactured over 375 molds of all different sizes for 20T to 2,10T injection presses in the areas of telecommunication, consumer electronics, office automation, automotive, medical, sound & music, house hold, and many more. In 2002 alone, Over 125 Export Grade molds supplied to our customers worldwide.

is our main goal

http://www.hitechusainc.com
INJECTION MOLDING AND MOLD MAKING

Engineering

Our engineering department is fully equipped with the state-of-the-art computers with CAD/CAM/CAE/FEA. Our facility has Unigraphics, SolidWorks, Pro-Engineer, P-Beas, Auto-CAD, MasterCAM software to handle all your tool design and analysis requirements.

- In house Mold Flow™ Analysis
- Capable of reading and converting 3D data files from any design software (no need to generate drawings)
- Capable of reading IGES, DFX, Universal, STL, etc. in addition to the native files

Concurrent Engineering

Our engineering team has been trained to actively participate on the regular basis to discuss with our customers

- Project Status
- Product design and propose cost effective solutions
- Analyze for various materials to cut costs
- Or just provide comments that will further improve the mold design and molded parts quality

"A true partnership begins with us"
Prototype making

As part of our commitment to provide the complete one-stop shop for all your manufacturing needs, we have developed an extensive in-house facility for producing all your prototype requirements.

A prototype would be necessary to prevent a major modifications in the harden production tools. TIME AND COST SAVINGS

- Silicon Soft Tooling
- CNC Operation
- Aluminum Tooling
- Cast Urethane Soft Tooling
- Epoxy Molds

Production

In the last fourteen years, our technical team has designed and built over 3,300 molds for consumer electronics, electrical, medical and automotive industries and inject over 15 million parts annually.

Every activity from plastic part design to production molding to final assembly is performed in house with guaranteed quality assurance. Our team is trained to provide the highest standards for every part we produce.

- Over 36 injection molding machines ranging from 20T to 450T
- Straight and foam injection
- Molding in virtually all engineering plastics and thermoplastics
- Multi-shot molding and overmolding
- Molding parts up to 40 oz.
- 7-day, 24-hour operation
- Insert & Cavity molding
- Quick change dies with dow point indicator
- Just-in-time manufacturing

A complete one-stop shop for all your manufacturing needs with ISO9001 quality standards

http://www.hitechusainc.com
INJECTION MOLDING AND MOLD MAKING

Quality control

We aggressively prevent defects in all of our processes through:

- Extensive control and monitoring of moisture, mold and melt temperature, injection speed, parts consistency and other processing control parameters
- Continuous quality control with SPC and process control charts
- Minimum target Cpk of 1.33
- In-process quality control of resins for color and melt flow rate (MFR) consistency
- Establishing process capability before production commencement
- ISO 9001 certified since 1996

Secondary operations

Our cost effective subassembly operations include:

- Ultrasonic welding & inserting
- Heat Staking & Inserting
- Spray painting (conventional and soft touch)
- Soldering (SMT & ESD)
- Turnkey integration and subcontracting
- Multicolor pad printing
- Multicolor silk screening
- Hot Stamping
- Bending & Gluing
- Mechanical operations
- Part assembly

“Hi-Tech understands that the best way to save time is by doing the job right the first time”

HI-TECH INDUSTRIAL (U.S.A.), INC.
Metal stamping & dies

As part of complete product development commitments to our valued customers, we provide a complete metal stamping and die making in-house. We also provide all the secondary operations including a complete automated painting shop, silk-screen and pad printing facilities.

Tool design

TOOL-DESIGN TEAM WITH AVERAGE EXPERIENCE OF 5 YEARS & ABOVE. ADVANCED CAD/CAM SYSTEM CAPABLE OF READING IGES, SOLID WORKS, DXF, DWG FILES.

Tool fabrication

Total strength of 40 tool makers
- Average tool lead-time of 4 weeks
- Precision and long-life hardened tools
- Expert in progressive & large single die
- Newly designed and built state of the art over 250,000 sq. Ft. Facility

IN THE LAST 15 YEARS, WE HAVE DESIGNED & BUILT OVER 5000 STAGE & PROGRESSIVE DIES FOR CONSUMER ELECTRONICS, COMPUTER ACCESSORIES, OFFICE AUTOMATION AND CONSTRUCTION EQUIPMENTS.

http://www.hitechusainc.com
Metal stamping

Manual and Progressive stamping
Over 50 sets of high precision power presses
Stamping in virtually all alloys - mild steel, stainless steel, Aluminum, copper alloys & various pre-plated alloys.

Secondary operations

- Anneal Treatment
- Multi-head tapping
- Riveting
- Arc Welding
- Spot Welding
- Polishing
- Silk-screen printing
- Electro-plating
- Heat-tire Brushing
- Part assembly

We provide a complete metal stamping and various Secondary operations in-house.
Quality control

Our primary goal and focus is to provide highest quality standards, we aggressively prevent defects from all our processes through:

- Advanced and precision measuring equipment.
- Extensive control and monitoring during production.
- Continuous quality control with spec and pre-control charts.
- Minimum targeted cpk of 1.33.
- Continuous upgrading of equipment and training of our employees for zero-defect products.

Sheet Metal prototyping & CNC press brakes, CNC Turret punching machine with 360 Rotation head:

- Short runs of 1 to 500 quantity without spending on tooling.
- Aid in production design and final tool design.
- For smaller quantities and less demanding requirements.
- Capable of producing high precision bending.
- Simplifying the complex structural design.
- Considerable shorter lead-time and cost savings.

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The latest addition in our line of operations, Hi-Tech has recently added several assembly lines for all of your contract manufacturing, assembly production and distribution needs. Whether you want quick turnaround on prototypes, manual assembly of low-volume specialty items, or high-volume automated production, trust Hi-Tech’s solutions expertise to effectively serve your company.

Hi-Tech would be ideal suited for all your assembly requirements as we are capable of producing all your plastic and metal needs under one roof. Quality is woven into everything we do at Hi-Tech. ISO 9001 certified since 1996, Hi-Tech employs stringent process documentation and testing standards ensuring we produce the highest quality products.

Top companies use strategic outsourcing to succeed in today’s competitive global industries. Let Hi-Tech take the cost out of manufacturing and add value while your company focuses on its core competencies.