

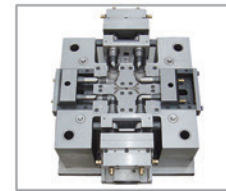
XIAMEN STICK INDUSTRY CO.,LTD

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» Mission Statement

- 1) We strive to be a reliable and responsible supplier of cost effective and high quality products to our Customers.
- 2) We strive to provide a motivating, safe and rewarding environment for our Employees.
- 3) We strive to be recognized as a professionally managed Engineering Services and Die Cast/Plastic Mold Manufacturing Factory.
- 4) We strive to maintain mutually beneficial relationships with our Suppliers.
- 5) We strive to contribute to the improvement of our technical, business and public Communities.



CQC-1509001 质量认证



COMPANY INTRODUCTIONS

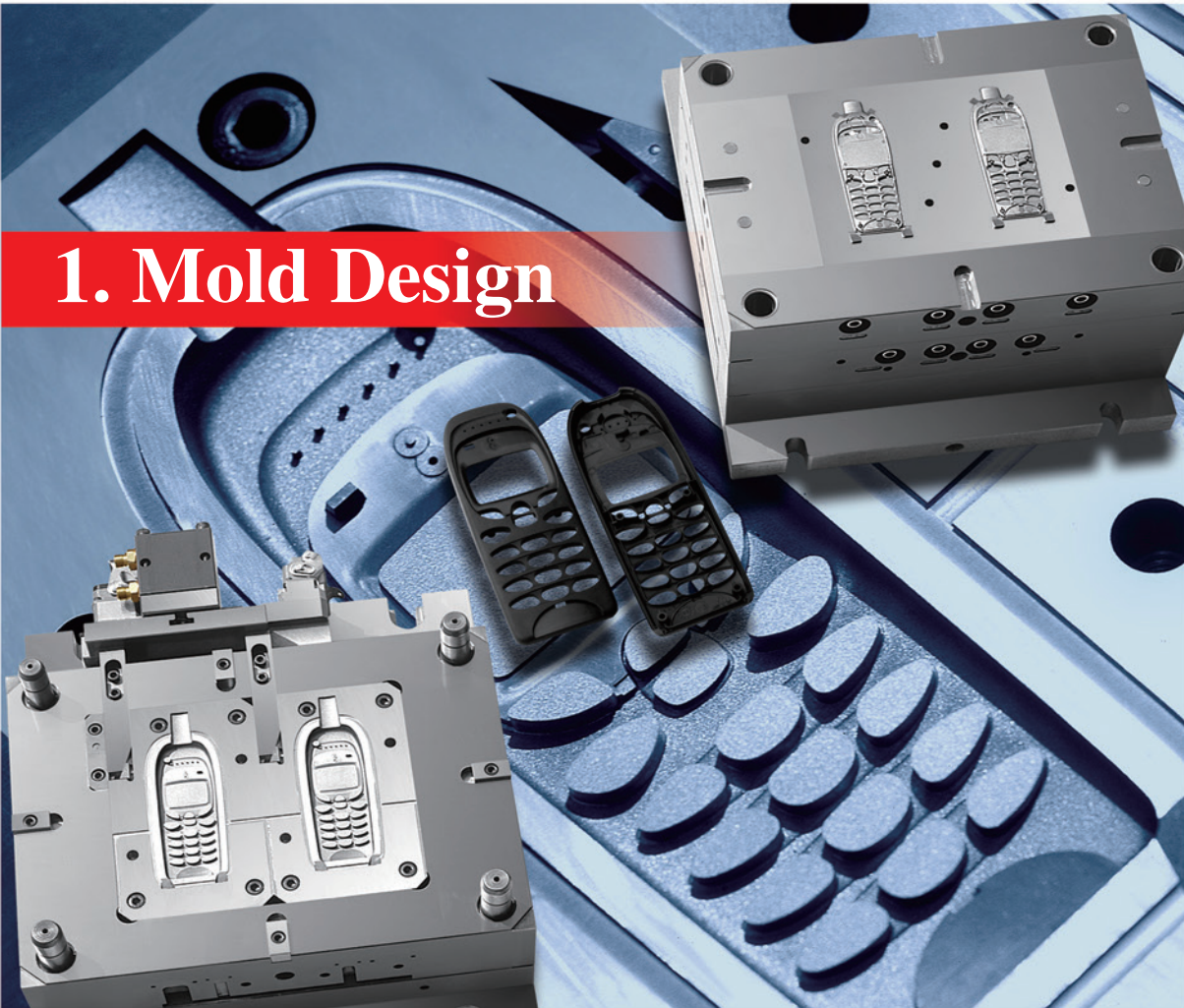
Stick Industry was established in 2004, with factory located in Hai Cang district, Xiamen city, South East of China. The company has been in business for over 10 years, beginning as a small plastic mold and die casting mold workshop growing into an industrial leading, multi-plant molder with factory size over 10000 square meters and employees about 150.

Conveniently located in the south of China, our ISO 9001-2000 Certified facility economically services markets throughout the world including USA, Russia, Canada, Mexico, Brazil, Germany, Spain, Italy, Poland etc

From concept to final production, from mechanical and electronic design to components sourcing, and from prototype manufacturing to mold design, our engineer team can jump in at any stage to complete your valuable project on time.

Our service include: Molds, Plastic Injection Molding, Zinc Die Casting, Aluminum Die Casting, CNC Machining, Sheet Metal Forming, Surface Treatments, Assembly and packaging.



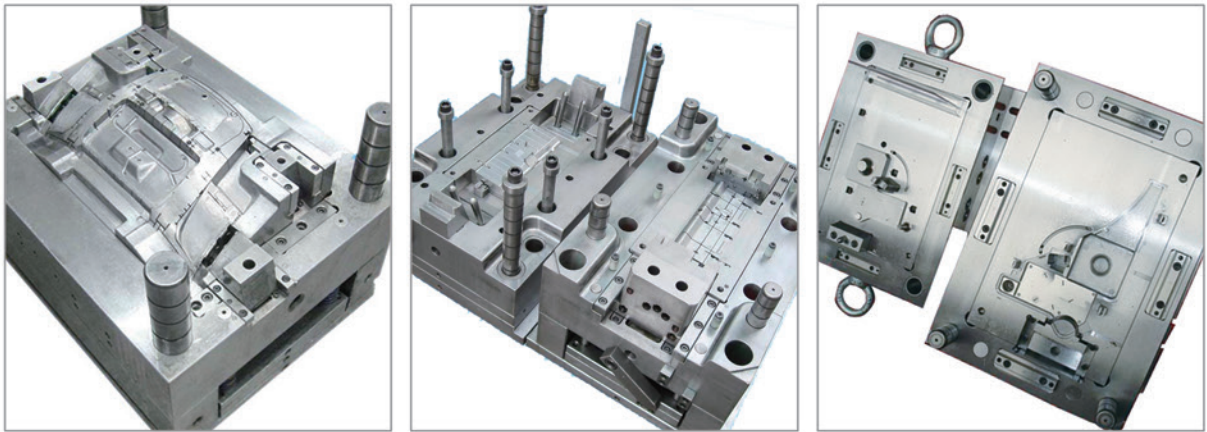


Mold standard	HASCO,DME,JIS,CHINA LKM
Mold base	LKM & Hasco & DME standard
Material main core and cavity insert	P20,718,718H,S136,420ESR,NAK80,SKD61,8407,H13
Hardness of steel	46~56HRC
Cavity	Single-cavity ,Multi-cavity
Surface Finish	EDM & High Polish
Gate	Cold runner, DME/HASCO Hot runner
Maximum mold size	1500mm(L)*1300mm(W)
Mold life time	500000~+1,000,000 shots
Quality	ISO9001-2000 certification
Product material	PA,PA6/6+GF,ABS,POM,PC,PP,PET,TPE,PVC,HDPE etc
Lead time	4~7 Weeks
Package	Wooden/Plywood case for tool ,PE bags and export carton for parts
Export country	Europe, USA, Mexico, Russia, Australia ,Middle-east ,Asia etc
Value-added service	Polish, texture, painting, screen printing

» Mold Design And Export

Over the years, STK has designed and exported hundreds of different plastic injection and die casting molds. Whether you require a basic mold or a complex mold, we have the skills and experience to design your mold accurately and on time.

Designing molds for manufacturability ensures our customers receive tooling that consistently produces high quality parts, always meeting their highest expectations. Our expertise in mold construction enables us to provide our customers with tools designed for maximum production efficiency, yielding molded products at competitive prices. Through efficient mold designs, we are able to provide clients with low maintenance molds, promoting greater tool longevity.

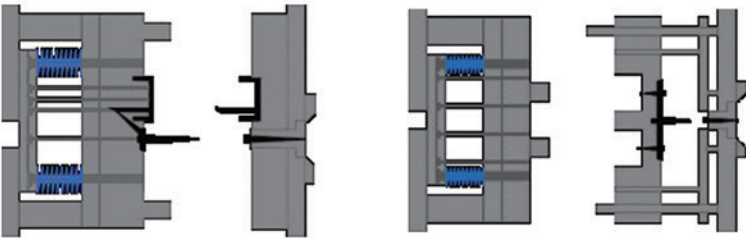


» Mold Design

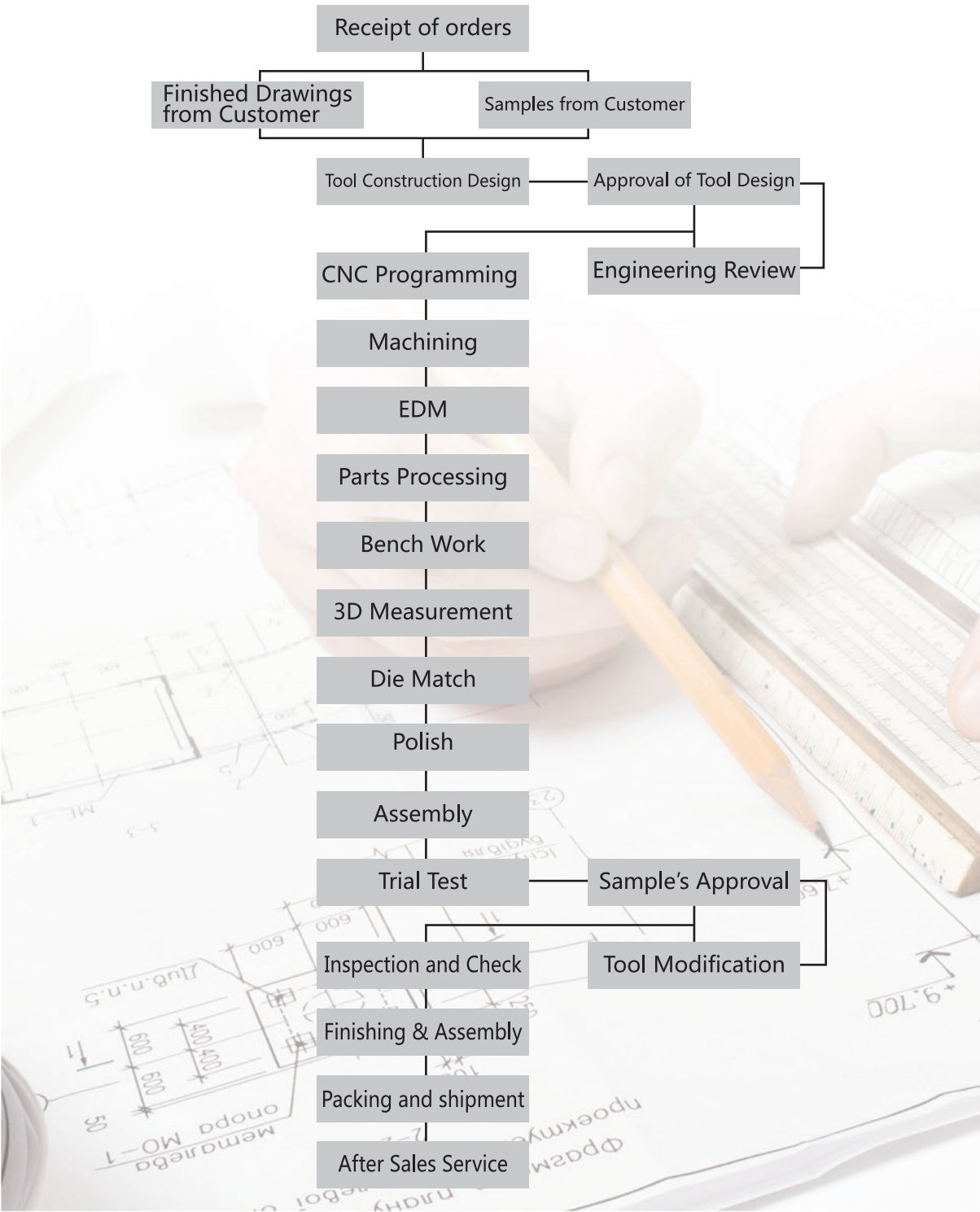
The high quality mold is the core business of STK .we have 10 special mold designers, who have rich experience in plastic properties and mold structure. Before designing start, our designers will run Mold Flow Analysis and attend a technical meet for each mold with tool Dept. and injection Dept. to avoid potential manufacture problem and trouble shoot. All of this is the strong guarantee of our high quality and short lead time

» Industrial Design

For providing better service for our customer and improving our competitiveness, we built a special team to focus on industrial design in 2011, we are committed to helping our clients shorten the development cycle, reduce the production cost. Since STK have rich experience on mold building and injection,We can easily provide one stop OEM service, also provide separate service : Industrial Design; Appearance Design; Product Structure Design, Mold Design etc

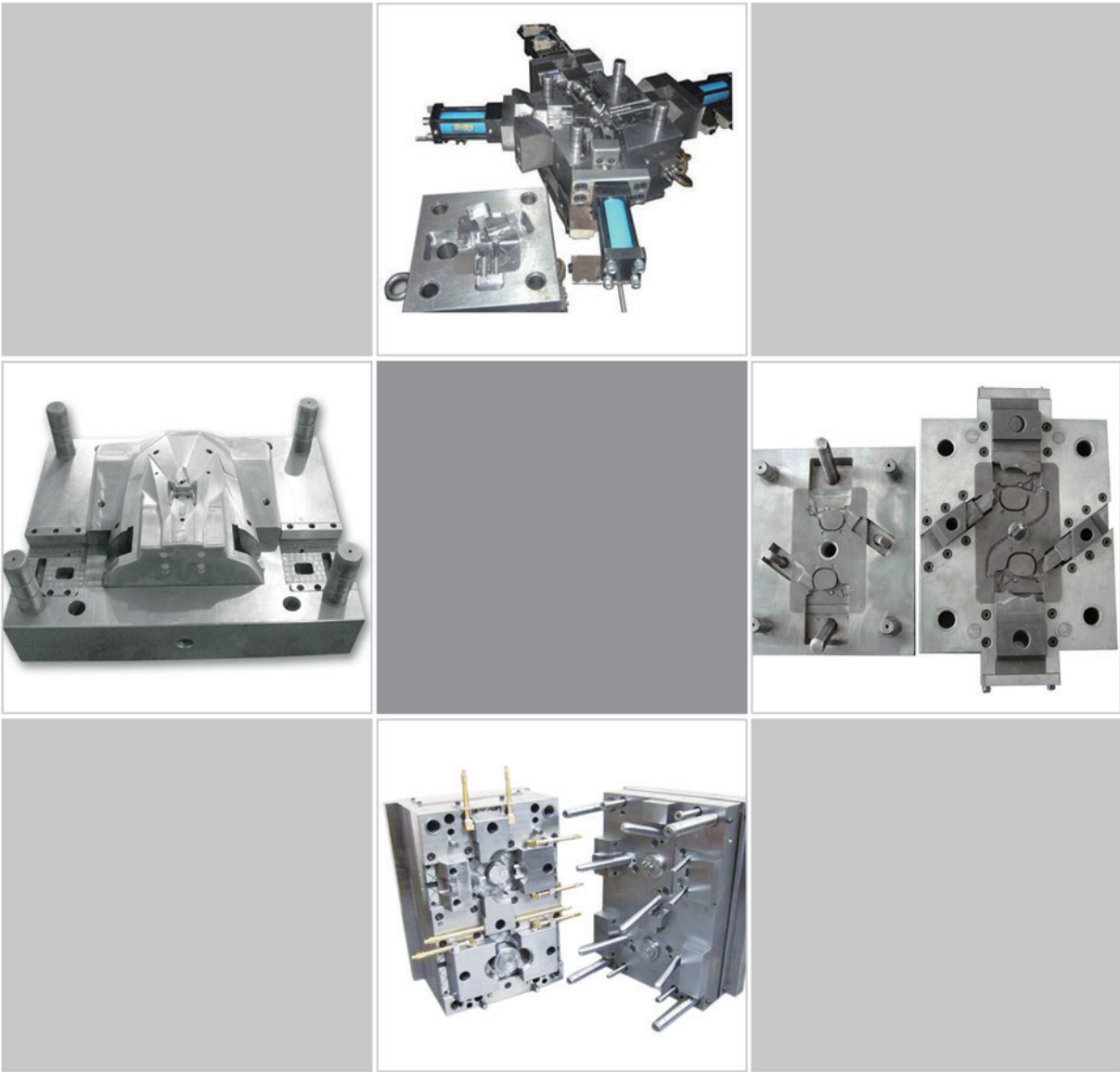


» Order Process For Mold



» Equipment List

Equipment	QTY	Origin
CNC Machine Center	5SETS	Taiwan/Japan
EDM	6SETS	China
EDM Mirror	1SET	Japan
Wire Cutting	5SETS	Taiwan
Grinding Machine	3SETS	China
Milling Machine	10SETS	China
Drilling Machine	15SETS	China





2. Plastic Injection Molding

» Injection Molding Capability

1. Material: PA, PA6, PA+FG ,ABS, flame-resistant ABS, POM, PC, PS, PP, PVC, TPR, TPU, TPE, HDPE, PMMA etc
2. Mold Cavity: Single or multi-cavities
3. Mold base: LKM or Equivalent standard mold base
4. Core Steel: NAK 80 prehardened steel, 718, 718H, P20,S136 etc.
5. Surface Finish: chrome plating, silk-printing, Laser etching, texture, color painting etc.
6. Injection Machine Size: 40 sets range from 80T To 1400T
7. Max Mould Size: 1500× 1300mm
8. Product Weight: Per piece range from 0.1 gram to 10000 grams
9. Tooling Lead time: 3 weeks to 7 weeks
10. Production Lead time: 2 weeks to 4 weeks
11. Mold Life: 50000 shots to 500000 shots



» Plastic Injection Solution

We offer total manufacturing solutions for precision injection molding, from design consultancy and prototype tooling through to high-volume world-class production. Our parts are widely used from across a range of sectors, including industrial, autos, electronics, and medical.

Our main production area is equipped with 40 molding machines of various sizes, ranging from 80 tons to 1400 tons clamping pressure. This provides us with the capability to mold shot weights from 0.1 gram to over 10000 grams with flexible production runs.

Technical Skills - Development, Design skills

- Design Consultation and Assistance
- CAD/CAM/CAE including Solid Works (TM) and mold flow analysis
- Material Selection Assistance
- Quick turn-around prototype support
- Secondary Operations including machining, welding and assembly

Molding - High precision, High Concern

- Plastic Decorating: In-Mold Decorating (in-mold labeling), pad printing and hot stamping
- 40 molding machines from 80 tons to 1400 tons
- High precision molding from medical to fiber optics components

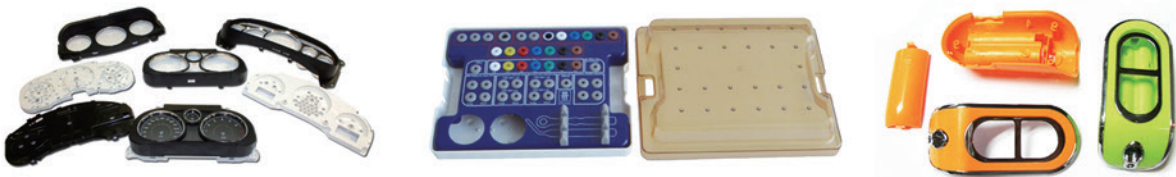
Secondary Operations – Value Added Service

- Pad printing
- Sonic Welding
- Assembly and packaging



» Plastic Materials Applied

Material name	Features	Applications
PP	Lightweight, heat resistance, high chemical resistance, scratch resistance, natural waxy appearance, tough and stiff, low cost.	Automotive (bumpers, covers, trim), bottles, caps, crates, handles, housings
POM	Strong, rigid, excellent fatigue resistance, excellent creep resistance, chemical resistance, moisture resistance, naturally opaque white, low/medium cost	Bearings, cams, gears, handles, plumbing components, rollers, rotors, slide guides, valves
PC	Very tough, temperature resistance, dimensional stability, transparent, high cost	Automotive (panels, lenses, consoles), bottles, containers, housings, light covers, reflectors, safety helmets and shields
PS	Tough, very high chemical resistance, clear, very high cost	Valves
ABS	Strong, flexible, low mold shrinkage (tight tolerances), chemical resistance, electroplating capability, naturally opaque, low/medium cost	Automotive (consoles, panels, trim, vents), boxes, gauges, housings, toys
PA6	High strength, fatigue resistance, chemical resistance, low creep, low friction, almost opaque/white, medium/high cost	Bearings, bushings, gears, rollers, wheels
PA6/6	High strength, fatigue resistance, chemical resistance, low creep, low friction, almost opaque/white, medium/high cost	Handles, levers, small housings, zip ties
PBT, PET	Rigid, heat resistance, chemical resistance, medium/high cost	Automotive (filters, handles, pumps), bearings, cams, electrical components (connectors, sensors), gears, housings, rollers, switches, valves
PVC	Tough, flexible, flame resistance, transparent or opaque, low cost	Electrical insulation, housewares, medical tubing, shoe soles, toys
HDPE	Tough and stiff, excellent chemical resistance, natural waxy appearance, low cost	Chair seats, housings, covers, and containers
PMMA	Rigid, brittle, scratch resistant, transparent, optical clarity, low/medium cost	Display stands, knobs, lenses, light housings, panels, reflectors, signs, shelves, trays



3. Zinc Die Casting

» Zinc Die Casting Solution

For the manufacture of your zinc die casting parts requirements, Stick Industry offers the cost-saving advantage. STK produces both big and small precision \ zinc die cast components for a wide variety of market applications,including lock hardware, Furniture parts, Machine&Equipment parts, Door & Window Hardware, Bathroom accessory, Auto parts, and so on.

At STK, all zinc die casting tooling is designed and built in-house to meet both the customer's and STK's own exacting standards.

Molds Created On-Site

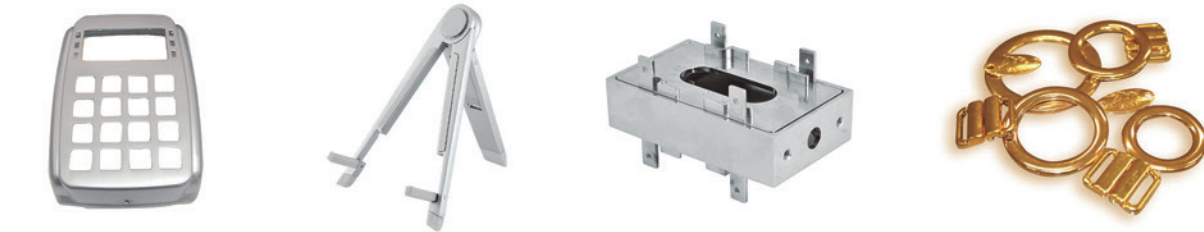
- In addition to die-casting, Stick Industry is a full-service mold manufacturing facility offering in-house tooling design and production. Where most die-casting facilities only offer mold repair, Stick Industry can create a custom mold on-site, and then simply transfer that mold to the die-casting area.
- Stick Industry is capable to obtain the relevant data to produce molds and product samples according to the latest 3D solid model and a simple sketch or a sample part.
- Plus, we use the most modern multi-axis CNC machine tools for optimum precision and accuracy in tooling.

Production Capabilities

- Automated equipment can handle high volume casting jobs of up to 100,000 pieces per week
- Manual machines for low volume jobs of as little as 500 pieces per year
- Can cast from 0.02 to 5kgs
- Single to Multiple Cavities
- 6 Sets of hot chamber die casting machines range from 88 tons to 280 Tons
- Most zinc die casting alloys are offered such as Zamak 2, Zamak 3, Zamak 5, Zamak 7, ZA8, ZA27 etc
- Specializing in Small, Big, Complex, Precision components



EQUIPMENT LIST	CAPACITY	QTY
HOT CHAMBER DIE CASTING MACHINE	88 TONS	2 SETS
HOT CHAMBER DIE CASTING MACHINE	160 TONS	2 SETS
HOT CHAMBER DIE CASTING MACHINE	200 TONS	1 SET
HOT CHAMBER DIE CASTING MACHINE	280 TONS	1 SET
CNC LATHE MACHINE		10 SETS
MILLING MACHINE		8 SETS
DRILLING MACHINE		20 SETS
TAPPING MACHINE		10 SETS
VIBRATE POLISH MACHINE		3 SETS
SAND BLASTING MACHINE		1 SET
POLISHING MACHINE		30 SETS
CHROME PLATING LINE	NICKLE,CHROME(MATT/BRIGHT)	3 LINES



» Alloy Composition

ZINC	%	Zamak2	Zamak3	Zamak5	Zamak7	ZA8	ZA27
	Aluminum	3.5-4.3	3.5-4.3	3.5-4.3	3.5-4.3	8.0-8.8	25.0-28.0
	Copper	2.5-3.0	2.5 max	0.75-1.25	2.5 max	0.8-1.3	2.0-2.5
	Magnesium	0.02-0.05	0.02-0.05	0.03-0.08	0.005-0.02	0.015-0.03	0.01-0.02
	Iron(max)	0.1	0.1	0.1	0.075	0.075	0.075
	Lead(max)	0.005	0.005	0.005	0.003	0.006	0.006
	Cadmium(max)	0.004	0.004	0.004	0.002	0.006	0.006
	Tin(max)	0.003	0.003	0.003	0.001	0.003	0.003
	Nickel	—	—	—	0.005-0.02	—	—
	Others	—	—	—	—	—	—
	Zinc	remainder	remainder	remainder	remainder	remainder	remainder



» Alloy Characteristics

PERFORMANCE RATING: BEST ● ● ● ● ● LEAST						
	Zamak2	Zamak3	Zamak5	Zamak7	ZA8	ZA27
Resistance to Hot Cracking	●	●	●	●	●	●
Pressure Tightness	●	●	●	●	●	●
Casting Ease	●	●	●	●	●	●
Part Complexity	●	●	●	●	●	●
Dimensional Accuracy	●	●	●	●	●	●
Dimensional Stability	●	●	●	●	●	●
Corrosion Resistance	●	●	●	●	●	●
Resistance to Cold Defects	●	●	●	●	●	●
Machining Ease & Quality	●	●	●	●	●	●
Polishing Ease & Quality	●	●	●	●	●	●
Electroplating Ease & Quality	●	●	●	●	●	●
Anodizing (Protection)	●	●	●	●	●	●
Chemical Coating(Protection)	●	●	●	●	●	●



4. Aluminum Die Casting



Production Capabilities

- Automated equipment can handle high volume casting jobs of up to 100,000 pieces per week
- Manual machines for low volume jobs of as little as 500 pieces per year
- Can cast from 0.02 to 10kgs
- Single to Multiple Cavities
- Most aluminum die casting alloys are offered such as ADC10 , ADC12, A380, 383, B390 (YL117), YL112, YL104
- 10 die casting and gravity casting lines, each with an individual aluminum furnace-this allows us to cast multiple alloys each day
- 7 Sets of cold chamber die casting machines range from 125 tons to 800 Tons, 3 sets of gravity machines

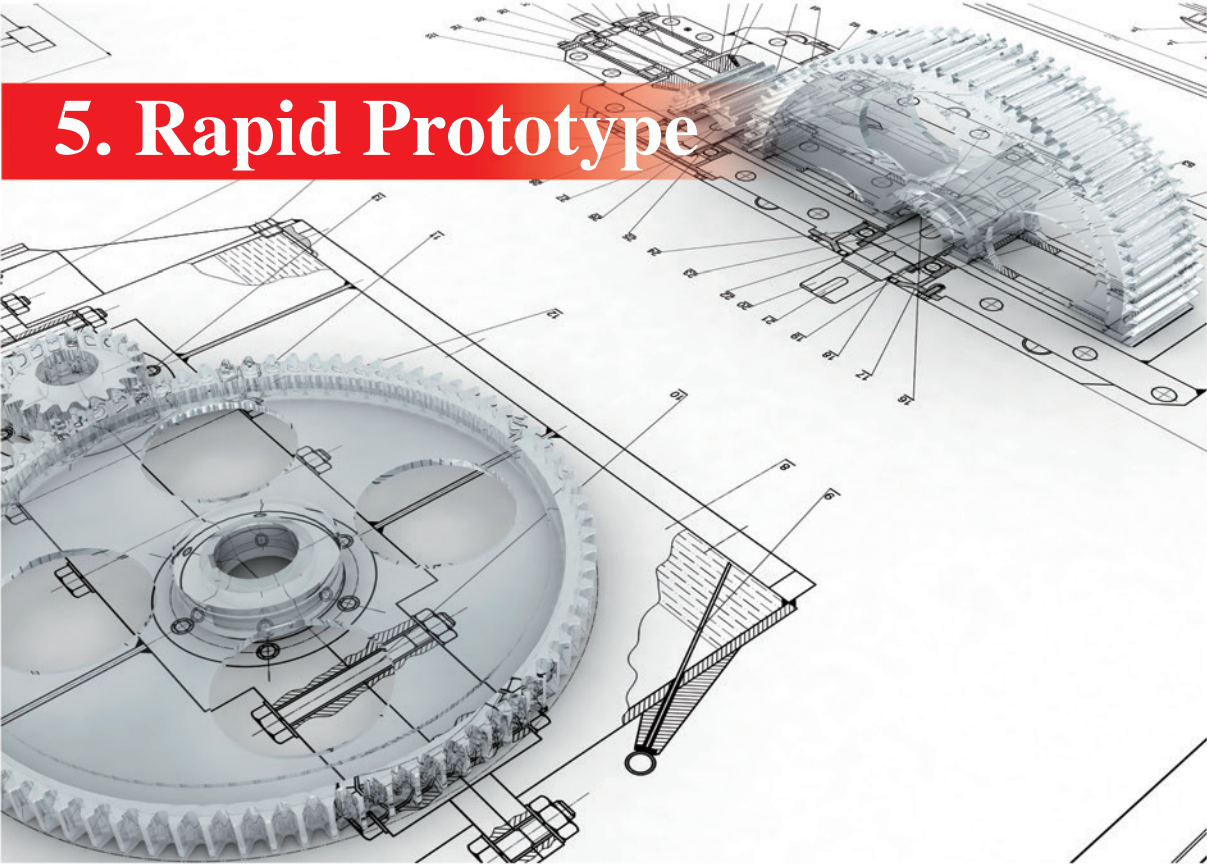
Tooling Leadtime	4-7 weeks
Tooling Lifetime	50000 shots to 500000 shots
Weight per unit	Can cast from 0.02 to 10kgs per piece
Tolerance	+/-0.05mm (secondary machining is available for tight tolerance)
Materials Applied	ADC10 , ADC12, A380, 383, B390 (YL117), YL112, YL104
Surface Finish	Shot blasting Parting line removal Chrome Plating Powder coating Painting Anodizing Passivation E-coating T-coating



» Aluminum Die Casting Solution

Aluminum die casting alloys are lightweight while possessing high dimensional stability for complex shapes and thin walls. Aluminum has good corrosion resistance and mechanical properties, high thermal and electrical conductivity, as well as strength at high temperatures.

EQUIPMENT LIST	CAPACITY	QTY
COLD CHAMBER DIE CASTING MACHINE	125 TONS	2 SETS
COLD CHAMBER DIE CASTING MACHINE	250 TONS	2 SETS
COLD CHAMBER DIE CASTING MACHINE	350 TONS	1 SET
COLD CHAMBER DIE CASTING MACHINE	650 TONS	1 SET
COLD CHAMBER DIE CASTING MACHINE	800 TONS	1 SET
GRAVITY MACHINE	750mm*630mm	3 SETS



5. Rapid Prototype

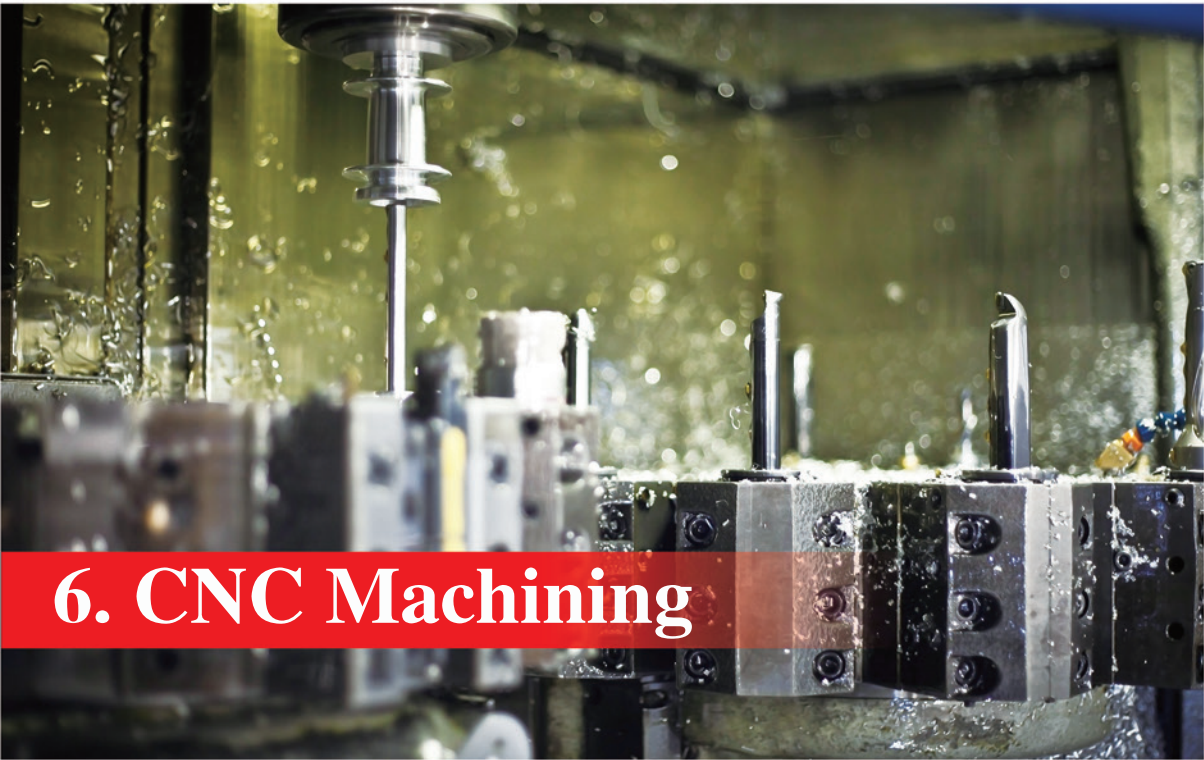
Whether you need a highly accurate machined prototype for a functional test, a large prototype for a customer presentation, or a short-run of finished parts, Stick Industry has the expertise, hands-on experience, and capacity to get the job done.

» Following is our detailed service for CNC Model and Quick Prototype

- A. Rapid prototyping making(SLA, SLS, FDM)
- B. CNC prototype manufacturing
- C. Rapid silicone mold and vacuum casting
- D. Aluminum parts machining
- E. Industrial Design



Materials	ABS, POM, PP, PC, PE, PA(Nylon), PA+GF, PVC,PBT,ABS+PC, Aluminum, Brass, Copper and Steels etc
Lead time	3-7 days
Surface Finish	Polish, transparent surface, painting, Silk-screen printing, anodizing, electroplating etc
Served Industry	1. Electronic, digital camera , DVD/VCD ,MP3/MP4 , hair dryer, LED light case and so on 2. Medical devices, Ultrasound scanner case, Digital Ultrasonic Diagnostic Imaging case, and etc 3. Telecommunications, micro speaker, phone case, computer, video and etc 4. Auto parts, like dashboard, car lamp, bar, Automobile and motorcycle 5. Household appliance, Rice cooker, Air conditioner, Coffee cooker, TV etc.



6. CNC Machining

» CNC Machining

Stick Industry makes the highest quality machining and turning parts for a wide variety of industrial, automotive and computer applications. We are specializing in Precision Mirror EDM parts, Wire Cutting metal parts, CNC Machining metal parts and Precision Grinding components for easy and complex metal parts to prints.

Stick Industry' s production line features state-of-art CNC production / inspection equipment from Europe, US & Japan. Currently, you'll find over 50 sets of precise CNC lathes, CNC processing centers as well as other top-notch CNC machineries.



Materials	Stainless Steel	SS201, SS303, SS304, SS316 etc.
	Steel	Q235, 20#, 45# etc.
	Brass	C36000 (C26800), C37700 (HPb59), C38500(HPb58), C27200(CuZn37) , C28000(CuZn40)
	Iron	1213, 12L14,1215 etc.
	Aluminum	AL6061, AL6063,AL7075,AL5052 etc
	Plastic	ABS, PC, PVC, PE, Nylon, POM, Teflon, PP etc
Finishes	Anodized, electroplated, polishing, coating, zinc plated, E-coating, heat-treatment, hardening, painting and more	
Tolerance	0.01mm	
Service	CNC machining, CNC milling and turning, drilling, grinding, bending, stamping, tapping etc	



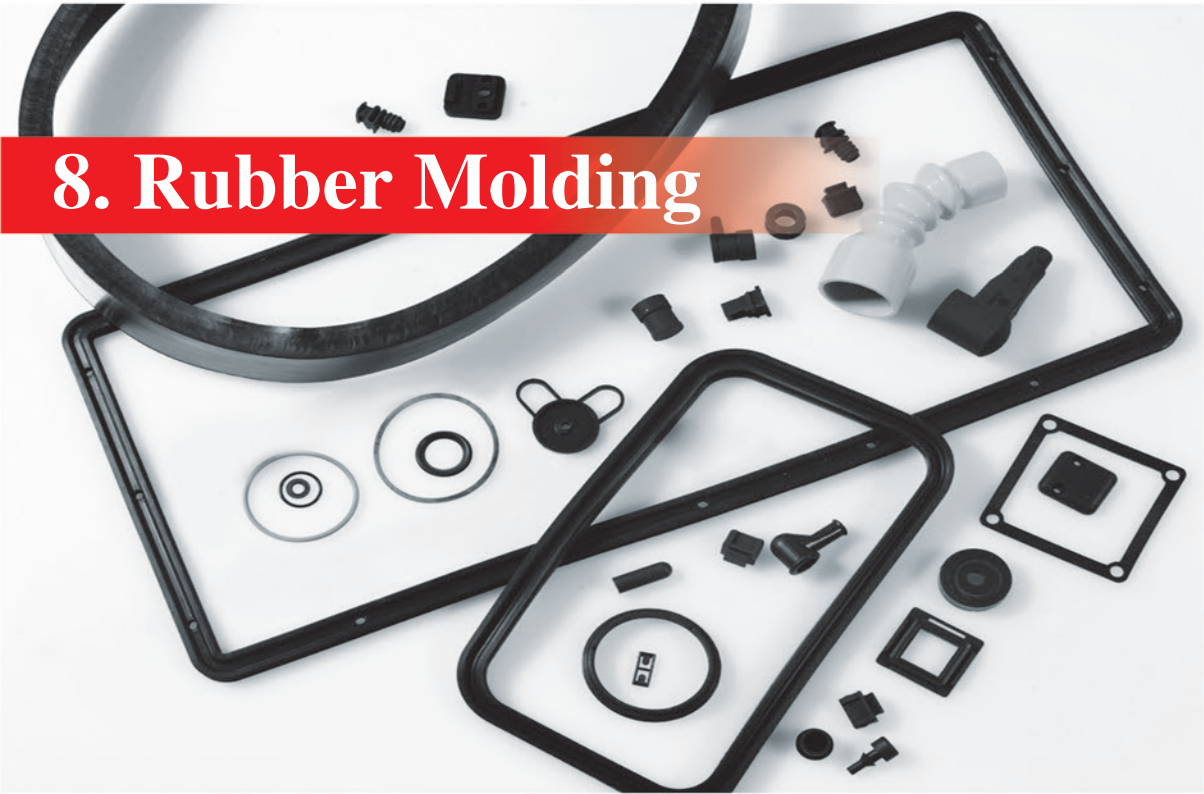
7. Metal Stamping

» Metal Stamping Solution

Our full-service metal stamping & metal fabrications workshop truly offers a full spectrum of metal stamping options. We have small punch presses for small precision metal stamping. Our large punch presses are for more complex metal stamping services. The combined experience of our metal stamping professionals ensures that we can complete stampings in almost any industry.



Materials	Carbon steel, Cold Rolled Steel, Stainless steel, Spring Steel, Bronze, Brass, Copper Alloy, Aluminum alloy, Plastic etc
Surface Treatment	zinc/nickel/chrome plating, Galvanization, Anodizing, Oil spraying, Powder Coating, Polishing, Passivation,E-coating, Hot-dip Galvanizing
Metal Processing	Punching, cutting, bending, pressing, forming, welding / bonding, riveting, grinding, lettering, components Assembly
Stamping Tonnage	10-350 Tons
Lead Time	3-5 weeks for tooling; 2-4 weeks for mass production



8. Rubber Molding

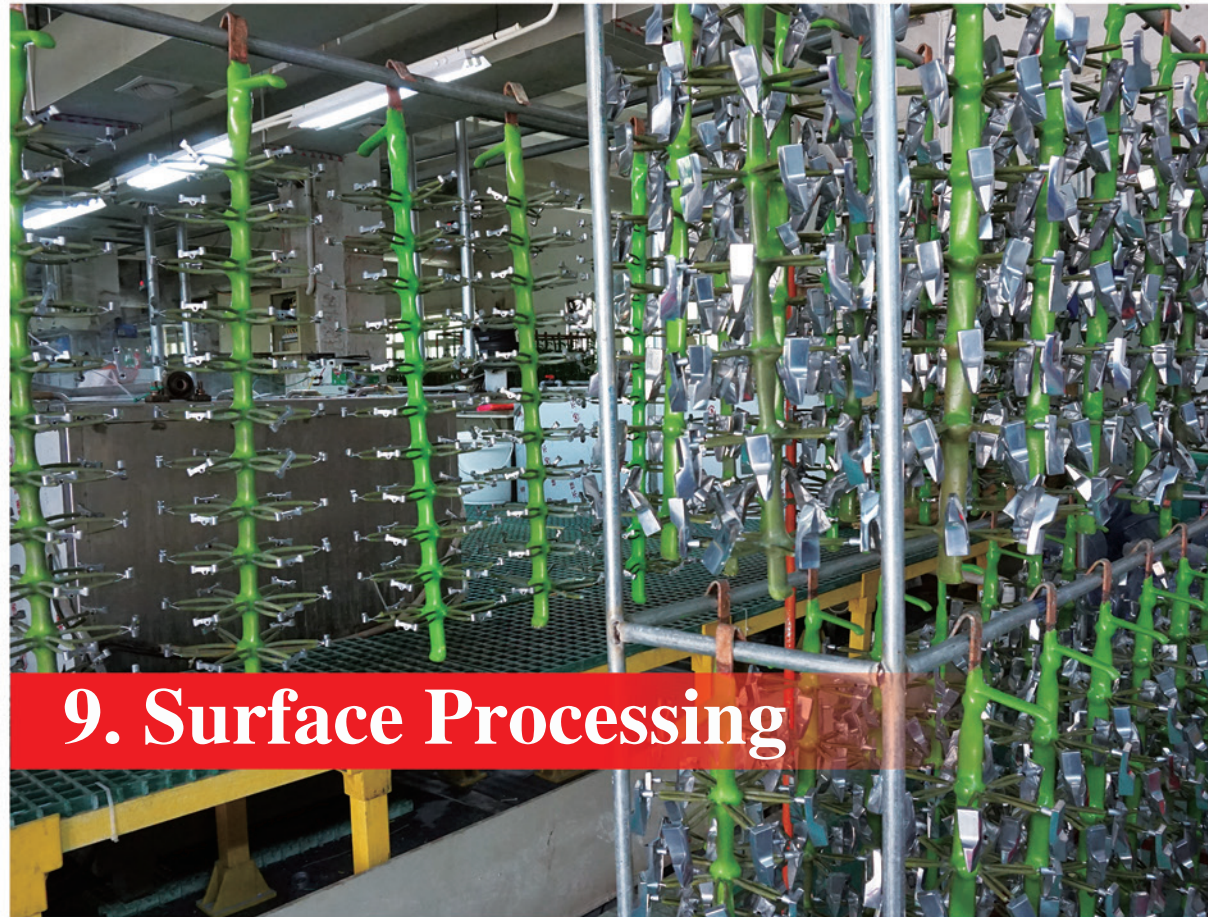
» Rubber Molding Solution

STK specializes in designing and manufacturing rubber o-rings, rubber seals, rubber gaskets, silicon keypads and other custom made rubber parts to serve most industrial markets, especially in automotive, electrical appliances and petrochemical valves & pumps industries etc.



We promise that all of the materials such as NBR,SBR,NR,EPDM are environmental friendly
And also up to the standard of EU Rosh, or FDA approved.

Materials	Natural rubber, silicone, Viton, EPDM, Nitrile, Neoprene, NBR, SBR, IR, Neoprene, SBR
Finish Treatment	Color painting, silk-printing, Laser etching, texture and more are available
Applied Industry	automotive, electrical, building, furniture, machine assembly, computer components, air industry
Service Provided	Rubber Injection Molding Rubber Transfer Molding Rubber Compression Molding Rubber to Metal Molding



9. Surface Processing

We have our own plating workshop equipped with 3 operation lines for below platings:

- Bright Chrome Plating
- Matt Chrome Plating
- Nickle plating
- Golden plating

