



## All In One

Victor, New Edge Of Aluminum



Service

Let  
us  
talk  
about

## the Aluminum in Victor Aluminum



In manufacturing, most manufacturers focus on a certain part of the value chain and make it excellent.

But Victor Aluminum selected to establish all processes under one roof.

### Forming

Die-casting, Stamping, MIM\*, Extrusion\*

Etching

Bending

### Machining:

CNC machining, Specialized High-Speed drilling, Turning, High gloss Milling, Turning-CNC

Injection molding

### Surface finishing (Texture)

Hairline, Beadblasting, Grinding, Polishing (Auto & Manual)

Laser Welding

### Surface finishing:

Anodizing, ED, Wet-Paint, Passivation Powder coating\*, PVD\*

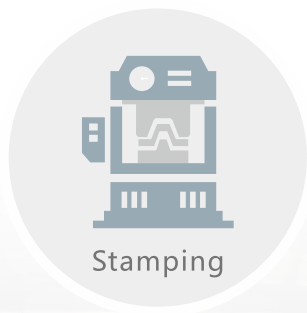
### Other

Printing, Diamond-Cut, Laser etching

\*Outsourcing

# Main Process:

# Forming



# Die-casting



Victor has been supporting top-brand customers in the industry for many years and has accumulated a lot of experience in dimension control and surface finishing.

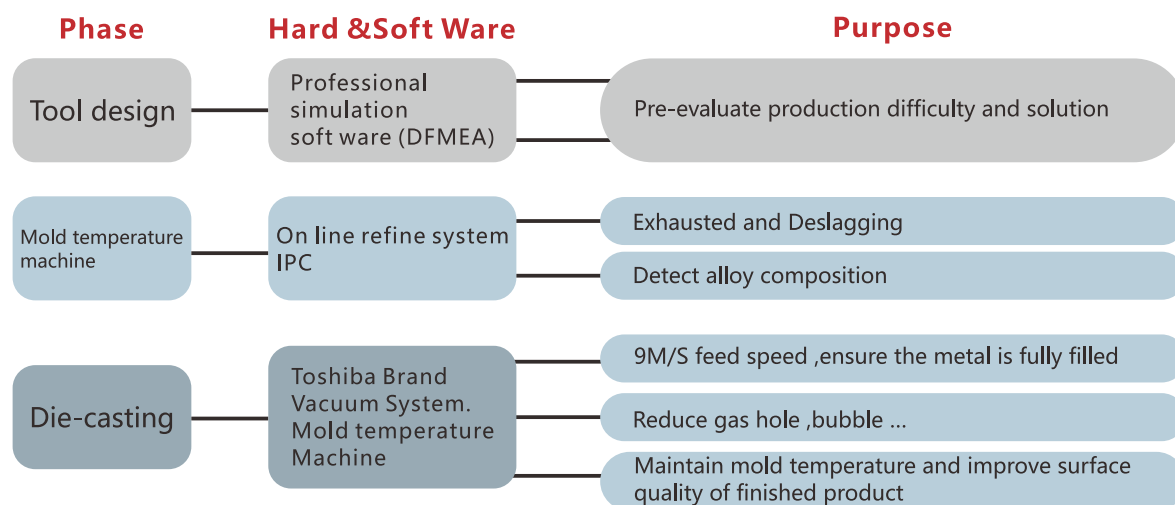
R&D capability is the key competence for a company to survive. Victor has been committed to the development of materials and successfully developed a series of high thermal conductivity and high strength materials, and introduced into mass production.

As customer demand requested , 1x800-ton machines were added last year, expanding the product range.

Type	Brand	Tons	Qty	
Die-casting	Yizumi	180T	1	Aluminum
Die-casting	Toshiba	250T	1	Aluminum
Die-casting	Toshiba	350T	2	Aluminum
Die-casting	LK	500T	4	Aluminum
Die-casting	LK	800T	1	Aluminum
Die-casting	LK	160T	2	Zinc

The following table shows the mechanical properties of different grades of aluminum alloys.

Brand	Tensile strength	Yield strength	Hardness	Density	Thermal conductivity	Electric conductivity	anti-corossion	Nano injection
ADC12	≥228	≥154	≥74HB	2.73/cm3	96W/m.K		≥12h salt spray	OK
ZL03	≥300	≥200	≥85HV	2.60/cm3	≥120W/m.K	Better than ADC12	≥24h salt spray	OK
ZL05	≥370	≥260	≥100HV	2.65/cm3	≥110W/m.K	Better than ADC12	≥12h salt spray	OK
ZL06-1	≥260	≥160	≥85HV	≈2.73/cm3	≥170W/m.K	Better than ADC12	≥12h salt spray	OK
ZL07	≥260	≥120	≥70HB	≈2.68/cm3	≥150W/m.K	Better than ADC12	≥12h salt spray	OK



# Stamping



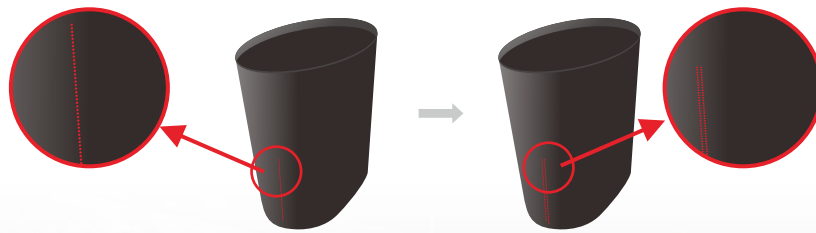
Since its establishment, Victor has been equipped with experienced and skilled technicians to break through the technical bottleneck of the industry, achieve and realize customer design time to time.

The cone formed from thin aluminum plate with continuously in multiple stations;

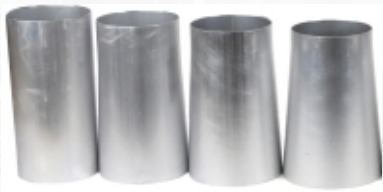
Perforated tube is stretched and expanded into cone shape grill.

Punching is common, but punching multiple rows of holes on a curved surface is challenging.

Formed 20 different features in one mold, will definitely be amazing .



From single to multi.



From round to Cone



Progressive to thin cone

### Machines

Brand	Tons	Type	Qty
Aida	300T	Servo	1
Jinli	300T	Oil pressure	2
Jinli	220T	Oil pressure	2
Jinli	160T	Oil pressure	4
Xieyi	110T	Cylinder	12



# Machining

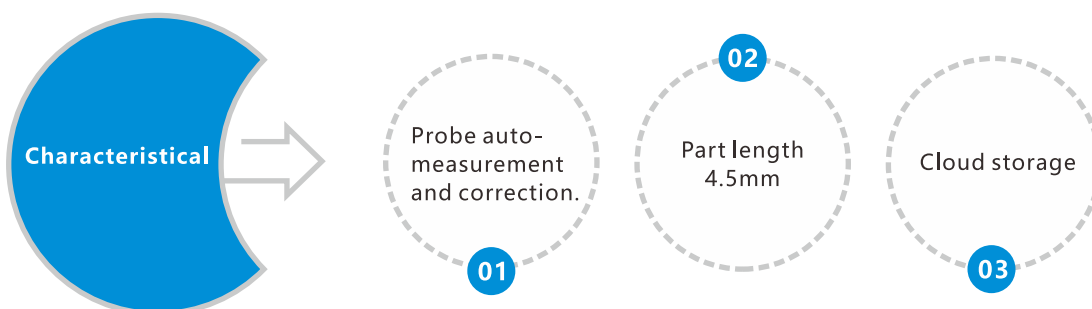
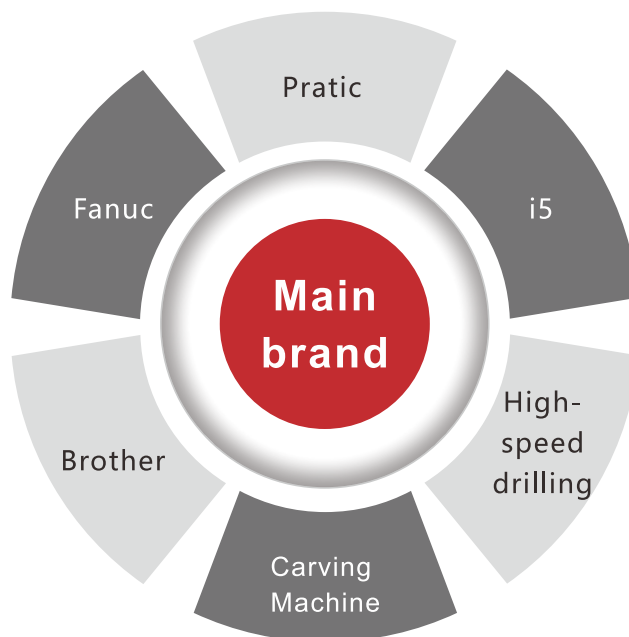


Victor accumulated a lot of valuable technology and experience in the processing of thin-walled cavities and irregular product sizes.

In order to understand the intention of the customer's design, Victor team continuous worked 3 days and nights, interpreting the spirit of hard work and self-improvement.

Machines include CNC from Fanuc, Brother and Pratic, and turning-milling, multi-spindle high speed drilling machines ,and engraving machines.

The machine is equipped with automatic probe measurement and deviation correction ,which greatly guarantees the accuracy of the dimension .



# Surface Pre-finishing

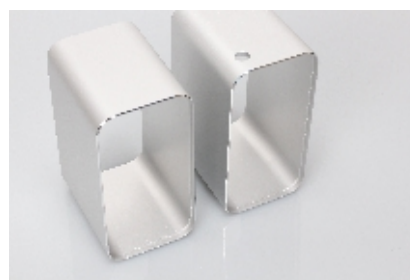
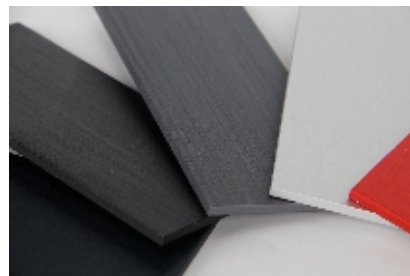


Safety is the lifeline of an enterprise. Victor has made great efforts in employee protection . The grinding workshop is equipped with a dust removal and ventilation system to escort the safety of employees .

The automatic polishing and 5-axis automatic grinding are definitely contributed to efficiency.

Victor is always pursuing for excellent quality of the product .

Auto-bead blasting	Manual bead blasting	Auto Hairline	Manual hairline	Auto-polishing	Manual polishing
15	3	18	13	3	31



Multi-dimensionally present the beauty of Aluminum



# Surface Anodizing



Anodizing is the primary competence of Victor.

The fully automated anodizing production line uses the DMS system to obtain, store, manage and analyze various relevant data information in the anodizing treatment production.

It can produce 20 colors in the same time, and the part can be as small as button and as large as 3.8m in length .

The first-class equipment, the first -class management process, and the first-class technical team have made the first-class products.

Victor has been working hard to present the technological beauty of aluminum to the society .



# Surface Electrophoresis

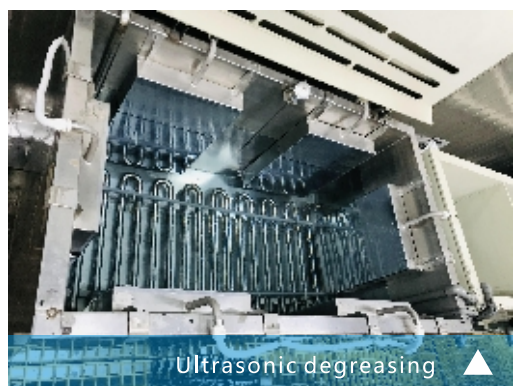


Electrophoresis was first applied to automobile primers by Ford Motor Company. Due to its excellent anti-corrosion and anti-rust capability, it was soon widely used in the military industry .

How about the electrophoresis line in Victor

1. Using water-soluble paint, water as the dissolving medium, high penetration rate ,high paint utilization rate ,and low paint loss .
2. Strong adhesion ,strong anti-corrosion ability ,can meet 1000H salt spray test .
3. With the industry's advanced ultra-pure water system, the water quality reaches 2us/cm. Equipped with ultra-pure water system, better stable production quality .
4. The anolyte system can better maintain the working parameters of the paint solution and ensure the normal operation of electrophoresis .
- 5.The ultrafiltration circulation system reduces the loss of electrophoretic paint and stabilizes electrophoretic production .

Victor is currently developing camera housing with customers.



# Surface Painting



Victor spraying line:

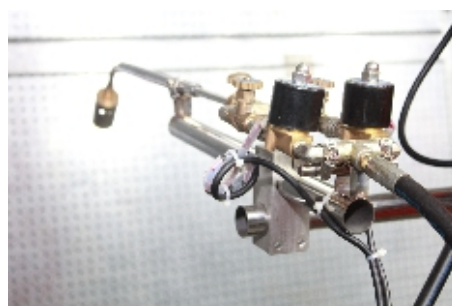
Three –coating and two-baking

Electrostatic Spinning cup

full –automatic 360-degree spraying .

Passivation improves the adhesion of the product surface.

100K level clean room, with a daily production capacity of 20K.



# Surface Chemical Etching

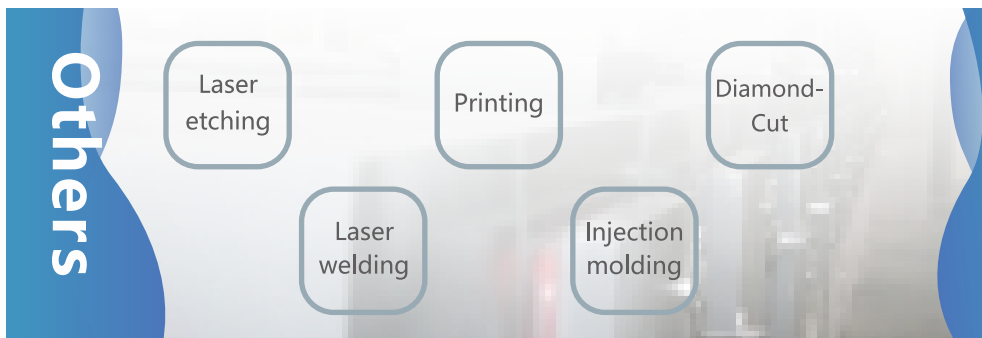
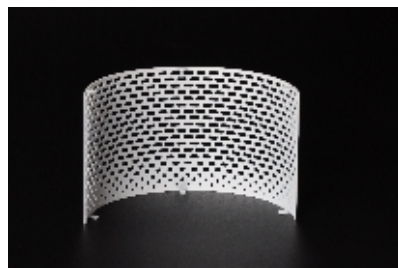


Common small hole forming include CNC high-speed drilling ,laser engraving ,punch etc.  
 But for Aluminum ,stainless steel with smaller thickness ,chemical etching is the first choice .  
 Victor Alu. has established an etching production line since 2017 .

Etching is the process of dissolving and corroding by chemical solution, and going through the six processes of cleaning –masking-exposure-development –etching-stripping to form a hollow punching effect.

Etching is suitable for materials with a thickness of 0.05~0.6mm. The accuracy of blind hole parts can be controlled within+/-0.15mm, and +/-0.3mm of through-hole.

After etching ,the product has no burrs ,no bumps ,and both sides are bright and clean. There is no external punching during the production process ,no deformation ,and high flatness.



# COMPANY PROFILE

Our company was founded in year 2000. Being a company specialized in sophisticated alloyed aluminum fabrication and high-end surface treatment, M Victor is not only refined with hands-on experiences through years of accumulation through the sector chain of precision manufacture, but also with unparalleled wealth of knowledge enriched from company operation and management process, which enables the company to offer solutions in overcoming design and production bottlenecks in high-end aluminum fabrication.

In Jiangmen High-tech industrial Park, we have invested in construction of our new cyber-physical powered Smart Plant embracing the core industry 4.0 design concept. The new plant, residing on an area of 100,000 square metres, comprising a global lab of aluminum-magnesium surface treatment and a smart CNC lab centre with its own casting house and stamping workshop, will add on a new chapter of consummate expertise to the venture of JM Victor.

## Our Mission Statement

We stand by our commitment to share the harvest and happiness with our staff and workers, create value for our customers and cultivate a company culture with a vision. This is the foundation for the sustainability and continuity of our company and our business.



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