

- 
- ❖❖❖ *Nice and Shine
-Comes our Chamfering Machine*
 - ❖❖❖ *The Right Tool for the Right Job*
 - ❖❖❖ *[In-house Library] About S/S Stamping*
 - ❖❖❖ *Standardization+Lean Production
Our Stride towards "SMART" Manufacturing*

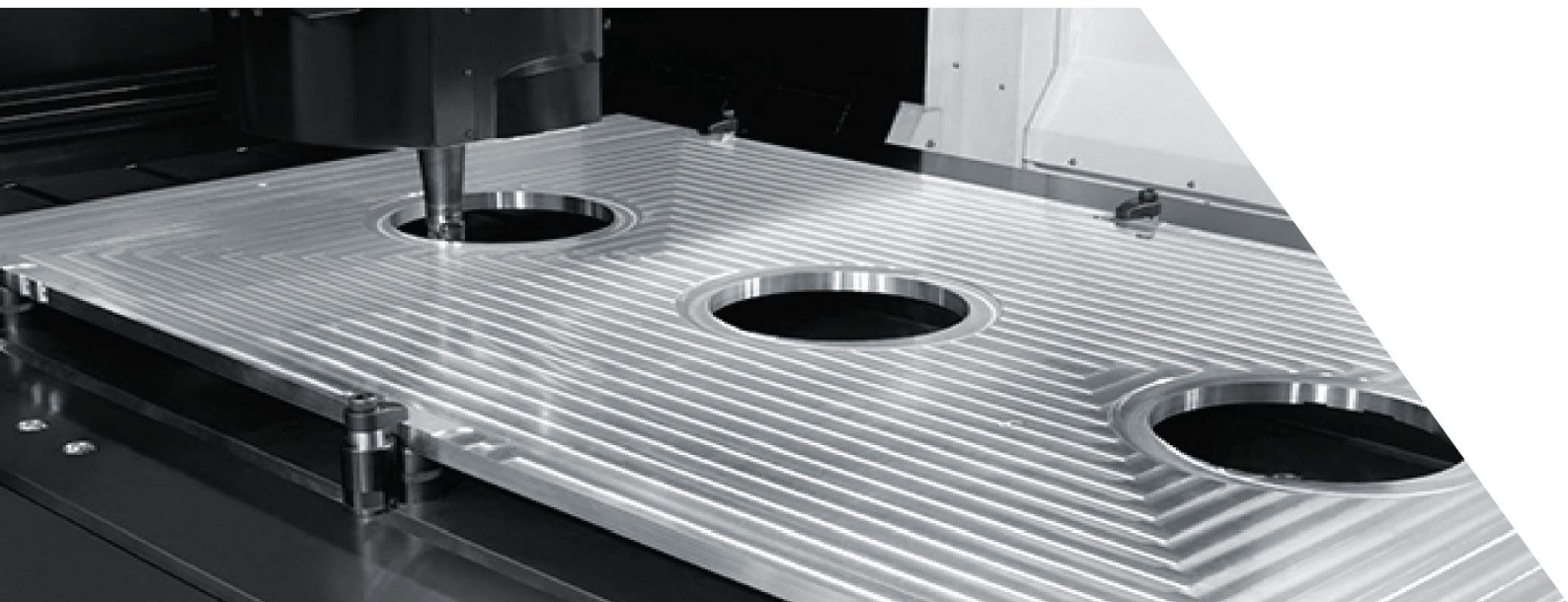
(Victor aluminum product)

Nice and Shine - Comes our Chamfering Machine

Nowadays when everything is about the “look”, the demand for exquisite appearance of the product is simply climbing. Thus, the introduction to chamfering for a high-gloss effect is just another essential tool to enhance the overall look of the product.

Chamfering Face Consistency always poses a challenge on production control for the entire process. Chamfering is usually the last step following treatments such as machining, buffing, sand-blasting, and anodizing where deformation may well inflict on the object due to clamping or fixation. Should the conventional chamfering be applied after-pre-fabrication, inconsistency face is easily noticeable.

To solve the problem, a new chamfering machine is now making Victor its home that handles lengthy part up to 2500mm. Operated in precision control by guiderails and drive-motor and paired with the sophisticated high-speed power shaft carrying complete-in-linedynamic vibration-damper technology, this machine is set for an uninterrupted and smooth operation regardless where the part is and how fast/slow the part is fed through the line. This safeguards the stability of the chamfering process.



The Right Tool for the Right Job

Casting mold, during the long work process, is subject to alternating stresses from extreme heat and mechanical force, which greatly affects its life span. Therefore, we have chosen DIEVAR, the tailor-made tooling by the Swedish Uddeholm Tooling Company. It is a premier brand of casting tooling using high-performance chromate, molybdenum, and vanadium alloy combination that effectively defies cracking due to anti-fatigue, heat wave, and heat abrasion, as well as plastic deformation, which significantly extends the tooling lifespan and enhances quality consistency of the casting parts.



DIEVAR features the following characteristics:

01

Superior toughness and yield strength

02

Excellent tempering-resistance

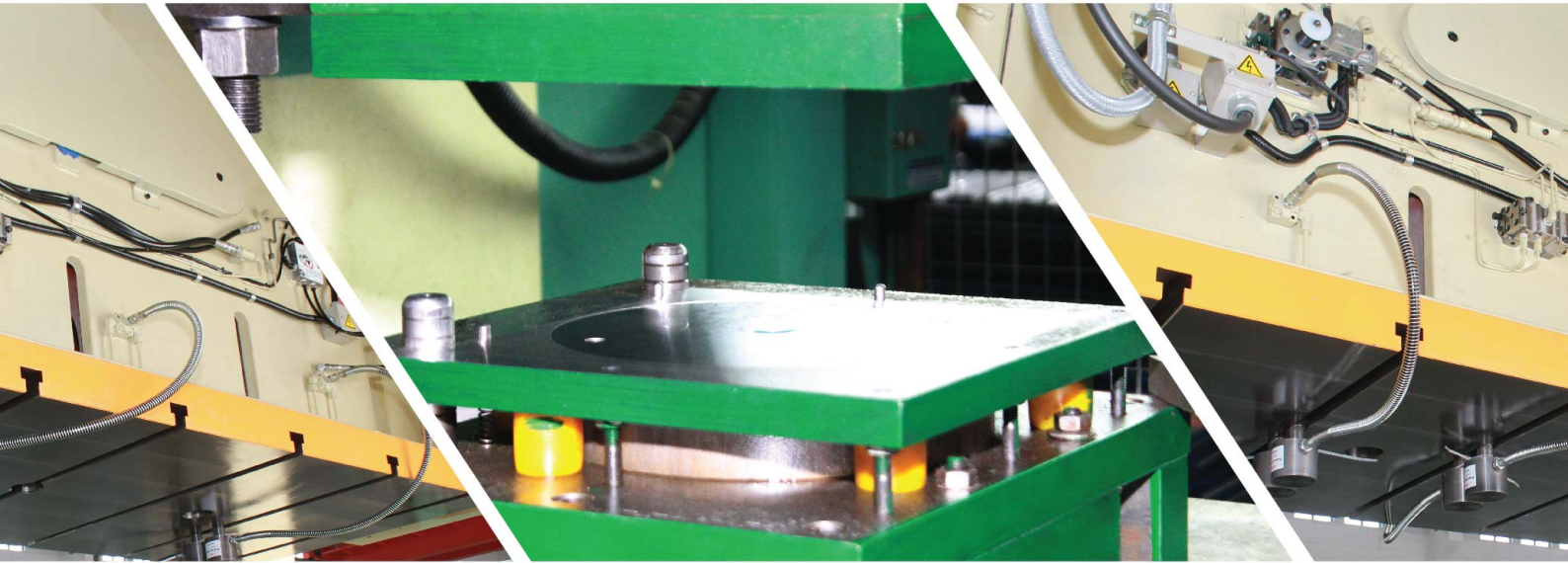
03

Ideal hardenability

04

Geometrical consistency after heat-treatment and coating

High-end alloyed aluminum coating has always been our focus. Thus, being selective on material used for tooling is not only essential in achieving desired surface quality, but also in effectively stabilizing casting surface and reducing potential cracking or deformation when working with profile designs of high complexity and high precision.



[In-house Library] About S/S Stamping

Stamping is well known for its low-cost, high productivity, and fabrication precision, which makes it a widely-used application.

Compared with alloyed aluminum, stainless steel, due to its hardness and tensile strength, requires attention to the following during stamping process:

1.spring-back – is ever-present in metal forming. Due to the hardness of S/S, springback ratio is higher than other metals. It's crucial at the tooling design stage to take into consideration of spring-back compensation to offset or minimize the issue.

2.heat treatment –stamping S/S usually require higher tensile strength. Due to its intrinsic hardness, it sometimes requires heat-treatment to reach the desired hardness property. Heat treatment, however, tends to cause deformation, where compensation on deformation needs to be calculated during tooling design.

3. choice of tooling – is critical in matching the right tooling with the right hardness of the part, as tooling wear and tear is more challenging in shaping S/S parts.

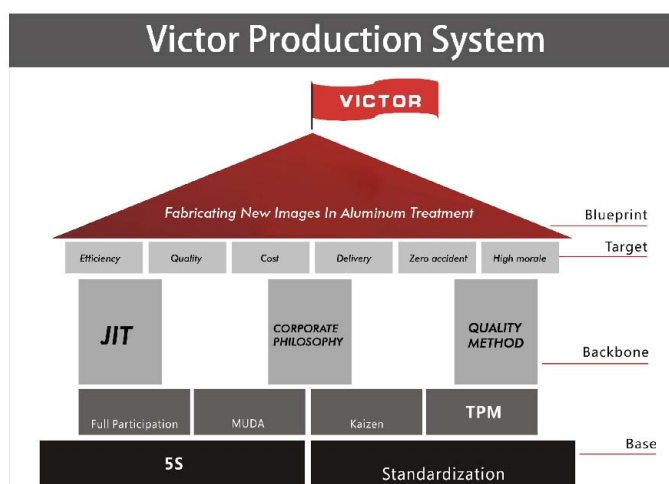


We are currently offering our customers stamping on both alloyed aluminum and S/S. In the coming September, our new workshop will be in commission hosting heavy-duty and more sophisticated stamping equipment offering more solutions for a wider array of demands from our customers.



Standardization, as one of the fundamental principles of lean production, scientifically fortifies great experiences gathered and gleaned in the organization, which allows proper access and precision application by qualified skilled-workers to ensure quality stability.

Surface quality is an immediate factor on the first impression from our customers. At Victor, each part goes through rigorous standardized manufacturing process including machining, stamping, casting, anodizing, and painting. Workers go through serial training and drills before operating in line to best protect product quality.



At Victor, we tied our technical standards, SOPs and operation manuals to the Lean Bulletin Board to enable standardized management on the entire manufacturing process while completely visible. As the SOP, the Bulletin Board is another effective tool used for Lean Production. We have been intensifying control on production process, moving forward to reshaping the entire production-sales module, optimizing a demand-enticed management process, aggressively reducing lead-time to quickly answering to any demand spur by the market.

COMPANY PROFILE

Our company was founded in year 2000. Being a company specialized in sophisticated alloyed aluminum fabrication and high-end surface treatment, JM 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 fab 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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