

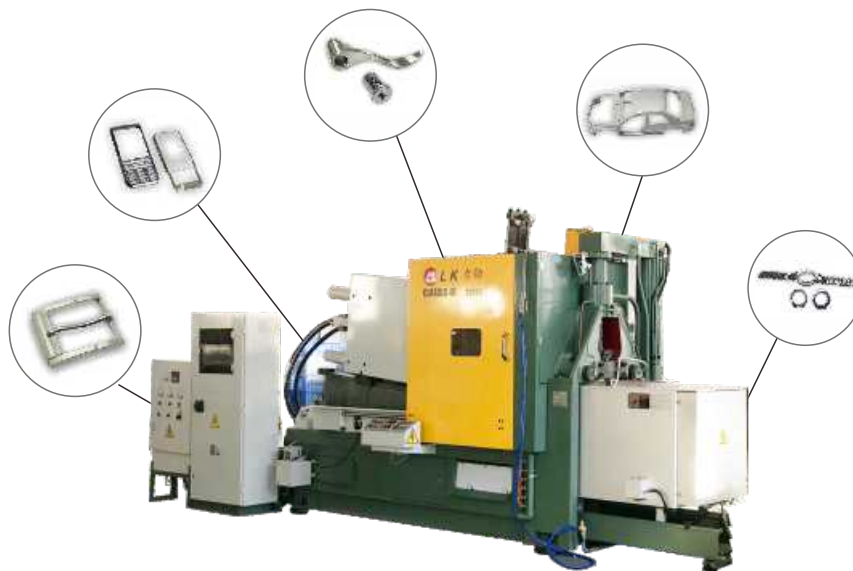


 **Zinc Alloy Die Casting**

 **Laser Welding**

 **LET Green Take the Lead in  
Company's Sustainable Growth**

# Zinc Alloy Die Casting



Zinc alloy is an alloy comprised of zinc and other elements. The common alloy elements include aluminum, copper, magnesium, cadmium, lead, titanium and other low temperature zinc alloys. The zinc alloy is of low melting point, good fluidity and is easy for fusion welding, brazing and plastic processing. It is corrosion resistant in atmosphere and its scrap and waste can be easily recovered and remelted.

The zinc alloy die castings are now widely used for decorations, such as furniture fittings, architectural ornaments, bathroom fittings, decorative lighting parts, toys, earphones, speakers and metal buckles. Thus the requirement for surface quality of castings is high and the surface treatment performance is required to be good.

Conventional zinc die cast alloys include No. 2, No. 3, No. 4, No. 5 and No. 7 alloys. The most widely used ones are No. 3 zinc alloy and high aluminum zinc-based alloys ZA-8, ZA-12 and ZA-27.

Victor Aluminum has introduced new CLASSIC-III series zinc alloy die casting machines. With mature design techniques and manufacturing processes of die casting machines, this model is a masterpiece of the precise hydraulic control technology combining modern advanced touch technology. Due to the intelligent design, it is easy to be operated and monitored, with fast and agile response, which is conducive to high-quality fully automatic production. It is featured by stable die casting quality, good surface quality, etc.

**Table of Technical Parameters**

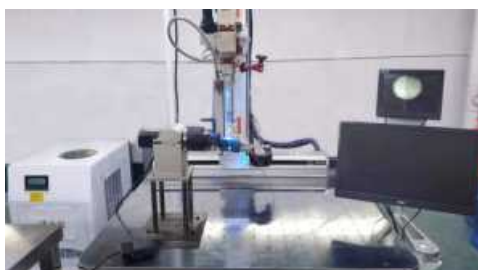
	ITEM	UNIT	DC160
Clamping system	Clamping force	kN	1600
	Clamping stroke	mm	350
	Die thickness (minimum - maximum)	mm	205-505
	Die plate size (horizontal x vertical)	mm	671x666

# Laser Welding

Laser welding is for local heating in small areas of materials by high-energy laser pulse. The energy of laser radiation diffuses to the interior of the material through heat conduction and a certain weld crater will be formed after the material is molten.



As a new welding method, laser welding is mainly used for thin-wall materials and precision parts and can achieve spot welding, butt welding, stitch welding, seal welding, etc., with high depth-to-width ratio, small weld width, small heat affected zone, small deformation, high welding speed, smooth and aesthetic weld. No treatment or simple treatment is required after welding. The weld is of high quality, free of pore and can be accurately controlled. The focus spot is small with high positioning accuracy, which facilitates automation. It has been successfully used for precision welding of micro and small parts because of these unique advantages.



In 2018, Guangdong Victor Aluminum Co., Ltd. introduced the laser welding technology. Through in-depth researches, the technology has been applied to 3C electronic products.

# LET Green Take the Lead in Company's Sustainable Growth

Since the inception of the company, Victor has been upholding our mission of dual-focus on production and operation as well as environmental protection. To better facilitate the latter task, we have allocated major funding in green facilities for waste water and exhaust emission treatment, by which we take advantage of advanced technology at home to ensure that our discharge fully meet the regulatory standards.

## Advanced Waste Water(WW)Facilities Treating

(1) WW containing Nickel(Ni)-can be fully and separately recycled with effluence.



(3) WW containing Phosphorus(P)-through electrolysis to calcium phosphate in order to meet the standards of phosphorus discharge.



(2) Inorganic WW-by pairing inorganic air floater and TFM Film to filter waste material from the water before discharge to enforce compliance.



(4) WW Treating Station-is devised with re-claimed water system to recycle water and improve WW recyclability.

## Exhaust Emission Treating Facilities

(1) Emission Treating Tower-is installed to sprinkle, absorb, and filter exhaust in on anodic oxidation lines in order to comply with the State-Emission Standards.

(2) Sprinkler Devices-are paired with dust-bag devices applied to the fabrication process including grinding, polishing, sand blasting, and spray painting to remove dust and exhaustion with maximum 90% efficiency rate.



# 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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