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Dust Control
in VICTOR

Our Share of Effort for
a Blue Sky

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paving our way for Industry 4.0

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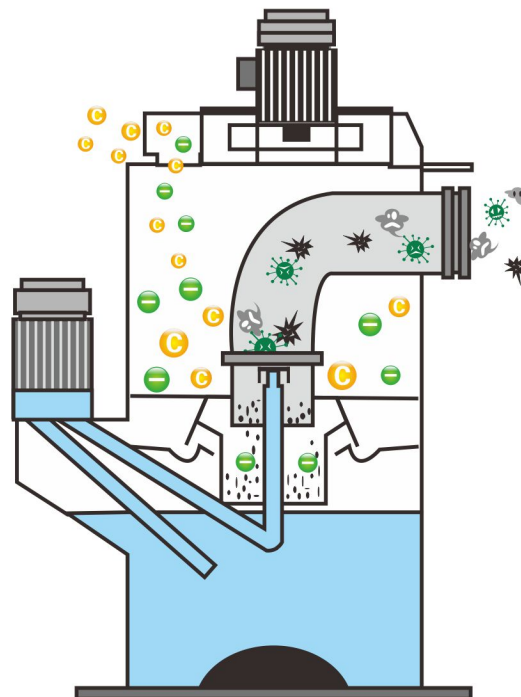
With frequent visits of smoggy and hazy days, environmental concern is now under public scrutiny. With only a handful days throughout the year under the blue sky, we have been contemplating and seeking a sustainable way to grow the company, while sharing the responsibilities for the green-development by continuously improving dust-control during manufacturing process and contributing our effort for a clean and green place to live.

Dust emanated during manufacturing process will show certain viscosity as in dust containing polishing wax during polishing process, or in that containing lubricant during tool cutting. Traditionally where filter bags are used, the dust is easily caught up in the fabric which greatly reduces its dust-ability. To put dust under tight control, our company has adopted the advanced water-film spray tower scrubber technique for effective dust removal.

The dust removal process involving our new tech is illustrated as following:

Dust Source – Duct Collector – Water-Film Spray Tower – Fan/ Vacuum System – Exhaust

Dust from the source, through dust filter and duct collector using air force, is sent to the water-film spray tower for two-step condensed water spray and three-step water-film absorbing filtering to qualify for environ-standards. Remainder particles are sent to and deposited at the recycle pool for further treatment before emitted through exhaust chimney via a vacuum mechanism.



Weight or Speed, it's no longer a question The born of Victor's Face- Milling Cutter

One of the prerequisites for improved efficiency on CNC machine is the proper choice of tooling. The face-milling tool usually comprises the cutting arm and cutting disc, through the former connecting to the CNC machine to operate as a whole. Different types of CNC are matched with different types of arms, whereas the popular models are BT30, BT40 and BT50 (BT refers to the Japanese arm standards while 30, 40, and 50, the sectional diameter of the arm).

Cutting arm and disc currently adopted by the industry are made from material of cast iron or steel, which is heavy in general. BT40 or BT50 is designed to handle heavy load, but impedes the speed of milling; while BT30 is designed to mill at high speed at the expense of giving up on handling heavy weight.

A recent part ordered by a customer required milling and threading in a short lead time. The R&D team finally opted to work with the BT30 of higher speed, but acknowledged the fact that BT30 cannot handle total weight over 3Kg. After repeating debates and tests, the team came up with a cure-all solution by converting the material of cutting disc from steel to a special alloyed aluminum, it reduces the overall weight to 1.8kg. This is an ideal combination of the cutting arm and the disc: the "weight-loss" of the tools assures process consistency, improves operating efficiency, minimizes surface scratch, and subsequently generates parts of high-quality.

Our company strives to offer our customers added value with a competitive edge through internal-creativity and process improvement, continuously enhance production efficiency and recovery rate, and share with our customers the benefits out of the optimization aforementioned.



BT30



BT40



BT50



"Edgy", the cutter

Our New Family Member on Precision

Machine cutters, especially manually operated ones, when handling aluminum parts, have such limitations as size inconsistency, out of perpendicularity, and part out of flatness tolerances. "Edgy", the fully automated cutter, our new family member, has now settled down to taking care of all the precision needs.

The following is what this guy has to offer:

Precision lineal cutting: Edgy is equipped with servo-operated gear rollers to auto-feed parts within the tolerances of +/-0.1mm; it is also devised with an oil-spray system that creates a lubricating and cooling effect to guarantee no built-up on the blade; the hydraulic-feeding blade also warrants cutting stability.

Guaranteed Levelled Cutting: the machine is designed with special cutting features where after each cutting is completed, the operating table, controlled by air-compressor, will be moved off the route where the saw blade travels back to its origin. This prevents any "traffic jam" between the part and the returning blade during fabrication process to protect surface smoothness and precision of the part.

Guaranteed Cutting Perpendicularity: cutting blades, after installation, are maintained within the tolerance of 0.03mm to ensure performance consistency.



ERP system

paving our way for Industry 4.0

Industry 4.0 is a collective term embracing contemporary automation, interoperable devices, data computing, and so on, using cyber networking for process integration through supply, manufacturing and sales through data-exchange and smart-control.

Our goal is to become the leader in Smart Manufacture fully in tune with Industry 4.0, by way of implementing ERP system for elevating company's management standard and building up company's Big Data.

Overyears of enforcement of an ERP-based management, we have put together a multi-talented team equipped with management and IT competency, which facilitated in the achievement of our recent management integration of company logistics, cash flow and info flow within a short time frame. Such integration is embodied in the following aspects:

- 1:** Replacing a half-cooked integrated ERP system which exists in many companies with a fully-integrated system that enables streamlining of operations from order intake, plan of material demand, procurement, manufacturing process, to accounts receivable and beyond.
- 2:** Activating management standardization and streamlining in our existing aluminum management culture for information transparency and resource sharing.
- 3:** An ERP auditing team is setup to safeguard data accuracy of the ERP system. Through system-enabled error-filtering functions and self-checking within, cross-checking among, and random-checking in the warehouse, workshop and business development department, data accuracy is guaranteed at 99% ratio or beyond.



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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