

## China's DAZAO to Unveil Latest Injection Mold Innovations at Hannover Messe



**Xiamen, Fujian Jun 3, 2026 ([Issuewire.com](https://www.Issuewire.com))** - At past Hannover Messe shows, our engineers kept hearing the same complaint from European buyers: after a few hundred thousand cycles, cavity dimensions start drifting.

In sectors such as automotive electrification, industrial connectors, and medical components, procurement teams are increasingly weighing "process reliability" over "quotation speed" when evaluating new partners. A fast quote means little if first-article approval drags out for weeks, or if cavity-to-cavity drift starts to undermine assembly yields after the first half-million shots. In many automotive programs, mold instability eventually shows up outside the tooling department, especially once assembly rejects begin affecting line efficiency. — it propagates into scrap rates, line stoppages, and customer complaints downstream.

Against this backdrop, [Xiamen Dazao Machinery Co., Ltd.](https://www.XiamenDazaoMachineryCo.com) will use the upcoming Hannover Messe to showcase several recent refinements to its injection mold workflow, with a focus on cavity consistency, enhanced material wear resistance, and front-loaded DFM (Design for Manufacturability) control. The intent is not to present a generic capability overview, but to give visiting engineers a concrete view of how the company addresses the specific failure modes that delay European injection programs.

## What Injection Buyers Are Paying Attention to This Year

Conversations with European OEMs in the lead-up to the show point to three recurring evaluation criteria, all of which sit at the center of DAZAO's exhibit:

This year, buyers aren't leading with price. They ask three things upfront: how many shots a tool can hold tolerance — especially with glass-filled materials; whether each cavity in a multi-cavity tool stays within the same band over a long run; and how many sample iterations we actually need before approval.

These criteria reflect a structural shift in how buyers define value. The lowest piece price no longer compensates for unstable processes downstream, and as a China professional custom made injection mold company, DAZAO has structured its mold development around exactly these pressure points — supported by ISO 9001:2015 and IATF 16949:2016 certifications that govern the documentation and traceability behind every project.

## Where [Injection Programs](#) Usually Run into Delays

### In Multi-Cavity Programs

During a connector molding program, engineers found that cavity-to-cavity variation started to increase after extended production runs, even though the initial trial parts were all within tolerance. — a particularly acute problem for connectors and precision assemblies. For automotive connectors and medical disposables, where part counts run high and per-piece tolerances are strict, cavity-to-cavity deviation feeds directly into assembly reject rates. A 0.02 mm drift in a single cavity may be acceptable for a standalone part, but it becomes a yield killer when that part has to mate with another molded or stamped component on an automated assembly line.

### What DAZAO Will Demonstrate

Take an 8-cavity connector tool we ran for a German automotive supplier last year. By adjusting runner diameters progressively — not just symmetrically — we cut cavity-to-cavity variation from  $\pm 0.03\text{mm}$  to  $\pm 0.012\text{mm}$ . That tool is now at 1.2 million shots. We'll have the wear and measurement logs at the booth.

### When Processing Glass-Filled Engineering Plastics

One connector mold displayed by DAZAO at the show had already exceeded 800,000 molding cycles using PA66+30%GF material. One PA66+30%GF connector mold hit gate wear after 800k shots, causing shot-weight drift. We swapped the standard steel in the gate area for a harder grade and added a CVD coating. The same tool is now at 1.3 million shots with no drift. We'll have a sectioned gate at the booth so you can see the wear contrast yourself.

### During First Mold Validation

Complex structural parts — those with multiple slides, internal core-pulls, or irregular parting surfaces — often hide their problems until the first trial shots come off the press. Rework at that stage typically consumes 15%–25% of the total mold development budget, and the schedule impact is usually worse than the cost: a missed sample milestone can push a customer's product launch by an entire quarter. For European customers, the indirect cost of schedule slippage often exceeds the direct rework

expense. Because mold correction and production adjustment happen within the same facility, trial feedback can usually be folded back into the same engineering cycle rather than bouncing between vendors with different priorities and lead times.

## **DAZAO's DFM Workflow**

We normally issue a DFM report within two working days after receiving the 3D model. It's not a generic checklist — we mark draft angles, wall thickness, gate locations directly on the model. And we run Moldflow before cutting any steel, so warpage and weld lines are predicted, not discovered on the first shot.

Front-loaded Moldflow analysis: Warpage, sink marks, and weld lines are predicted before cutting steel, moving process adjustments from "after trial" to "before tooling." Issues that would normally surface during T1 trials are resolved at the simulation stage, where changes cost hours of engineering time rather than weeks of mold rework.

The same engineering team carries the project from DFM through mold design, trial, and mass production, This also avoids the common situation where tooling data gets re-entered by different teams during the project or between vendors.

## **What Visitors Can Expect at the DAZAO Booth**

Rather than a generic capability pitch, the booth is structured around tangible reference points:

At our booth you won't hear a generic capability pitch. Instead, we'll have a sectioned 16-cavity tool on display, plus gate inserts showing wear after running reinforced resin. You can flip through actual cavity consistency reports from a medical connector program — with CMM logs across 500k shots. And if you bring a drawing, one of our molding engineers can give you quick DFM feedback on gate placement and cooling.

Process records generated during development align with PPAP, FMEA, and traceability expectations standard in regulated manufacturing programs, which is increasingly important for medical device and automotive Tier 1 customers operating under strict audit regimes.

This combination physical evidence, documented data, and live engineering input reflects how DAZAO has built its around what buyers in automotive, aerospace, new energy, medical devices, furniture, and robotics actually need to make sourcing decisions. Founded in 2000, the company has spent over two decades narrowing the gap between prototype validation and stable serial production, supported by in-house capabilities spanning CNC machining, mold making, die casting, injection molding, stamping and sheet metal processing, and 3D printing. Keeping these processes under one roof is what allows the engineering team to compress trial-and-feedback loops that would otherwise stretch across multiple suppliers. More on the company's background is available on the [[About Us](#)] page.

## **Conclusion**

If you've had a mold fail early or a multi-cavity tool drift, bring that part or drawing to our booth — that's where real conversations start.

For further technical materials and project inquiries: <https://www.dazaocncmachining.com/>.



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Source : Xiamen Dazao Machinery Co., Ltd.

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