

Welcome to Jomoo hardware factory. The birthplace of Jomoo has more than 30 years of history.

Nowadays it's one of six Jomoo factories with automated production lines, where all processes from order to production are connected.

By shifting the first factories toward intelligent manufacturing, Jomoo has already shortened its delivery cycles, improved efficiency, and dramatically increased productivity.

The 5G cloud manufacturing system controls all stages of the production process, including order placement, quality control, and smart cloud warehouse.

5G cloud manufacturing emphasizes the data industrialization and promotes smart manufacturing.

The overall number of work-in-process inventories decreased by over 30 percent, and production efficiency grew by 15 percent.

Let's have a look...

Materials.

And of course, one of the most important parts is material. We use high quality lead-free brass.

Here are some faucet models, components, and core technologies displayed.

We use high-quality lead-free brass. With sensor faucets' gain in popularity for household use, Jomoo has developed some new technologies, including and not limited to water filtering, various kinds of sensors that address the water conservation problem, an automatic soap dispenser, and so on.

These are different kinds of cartridges that are used in our faucets, and these are their components.

Jomoo uses the highest quality materials for every single detail.

The technological process begins here. As I mentioned, this factory produces all kinds of hardware like faucets, handles, knobs, hinges, and so on.

Technology.

The production begins here. As I have mentioned, we make all kinds of hardware like handles, faucets, hinges, and drains.

Resin makes the sand core stronger and not easy to break, which is essential for casting.

The process of mixing is also automatic: the control system is responsible for 20 sand mixing machines, transportation, and loading, which effectively reduces the need of labor to the minimum, subsequently reducing the labor cost.

The waste sand is then collected and, using the secondary utilization technology, is put to use again.

Nowadays with the use of the newest technology, the molding process is smooth, highly efficient, mostly automated, and requires little to no manual intervention.

And now the mold creation has been digitalized and spraying is done by robots.

Fast 3D prototype printing and automatic cutting replaced manual casting and cutting techniques.

Machining.

The component has gone a long way. The next step is injection molding.

Here you can see the raw material: brass. Jomoo uses high quality refined copper and a lead-free technology.

Robots pour molten brass into the mold cavities of casting machines that use the low casting pressure method.

Workers break off the extra brass that forms in the channels. This will later be recycled.

Then these soon-to-be perfect faucets cool off.

And after I move to the next stage.

Here the rough castings are being machined for a more refined look.

These machines here do the drilling. The factory workers are only responsible for loading and unloading, the rest is done by robots.

The machining center ensures high precision which has reached one tenth of the (human) hair.

There are two kinds of machines. These few are the most advanced ones with 16-axis water wheels combined with automatic loading and unloading.

All processes are done at once: water outlet cutting, fixed hole cutting, water inlet cutting.

It's mainly used for the production of large quantities of high-end faucets.

This highly efficient fully automatic process allows to machine up to 7000 items per day.

After being machined, every single product is tested for leakage. This is done manually by workers.

Polishing.

These polishing machines were imported from Italy. They can move for 24 hours straight, and they learned from human movements.

For a human being, polishing can be a messy job but for these guys it's no problem.

Repeatable programming allows it to work stably for 24 hours, polishing various types of products, ensuring smooth feeling and aesthetic appearance of the product.

The robotic arms learned from human movements.

While in fact polishing is done in several steps with four different machines. With each machine the product becomes more and more smooth.

This four-axis cleaning machine can process four products at a time, taking care of the dust particles.

The grinding machine is another highly efficient piece of equipment. It can process 64 pieces at a time, saving a lot of energy and contributing to emissions reduction.

The 8-axis milling machine here contours lines ensuring uniform product size and wall thickness. Just one person is enough to operate three machines - yet another step that the factory has taken to increase efficiency.

Now we are looking at a high precision carving machine, for example for carving logos.

Nearly every step of the production process is automatic, highly efficient, and energy conserving.

The final step is electroplating, for which we send the products to another factory.

This process ensures an extensive lifetime and gives the products a desired look, whether it's a mirror finish, industrial matt black, or neutral brass color.

Let's look at the final result: sleek, these faucets are not only high quality, but also made with attention to water-saving functionality and the variety of design would complement any bathroom, fitting any lifestyle.

Robots assist with the packaging of ready products, which are then stored at this warehouse, soon to be transported to our shops, or directly to the customers.

Factory Lab.

So now we have reached the factory's lab. So, what happens here?

As you can guess from looking at these machines, that's where the life cycle tests are conducted.

Valves, faucets, and handles are tested through a certain amount of cycles, which allows us to estimate the approximate number of years of normal use.

A mechanical arm moves the faucet handle from off to full on, then off again, and it repeats this cycle for example 60 000 times.

Working around the clock, sometimes the test takes about a few days to complete.

If the product fails at any time during those few days, it's not certified.

Hydrochloric Acid Test.

Another kind of service life test, a spray test, is done in this room. It ensures that a product can be used for a long time, even in harsh conditions.

For example, Jomoo faucets are tested to 80 000 cycles and it's equivalent to 10 years of ordinary use.

Let's have a look at cut sections.

Jomoo faucets have thicker walls when compared to common faucets and have a specially smooth inside surface.

Our advanced equipment and latest technologies make products that will serve you for years to come.

Thank you for watching this video. This is Jomoo Kitchen and Bath. If you want to learn more about our products and company, please go to our website: www.jomoo.com