



# HUNAN YUBANG MAGNETIC MATERIAL CO., LTD

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## -----COMPANY PROFILE-----



## About US

Hunan YuBang Magnetic Materials Co., Ltd. was founded in 2015, is a high-tech enterprise specializing in the R&D, production and sales of permanent magnets and magnetic application products.

The registered capital is RMB 10 million and own building covering 10600m<sup>2</sup> construction area. Currently, we have more than 80 employees, including 20 technical personnel (2 with master's degree) and 12 management personnel.

We passed the identification of high-tech enterprises in 2018. By the end of 2022, our R&D department has independently completed 12 utility model patents and 1 invention patent.

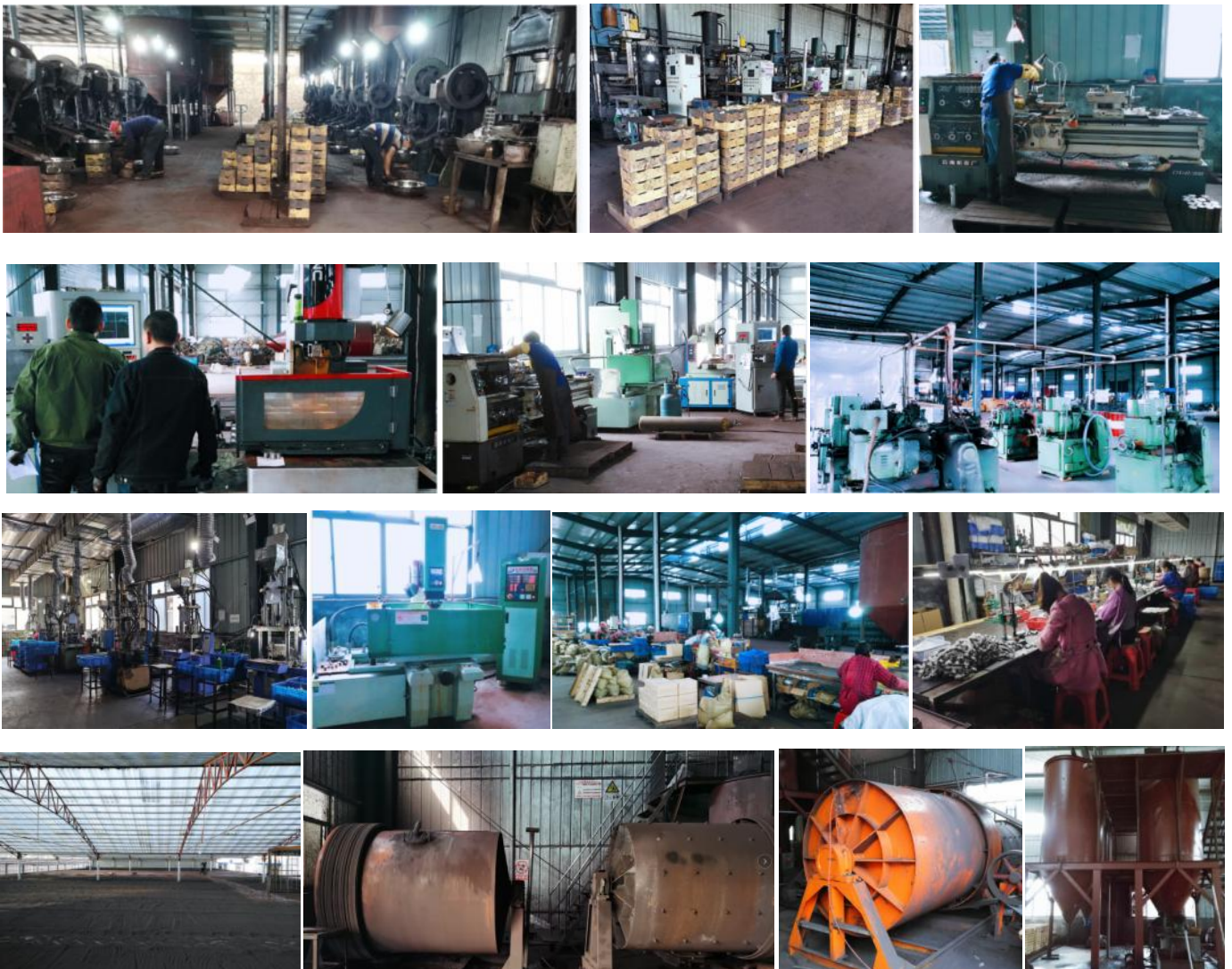
We have our own mold center, leading by the mold master who once worked at Foxconn in Shenzhen, 4 masters are especially responsible for making molds, the processing accuracy is the best in Yanling County.

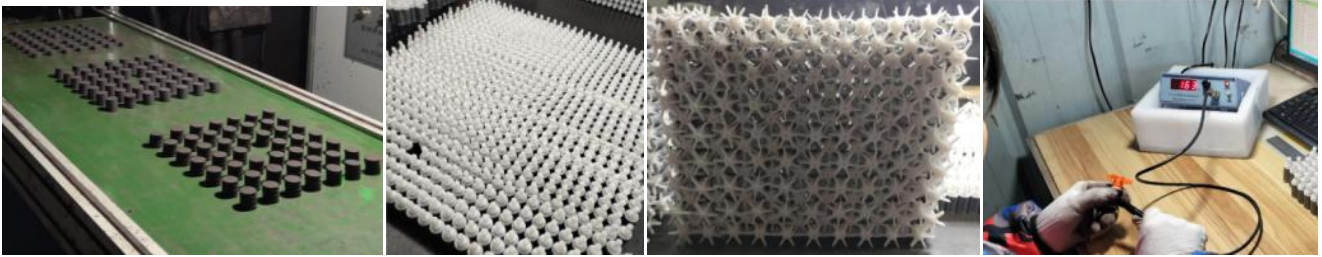
We adopt advanced processing equipment and facilities for automatic production, such as sawing machine, CNC milling machine, grinding machine, lathe, wire cutting machine, piercing machine, EDM machine, quenching furnace, etc.

As pioneers in the field of magnetic materials, we take innovation as our own responsibility, adhere to the business philosophy of quality first, customer first, and service first to meeting our customers' diverse needs.

Welcome to contact with us to create more value together!

## Company Photos



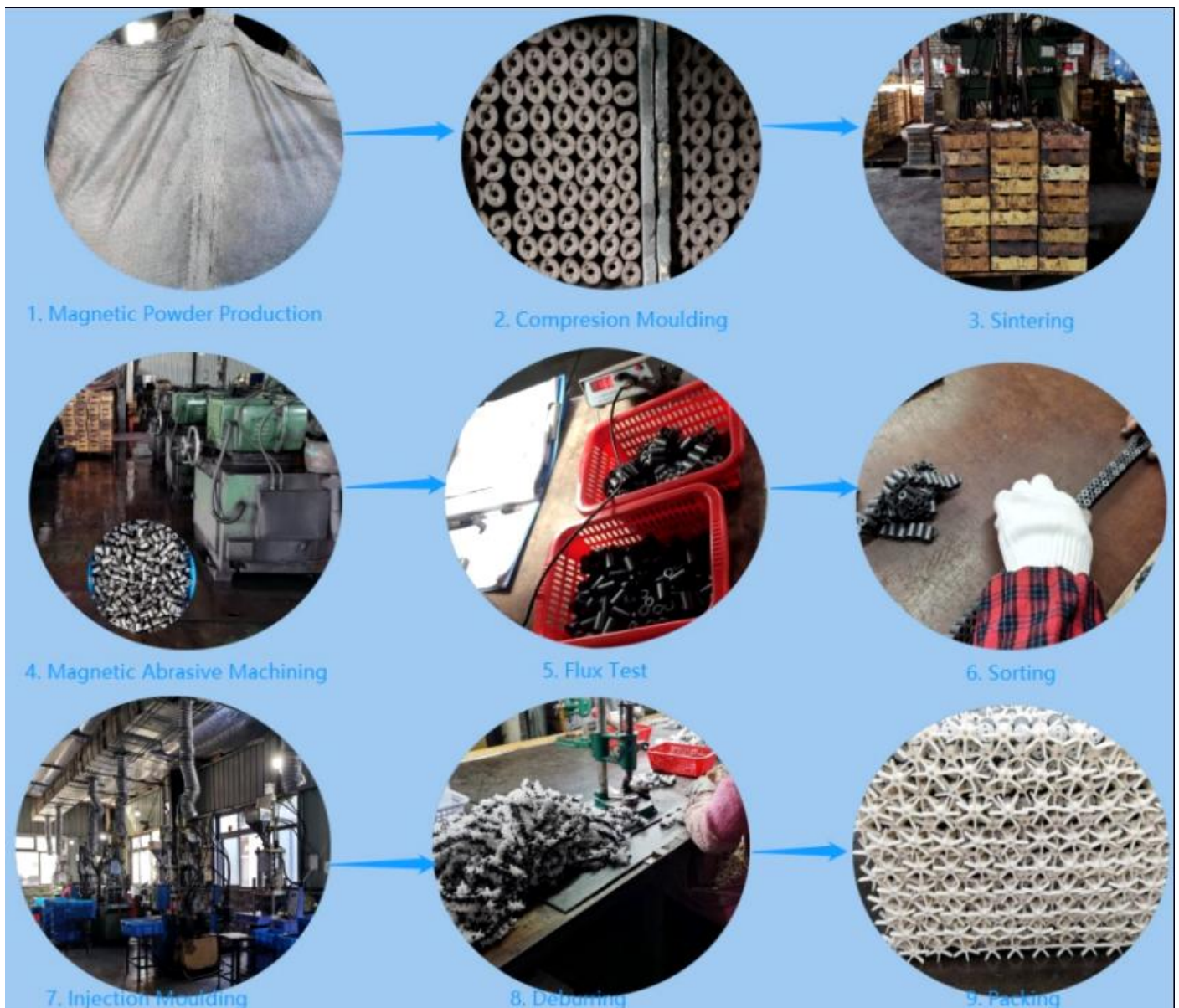


## Production Flow

We are the first to adopt molding hydraulic press with PLC full-automatic control in the industry, which solves the problems of unbalanced magnetization and inconsistent density. It increases the output of single machine by more than 80% and the qualified rate of products by 10%.

Our grinding equipment (such as cylindrical grinding, end face grinding, chamfering, etc.) are integrated operation control, they are independently developed.

Now, our factory has transferred from manpower to automation to ensuring high productivity and stable product quality.



## Our Products

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### ➤ **Ferrite Magnets:**

Ferrite magnets are more commonly referred to as ceramic magnets. They are obtained from iron oxides and from strontium or barium carbonate: these raw materials are generous on Earth, so availability of ferrite is rather high.

The raw materials are mixed together, granulated and thermally treated to get finally hexaferrite phase ( $\text{SrFe}_{12}\text{O}_{19}$  or  $\text{BaFe}_{12}\text{O}_{19}$ ). This granulate is then ground to a powder. Pressing can be performed under magnetic field (to maximize anisotropy of the magnet) or not (isotropic magnets) and can be wet or dry.

Due to their ceramic nature, ferrite magnets are very hard and brittle. Special machining techniques must be utilized for these magnets. Ceramic or ferrite magnets come in discs, cylinders, rings, blocks and arcs and are charcoal grey.

Ferrite magnets are a low cost solution to an endless list of magnetic applications. As important parts of magnetic materials, ferrite (ceramic) magnets play an important role in electrical, electronic information, car, motorcycle industries etc. They are also widely used in medical treatment, mining and metallurgy, industrial automation, oil energy and civil industries.

YuBang offers a complete line of ferrite magnets, we export all magnet shapes, sizes, properties and coatings and we also offer a customized magnet production service.

### **Characteristics**

Raw material is readily available and low in cost

Relatively brittle & hard

Easy to magnetize and good resistance to demagnetization

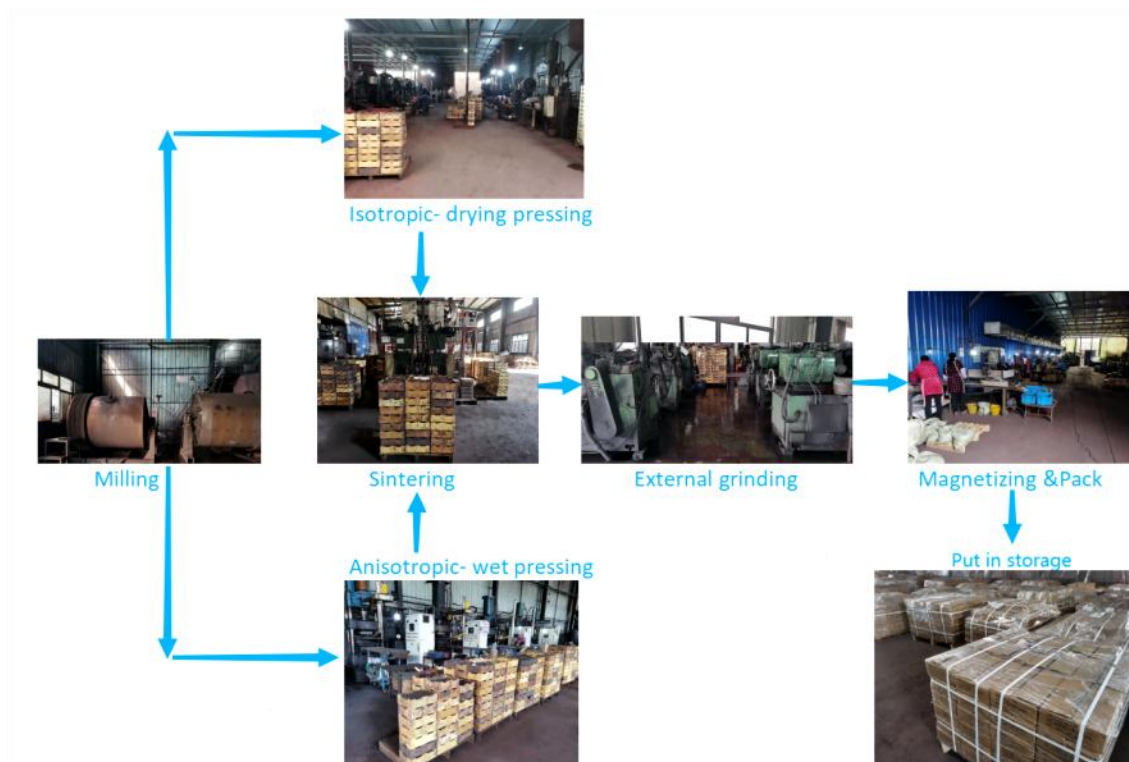
Excellent corrosion resistance

Good temperature stability

High coercive force and high electric resistance

Most widely used permanent magnets

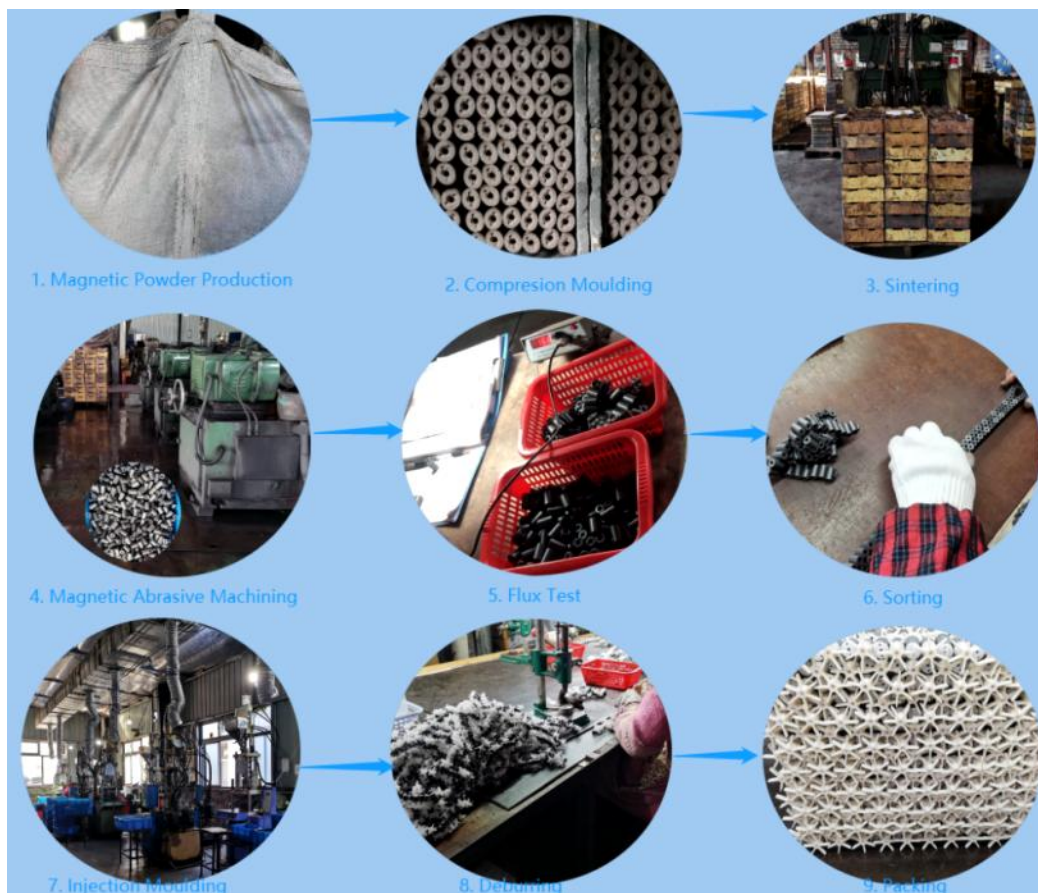
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 Anisotropic series



✚ **Magnetic Rotor series (Key products)** Kindly contact us by [sales03@ybcc88.com](mailto:sales03@ybcc88.com) if you want to get more details.





## ➤ Neodymium Magnets (NdFeB magnets):

Neodymium magnets (NdFeB), are high-performance permanent magnets constructed from an alloy of neodymium, iron and boron. They are a member of the rare earth magnet family, and are well known for being the strongest magnets in the world.

NdFeB magnets have a high resistance to demagnetization and are plated (typically with nickel) to protect them from corrosion and chipping. They are the most compact magnets commercially available, especially suitable for the development of magnets for high-performance, compact and light products.

Neodymium magnets are easily formed into various sizes such as blocks, discs, rings, arcs, spheres, triangles, trapezoids, and widely used in many fields such as magnets for aviation, electronics, auto industry, instruments, meters, machine and medical instruments.

**Advantages:** High magnetic property; high cost performance; high machinability; high coercivity ( $H_c$ ) to resist demagnetization; small volume, light weight, can be used in extremely cold conditions.

