



DRAX Block Machine Mold Catalog

XIAMEN DRAX MOLD CO., LTD.

CATALOGUE

Cont.

- Introduction to Drax Mold
- Product Range and Specifications
- Applications and Case Studies

Introduction to Drax Mold

PART 01

Company Overview and Expertise

- Experienced in the industry: Drax Mold, as a professional mold manufacturer, focuses on the research and development and production of concrete block molding molds. With years of industry experience, it serves the global building materials equipment field, and its technical team has a strong background in materials science and mechanical engineering.
- Customized solutions: Proficient in providing personalized mold design according to customer needs, covering various product types such as hollow bricks, curbstones, paving bricks, etc., supporting complex geometric shapes and high-precision molding requirements.
- Innovative technology application: Adopting CAD/CAM/CAE integrated design process, combined with finite element analysis to optimize mold structure, significantly improving wear resistance and service life, and reducing customer production costs.



OEM Partnerships (HESS, MASA, BESEER, etc.)

- HESS cooperation case: Provided high-end block mold matching for HESS Group in Germany, adapted to its fully automatic production line, and achieved efficient output of 2000+blocks per hour. The mold compatibility was highly recognized by customers.
- MASA Technology Collaboration: Collaborate with MASA to develop specialized molds for vibration forming systems, optimize vibration frequency transmission efficiency, and ensure uniform density of blocks. The products are widely used in municipal engineering.
- BESEER Long term Supply: As the core mold supplier of BESEER, we provide weather resistant steel molds that are suitable for high-intensity production in tropical climates, with a cooperation period of over 10 years.
- Global cooperation network: In addition to European clients, we have also established OEM relationships with well-known equipment manufacturers in Asia and America, exporting molds to more than 30 countries to meet building material standards in different regions.

Quality Standards and Manufacturing Capabilities

1

Material selection

Swedish SSAB Hardox wear-resistant steel and Japanese JIS standard alloy steel are used. After heat treatment, the hardness reaches HRC58-62, and the impact resistance is improved by 30%.

2

Precision machining equipment

equipped with five axis linkage CNC machine tools, electrical discharge machining equipment, and laser cutting machines, the machining accuracy of key components is controlled within $\pm 0.01\text{mm}$.

3

Full process quality inspection

12 testing processes are implemented from raw material storage to finished product delivery, including 3D scanning, ultrasonic testing, etc., in compliance with ISO9001 and CE certification requirements.



Product Range and Specifications

PART 02

Mold Types for Block Machines



Standard block mold

suitable for producing blocks of conventional sizes, such as 200mm × 100mm × 50mm, made of high-strength steel to ensure long-term use without deformation, suitable for large-scale standardized production needs.

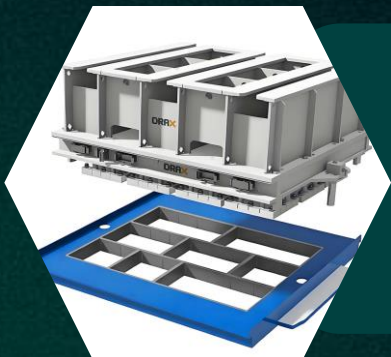
Hollow brick mold

designed for producing lightweight hollow bricks, supporting various hole types (circular, square, etc.). The inner wall of the mold is polished to ensure a smooth surface of the brick and smooth demolding.



Decorative brick mold

customizable patterns and textures, used for producing facade decorative bricks or paving bricks. The mold adopts CNC carving technology, with high precision and excellent detail restoration.



Brick Dimensions and Customization Options

- Standard size range: covering common specifications (such as 240mm × 115mm × 53mm, 390mm × 190mm × 190mm, etc.), supporting a tolerance of $\pm 1\text{mm}$ to ensure compatibility during masonry.
- Non standard customization service: We provide special size designs according to customer needs, such as elongated or irregular bricks. Detailed drawings or samples are required, and the production cycle is extended by 15% -30% compared to standard molds.
- Surface treatment options: including smooth finish, brushed finish, imitation stone pattern, etc., achieved by adjusting the material or processing technology of the mold lining to meet different architectural style requirements.
- Quick mold replacement system: Some models support modular design, which can complete mold replacement within 10 minutes, improving production line flexibility and reducing downtime.



Material Selection and Durability Features



High chromium alloy steel

the core material of the mold, with a hardness of HRC58-62, excellent wear resistance, and a service life of over 500000 presses, suitable for high-strength production environments.



Heat treatment process

Through dual treatment of quenching and tempering, internal stress is eliminated, fatigue resistance is enhanced, and cracks or deformation are avoided after long-term use.



Plating technology

Optional chrome plating or titanium nitride coating can be used to reduce friction coefficient, minimize material adhesion, and enhance rust prevention ability, especially suitable for humid climate areas.



Applications and Case Studies

PART 03

Popular Brick Designs and Patterns

Interlocking Bricks

These bricks feature a unique design that allows them to lock together without mortar, providing stability and reducing construction time. Ideal for paving driveways, walkways, and patios.

Decorative Facade Bricks

Designed with intricate patterns and textures, these bricks enhance the aesthetic appeal of buildings. Common in residential and commercial projects for creating visually striking exteriors.

Hollow Bricks

Lightweight yet durable, hollow bricks are used for load-bearing and non-load-bearing walls. Their hollow core improves insulation and reduces material costs.

Industry-Specific Solutions (Construction, Landscaping, etc.)

01

Construction engineering solution

Provide high-precision standard brick and hollow brick molds, support rapid demolding design, and meet the needs of high-rise buildings for block strength and mass production.

02

Landscape customization plan

Develop adjustable molds for Dutch bricks, colored bricks and other irregular bricks, and achieve different texture and color effects by replacing inlays, enhancing the flexibility of landscape design.

03

Supporting municipal facilities

corrosion-resistant steel molds are designed specifically for prefabricated components such as drainage manhole covers and cable trays, combined with electrical discharge machining technology to ensure the dimensional stability of complex cavities.

Client Success Stories and Testimonials

- Case study of a large building materials group: After adopting modular block machine molds, production efficiency increased by 30%, mold life was extended to over 500000 times, and customer feedback showed that the qualified rate of formed bricks reached 99.2%.
- International contractor project: In the Southeast Asian highway project, customized curbstone molds achieved an average daily output of 5000 pieces. The project team praised the durability and easy maintenance of the molds.
- Collaboration with environmentally friendly brick factories: manganese steel molds developed in conjunction with unburned brick technology help customers reduce energy consumption by 20% and obtain green building certification. Customers refer to it as a "core tool for sustainable production".
- Municipal engineering case: A city square was paved with grass bricks, and the rapid mold replacement design shortened the construction period by 15 days. The final project was awarded the "Best Ecological Landscape Award".

CONTACT DETAILS

XIAMEN DRAX MOLD CO., LTD. (office)

E-mail: info@draxmold.com

WhatsApp: +86-15880867176

Address: Room 507-1, No. 892 Gaoqi Road, XiamenArea,
China (Fujian) Pilot Free Trade Zone

QUANZHOU FENGYUE MOLD CO., LTD. (factory)

Phone: +86-17628269441(WeChat)

Address: No. 1, Binnan 5th Road, Binjiang Industrial Zone,
Xiamei Town, Nan'an City, Quanzhou, Fujian Province