

AUTOMATIC CONCRETE BLOCK SPLITTING MACHINE

Expert in Automatic Splitting and Surface Treatment for Concrete Blocks

STONE-LOOK NATURAL-TEXTURED SPLIT-FACE CONCRETE BLOCKS PRODUCTION SOLUTION

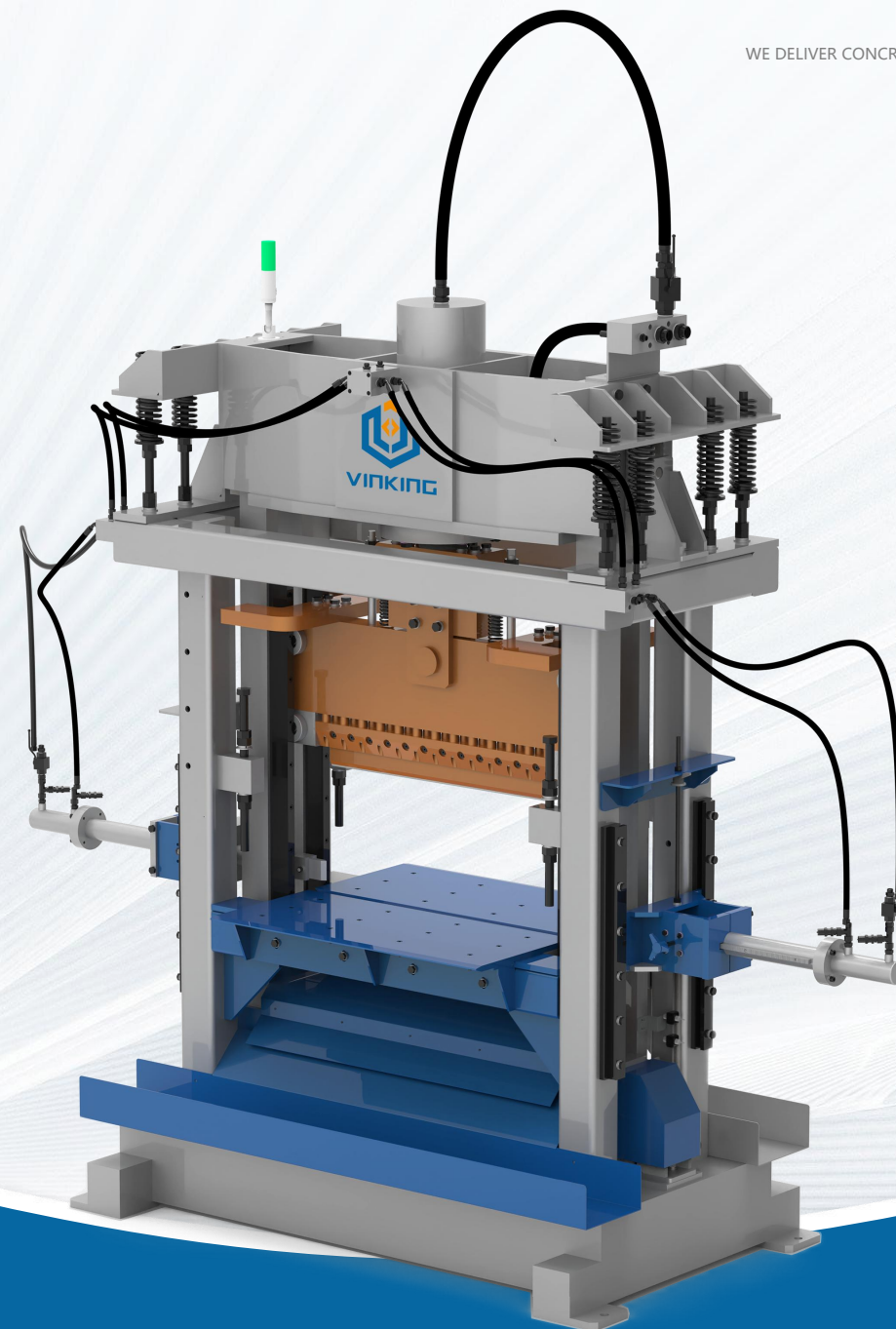
VINKING

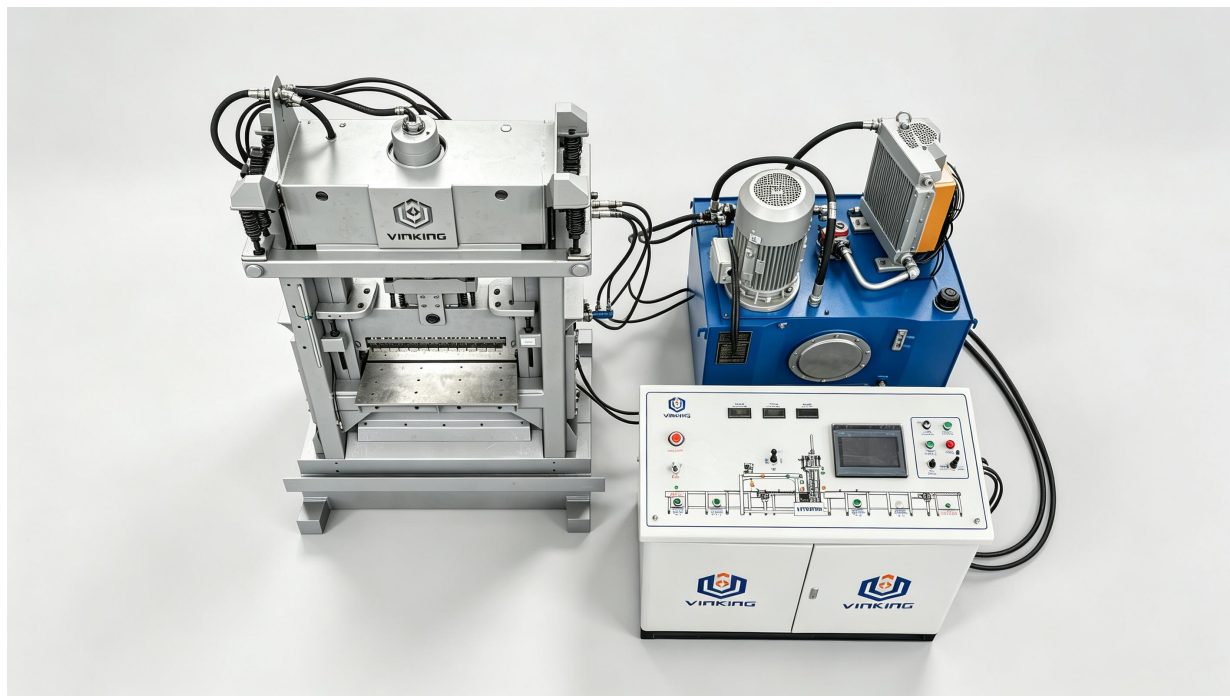
Intelligence

Innovation

Efficiency

Precision





WHAT IS AN AUTOMATIC CONCRETE BLOCK SPLITTING MACHINE?

Automatic Splitting Production Equipment for Concrete Blocks

This equipment is driven by hydraulic system to operate splitting blades.

It splits concrete blocks of certain strength along designated sections. The fracture surface formed by internal stress release features natural, rough and irregular rock texture, perfectly replicating the texture of natural stone.

Independent

HYDRAULIC SYSTEM

Easy Operation & Convenient Setting

ELECTRICAL CONTROL SYSTEM

High Flexibility

FOUR-BLADE SPLITTING

Safe and Reliable

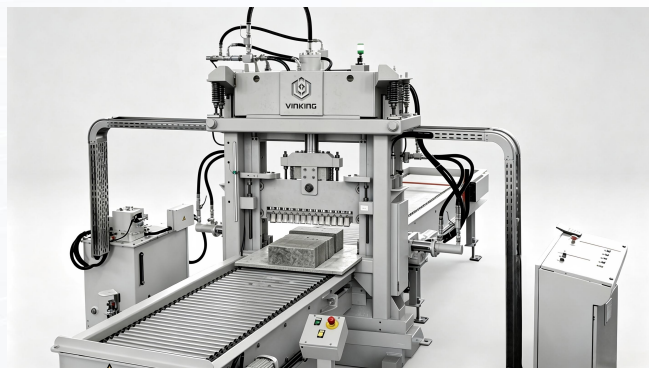
AUTOMATED PRODUCTION

ONE-STEP WORKFLOW

Efficient and Stable, Seamlessly Interfaced with Production Lines;
Serial Operation with Palletizing & Packaging Systems Improves Efficiency and Consistency.



AUTOMATIC LOADING & UNLOADING



PRECISE POSITIONING

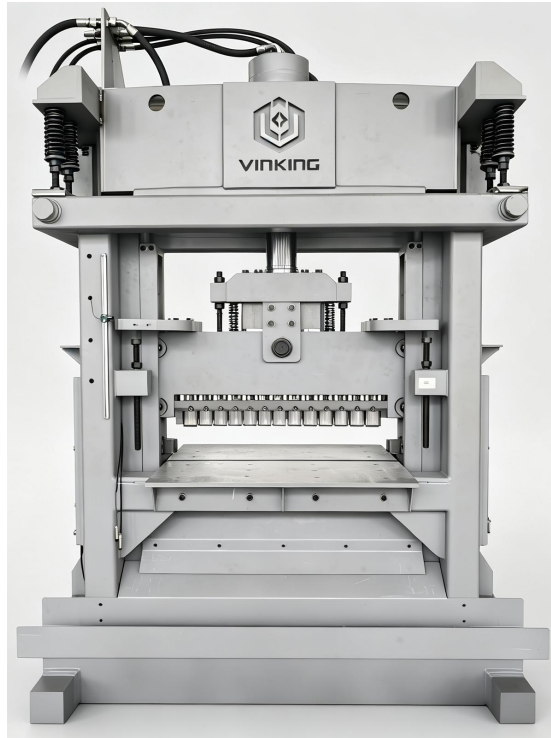


SPLITTING OUTPUT



CUSTOMIZABLE CONFIGURATION

Adjustable Splitting Blades for Diversified Natural Fractured Surfaces.



CONCRETE BLOCK SPLITTING MACHINE

- Splitting processes are adjustable on demand.
- Double- Frame Structure & Four- Blade Holder Splitting Operation.



INTELLIGENT CONTROL SYSTEM

- PLC-controlled operation for precise splitting.
- High Finished Product Yield.
- Multiple Splitting Schemes Storable.

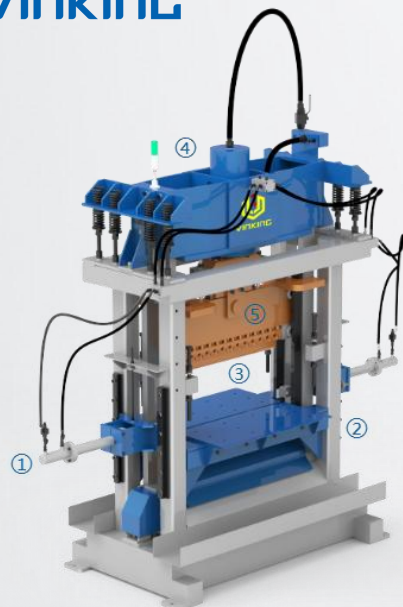


HYDRAULIC STATION

- The power station delivers high-pressure oil to drive the cylinder and generate massive thrust.

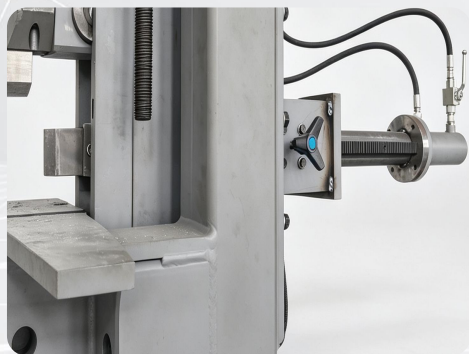


CORE COMPONENTS OF CONCRETE BLOCK SPLITTING MACHINE SYSTEM



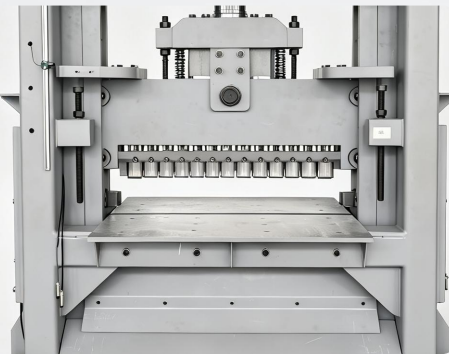
CONCRETE BLOCK SPLITTING MACHINE

WORKING COMPONENTS



① Push Rod & Side Blades

- Align Blocks To Be Split In Coordination With Production Line.
- Auxiliary Splitting.



② Block Support Table

- Supports Concrete Blocks Awaiting Splitting.



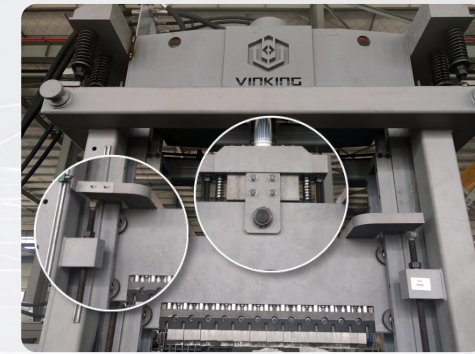
③ Self-Developed Splitting Blades

- Hydraulically driven to exert concentrated splitting force on concrete blocks.



④ Hydraulic Transmission Device

- Precisely delivers high-pressure hydraulic power to blades,
- with **120 T** maximum splitting thrust.



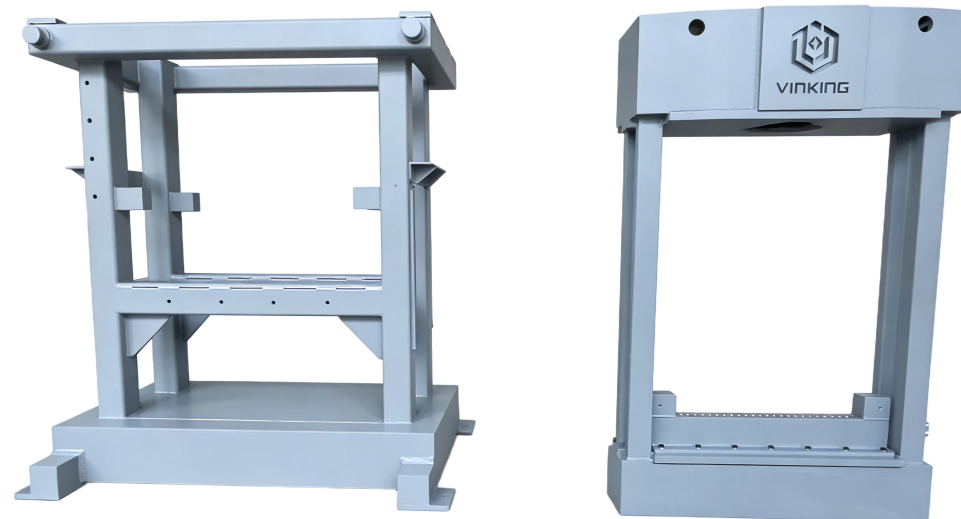
⑤ Main Blade Guide Frame & Floating Connection Base

- Lowers blades precisely according to block lifting height.

INNOVATIVE TECHNICAL DESIGN

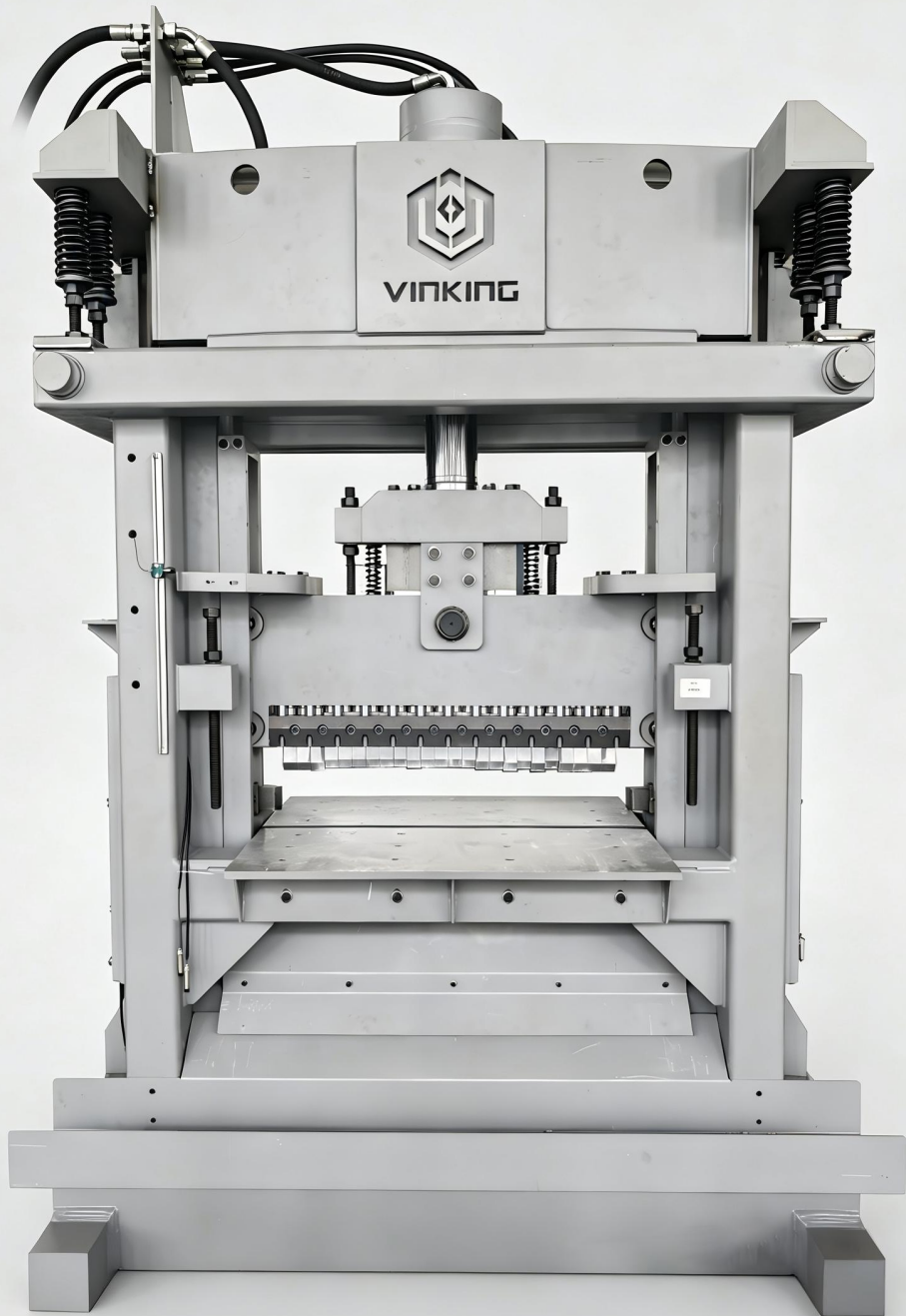
INTERNAL AND EXTERNAL DUAL-FRAME STRUCTURE

- Provides rigid guide support and ensures stable & reliable operation.



BOTTOM-UP SPLITTING

- Splitting force transmits from bottom to top with rational force flow, delivering more natural fracture surfaces.



CORE TECHNICAL ADVANTAGES



**Precise &
Controllable**



Natural Texture



**Efficient &
Intelligent**



Customizable



● UPPER BLADE VERTICAL GUIDANCE

The outer frame precisely guides the descent of the upper blade, enabling a 90° vertical cut into the block surface for higher accuracy.



● BALANCED LOWER BLADE FORCE DISTRIBUTION

Opposed cylinders lift the lower blade, applying uniform splitting force to blocks. It avoids local stress concentration and ensures flat splitting surfaces.

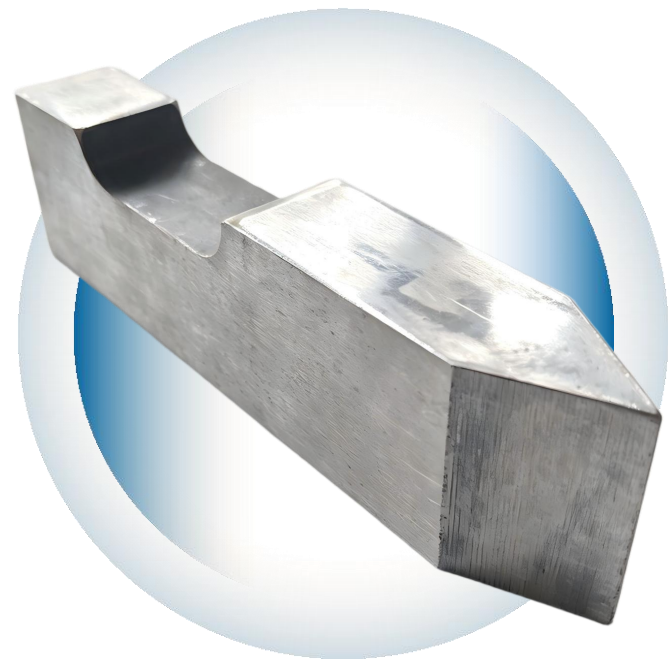
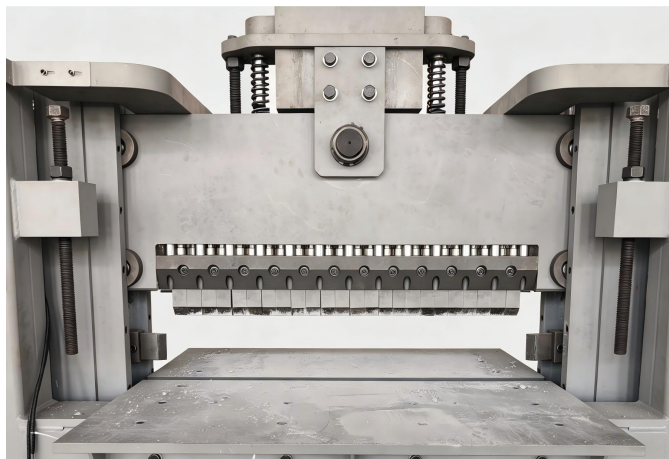


● SIDE BLADE AUXILIARY CUTTING

Side blades cut into the block synchronously to further improve fracture quality and reduce edge chipping.

VINKING-CONCRETE BLOCK SPLITTING MACHINE

SEGMENTED BLADE STRUCTURE



- Compared with integrated blades, it reduces annual spare parts consumption by approximately **30%~50%**.

LOWER SPARE PARTS COST

Only damaged segments require replacement; full blade set replacement is unnecessary.

EASY REPLACEMENT

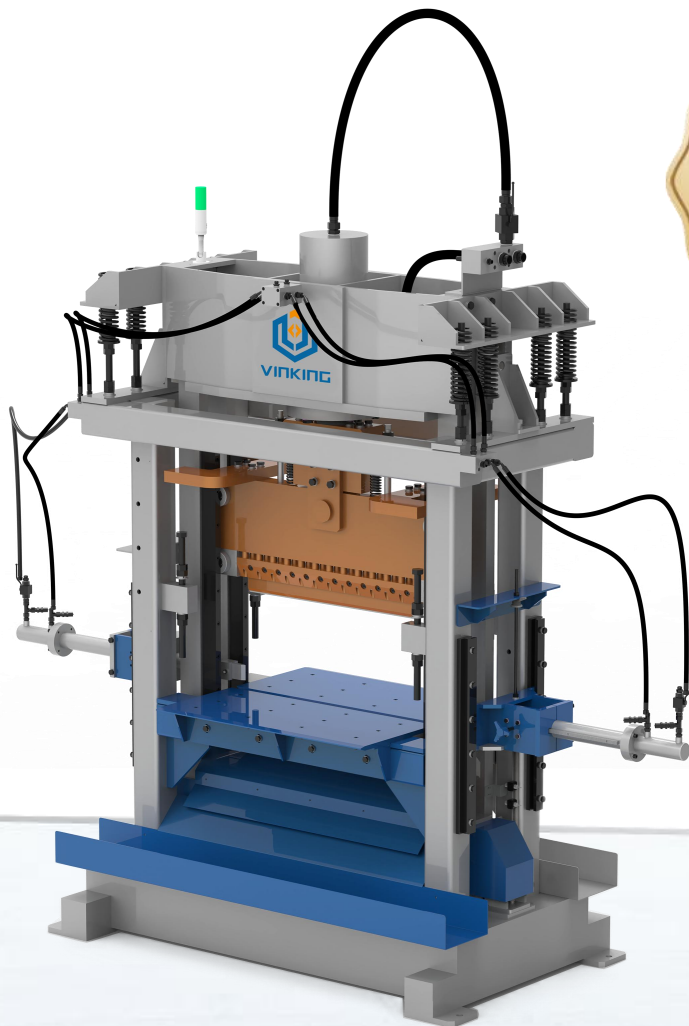
Replacing a single blade segment only takes 3–5 minutes.
Fast blade change improves production efficiency.

EASY MAINTENANCE

Each segment can be removed individually for inspection, cleaning or grinding without dismantling complex mechanisms.

LONG SERVICE LIFE

The segmented structure evenly distributes splitting force among multiple segments, preventing breakage of monolithic integrated blades resulting from stress concentration.



At 25 MPa,
the splitting
force is 120 T

The main frame is constructed from high-quality steel plate,
with tempering and carburizing treatment.

Carburizing heat treatment, hardness: **HRC 50–55**
carburized layer depth: **≥0.3 mm**

VINKING-CONCRETE BLOCK SPLITTING MACHINE

• MAIN TECHNICAL SPECIFICATIONS

MAX. ADAPTABLE BLOCK HEIGHT
(MM)

400

(Splitting blades need to be replaced for non-standard blocks)

MAX. SPLITTING WIDTH
(MM)

1100

APPLICABLE SPLITTING THICKNESS
(MM)

50-400

RATED PRODUCTION CAPACITY
(PCS/H)

120-180

HYDRAULIC STATION POWER
(KW)

18.5

MOTOR POWER
(KW)

18.5

OVERALL DIMENSIONS
(MM)

3750×1300×3350

MAIN CORE COMPONENTS



Servo Motor

Brand: Inovance



Sensor

Brand: Omron



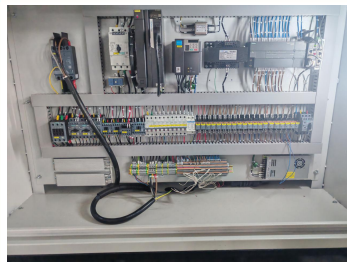
Solenoid Valve

Brand: Yuken



Touch Screen

Brand: Siemens



PLC

Brand: Siemens



Bearing

Brand: NSK

➤ SPLITTING PROCESS AND EFFECT DISPLAY

Through precise hydraulic splitting, the machine creates irregular and rough surfaces, delivering a natural, antique texture of natural stone.



PRACTICAL APPLICATION

REGULAR BLOCKS → STONE-LIKE BLOCKS WITH NATURAL SPLIT SURFACE TEXTURES.

✓ Automatic splitting processing creates natural stone-like surfaces.

✓ Enhance product added value and strengthen market competitiveness.

✓ Full-automatic production reduces costs and improves efficiency.

THANKS!

Looking forward to our cooperation.

Heavy Load

Reliable Commitment

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VINKING-CONCRETE BLOCK SPLITTING MACHINE

