

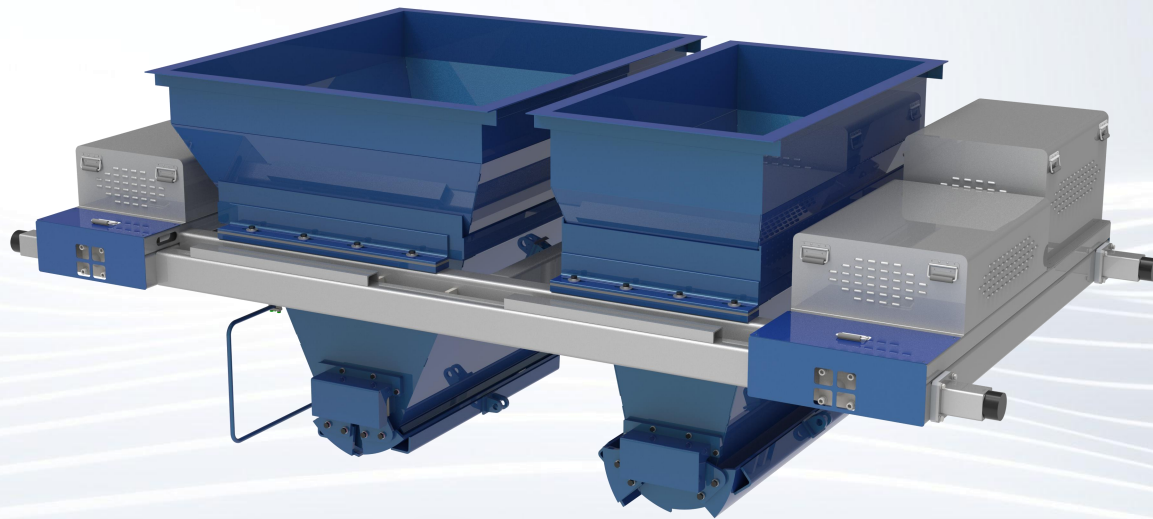
RGV FLY BUCKET

RAIL-DRIVEN

HIGH-EFFICIENCY TRANSFER

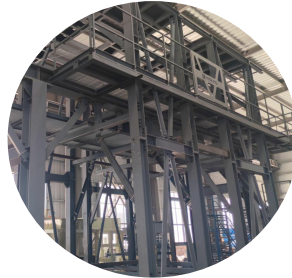
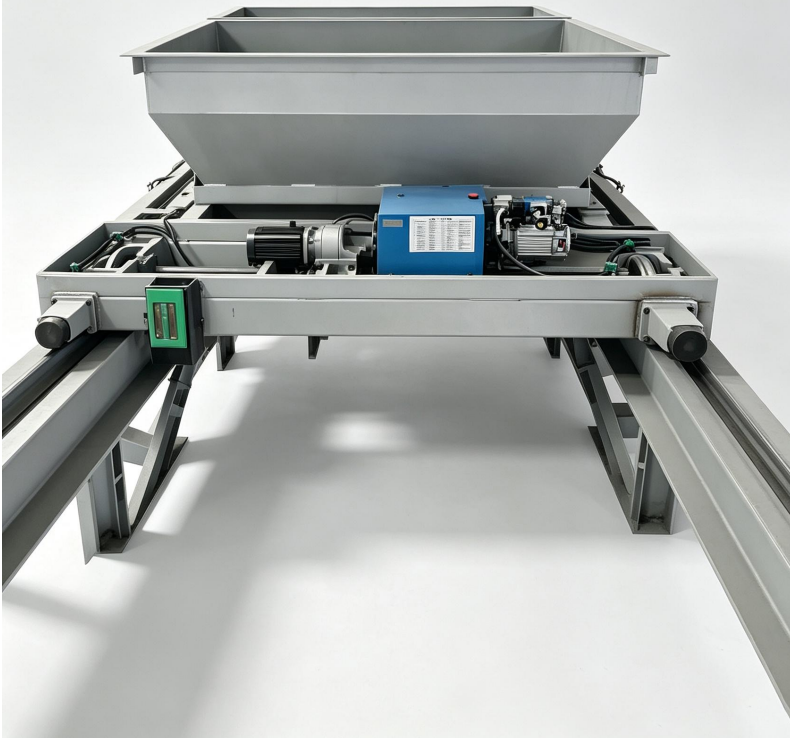
VINKING

INTELLIGENT FEEDING SOLUTION FOR CONCRETE BLOCK PRODUCTION



CONFIGURATION

RGV FLY BUCKET



BRACKET SYSTEM

Mounted above the block machine frame to provide stable support.



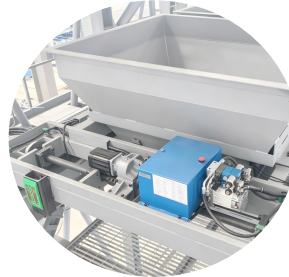
FEEDING FRAME

Movable structure that carries the hopper to travel along the rails.



DOUBLE FEEDING HOPPER

One hopper each for basemix and facemix to satisfy batching demands.



DRIVE COMPONENT

Mounted on the rear of the feeding frame to propel the entire unit.



CONTROL BOX & STORAGE BATTERY

Installed at the front end of the feeding frame to supply power for the drive component.



FIVE CORE MODULES:

Two hoppers share one traveling drive component, featuring compact structure and easy maintenance.

RGV FLY BUCKET INTENTIONALLY-DESIGNED RAIL-DRIVEN FEEDING MACHINE.

- A device installed above the block machine frame, traveling on rails for automatic material transfer and precise discharging.



SUITABLE FOR MATERIAL TRANSFER
ON CONCRETE BLOCK PRODUCTION LINES.



REPLACES CABLE-HEAVY LAYOUTS, BELT CONVEYORS
AND OTHER INEFFICIENT FEEDING METHODS.



FACILITATES AUTOMATIC UPGRADING
OF PRODUCTION LINES.

OPERATING PRINCIPLE

BLOCK MACHINE MATERIAL LEVEL SENSING · AUTO CRUISE FEEDING AT LOW MATERIAL LEVEL



MATERIAL LEVEL MONITORING



Detect material height inside main machine hopper via laser sensor mounted on block making machine hopper.



AUTO PROCESSING



When material level drops below preset lower limit, feeding signal is transmitted to fly bucket control system.



AUTO FEEDING



Travel along overhead rail to the position above block making machine, open hopper gate automatically for precise material discharging.



RETURN TO STANDBY



When material level reaches set height, fly bucket stops feeding automatically and returns to standby position.

■ FEATURES**OVER-HEAD RGV RAIL TRAVELING**

More stable feeding process, reduce material spillage and moisture loss, improve automation level.

**SMOOTH TRAJECTORY & PRECISE POSITIONING****STABLE
OPERATION**

Feeding car moves on bracket rails via RGV drive component.

**FLEXIBLE LAYOUT OF RAILS FOR PRODUCTION LINE****SPACE-SAVING**

Brackets are mounted above production machine frame without occupying floor space.

■ FEATURES

STORAGE BATTERY

Installed at the front end of the feeding frame to supply power for the drive component.



NO TRADITIONAL CABLE DRAG REQUIRED



HIGHER MOBILITY



NEATER ON-SITE CONDITION

■ FEATURES

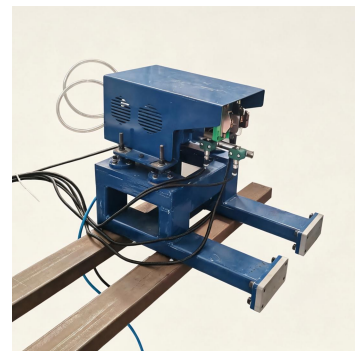
AUTO-CHARGING ASSEMBLY

The telescopic cylinder of the automatic charging device automatically extends to dock with the charging port.

CHARGING STATION



AUTOMATIC CHARGING DEVICE



CHARGING PORT



DOCK-AND-CHARGE



AUTOMATIC CHARGING ENABLES UNMANNED OPERATION.

■ FEATURES BUCKET GATE OPERATION



HYDRAULIC SYSTEM



BUCKET GATE

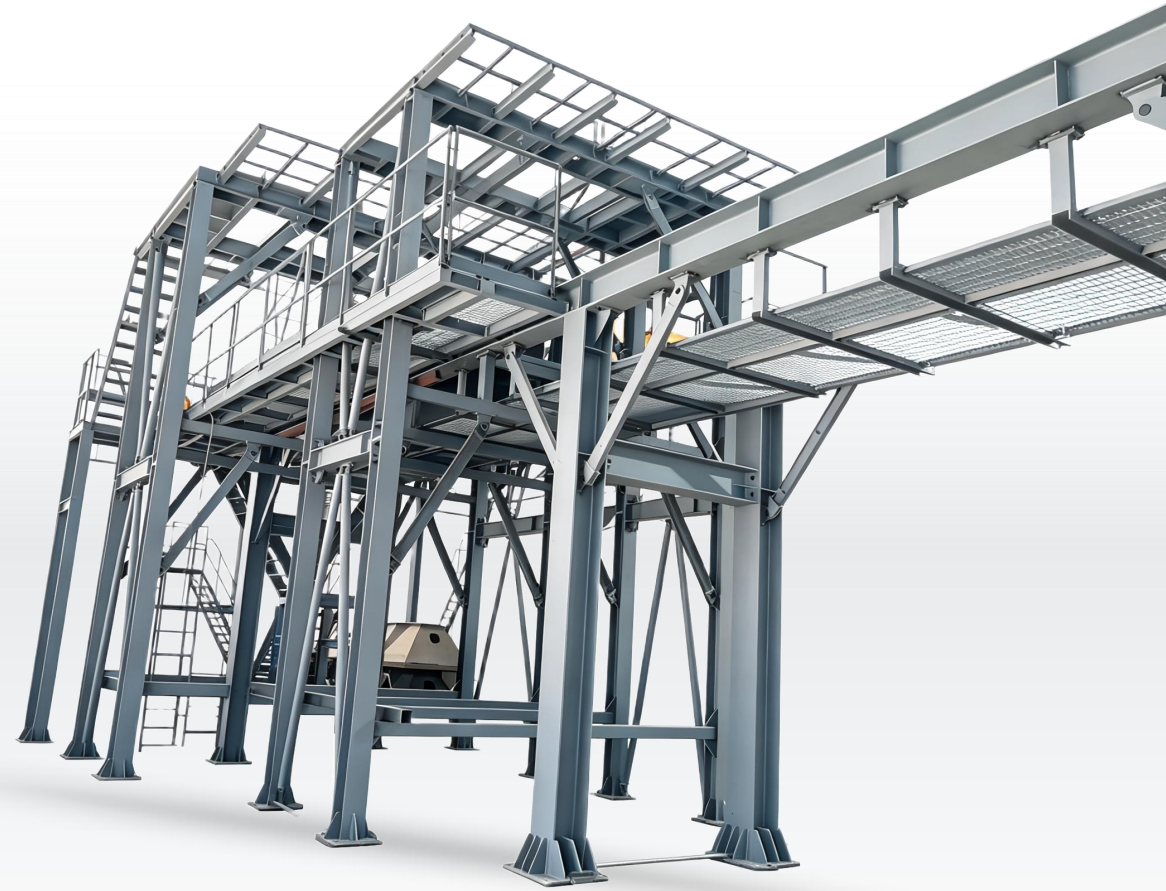
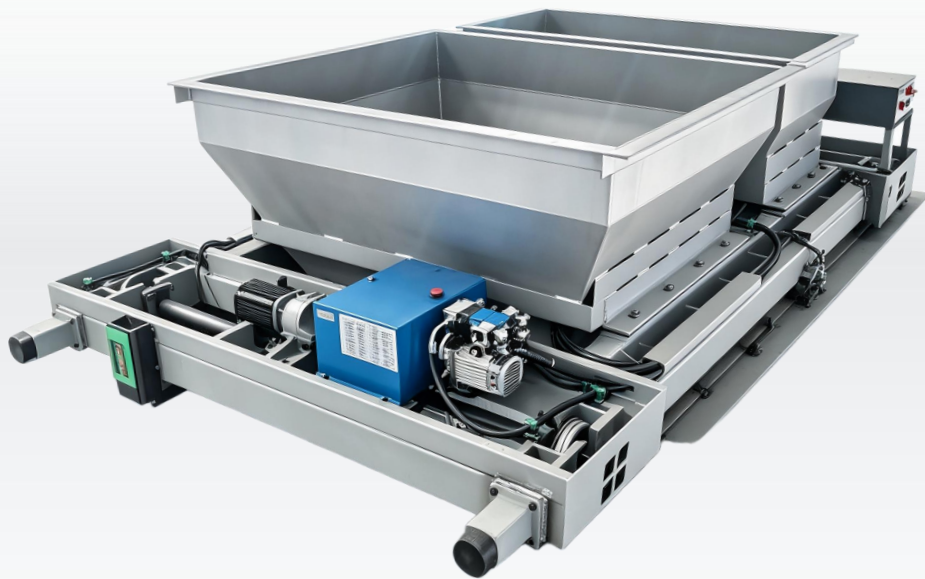
DISCHARGE OUTLET

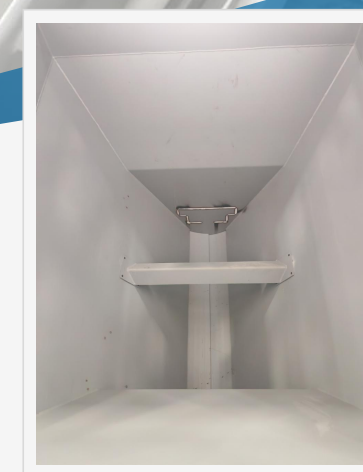


CONTROLLED DISCHARGE WITH HYDRAULIC GATE OPERATION

- Bucket gate works with the hydraulic system to control the discharge outlet, opening during discharge and closing when not in use to prevent material leakage.



■ **FEATURES****MATERIAL****BUKET MATERIAL****WELDED STAINLESS STEEL CONSTRUCTION****FRAME MATERIAL****HIGH-QUALITY CARBON STEEL**

■ **FEATURES****DISTRIBUTING ROD DESIGN****REDUCED MATERIAL RESIDUE, MORE EVEN DISTRIBUTION.****BUILT-IN DISTRIBUTING RODS IN THE FEED HOPPER.****CONICAL TOP DESIGN OF THE FEED HOPPER.****CONICAL SURFACE DISPERSION MATCHES DISCHARGE OUTLET FOR SMOOTH FEEDING.****ENSURES EVEN MATERIAL DISTRIBUTION INTO THE MOLD,
IMPROVING PRODUCT QUALITY.**

■ VINKING-RGV FLY BUCKET

PARAMETERS

➤ OVERALL SIZE

L4456×W2264×H1670 mm

➤ TRAVEL MOTOR POWER

3 kw

➤ MAX. SPEED

1 m/s

➤ BATTERY BOX

300 ah

➤ HYDRAULIC RATED POWER

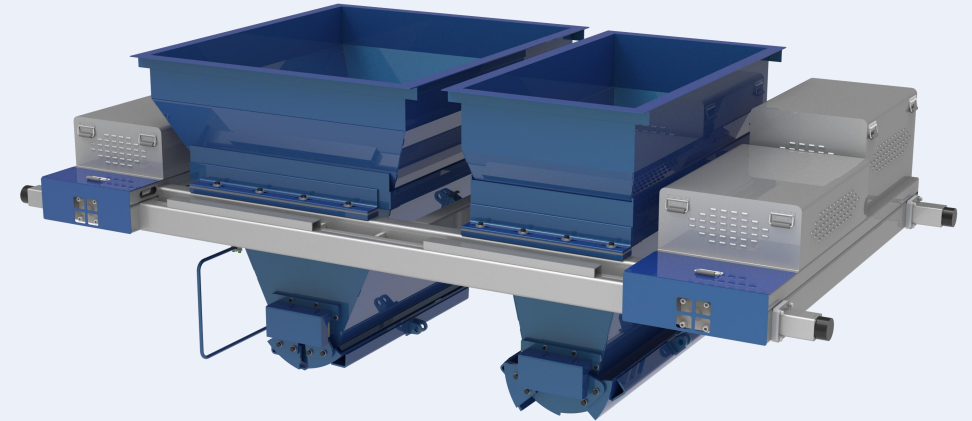
2.2 kw

➤ POWER SUPPLY

48 v

➤ MATERIAL

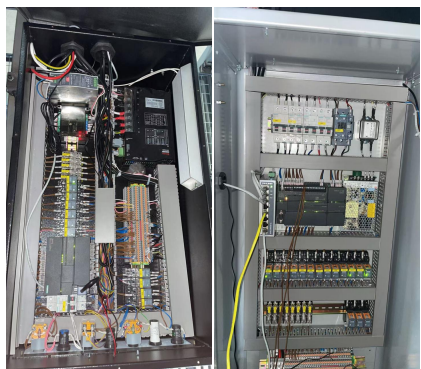
**BUCKET ADOPTS STAINLESS STEEL,
THE FRAME ADOPTS HIGH-QUALITY CARBON STEEL.**



*Specifications are subject to the technical proposal and for reference only.

CORE COMPONENTSS

- **PLC**
[Control Box & Charging Station]



Brand: SIEMENS

- **DISPLAY SCREEN**



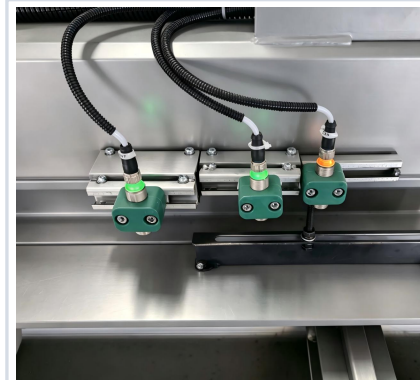
Brand: SIEMENS

- **SERVO MOTOR**



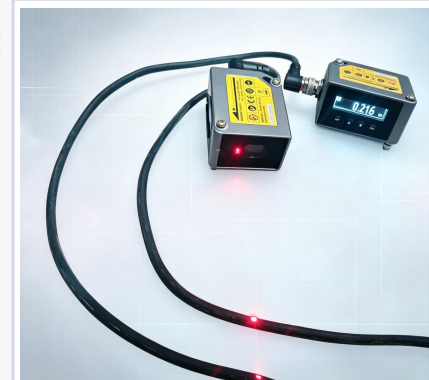
Brand: KINCO

- **FLY BUCKET SENSOR**



Brand: BALLUFF

- **MATERIAL LEVEL LASER SENSOR**



Brand: KEYENCE

VINKING-RGV FLY BUCKET

Direct bucket transfer, reduced moisture loss.



RGV Automatic Continuous Feeding.



Overhead rail, no floor space required.



Battery-powered + automatic charging, highly automated.

**MOISTURE LOSS****PRODUCTION EFFICIENCY****SPACE OCCUPANCY****AUTO LEVEL****TRADITIONAL BELT FEEDING CAR**

Long conveying distance, moisture evaporates easily.



Limited belt feeding efficiency.



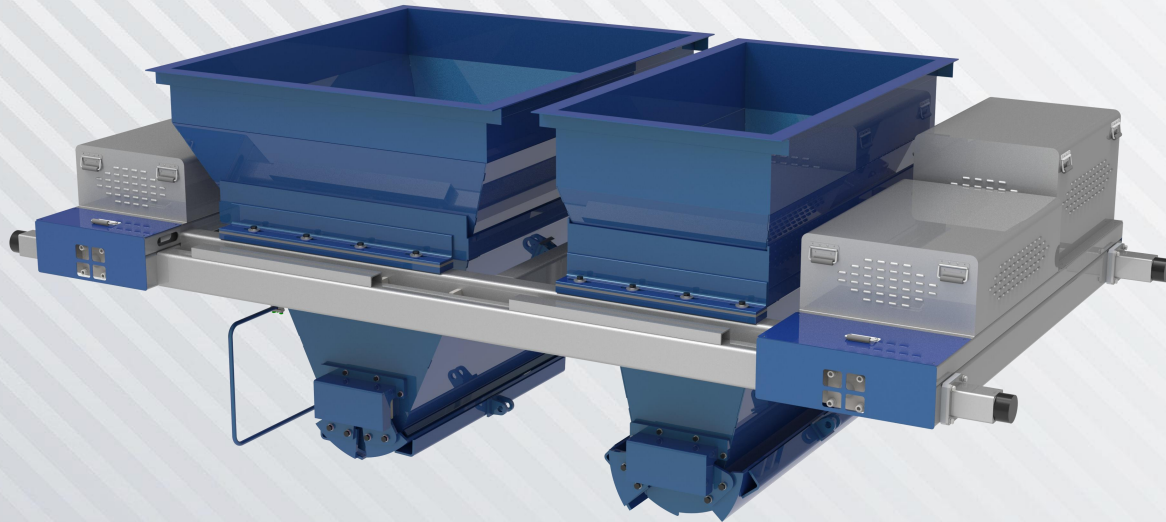
Ground equipment occupies floor space.



Requires extensive cabling and auxiliary equipment.

VINKING-RGV FLY BUCKET

Make your concrete block production line faster, more stable, and hassle-free.



THANKS!

Looking forward to working with you!

FUJIAN VINKING MACHINERY CO., LTD.



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