



Cooperation, a career choice Silver Horse by winged steed



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西安银马
SILVER HORSE

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西安银马
SILVER HORSE

National High-Tech & SRDI Enterprises

**Xi'an Silver Horse Company's
innovation has led the way for block/stone integrated machines.**



XI'AN SILVER HORSE INDUSTRIAL DEVELOPMENT CO., LTD.

Address of leader



- ★ He is an expert receiving a special allowance from the State Council, and the senior engineer of mechanical design.
- ★ Undertaken a sub-topic project of the key R&D plan under the "Thirteenth Five-Year Plan" of the State
- ★ The member of the Expert Committee of China Construction Machinery Association
- ★ The senior expert in the industry, formerly hold a post at China Academy of Building Research

Dear friends,

I am honored that you have received and reviewed this product catalog of Xi'an Silver Horse Company. The Xi'an Silver Horse team's pioneering spirit and lofty aspirations have embodied in the content of product development and technological innovation. We have integrated classic European and American technologies with valuable experience of our partners to form a unique product style and corporate culture, becoming a professional service provider for high-end complete sets of concrete block/stone integrated equipment and solid wastes integration solutions.

In the face of global environmental challenges, Xi'an Silver Horse Company has actively assumed its social responsibility, responded to national environmental policies, seized the opportunity of comprehensive utilization of bulk solid wastes, and achieved a qualitative leap. We deeply understand that a win-win relationship with our partners is the cornerstone of the enterprise development and always believe that self-improvement is more important than surpassing our competitors. Xi'an Silver Horse Company provides our customers with first-class fully automatic concrete block/stone integrated equipment and digital plant construction solutions with our outstanding technical innovation ability and craftsman spirit.

We shoulder heavy responsibilities and constantly improve the R&D of new products as well as manufacturing processes. After more than 30 years of technological accumulation, Silver Horse 2025 series multipurpose block/stone integrated machine has been evaluated as "international leading level" by the Ministry of Science and Technology, with the significant international status.

The catalog will show you our product philosophy, technological advantages, industrial details, after-sales services and so on. Sincere thanks to the well-known entrepreneurs who have worked hand in hand with us. Their rigorous work attitude and broad mindedness have inspired the staff of Xi'an Silver Horse Company to move forward courageously, consolidate their foundation and seek innovation, and never forget their original intention while forging ahead on the path of solid wastes recycling and environmental protection.

Choose to collaborate with Silver Horse, achieve great success in your career path.

Yours faithfully,

The chair man, Mr. Yinghui Cao
Xi'an Silver Horse Industrial Development Co., Ltd.

Company profile

Xi'an Silver Horse Industrial Development Co., Ltd., as a national high-tech and "Specialized, Refined, Differentiated and Innovative" enterprise, has been dedicated to environmental protection and the utilization of solid wastes for more than 30 years. It specializes in R&D, manufacturing, sales and services of high-end complete sets of equipment for concrete brick/stone, and is committed to providing customers with integrated solutions of industrial solid wastes. The company is the vice president unit of Concrete Products Mechanical Branch of China Construction Machinery Association and the standing executive member of Shaanxi Council for Promotion of Economy and Trade, which enjoys a high corporate reputation. "Silver Horse 2025 series concrete multipurpose integrated technology and the intelligent production line" has been selected into the Catalogue of Advanced Applied Technologies and Equipment for the Comprehensive Utilization of National Industrial Resources (2023 edition). Independently developed Silver Horse 2025 series multipurpose block/stone integrated machine by the company, is a pioneering innovation in the industry and internationally leading, successfully breaking through the technical barriers and achieving high-quality development from block making to stone manufacturing of solid wastes, driving technological progress. Meanwhile, the series of Elsa & Cougar block making machine have also won prestigious awards such as "Famous Brands in China" for their outstanding performance. The company has passed ISO9001 quality management system and EU CE certificate, participated in the formulation of many national/industry standards, and undertaken the research task of a key subproject under the "Thirteenth Five-Year Plan" of the State. Its technical R&D strength has always been at the forefront of the industry. The company has won numerous honors, including the Science and Technology Progress Award, AAA-level Credit Enterprise, the Gold Award for Application Contribution of TOP50 Products of Construction Machinery 2023, the Gold Award for Technological Innovation Product and so on.

The company has gathered a team of large number of professionally technical talents with different sciences, led by senior experts in the industry, established the international standing in the industry by its strong R&D strength of products. Originated from the depth of cultural knowledge, in integration of the leading edge of the world's science and technology, we strive to make our products to better meet the actual needs of the market and customers in every technical detail, by the crafted serial products of the company, at the same time, committed to helping customers build high-end green factories, promoting sustainable development of the industry, constantly optimizing and upgrading, and leading the future.



The first set of multipurpose block/stone integrated machine in the industry



Sliver Horse 2025 series multipurpose block/stone integrated machine - the new process

National patent technology of invention



The integration of block and stone is realized, by the leading technology internationally.



Green and energy conservation are achieved, compatible with industrial and building solid wastes.



Block and stone products are diversified, by the static pressure & vibrating integrated process.



Easy maintenance and time-saving are come true, by cloud-based remote services for the fault diagnosis.

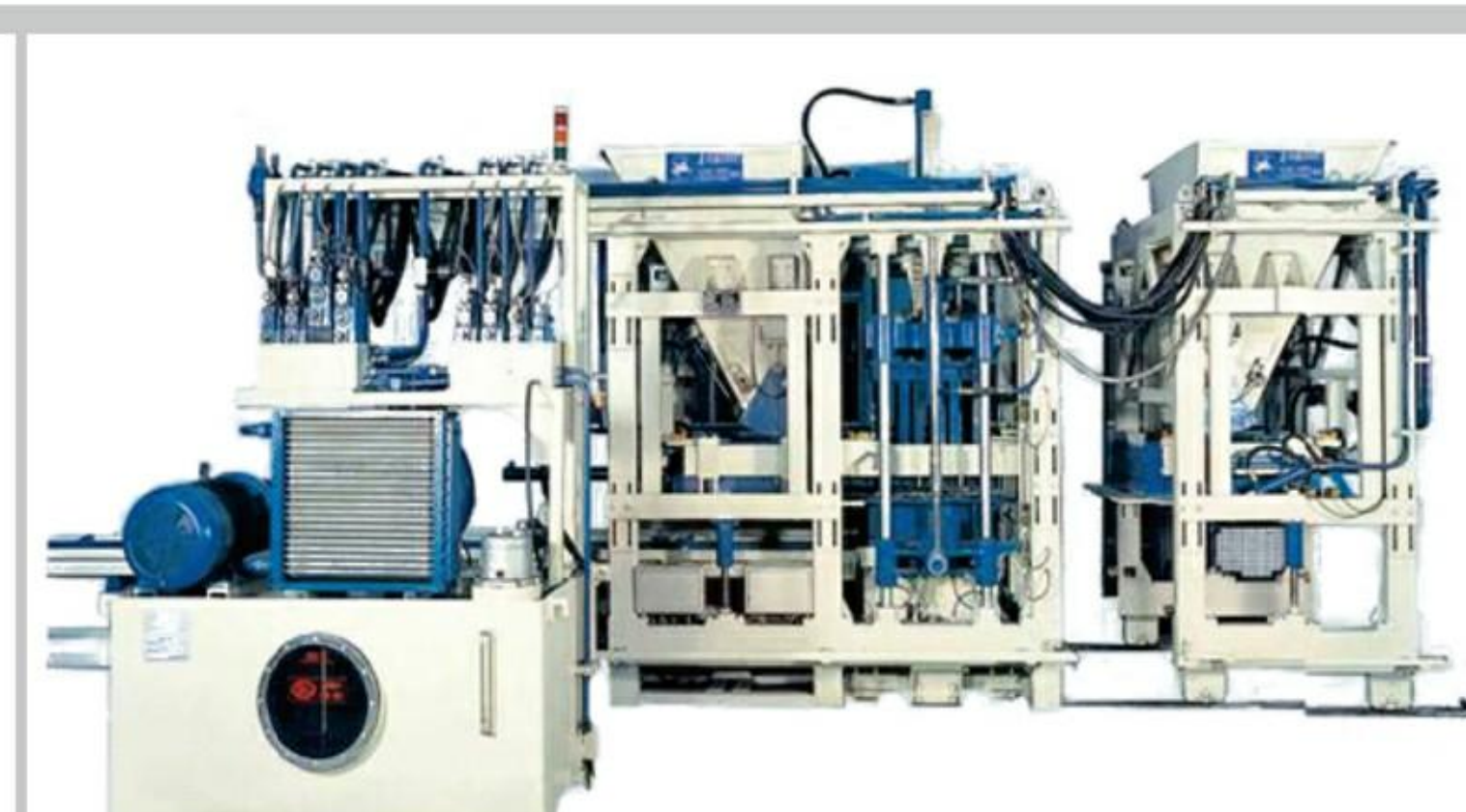
Parameters

The forms of vibration	High strength static pressure & servo vibration [Integrated the static pressure & vibrating and composite making]	PC artificial stone 300×150×60mm	18 pcs./pallet
Pallet size (L x W)	1350×1150mm	Hollow block 390×190×190mm	12 pcs./pallet
The total power of the main machine	about 165KW	The boundarydimensions of the main machine	about 16000×3000×6100mm

It is rated as the international leading level by the Ministry of Science and Technology.



Cougar 2000A* fully automatic block making machine (QFT4-15)



Super Cougar 2000B fully automatic block making machine (QFT6-16)



Super Cougar 2001 fully automatic block making machine (QFT9-16)



Elsa 2001 fully automatic block making machine (QFT15-18)



Sliver Horse 2025PLUS/TOP multipurpose block/stone integrated machine



Silver Horse 2025SE multipurpose block/stone integrated machine

Silver Horse 2025PLUS/TOP multipurpose block/stone integrated machine



- The new process of "the combination of pressure and vibration, and the new technology of high pressure and vibration and extrusion and melting" (the patent technology for invention) has been made, through the integration of high efficiency servo vibration and large tonnage static pressure. This breaks the technical barrier of incompatibility between traditional block and stone equipment, achieving the integration of them.
- Broken through the technical limitations of traditional block making machines that rely on granular materials, it can effectively make use of various coarse and fine materials of solid wastes, and realize the utilization of solid wastes.
- Incorporating AI intelligent computing power and algorithms, the system optimizes key parameters in the making process for self-adaptive adjustment, ensuring high precision and density of the product.

● Parameters

The forms of vibration	High strength static pressure & servo vibration [Integrated the static pressure & vibrating and composite making]	PC artificial stone 300×150×60mm	24/28 pcs./pallet
Pallet size (L x W)	1400 × 1200mm 1400 × 1300mm	Hollow block 390 × 190 × 190mm	15/18 pcs./pallet
The total power of the main machine	about 200KW	The boundary dimensions of the main machines	about 20000×3300×6100mm about 20000×3700×6400mm

Silver Horse 2025SE multipurpose block/stone integrated machine

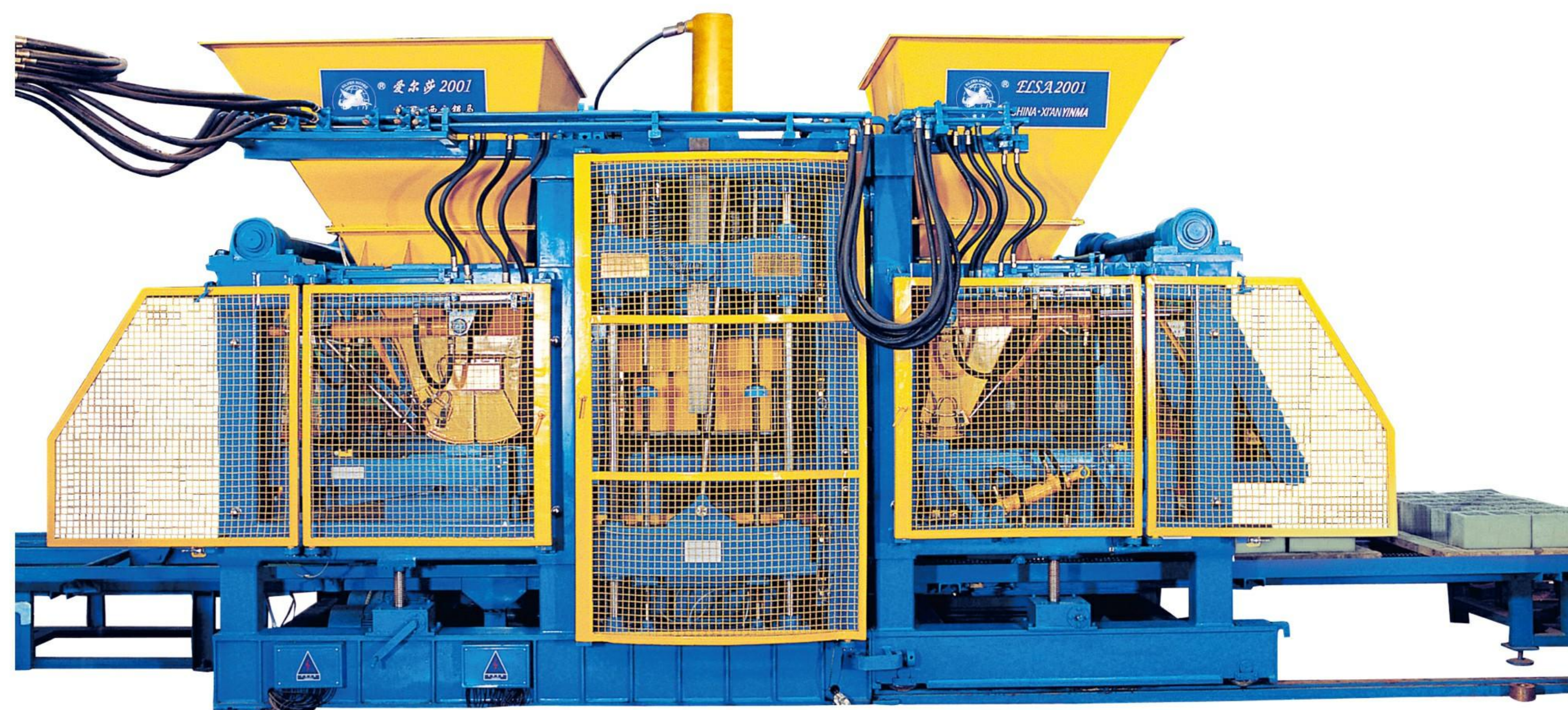


- The new process of "the combination of pressure and vibration, press up and vibrate down" has been adapted by the main machine, enabling easy production of various blocks and artificial stones to meet the diverse and high-end market needs.
- The entire line is controlled by intelligent systems, with simple computer operation and precise robot stacking, eliminating any heavy physical labor.

● Parameters

The forms of vibration	High strength static pressure & servo vibration [Integrated the static pressure & vibrating and composite making]	PC artificial stone 300 × 150 × 60mm	12 pcs./pallet
Pallet size (L x W)	1250 × 900mm	Hollow block 390 × 190 × 190mm	9 pcs./pallet
The total power of the main machine	about 80KW	The boundary dimensions of the main machine	about 15000 × 2700 × 4700mm

Elsa 2001 fully automatic block making machine (QFT15-18)



- This model features a vibrating heart system (patented invention), controlled by a computer chip servo, achieving high-energy drive. Paired with multi-axis virtual electronic gear transmission, it generates an instantaneous super 30g vibration acceleration (far exceeding the 20g of European similar models), causing the material to quickly liquefy and densely compact into a shape in 2 seconds, making the product more uniform and dense, of superior quality.
- The large classic block making machine, with its robust and reliable body and elegant appearance, perfectly combines strength and beauty with outstanding quality, showcasing extraordinary strength and sophisticated style.

Parameters

The forms of vibration	Chip servo vibration	Paving stone 200×100×60mm	60 pcs./pallet
Pallet size (L x W)	1400 × 1200mm	Hollow block 390×190×190mm	15 pcs./pallet
The total power of the main machine	about 115KW	The boundary dimensions of the main machine	about 15000 × 3300 × 4200mm

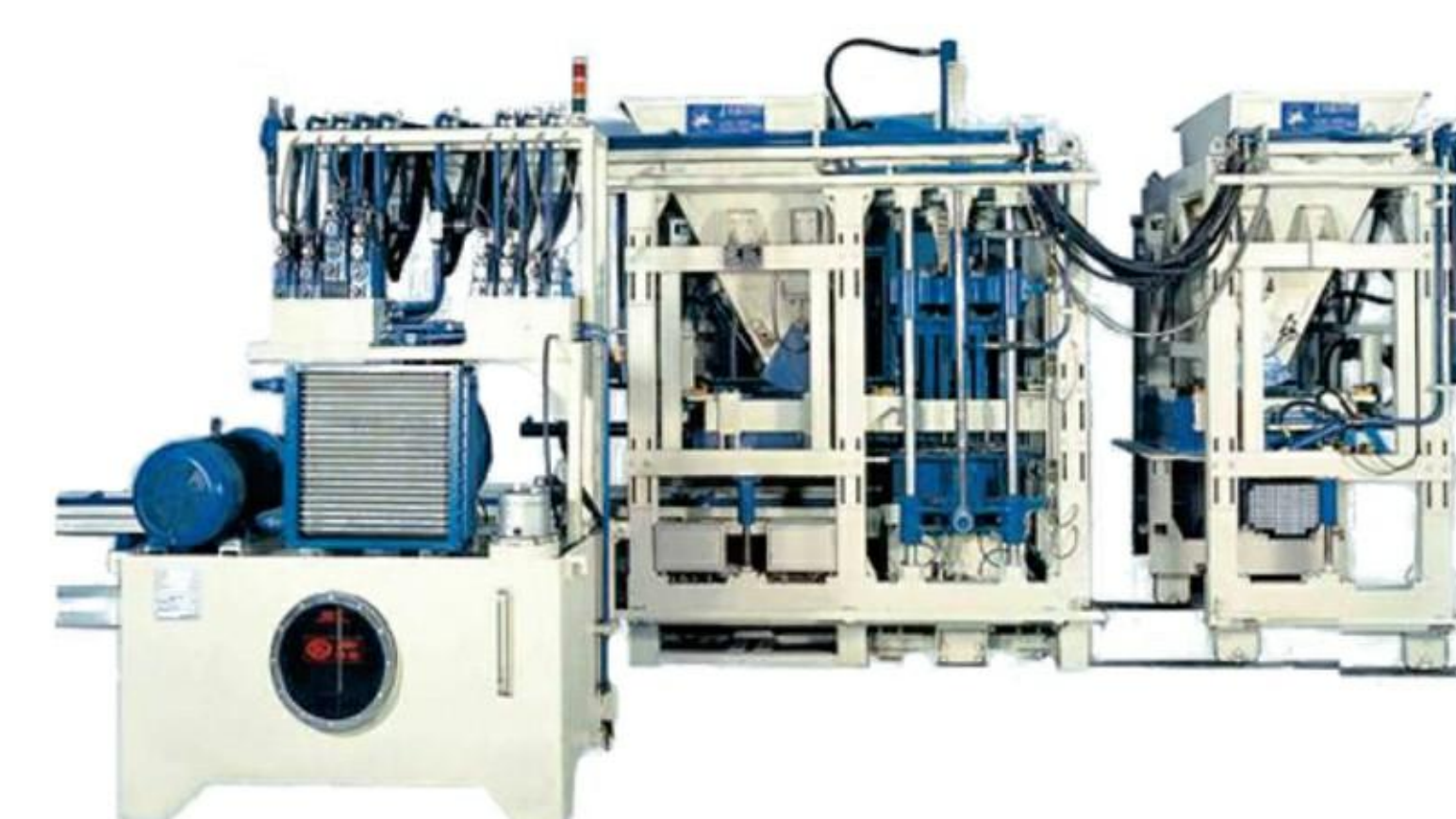


Super Cougar 2001 fully automatic block making machine (QFT9-16)

- A four-axis chip servo vibration system is used by the main machine. With the comprehensive upgrade, it makes rapid molding of products with uniform quality and high density;
- The intelligent control system is used in the production line, realized efficient human-machine interaction, providing convenient operation and a high degree of automation.

Parameters

The forms of vibration	Chip servo vibration	Paving stone 200×100×60mm	40 pcs./pallet
Pallet size (L x W)	1250×900mm	Hollow block 390×190×190mm	9 pcs./pallet
The total power of the main machine	about 70KW	The boundary dimensions of the main machine	about 14000×2700×3250mm



Super Cougar 2000B fully automatic block making machine (QFT6-16)

- Equipped with an automated operating system, it can be started with one click, allowing easy control without worries;
- The intelligent design and modular combination ensure more convenient and efficient assembly and disassembly.

Parameters

The forms of vibration	Chip servo vibration	Paving stone 200×100×60mm	27pcs./pallet
Pallet size (L x W)	1100×670mm	Hollow block 390×190×190mm	6pcs./pallet
The total power of the main machine	about 49KW	The boundary dimensions of the main machine	about 9500×2450×3000mm



Cougar 2000A* fully automatic block making machine (QFT4-15)

- Exquisite and flexible, with simple operation;
- Low investment, quick return.

Parameters

The forms of vibration	Chip servo vibration	Paving stone 200×100×60mm	20pcs./pallet
Pallet size (L x W)	1000×620mm	Hollow block 390×190×190mm	4pcs./pallet
The total power of the main machine	about 26KW	The boundary dimensions of the main machine	about 6100×1900×2850mm

Dual-core and dual line parallel fully automatic block/stone production line



- ★ The first set of multipurpose block/stone integrated machine in the industry & the national patent product for invention
- ★ Advanced, high-efficiency and energy-saving coordinate type palletizing robot
- ★ Contained a double block making machine, energy conservation and consumption reduction, green manufacturing
- ★ The dual-core integrated intelligent control system has been optimized and upgraded. The wisdom of operation is at your fingertips.



01 Materials batching system



02 Materials mixing system



03 The making system of the main machine



04 Ascending/Descending slab system



05 Kiln car transferring system



06 PLC control system of the production line



07 The packaging system

The arrangement of fully automatic block/stone making production line



1	Batching machine	13	Kiln conveyor(mother-conveyor)
2	Color materials mixer	14	Kiln conveyor(son-conveyor)
3	Base materials mixer	15	Curing kilns
4	Screw conveyer	16	Pallet descender
5	Cement silo	17	Pallet lowering conveyor
6	Cement weighing	18	Coordinate type palletizing robot
7	Color materials belt conveyor	19	Chain plate conveyor
8	Base materials belt conveyor	20	Overturning device
9	The main machine	21	Pallet pusher
10	Wet blocks conveyor	22	Pallet storage device
11	Pallet feeder	23	PLC control room
12	Pallet elevator	24	The packaging system

The arrangement of automatic block/stone making production line with open cycle

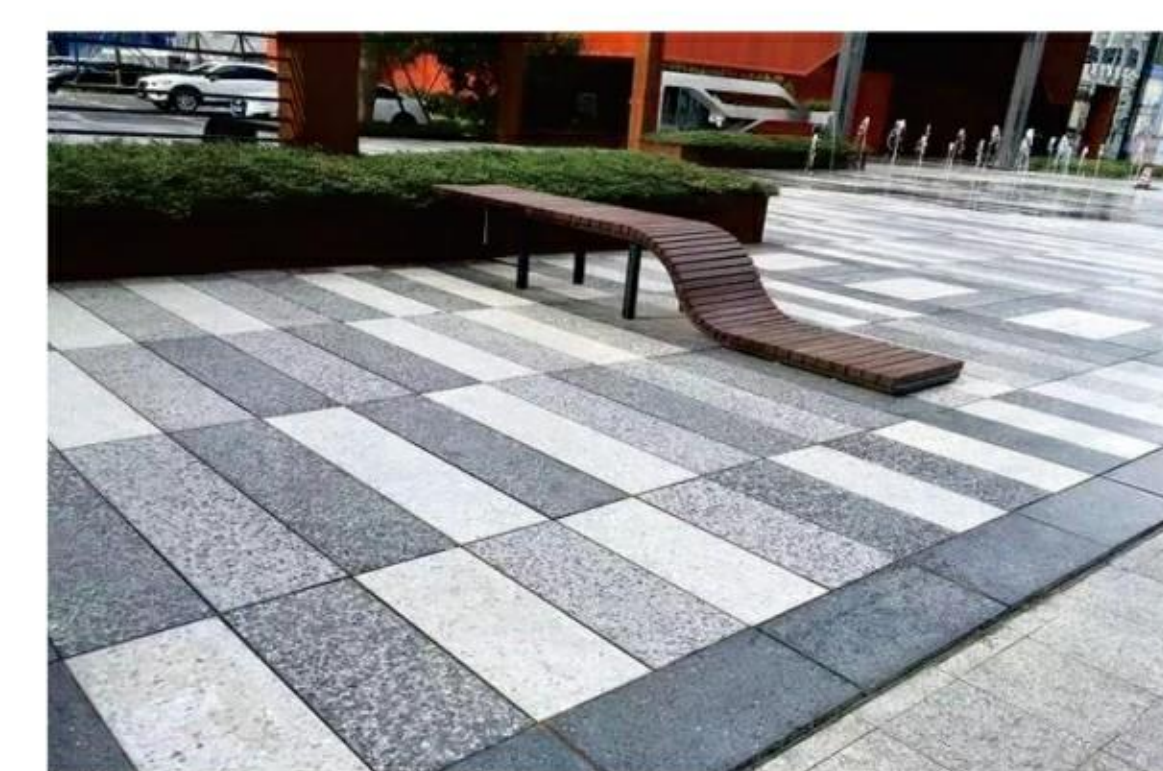
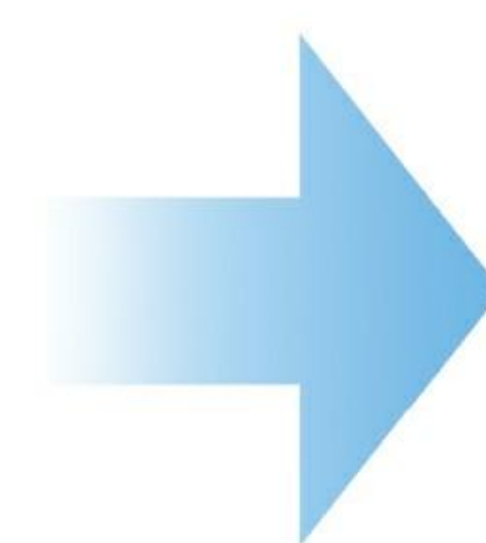


1	Batching machine	12	Stacker
2	Color materials mixer	13	The product area
3	Base materials mixer	14	Unloader
4	Screw conveyer	15	Pallet unloading conveyor
5	Cement silo	16	Coordinate type palletizing robot
6	Cement weighing	17	Chain plate conveyor
7	Color materials belt conveyor	18	Overturning device
8	Base materials belt conveyor	19	Pallet pusher
9	The main machine	20	Pallet storage device
10	Wet blocks conveyor	21	PLC control room
11	Pallet feeder	22	The packaging system

Silver Horse 2025 series multipurpose block/stone integrated machine and the intelligent production line



- The utilization of solid wastes knows no boundaries; turning it into treasure shows true value.
- Green blocks and artificial stones can be made of the high mixing proportion of solid wastes for a sustainable future.
- Broken through the tradition; innovated in making blocks and stones from solid wastes
- Integrated solutions, fully committed to creating a green factory



The entire closed-loop production process is composed of a pallet transferring system (the wet block made by single mould), an AI unmanned driving system for kiln car transferring system, an fully automatic coordinate palletizing robot system by self-developed, a surface regrouping and grinding system, an AI intelligent remote maintenance system, etc., which has high intelligence, simple & smooth process and efficient production.



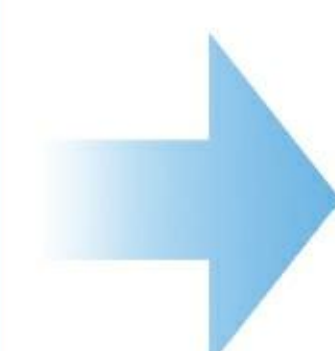
The products produced by this process have the advantages of exquisite appearance, high density and strength, good resistance to freeze-thaw, wear resistance and so on, which meet the structural and decorative functional requirements of buildings.

The technology and the equipment for the deep processing of products
—The production line for the secondary processing of polished artificial stone



- Reject the useless procedure, simplify and better the production with the new technology of three-dimensional integration
- Polishing with a waterstone is dust-free, green, and pollution-free.
- The circulation of products online is not only saving time and labor, but more efficient.
- Integrated the technology of block/stone, promoting high-value development of solid wastes
- The optional quality is diverse styles without limitation.

The 3D true color is the latest trends of stone.
The three-dimensional imaging is beautiful and vivid.



The grinding system is composed of multiple grinding devices, which can adjust the sensing and regulation of multiple contact points to adapt to the grinding of products of different heights. The execution process is flexible and randomly adjustable, thus achieving three-dimensional grinding of the surface, side, and chamfer of the product to achieve decorative effects similar to natural stone.



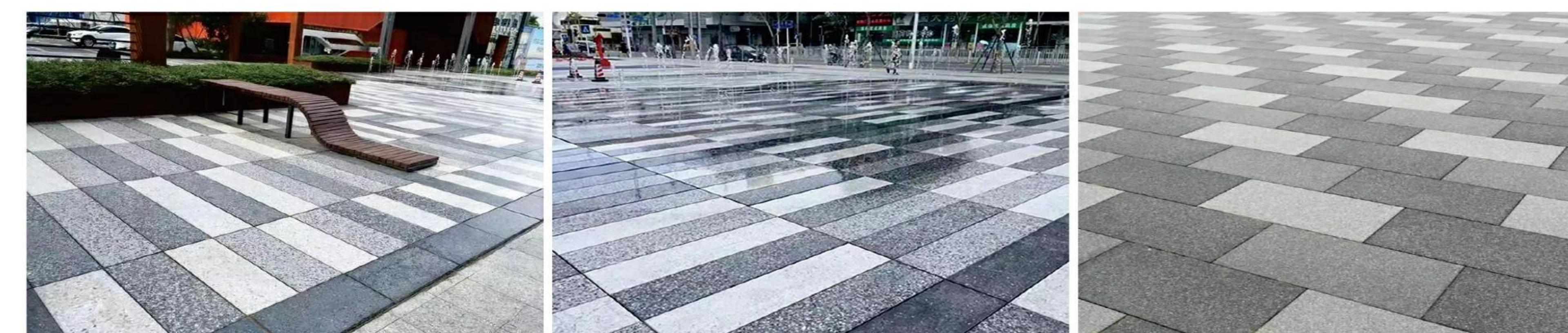
The secondary grouping and grinding system for products uses intelligent human-machine interaction and closed - loop adaptive control with high - precision position detection, and realizes digital grinding of products.

Display of products

PC artificial stone 400X200X60(mm)	PC artificial stone 300X300X60(mm)	PC artificial stone 600X300X60(mm)	Artificial curbstone 750X120X350(mm)	PC artificial stone 350X350X150(mm)
Paving stone 200X100X60/80(mm)	Paving stone 200X200X60/80(mm)	Paving stone 200X200X60/80(mm)	H-shape paver 200X165X60/80(mm)	Paving stone 200X200X60/80(mm)
Lawn block 447X298X80/100(mm)	Lawn block 250X250X80/100(mm)	Lawn block 210X210X80/100(mm)	Maple leaves brick 194X196X60/80(mm)	Interlocking block 250X140X60/80(mm)
Slope-protection brick 403X302X100(mm)	Slope-protection brick 1000X500X120(mm)	Slope-protection brick 300X260X100(mm)	Slope-protection brick 403.2X351.6X80/100(mm)	Paving brick 225X112.5X60/80(mm)
Curbstone 800X150X320(mm)	The color curbstone 500X120X300(mm)	The strip curbstone 500X100X200(mm)	Curbstone 750X120X300(mm)	Water channel block 750X550X450(50)(mm)
Hollow block 390X190X190(mm)	Solid brick 240X115X53(mm)	Porous block 240X115X90(mm)	Insulating block 390X190X240(mm)	Arc broaching block 314X180(240)X180(mm)

Application of products

PC artificial stone

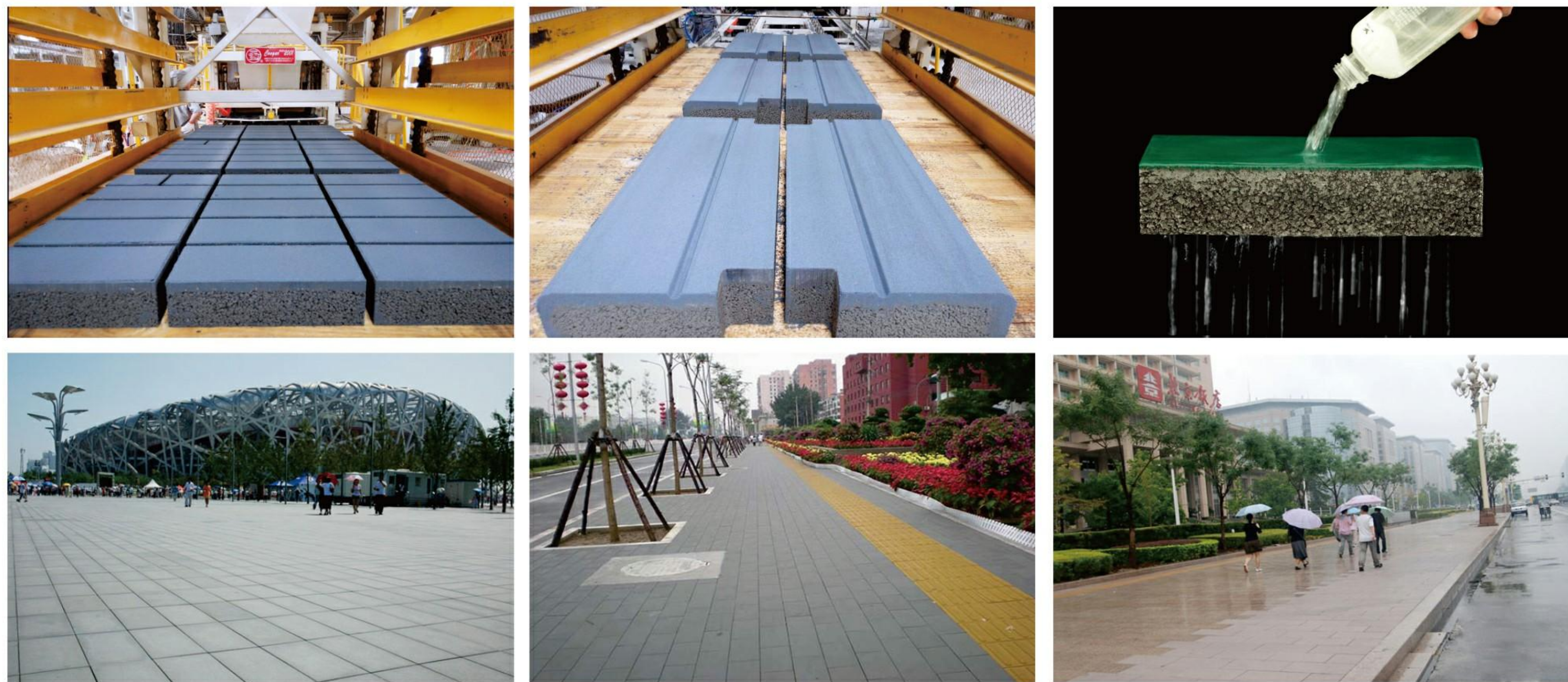


Ecological slope-protection brick



- ★ The ecological balance is maintained, by means of permeability.
- ★ Strong and durable, helped the soil stability and the slope protection
- ★ Various brick types, compatible with all types of slope protection
- ★ The design of interlock is convenient in construction.

The permeable brick for “sponge city” construction



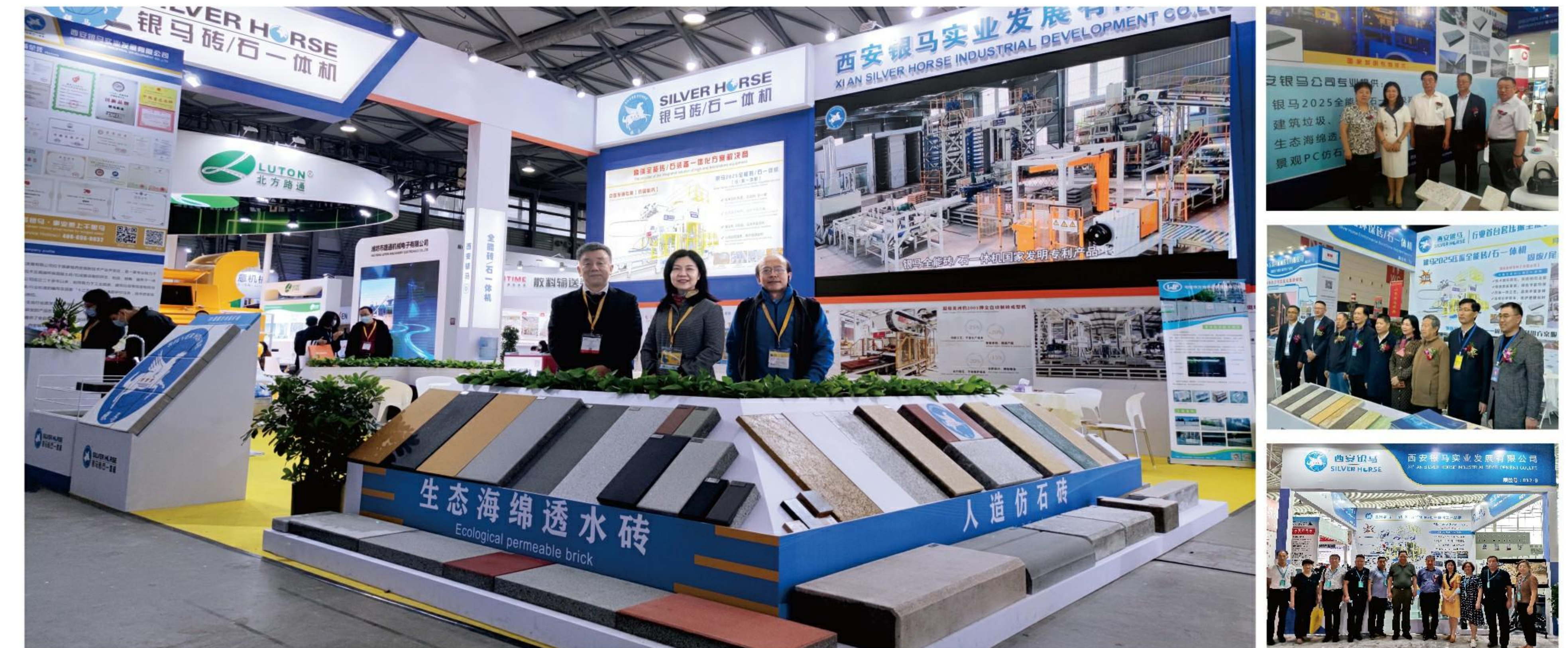
- ★ Combined six functions into one: infiltration, storage, retention, purification, use and drainage
- ★ With the delicate surface, it has a better stone-like effect.
- ★ Reasonable structure, high strength permeability
- ★ Harmony between human and nature, building a green home together
- ★ The ecological balance is maintained, by means of permeability.
- ★ Heat dissipation, protection from radiation, and eased off the heat island effect

Other applications



Humanistic Silver Horse – in-depth exchange to build a brilliant future together

- We are always committed to providing our customers with high-end products and excellent services. We strive relentlessly to achieve this goal without ever becoming complacent.
- Our employees grow alongside the company and work together with our customers to achieve mutual success. We uphold our core values, continuously innovate, enhance our image, build an outstanding brand, unleash the potential of our team, and showcase the vitality and creativity of our enterprise.



Comprehensive after-sales services – offer consultant services during the entire process

- We always adhere to the service philosophy of putting customers first and provide on-site guidance and operational training for users, permanent after-sales services, and the information support through network and telephone and so on. You can enjoy our services comfortably.



Cloud-based remote services system for the fault diagnosis

Incoming material analysis / testing / sample preparation

Technical parameters for block/stone making machine of
Xi'an Silver Horse Company

TYPE SPECIFICATION	A series of block machines		A series of multipurpose block/stone integrated machines		
	Super-Cougar2001 QFT9-16	EISA2001 QFT15-18	Sliver Horse2025 ^{SE}	Sliver Horse2025	Sliver Horse2025 ^{PLUS}
Cycle time	13~20(sec)	15~22(sec)	15~25(sec)	18~25(sec)	18~25(sec)
Pallet size (LXW)	1250×900 (mm)	1400×1200 (mm)	1250×900 (mm)	1350×1150 (mm)	1400×1200 (mm)
Vibration frequency	0~65(Hz)	0~65(Hz)	0~65(Hz)	0~65(Hz)	0~65(Hz)
The forms of vibration	Variable frequency & adjustable amplitude	Variable frequency & adjustable amplitude	Compatibility of the vibration and the static pressure	Compatibility of the vibration and the static pressure	Compatibility of the vibration and the static pressure
Driving engine	The servo driven mode and the variable rotating magnetic field	The servo driven mode and the variable rotating magnetic field	The servo driven mode and the variable rotating magnetic field	The servo driven mode and the variable rotating magnetic field	The servo driven mode and the variable rotating magnetic field
Range of application	Wall block/paving block	Wall block/paving block	PC artificial stone/wall block/paving block	PC artificial stone/wall block/paving block	PC artificial stone/wall block/paving block
Damping device	Gas mat suspender	Gas mat suspender	Gas mat suspender	Spring anti-vibration	Spring anti-vibration
Power source	Kee-jerk hydraulic drive	Kee-jerk hydraulic drive	Kee-jerk hydraulic drive	Kee-jerk hydraulic drive	Kee-jerk hydraulic drive
Hydraulic directional control valve	Well-known brands	Well-known brands	Well-known brands	Well-known brands	Well-known brands
Materials distributing device	Rotary feeding device	Rotary feeding device	Rotary feeding device	Rotary feeding device	Rotary feeding device
Human-machine interface (HMI)	10"industry vivid or touch screen(optional)	10"industry vivid or touch screen(optional)	10"industry vivid or touch screen(optional)	10"industry vivid or touch screen(optional)	10"industry vivid or touch screen(optional)
The total power of the main machine	about 70KW	about 115KW	about 80KW	about 165KW	about 200KW
The total power of the production line	about 320KW	about 480KW	about 365KW	about 500KW	about 600KW
The boundary dimensions of the main machine	14000×2700×3250 (mm)	15000×3300×4200 (mm)	15000×2700×4700 (mm)	16000×3000×6100 (mm)	20000×3300×6100 (mm)

Specification and quantity of block/stone production line of
Xi'an Silver Horse Company

TYPE SPECIFICATION	A series of block machines		A series of multipurpose block/stone integrated machines			Color Sample (LXWXH)
	Super-Cougar2001 QFT9-16	EISA2001 QFT15-18	Sliver Horse2025 ^{SE}	Sliver Horse2025	Sliver Horse2025 ^{PLUS}	
Forming Blocks (piece)	9	15	9	12	15	 Hollow block 390×190×190 (mm)
Output/hour (block/hour)	1600~2100	2400~3200	1600~2100	1900~2700	2400~3200	
Forming Blocks (piece)	40	60	40 (PC artificial stone 30 pcs./pallet)	55 (PC artificial stone 45 pcs./pallet)	60 (PC artificial stone 54 pcs./pallet)	 Paving stone 198×98×60 (mm)
Output/hour (block/hour)	6500~7000	9000~10000	4300~7200	5400~9900	6500~10000	
Forming Blocks (piece)	4	6	4	4	6	 Curbstone 700×220×120 (mm)
Output/hour (block/hour)	500~600	700~900	500~600	500~600	700~900	
Forming Blocks (piece)	4	8	4	6	8	 Lawn block 447×298×80 (mm)
Output/hour (block/hour)	600~700	1100~1300	600~700	830~980	1100~1300	
Forming Blocks (piece)	56	84	56/44	72/56	84/66	 Solid brick 240×115×53 (mm)
Output/hour (block/hour)	10000~12000	15000~17000	8800~12000	10000~14000	12000~17000	
Forming Blocks (piece)	/	/	12	18	24	 PC artificial stone 300×150×60 (mm)
Output/hour (block/hour)	/	/	1200~1440	1900~2200	2500~2900	
Forming Blocks (piece)	/	/	2	2	2	 PC artificial curbstone 750X120X350(mm)
Output/hour (block/hour)	/	/	160~180	160~180	160~180	

Note: Xi'an Silver Horse Company reserves the right to optimize the design of the product. If our company has any changes, we will not be notified separately.

★ Kindly reminder:owing to different quality requirements of materials and products,Silver Horse company has the right to optimize the design.
The above parameters are for reference only.