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QGM Quangong Machinery, which was founded in the year 1979, is the leading supplier of concrete machinery and plant, with 35 years experience.

1. 150,000 m<sup>2</sup> factory, 500 workers, 50 R&D engineers and 68 technicians;
2. Our company fully implements 6S, ERP, ISO9001 Quality Management System and ISO14001 Environment Management System;
3. QGM applies Germany Technologies in our concrete machinery and plant:
  - A. Concrete Block and Paver Making Plant;
  - B. AAC Block Making Plant.
  - C. Concrete Mixing and Batching Plant;
4. Our machines, with CE certificate, have independent intellectual property rights, and are granted as "Well-Known Trademark of China";
5. QGM has 16 overseas offices and 25 overseas warehouses;
6. Our machines are well distributed and can be found in use in more than 108 countries and areas;
7. With Quality and Service, We Provide the Integrated Solutions for Block Making and Concrete Mixing.



福建泉工股份有限公司  
Quangong Machinery Co., Ltd

## Quangong Machinery Co.,Ltd

We Provide Integrated Solutions For Block Making

We are the specialist in:  
Concrete Blocks and Pavers Making Plant;  
AAC Blocks and Bricks Making Plant;  
Ready-mixed Concrete Batching and Mixing Plant.





### Leadership

The endless river eastward flows, with its huge waves are gone all those gallant heroes of bygone years. QGM seizes each and every opportunity of development in the market, to keep competitive in the fast growing industry of construction machinery. We are endeavoring to build the No.1 Brand In China.

董事长:  
Chairman: Fu Binghuang

### Company Profile

- Founded in 1979, QGM is the leading block machine manufacturer and has the longest history in China.
  - Start from 2012, QGM has set up office around the world, include Russia, Saudi Arabia, Oman, Libya, Algeria, Indonesia, India, Brazil, Mexico, with the sales growing, more new offices will be set up soon to serve our clients.
  - In 2012, QGM acquired 40 Germany engineers from Germany famous block machine manufacturer and set up global R&D Center in Emden, Germany.
  - In 2013, by applying most advanced technology from QGM Germany R&D Center, new model T10 and T15 launched, the T series block machine are well known for its high production capacity and stable performance.
  - In 2014, two new subsidiaries joined QGM Group, which are Zenith Emden and Zenith Neunkirchen.
- Benefit from the close collaboration between the above 2 Germany subsidiaries and QGM China manufacturing center, QGM Group is able to provide a wide range products to our users, from simple automatic production line to fully automatic production line, from middle class to high class.



Engineers in QGM Germany Global R&D Center



Engineers in QGM China Manufacturing Center



Service Engineers



Factory Overview of Zenith Neunkirchen





# 6 CORE TECHNOLOGIES

## 01 High-efficient Vibration

Adopt the most-advanced vibration technology from Germany. The vibration table consists of dynamic table & static table, which greatly improve the vibration efficiency and guarantee the high quality of concrete products



## 02 High-efficient Hydraulic System

The hydraulic pump & valve are from international brand. Adopt high-dynamic proportional valve and constant output pump to adjust the oil speed & pressure, with the features of high-stability, high-efficiency and energy-saving



## 03 Frequency conversion control & Energy-saving

Frequency conversion technology was re-innovated and improved by Germany R&D center. It can save 20%-40% power by adjusting the frequency converter, compared to traditional motor; at the same time, it can greatly improve the quality of concrete products and prolong the motor lifetime.



## 04 Fully-automatic Control

Perfectly combine the automation technology and system from Germany. The automatic control is of easy operation, low failure ratio and high reliability.



## 05 Compulsory Feeding

Uses two SEW feeding motors, which control two mixing shafts. The feeding frame, bottom plate & mixing blades are made of high-duty HARDOX steel, which strengthen the sealing performance and prevent the material leakage. The discharging gate is controlled by SEW motor.



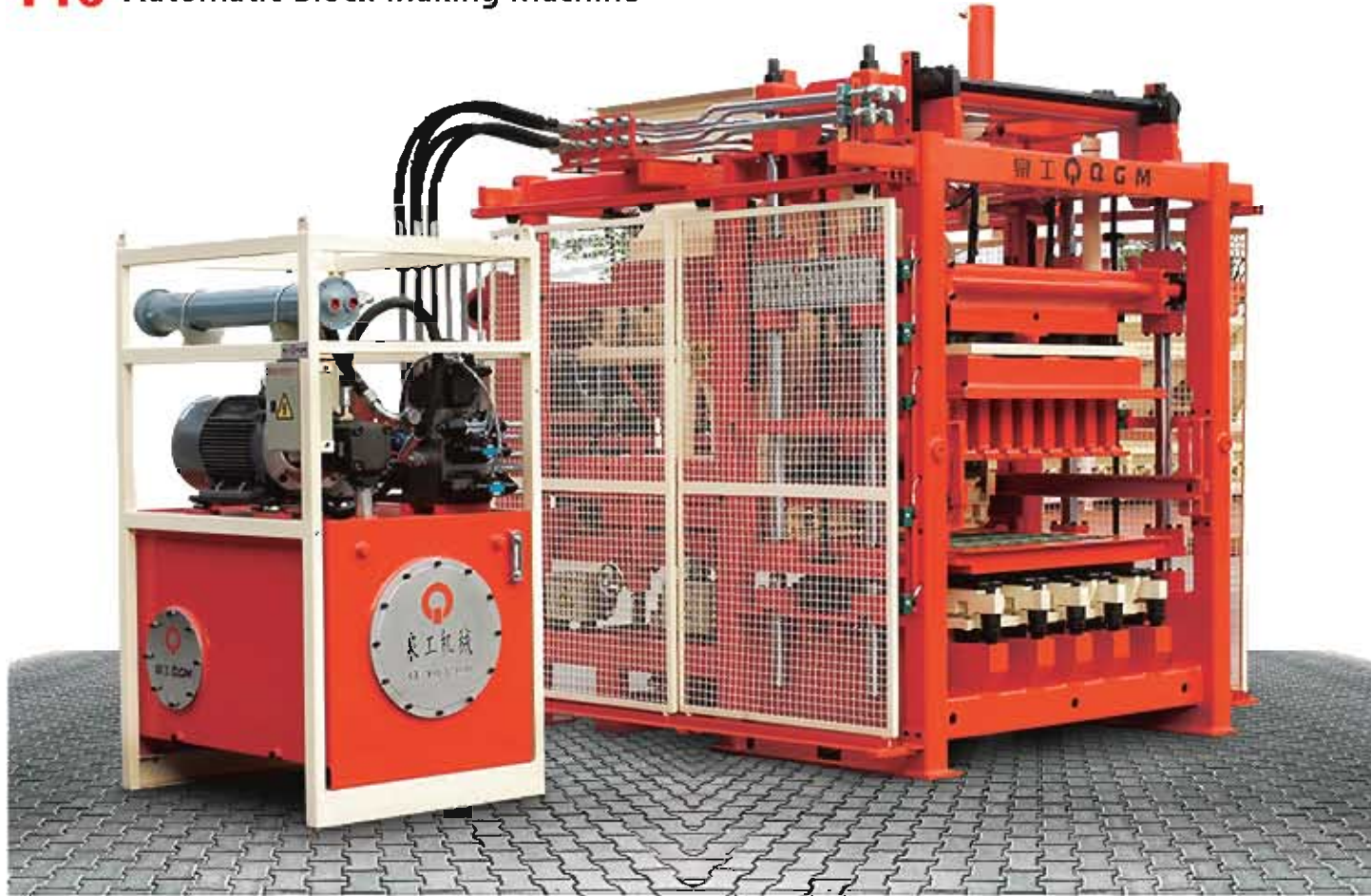
## 06 Remote control(Optional)

Use the most-advanced industrial internet technology, with the advantages of remote control & operation, automatic trouble-shooting & maintenance.





**T10 Automatic Block Making Machine**



Vibration System

Feeding System

Hydraulic System

Control System

Technical Parameters	Forming Area	1,100 x 820mm	Bottom Vibration	2 x 7.5kW
	Height of Finished Products	50-300 mm	Top Vibration	2 x 0.65kW
	Cycle Time	15-25 s ( as per mould )	Electrical Control	Siemens
	Hopper Volume	900L for Base Concrete 750L for Face Concrete	Power	39.85 kW
	Pallet Size	1,200 x 870 x 45 mm 1,200 x 870 x 12 mm	Total Weight	9.0 T ( Without Facemix ) 12.0 T ( With Facemix )

Product	Size	PCS/Mould	PCS/ 8h	
Hollow Block	400x200x200mm	10	12,000-15,000	
Rectangular Paver (with face mix)	200x100x60mm	35	42,000-52,500	
Zig-zag Paver	225x112.5x60mm	24	28,800-36,000	

\* The capacity data are theoretical and are dependent on machine settings, mix design, aggregates used and other environmental conditions

**T15 Automatic Block Making Machine**



Vibration System

mould

Hydraulic system

Feeding system

Technical Parameters	Forming Area	1,300 x 1,050 mm	Bottom Vibration	4 x 7.5 kW
	Height of Finished Products	50-500 mm	Top Vibration	2 x 1.1 kW
	Cycle Time	12-20 s ( as per mould )	Electrical Control	Siemens
	Hopper Volume	3.8m³ for aggregate 3.8m³ for facemix	Power	47.5 kW
	Pallet Size	1,400 x 1,100 x 50 mm 1,400 x 1,100 x 14 mm	Total Weight	18.3 T ( Without Facemix ) 25.2 T ( With Facemix )

Product	Size	PCS/Mould	PCS/ 8h	
Hollow Block	400x200x200mm	15	18,000-22,500	
Rectangular Paver (with face mix)	200x100x60mm	54	64,800-81,000	
Zig-zag Paver	225x112.5x60mm	40	48,000-60,000	

\* The capacity data are theoretical and are dependent on machine settings, mix design, aggregates used and other environmental conditions



**QT10 Automatic Block Making Machine**  
Patent Technology  
Frequency Conversional Control



**QT6 Automatic Block Making Machine**



**Six Big Advantages**

1. Germany Siemens PLC control system, Siemens touchscreen, Germany Siemens electrical components.
2. Germany Frequency Conversional Control Technology.
3. Double High-dynamic Proportional/Directional Valves to automatically adjust the oil flow and pressure.
4. 360° Multi-Shaft Rotating and Compulsory Feeding.
5. Heat Treatment on moulds and main parts of the machine.



Siemens PLC & Touchscreen



Electrical Cabinet



Electrical components



Frequency Converter



Vibration Transmssion Shaft



Double High-dynamic Proportional Valve



Feeding Device



Mould



**Technical Specifications ( QT10 )**

Cycle Time	15-20S	Vibration Force	100KN	Block Specification	Production per Mould(pcs)	Production per Shift (pcs)
Total Power	52KW	Machine Size	8,100x4,450x3,000mm 9,600x4,450x3,000mm	400x200x200mm	10	11,000-14,000
Motor Frequency	50-60HZ	Total Weight	15T	400x150x200mm	14	15,000-19,000
Pallet Size	1,250x850(8-35)mm	Production Area	1,150x800mm	200x100x60mm	35	38,500-49,000
				225x112.5x60mm	27	29,700-37,800

**Technical Specifications ( QT6 )**

Cycle Time	15-20S	Vibration Force	60KN	Block Specification	Production per Mould(pcs)	Production per Shift (pcs)
Total Power	31KW	Machine Size	5,210x3,530x2,780mm	400x200x200mm	6	6,600-8,400
Motor Frequency	50-60HZ	Total Weight	7.5T	400x150x200mm	8	8,800-11,000
Pallet Size	850x680(8-35)mm	Production Area	800x630mm	200x100x60mm	21	23,000-29,400
				225x112.5x60mm	15	16,500-21,000





**1. Fully Automatic Production Line**

- |   |                                  |                                  |                                     |
|---|----------------------------------|----------------------------------|-------------------------------------|
| 1 Silo  | 2 Screw Conveyor                 | 3 Batcher for Main Material      | 4 Batcher for Color Pigment         |
| 5 Mixers for Main Material and Color Material | 6 Belt Conveyor                  | 7 Automatic Block Making Machine | 8 Transporting Conveyor Belt        |
| 9 Elevator                                    | 10 Finger Car                    | 11 Lowerator                     | 12 Lengthways Latch Conveyor        |
| 13 Cuber                                      | 14 Shipping Pallet Magazine      | 15 Chain Conveyor                | 16 Pallet Conveyor                  |
| 17 Pallet Turning Device                      | 18 Control Room & Control System | 19 Curing Room                   | 20 Water and Cement Weighing System |



**2. Automatic Production Line with Central Control System**

- |                          |                                  |                          |                             |
|--------------------------|----------------------------------|--------------------------|-----------------------------|
| 1 Silo                   | 2 Screw Conveyor                 | 3 Mixer                  | 4 Aggregate Weighing System |
| 5 Belt Conveyor          | 6 Automatic Block Making Machine | 7 Facemix Device         | 8 Piler                     |
| 9 Central Control system | 10 Cement Weighing System        | 11 Water Weighing System |                             |

**3. Automatic Production Line**

- |                             |         |                 |                                  |                  |         |
|-----------------------------|---------|-----------------|----------------------------------|------------------|---------|
| 1 Aggregate Weighing System | 2 Mixer | 3 Belt Conveyor | 4 Automatic Block Making Machine | 5 Control System | 6 Piler |
|-----------------------------|---------|-----------------|----------------------------------|------------------|---------|





## Our Users All Around the World

### Sweden



### Africa

#### Algeria



#### Kenya



#### South Africa



### Southeast Asia

#### Sri Lanka



### Indonesia



### India



### Middle East

#### Saudi Arabia



#### Oman





**Middle East**

**Iraq**



**South America**

**Brazil**



**Colombia**



**Block Samples**  
 All Dimensions: mm

QSZ01	QSZ02	QSZ03	QSZ04	QSZ05	QSZ06	QSZ07	QSZ08	QSZ09	QSZ10
390x240x190	390x240x190	390x190x190	390x190x190	390x190x190	240x115x90	390x120x190	390x120x190	390x90x190	240x240x90
QSZ11	QSZ12	QSZ13	QSZ14	QSZ15	QSZ16	QSZ17	QSZ18	QSZ19	QSZ20
240x240x90	240x180x90	240x180x90	240x180x90	390x190x190	240x115x90	240x115x90	190x190x190	190x190x190	190x190x190
QSZ21	QSZ22	QSZ23	QSZ26	QSZ27	QSZ28	QSZ29	QSZ30	QSZ31	QSZ32
190x90x90	180x115x90	240x115x90	250x250x60	225x112.5x60	200x100x60	250x150x60	240x180x90	228x138x60	250x250x60
QSZ33	QSZ34	QSZ35	C1	C2	C3	C4	C5	C6	C7
400x200x200	400x240x200	400x240x200	400x400	400x400	400x400	400x200	600x400	400x400	300x300
H1	H2	H3	H4	B13	B19	B8	B9	B11	B12
530x150x200	530x200x200	530x150x200	530x200x200	1000x300x120	1000x350x150	1000x300x120	1000x220x200	500x500x120	1000x350x120

The technical specifications in this catalogue is subject to change without prior notice





## AAC Blocks & Bricks Making Plant

QGM designs and manufactures AAC block making plant, to meet the specific requirements of the market and customers. As a new building material, AAC block fulfills the demand of concrete industry, which requires to save the natural resources and protect the environment. With Germany technology and our own R&D, we provide our customers state-of-the-art AAC block making plant.

AAC is produced out of a mix of cement, lime, fly ash, gangue, river sand and aluminium powder etc., through batching, mixing, casting, cutting and autoclaving. AAC has the advantages of extremely light weight, high compressive strength, excellent thermal insulation, great acoustic insulation and high fire resistance. AAC can be produced in a large variety of sizes, from standard blocks to large reinforced panels, and it can be cut, sawn, drilled, nailed and milled like wood, making it an extremely workable product. AAC is environment-friendly and new building material.

Annual Capacity (300 days)	Power	Daily Capacity	Cycle Time	No. of Autoclaves
50,000 m <sup>3</sup> /year	400 KW	166 m <sup>3</sup> /day	10 hours	2 (Ø2 x 31)
100,000 m <sup>3</sup> /year	500 KW	333 m <sup>3</sup> /day	10 hours	4 (Ø2 x 31)
150,000 m <sup>3</sup> /year	630 KW	500 m <sup>3</sup> /day	10 hours	6 (Ø2 x 31)
200,000 m <sup>3</sup> /year	720 KW	666 m <sup>3</sup> /day	10 hours	8 (Ø2 x 31)
300,000 m <sup>3</sup> /year	1186 KW	1000 m <sup>3</sup> /day	10 hours	8 (Ø2,85 x 32,5)

\*Theoretical output with suitable aggregates & materials.



## Advantages of AAC

- **Large variety of sizes:**  
AAC can be produced in a large variety of sizes, from standard blocks to large reinforced panels;
- **Excellent thermal insulation:**  
AAC has a very low thermal conductivity and therefore a very high thermal energy efficiency is achieved. This results in savings on heating and cooling costs;
- **Extreme lightweight:**  
AAC weighs approximately 50% less than other comparable building products;
- **High compressive strength:**  
AAC is a solid product, therefore making it highly load bearing. The entire surface area is used in structural calculations;
- **High dimensional accuracy:**  
As a result of its dimensional accuracy, AAC is extremely easy to install, as no thick set mortar is required;
- **Great acoustic insulation:**  
The porous structure of AAC provides a high acoustic insulation;
- **High fire resistance:**  
AAC has an extremely high fire rating of at least 4 hours and more;
- **Termite resistance:**  
AAC can not be damaged by termites or insects;
- **High workability:**  
As a result of the excellent size/weight ratio, constructing with AAC is very rapid. Even though AAC is a solid building material, it can be cut, sawn, drilled, nailed and milled like wood, making it an extremely workable product.



**Batcher for Main Material**

Item	Model	PL800	PL1200	PL1600	Item	Model	PL800	PL1200	PL1600
CBM of Weighing Bin		0.8m³	1.2m³	1.6m³	Loading Height		2,300mm	2,400mm	3,000mm
CBM of Aggregate Bin		2x4m³	3x4m³	3x6m³	Weighing System		Electronic	Electronic	Electronic
Productivity		48m³/h	60m³/h	80m³/h	Power		4.5kw	10.6kw	11.7kw
Weighing Accuracy		± 2%	± 2%	± 2%	Total Weight		2,250kg	3,760kg	4,820kg
Maximum Weighing		1,500kg	2,000kg	3,000kg	Machine Size (LxWxH)		5,600x1,560x2,760mm	8,390x2,000x2,800mm	9,500x2,300x3,300mm
Type of Aggregate		2	3	3					



**Mixer**



Parameter Item	Model	JN-350	JS-500	JS-750	JS-1000	Parameter Item	Model	MP500	MP1000	MP1500
Discharging capacity		350L	500L	750L	1000L	Discharging Capacity		500L	1000L	1500L
Feeding capacity		560L	800L	1200L	1600L	Input capacity		750L	1600L	2260L
Theoretic productivity(m³/h)		≥ 15	≥ 25	≥ 35	≥ 60	Mixing power		18.5	37	55
Maximum Diameter of Aggregate (cobble/crushed stone)		≤ 20/30	≤ 40/50	≤ 40/60	≤ 60/80	Discharging power (kW)		2.2	3	3
Cycle Time		100	72	72	60	Planet / Paddle		1/2	2/4	2/4
Total Weight		3,500	4,000	5,500	8,700	Weight (Kg)		2,000	6,000	7,000

**Concrete Mixing Plant**



**Technical Specification**

Model	Production (m³/h)	Mixer			Aggregate Bin (m³)	Weighing System				Aggregate Diameter (mm)	Discharging Height (mm)	Total Power (kw)	Total Weight (kg)
		Model	Power (kw)	Volume(m³)		Aggregate	Cement	Water	Additive				
HZS-50	50	JS1000	2X18.5	1	3X13	±2%	±1%	±1%	±1%	≤60	≥3.8	68	32000
HZS-75	75	JS1500	2X30	1.5	3X15	±2%	±1%	±1%	±1%	≤60	≥3.8	110	48000
HZS-100	100	MAO2000	2X37	2	3X20	±2%	±1%	±1%	±1%	≤80	≥3.8	117	53000