

Global Vision, Local Service



16 Overseas Offices
25 Overseas Warehouses

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 m² 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. Concrete Mixing and Batching Plant;
 - C. AAC Block Making 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.



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 泉工 QGM
Quangong Machinery
Since 1979



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

泉工 QGM
Quangong Machinery



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

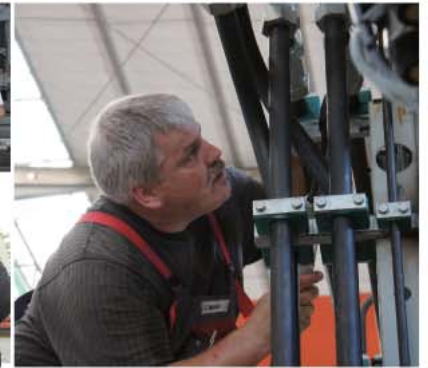
- Founded in 1979, QGM is the leading block machine manufacturer and has the longest history in China.
 - Start from 2012, QGM has set up office around the world, include Russia, Saudi Arabia, Oman, Libya, Algeria, Indonesia, India, Brazil, Mexico, with the sales growing, more new offices will be set 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



Service Engineers



Engineers in QGM China Manufacturing Center



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 HARDX steel, which strengthen the sealing performance and prevent the material leakage. The discharging gate is controlled by SEW motor.

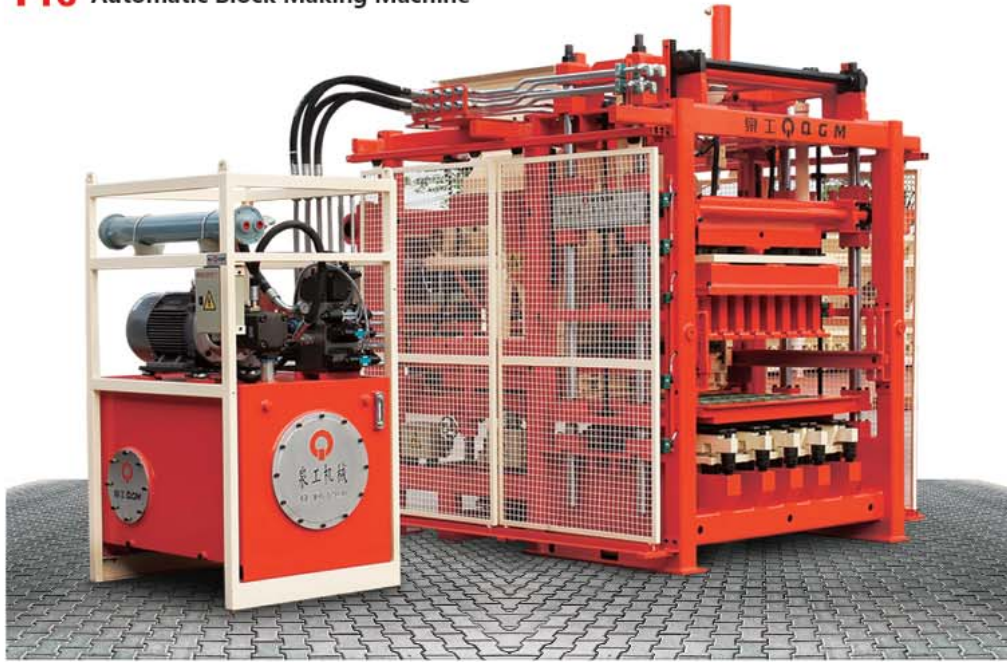


06 Remote control(Optional)

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 Conversion Control



QT6 Automatic Block Making Machine



Six Big Advantages

1. Germany Siemens PLC control system, Siemens touchscreen, Germany Siemens electrical components.
2. Germany Frequency Conversion 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 Transmission 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 | 1,250x850x(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 | 850x680x(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 | 240x115x53 | 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 stand 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 ³ /year | 400 KW | 166 m ³ /day | 10 hours | 2 (Φ2 x 31) |
| 100,000 m ³ /year | 500 KW | 333 m ³ /day | 10 hours | 4 (Φ2 x 31) |
| 150,000 m ³ /year | 630 KW | 500 m ³ /day | 10 hours | 6 (Φ2 x 31) |
| 200,000 m ³ /year | 720 KW | 666 m ³ /day | 10 hours | 8 (Φ2 x 31) |
| 300,000 m ³ /year | 1186 KW | 1000 m ³ /day | 10 hours | 8 (Φ2.85 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 | 1500L | 2250L |
| 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 |