

# 3 IN 1 FOAM CONCRETE MACHINE



[www.rbm.com.my](http://www.rbm.com.my)



# ADVANTAGES OF MACHINE



## ALL In ONE

Ready Mix Truck and Mobile Crane for concrete casting does not require anymore.



## REDUCE LABOURS

Machine require five(5 )workers for concrete process.



## FAST & EASY SETTING UP

Require a small area to setup the machine into a concrete batching, mixing & pumping station at any location.



## PACK & GO

Machine able to compact the size and the package is lightweight to carry on truck.



## MATERIALS PREPARATION

Materials such as cement, sand, chipping stone, quarry-dust can be prepare at local resources. RBM additive will improve the quality of concrete



## QUALITY GUARANTEE

All concrete produce by the machine has a consistence & good quality.

# MACHINE FEATURES & WORKING PROCESS



## CONTROL PANEL SETTING

Control the concrete batching and quality consistency of the mixtures.



## CONCRETE PIPING SYSTEM

Easy handling & has strong locking clip (retaining ring) to connect the piping together very fast.



## POWERFUL PUMPING SYSTEM

Ability to pump concrete up to **35 storeys** heights (125m).



## FOAM GENERATOR

Generate foam output to mix with other concrete materials for making Lightweight Concrete.



## HIGH PERFORMANCE

It's very durable to work at site condition that require less maintenance. Able to work for 24hours & the output rate is from 0 ~7.5m<sup>3</sup> per hour.



## AUTO BATCHING SYSTEM

Built-in with Load Cell System for auto materials batching to produce consistence mixture according to formulation settings.



## FOLDABLE CONVEYOR

A 7m length Conveyor can be fold up and flip over to use anytime. Helps deliver materials into mixer.



## 3 MINS CONCRETE MIX

Mixer built in with special blade stirrer to mix concrete faster & homogeneously.



## FILTERING BOARD

Help to filter off particles size more than 10mm in the concrete mix.

## STRONG & SOLID BETTER THAN ANY BRICK WALL

RBM concrete will shape up according to the formwork without honey-comb because of its high flow-ability.

So choosing a quality formwork system will give a smooth concrete surface as an advantage to apply skim coat as finishing.

Beside that, it has a high compressive strength that allow air-con, cabinet & photo frame to hang on it.

The process to cast RBM concrete is really fast with the RBM machine.

Local resources materials such as cement, fine aggregates, fly-ash can be take as the concrete ingredients to mix together in the machine.

By adding some additive to the concrete, great advantages will be obtain in the concrete properties to build high quality buildings.

### FOAM ADDITIVE *Hot Selling!!*



Purpose for Foam Concrete (Lightweight)  
Density : 600kg/m<sup>3</sup> to 1800kg/m<sup>3</sup>  
(Concrete can be drill, nail, saw, sanding & modification)

**Advantages >**  
Fire Resistance  
Water Resistance  
Thermal Insulation  
Acoustic Insulation  
Increase Concrete Volume

### HARDENER *Hot Selling!!*



Purpose for Foam Concrete (Lightweight)

**Advantages >**  
Concrete Quick Setting  
Simplify Works  
Increase Workability  
Increase Concrete Bonding Strength

### EASY FLOW *Hot Selling!!*



Purpose for Reinforcement Concrete  
(Recommend for Pump Mix)

**Advantages >**  
Increase Flowability  
Increase Concrete Bonding Strength  
Prevent Mix Segregation  
No Vibration  
Smoothes Concrete Surface

### MORTAR ADDITIVE *Contractor Choices!!*



Suitable for Skim Coat & Plastering

**Advantages >**  
Prevent Wall Crack  
Increase Water Workability  
High Quality Plaster Surface  
Increase Plaster Bonding Strength

### ADVANCE FEATURE



### CONCRETE INFILL

### EXTRA FEATURE



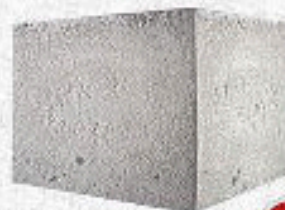
### Plastering Spray Gun



### SPRAY PLASTERING

Machine can use for plastering conventional brick wall faster with high quality by installing the spray gun.

## A GREAT SAVING ON COST



**RBM WALL :**  
RM 13.50 /m<sup>2</sup>



**RBM SHEAR WALL :**  
RM 20 /m<sup>2</sup>



**BRICK WALL :**  
RM 30/m<sup>2</sup>



# ADVANTAGES



## 4 HOURS FIRE RATING

It's fire resistance and has no toxic reaction towards fire burning. It also has very low expansion.



## LIGHTWEIGHT

It's has a lot of foam bubbles generated and mix in the concrete to make is very light. This help to reduce the design of building dead load.



## SELF-LEVELING

High workability, very good flow rate that allow it's easy to do concrete casting / infill & pouring work. Not require any vibration for the concrete.



## THERMAL INSULATION

It has a very low density that help to reduce thermal conductivity. This very suitable to use for prevent hot or cold temperature transfer into building.



## ACOUSTIC INSULATION

The bubble pores surface repel off the sound from transferring through the concrete.



## EASY MODIFICATION

It's can be hack, saw, nail, drill & wall plug without damage or cause any crack on the concrete.



## FEATHER LIGHTWEIGHT

Density :  $600\text{kg/m}^3 \sim 1000\text{kg/m}^3$   
Grade :  $2 \text{ N/mm}^2 \sim 4 \text{ N/mm}^2$

## LIGHTWEIGHT

Density :  $1200\text{kg/m}^3 \sim 1800\text{kg/m}^3$   
Grade :  $5 \text{ N/mm}^2 \sim 20 \text{ N/mm}^2$

## HEAVYWEIGHT - REINFORCEMENT

Density :  $2100\text{kg/m}^3$   
Grade :  $25 \text{ N/mm}^2 \sim 35 \text{ N/mm}^2$

# SUITABLE FOR

## WALLS

Party & fire wall  
External, internal & partition wall

- Lightweight Wall System (Non-Load Bearing)
- Shear Wall System (Load Bearing Wall)
- Lightweight Block (Cellular)
- Fencing

## STRUCTURAL

Load bearing wall - grade 25 to 35  
Column, beam, slab & staircase

- Building Concrete Structural (Load Bearing)

## OTHERS

Cast in situ-formwork  
Aerated concrete block  
infill concrete wall  
Floor screed  
Plastering

- Precast Concrete Products
- 3D Concrete Volumetric Precast
- Concrete Decorative products
- Floor Screed, Insulation Topping
- Swimming Pool, Water Tank
- Retaining Wall
- Security Bunker, Safety Room, Sound Proof Room



# HOW THIS MACHINE WORKS



Setup Machine 1



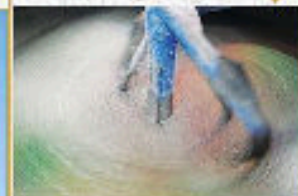
Program & Setting materials formulation 2



Loading Materials 3



Materials Quantity Quality Control 4



2 to 3 minutes Continuously Concrete Mixing 5



Filter object & big particle sizes to prevent pump blockage 6



Continuous pumping Concrete to casting area 7

8 Complete Quality Concrete Building in short period

+



OPC CEMENT



SAND

H<sub>2</sub>O

WATER



RBM ADDITIVE



QUARRYDUST

CO<sub>2</sub>

CARBON DUST

All Material Can be Use...

## PROJECTS REFERENCES



TERRACE / LINK / HYPERLINK



BUNGALOW & SEMI-D



SHOPLOT



HOTEL



OFFICE



FACTORY



UNIVERSITY & SCHOOL



(MY-133290-A)

# SPECIFICATION

## Machine Engine

Concrete Mixer	: 4kW , 380V - 415V ,50Hz
High tech Pumping System	: 7.5kW ,380V - 415V ,50Hz
Conveyor	: 0.75kW ,380V - 415V ,50Hz
Speed range	: 40rpm – 80rpm

## Machine Performance

Concrete Output	: 0 - 7.5m <sup>3</sup> /hr
Pumping Distance	: 125m vertical 250m horizontal

## Safety Protection

Pump system	: Engine Cooling System, Grease oil
Mixer	: Safety Cover, Dust control sheet
Foam Generator	: Pressure gauge Electrical Valve Safety valve
Foldable Conveyor	: Protection Cover
Filtering Board	: Filter particles above Ø 8mm

(All above component built in with overload jump switch)

## Machine Capacity

Mixer Tank Volume	: 650litres
Hopper Tank Volume	: 650L
Foam Generator Volume	: 400L
Air Compressor Volume	: 300L

## Foam Generator

Operating Air Pressure	: 6bar
Foam Output	: 600Litres / min

## Conveyor

Belt	: High Stress Rubber
Width	: 0.35m
Length	: 7.00m

## Dimension

Overall length	: 2.50 m
Overall width	: 1.50 m
Overall height	: 1.66 m
Overall Weight	: 980kg



PATENTED  
(MY-133290-A)

**RBM BUILDING MACHINERY SDN. BHD.**  
**Head Office**

Lot 108, Lorong Senawang 4/3,  
Senawang Industrial Estate,  
70450 Seremban, Negeri Sembilan,  
Malaysia.

**Tel** 06-677 3997      **Fax** 06-677 4229

**+6 019-213 5980**

**Email**  
rbmtech\_0917@hotmail.com

**Website**  
www.rbm.com.my

**YouTube** Channel :  
www.rbm.com.my

**Facebook Page :**  
rbmbuildingsystem

Visit us now  
for **GREAT OFFER!**



**ECO-FRIENDLY, FAST & QUALITY:**  
**CAST 5 HOUSES**

**in 10 DAYS ONLY!!**  
**( No more brick works + plastering )**

