

# JK TILES MACHINERY

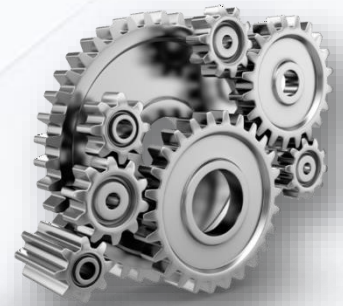
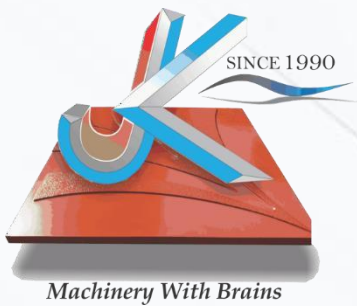
An ISO 9001:2015 Certified Company.

IT ALL STARTS WITH,

THE ENDMOST  
**CONCRETE**  
PRODUCT  
**SOLUTION**







# JKTILES MACHINERY

*Machinery with brains*

**India's Largest Chain of Machinery Manufacturing** for making All types of **Pavement Tiles, brick, CC Blocks in secondary** industry Sector of manufacturing, Our national presence in **6 Major Indian Cities and 5 Major States -**

- **Bangalore, Karnataka.**
- **Hyderabad, Telangana**
- **Bhubaneswar, Odisha**
- **Noida, Uttar Pradesh**
- **Delhi NCR**
- **Guwahati, Assam.**

J K - M

Prospectus

Overview

- ▽ Innovating Automation's.
- ▽ Endmost Concrete Product Solution.
- ▽ Enthusiasm Customer Priority.
- ▽ Incomparable product.

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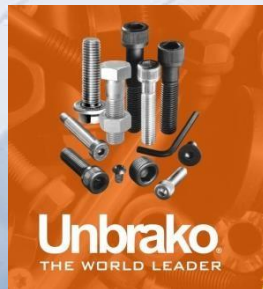
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## PRODUCT *At a Glance*

**Model No: JKTM-SAT-1150 Block Master single Stroke semi -Automatic egg laying platform type hollow and solid block making machine with Hydro- Vibro Tech.**



**Esteemed Machinery product partners**



**Note:** All The Companies Given Above Are Only Our Manufacturing Partners, Which Provide Us All The Parts For The Manufacturing Of Machinery. These Includes Crompton™, Unbrako®, Dunlop™, Yuken®, Rexorth™, Schneider™, rajhans, ABB, etc.

## Machine Features & All Specifications :-

### **JKTM-SAT-1150 Block Master single Stroke semi -Automatic egg laying platform type Hydro-Vibro solid/hollow block making machine**

Multi Blocktech	Multi types of Brick & Block Manufacturing capacity.
Double Vibration Tech.	Double Vibro compaction technology with twin drive- Two Motor for powerful vibration system.
EN-8 carbon steel Rods and cylinders	High Carbon Engineered steel (BS 970 080m40) has high strength levels compared to normal bright mild steel, due to thermo-mechanical rolling, Non-bendable metal tempering and quenching process.
Auto. Vibration operation	Automatic vibration timers/relays and switch gears are installed in PLC to perform smooth & efficient vibration to executive the best compact and equal strength of each blocks/Bricks
Pressure control	Equipped with The oylor/yuken anticlockwise displacement vane pump designed for use in hydraulic systems where a reliable and efficient flow of fluid is required. With displacement of 50 cm3/rev with 15 Liters oil tank capacity and two mobile lever operated valves.
Machine travel system	Machine is equipped with motor-Gear and Chain system for the travelling of machine on the platform and for laying of all finished cc blocks
Pan Concrete Mixer	Pan mixer with 450kg. mixing capacity and 7.5 hp motor with worm reduction gear box capacity 19 Liter for speedy & smooth material mixing.
Water adding syst.	Automatic water adding system with water pump & Timer.



#### **JKTM- PSAT-1150 Block Master single Stroke Main Machine**

**Machine Dimension (L xW x H): 1800mm x 1280mm x 1890mm**

**Machinery total power: 6.5 Hp**

**Motors Brand : Crompton® Greaves**

**PLC panel: Equipped with auto vibration and auto travel operation also Branded Load Contractors, MCCB, Delay timers, push start/ stop buttons for all motors are installed**

**vibrator type – Double Vibration twin Drive vibro tech.**

**Hydraulic Rods- EN-8 High Carbon Engineered steel (BS 970 080m40).**

**Body Frame:- All Heavy duty Metal MS 31 grade Vizag/Apollo and other parallel brand**



#### **Pan Mixer**

Dimension	: 1524mm X 450mm
motor	: 7.5 HP Crompton® Greaves
Gear Box	: 22 liters
Blade System	: Roller / Blade
Capacity	: 450 Kgs





### **PLC Computerized Panel**

**Hydraulic:** 35 LPM Oiler/Yuken Vane pump and assembly(HSCS) Hydraulic Speed Control System.

**Electronic Parts:** All heavy Load contractors, MCCBs, Delay timers, switch circuits, start/stop buttons, complete wiring and other electronic or electrical components are supremely branded.

**Panel Body:** Dust & vermin proof Panel suitable for bottom cable entry.

**Vibration Auto:-** Auto-timer vibration facility with limit switch safety feature.



### **Main Hydraulic Punch**

: 4/6/9/12 etc. Cavity Punch

: 31 grade iron.

: High Density Tempered

: 3 HP Vibration motor.

: vibrator type – double/ Triple (Optional in JKTM-SAT-1550 Model)



### **Double Vibration Technology (Twin drive vibro tech)**

: Double Vibration twin drive technology

: Heavy duty two mechanical Mega Vibrators

: High Density Tempered iron Fittings for Anti-shock and absorption

: 3 HP Induction motor connected with two mechanical vibrators

: Vibrator type – double/triple(optional with JKTM-SAT-11)



### **Pressure Power Pack Assembly**

: 3 Hp Pressure induction motor

: 15 liters oil tank capacity

: 35 LPM Oiler/Yuken VANE pump

: Heavy Duty Anti-heat hose pipe and fitting

: Heavy Duty rajhans/techno land oil seal.

# Electrical, Production & production

Electricity Source Required (3 Phase 440 volts).



## 1. Electricity (common)

Total Machine Power load (including mixer): **6.5 (HP)**  
Electric meter Required : **4.5 (KW)**

## 2. Diesel Generator(D.G)

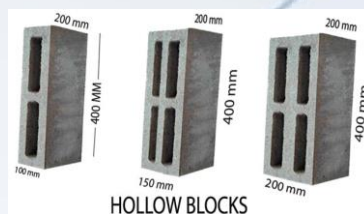
Total Machine Power load : **6.5 (HP)**  
Diesel Generator (D.G) Required : **10(KVA)**

## SIZES

Output production images Bricks/ blocks		Produce	L. (mm)	W. (mm)	H. (mm)	Pcs per stroke(2min/cycle)	Per Shift (8-9 Hours production)
	1.	Concrete Blocks	300	200	200	4	1020pcs.
	2.	Concrete Blocks	300	100	200	8	2040pcs.
	3.	Concrete Blocks	300	150	200	5	1275pcs.
			<b>Hollow Blocks</b>				
	1.	Concrete Blocks	400	200	200	4	1020pcs.
	2.	Concrete Blocks	400	100	200	8	2040pcs.
	3.	Concrete Blocks	400	150	200	5	1275pcs.
	4.	Cement Brick	225	100	75	16pcs.	4080 pcs.
			<b>Solid Blocks</b>				

**Weight of the finished blocks and production images**

HOLLOW BLOCKS	
	Hollow Block 12" (200 X 300 X 400) Weight (kg) : 32
	Hollow Block 10" (200 X 250 X 400) Weight (kg) : 31
	Hollow Block 8" (200 X 200 X 400) Weight (kg) : 23
	Hollow Block 6" (200 X 150 X 400) Weight (kg) : 18
	Hollow Block 4" (200 X 100 X 400) Weight (kg) : 14





## Actual Site Images



## Concrete Base Platform complete Mapping Guide:





# Main Features Of JKTM-SAT-1150/1450

## Block Master semi -Automatic egg laying platform type Hydro- Vibro

**1. Double Vibration twin drive technology:-** The Semi-Automatic Block Making Machine utilize **Double Vibration twin drive technology** , Keeping the precise and parallel movement between tamper and mould and avoiding its deformation. With the twin drive double vibration, major advantages are **accurate height precision, overall dimension accuracy of all the blocks, ultimate compaction of the concrete by removing all air pockets** the product gives proper control on the immediate start and half of the motors, preventing the motor from overheating caused by long term operation. As the vibration efficiency increases, The production rate will rise correspondently.

**2. Double High Dynamic Directional Valves.** This semi- automatic block making machine utilizes double proportional and directional Valves with high activity to regulate the oil flow and pressure by mobile lever valve efficiently, which plays a buffer role in the process of production. And this kind of design of machinery can ensure the stable production and prolong the lifetime and durability of all parts of machine.

**2. Hydraulic movement Shafts EN-8 Metal:- High Carbon Engineered steel** (BS 970 080m40) has high strength levels compared to normal bright mild steel, due to **thermo-mechanical rolling, metal tempering and quenching process.**

**3.PLC Control System with Remote control feature.** Electrical system machinery equipped is Wecon PLC control System and electrical components. The control system is of Easy operation and low failure ratio. The machinery is equipped with data input and output device and data formula function. The visualized controls at front panel are characterized by simple operation. The All-electrical components like contractors, relays, switches even buttons on Control Panel are from Standard Makes Which give high performance and execute all operation efficiently.

**4. Shaft Rotation & Compulsory Feeding** The Automatic block making Machine is designed with the feeding device rotating at high speed. The raw can be blended evenly to make the blocks with optimal density and intensity.with uniform feeding the product is available in utilization different raw materials and moulds. The feeding frame bottom plate & mixing blades are made of high-duty HARDOX Steel, which strengthens the sealing performance and prevent the material leakage. The discharging gate is controlled by feeder reverse/forward system.

**5. Heavy Duty Structure and wear resistance Molds.** Heavy duty structure and wear resistance moulds adopts CNC & Wire Cutting to Make sure paver size accuracy. Carbon-dioxide welding for crack resistance with heat treatment and carburization, sand blasting and other machining Process. It becomes more robust and resistant to the frequent & strong vibrations. The hardness reaches up to HRC52. In addition to heat treatment, we use stress relief process as another protection to the moulds and the other main parts of the machine.

**6. High- Precision Guide Bearing & Highly Efficient Hydraulic System** High-Precision guide bearings are used to assure the precise movement between the temper head and the mould. Heavy duty machine frame uses high-intensity steel and advanced heat treatment for making wear resistance. 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



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*Thanks.*

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