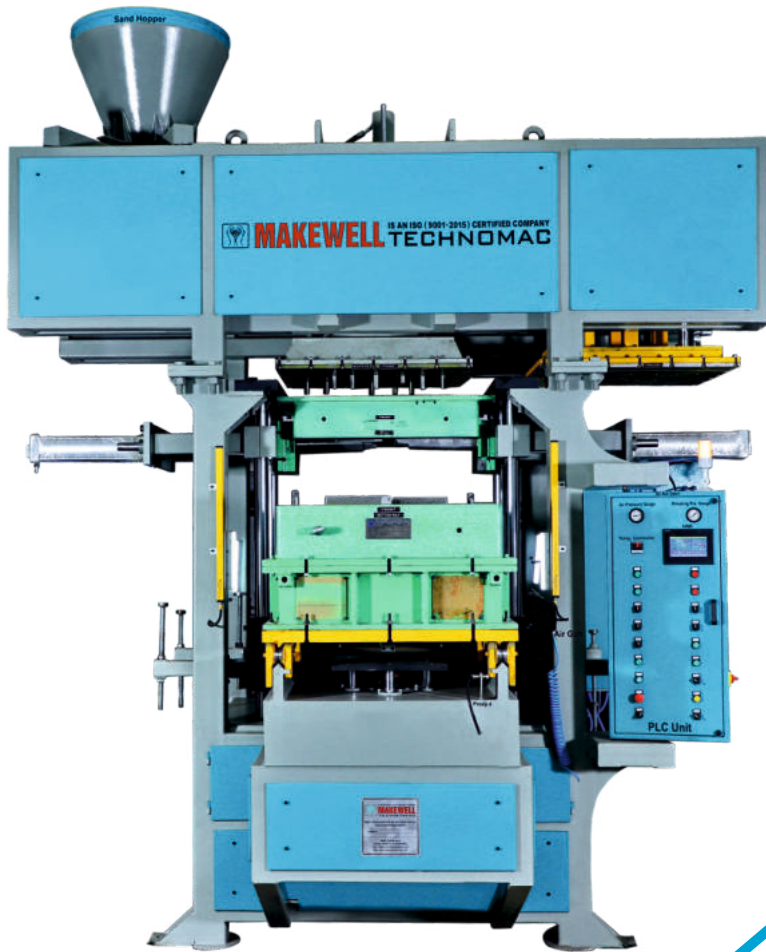




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**MAKEWELL**  
TECHNOMAC



*Core Shooter*

*Quality Product,  
Quality People,  
Quality Service*



We, MAKEWELL TECHNOMAC is a pioneering leader in supply of the foundry machinery like as Horizontal cold box core shooter, Vertical cold box core shooter, Shell/hot box core shooter manufacturer. We delivers innovative and sustainable solutions in core shop to customers and creates long-term relation for all customer. We bridge the gap between customers to providing cost effective route to market and customers specialist advice and a wide range of products. We Have of devoted ourselves with unbridled passion to overcome the ever - evolving challenges of core.

We have a large and ultramodern infra structural unit that is outfitted with essential machinery, tools and devices. That assists us to make qualitative range of products in accordance with global set standard. In addition to a complete line of pre-engineered or standard products, we have the capacity and experience to custom design and engineer products for the unique needs of our customers. Our people are global, diverse and dedicated, operating with the highest integrity and passion to fulfill mission and deliver for our customers. Our experts have years of experience working with companies just like yours and quickly identify and implement process Improvements leading to better cycle times, optimize gas, reduced west of raw material, improved process capability and increased throughput.

We have horizontal and vertical parting line to developing leading and innovative machine technology; ultra high precision, advanced automation and multifunction. Our machine are fully PLC controlled automatic with advanced pneumatic and hydraulic technology which is best for excellent & quality costing production.

Our unit comprises of sub divisions such as Manufacturing, R & D department, Assembly area, Marketing and Sales, Designing and Engineering etc. At every stage of setup and operation, you're backed by highly skilled engineering, training and repair professionals. Our service team is available 24 X 7 and is passionate about your success.





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## SAILENT FEATURES

- Fully automatic operations by use of PLC with HMI.
- Fault diagnostics & operating instructions displayed on touch screen.
- Recipe management for variety of core boxes possible with password protected parameter setting.
- Auto / Manual mode selection facility available.
- Auto repeat cycle facility provided.
- High resolution color HD display.
- Safety interlocks incorporated in the control system.
- Display of operating parameters on screen of HMI And PLC.
- FRL incorporated for supply of moisture free Air and Pneumatic lubrication.
- Electricity phase prevention incorporated in controlling system.
- Liberally designed hydraulic Power Pack.
- Proven, sturdy and Job rated Machine to suit all foundry conditions.
- Hydraulically operated clamping and ejection system.
- All movements by means of hydraulic and pneumatic cylinders.
- 180° Tilting of operating panel.
- Air blow Gun, work light and maintenance tool kit.
- Low Power consumption operating system.
- Low maintenance requirment due to robust components.
- Day To Day Production data given for record / Analysis.
- Built in control system to facilitate various operation of the equipment as per the international standards and norms.
- SPM core shooter machines can also be manufactured on customer requirement.
- Robust & sturdy structure designed according to dynamic & static load calculation
- Customized and tailor made , design as well as manufacturing facilities available
- Go Green technology adopted. Throw away arrangement for waste gases, dust etc
- Designed to save and control electricity, wastage of consumables etc
- Safety first theme implemented. Like door sensors etc.
- Latest, advanced , operator friendly control panel design. Even semi skill operator handle work easily.

For Company Documentary



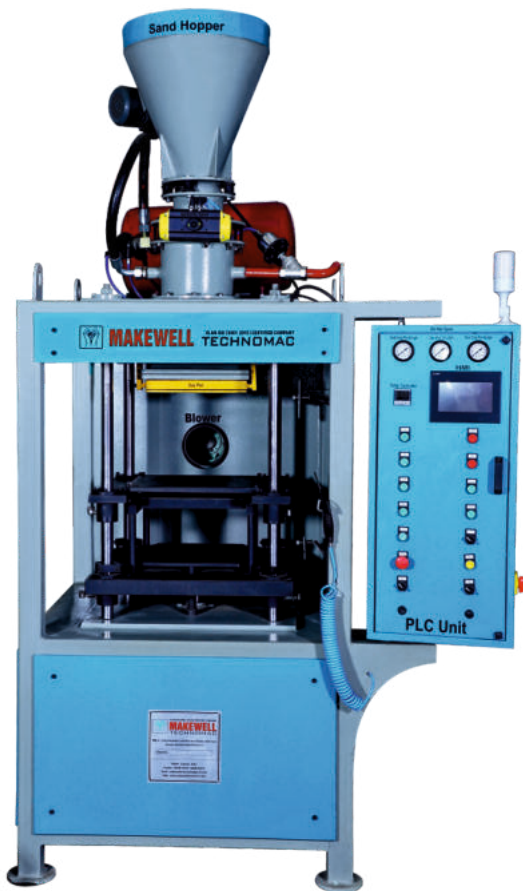


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## Cold Box Core Shooter Machine

Horizontal



**MTH-450-M**



**MTH-500-M**





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## Cold Box Core Shooter Machine

### Key Features

- Robust & Sturdy Structure Designed According To Dynamic & Static Load Calculation.
- Optimum Cycle Time For Core Produce.
- Easy To Clamping Core Box.
- Shooting And Gassing Through Latest Technique.
- In Built Gas Generator With Air As Carrier Medium.
- Automatic Core Ejection By Hydraulic.
- Go Green Technology Adopted. Throw Away Arrangement For Waste Gasses, dust Etc.
- Proper Vaporization Of Amine Ensured By Using Hot Dry Air.
- After Gassing Quick Exhaust Valve To Relies Excess Air.
- Maximum Space Available For Tooling Clamping
- Die Bottom Flates For Easy Clamping



### Technical Specification

SPECIFICATION		MODEL MTH-450-M	MODEL MTH-500-M	MODEL MTH-600-M
Parting	-	Horizontal	Horizontal	Horizontal
Shooting Capacity	kg	Up To 7	Up To 12	Up To 25
Tooling Size	LxWxH mm	450X450x400	500X500x600	600X600x600
Tooling Clamping	-	Hydraulic	Hydraulic	Hydraulic
Shoot And Gas Blow Area	MM	300	250 x 250	400 x 400
Sand Hopper Capacity	kg	100	125	175
Core Box Weight	kg	200	300	500
Double Shoot Facility	-	Yes	Yes	Yes
Die Bottom Flates	-	Yes	Yes	Yes
Electricity Requirement	HP	2-3	3-4	4-5
Pneumatic Pressure Required	kg./Cm <sup>2</sup>	5-7	5-7	5-7
All Operation	-	Automatic	Automatic	Automatic
Ejection	mm	Auto	Auto	Auto
Dry Cycle Time	Sec	16	22	30



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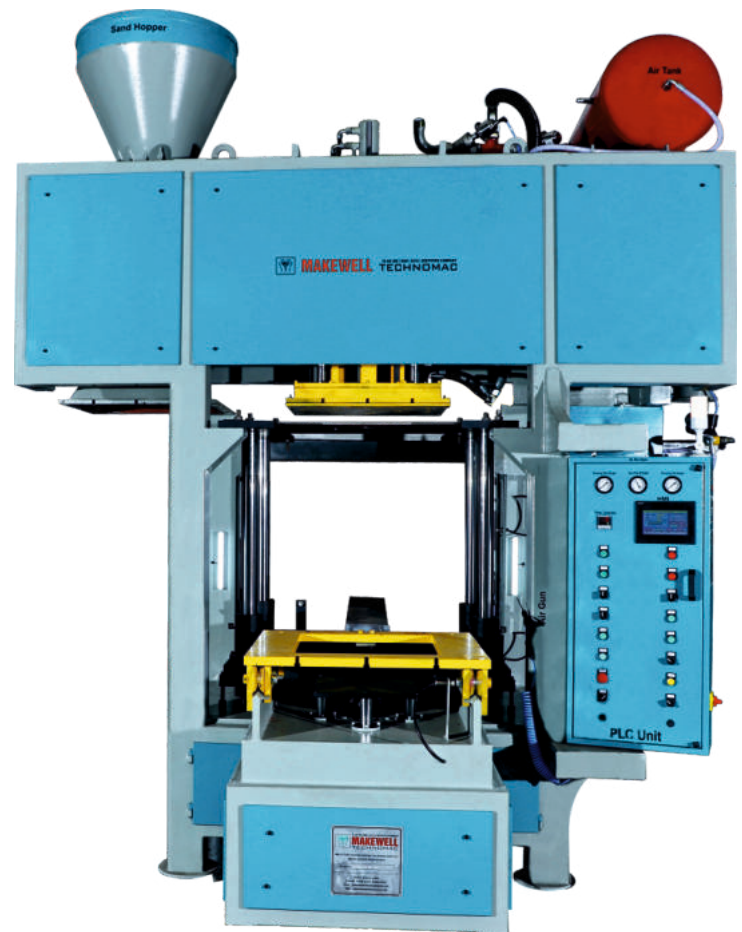
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## Cold Box Core Shooter Machine

### Horizontal With Trolley



**MTH-600-MT**



**MTH-7080-MT**





## Cold Box Core Shooter Machine

### Key Features

- Multiple Shooting Facility In Auto Cycle.
- After Gassing Quick Exhaust Valve To Relies Excess Air.
- Better Compatible For Large Scale Unit Of Core Production.
- Shooting And Gassing Through Latest Technique.
- Mandrel Trolley For Tooling Clamping And Retrievals Of Core.
- In Built Gas Generator With Air As Carrier medium.
- Easy To Remove Core From The Core Box.
- Smooth & Closely Tolerated Bottom Ejection Facility Outside The Machine.
- Proper Vaporization Of Amine Ensured By using Hot Dry Air.
- Air Suction Blower For The Waste Amine Gas Air.
- Optimum & Ergonomic Machine Design As Well As Construction Enables Sufficient Access To Compemets and Assemblies For Maintenance.
- Safety Curtain Provide. ( Optional )



### Technical Specification

SPECIFICATION		MODEL MTH-600-MT	MODEL MTH-700-MT	MODEL MTH-7080-MT
Parting	-	Horizontal	Horizontal	Horizontal
Shooting Capacity	kg	Up To 25	Up To 50	Up To 75
Tooling Size	LxWxH mm	600X600x500	700X700x600	700X800x700
Tooling Clamping	-	Hydraulic	Hydraulic	Hydraulic
Shoot And Gas Blow Area	mm	400X400	500X500	600X500
Sand Hopper Capacity	kg	175	200	300
Core Box Weight	kg	500	700	1000
Double Shoot Facility	-	Yes	Yes	Yes
Electricity Requirement	HP	5-6	6-7	7-8
Pneumatic Pressure Required	kg./Cm <sup>2</sup>	5-7	5-7	6-8
All Operation	-	Automatic	Automatic	Automatic
Core Retrieval Trolley	-	Yes	Yes	Yes
Ejection Area	mm	600x600	700x700	700X800
Dry Cycle Time	Sec	26	35	40



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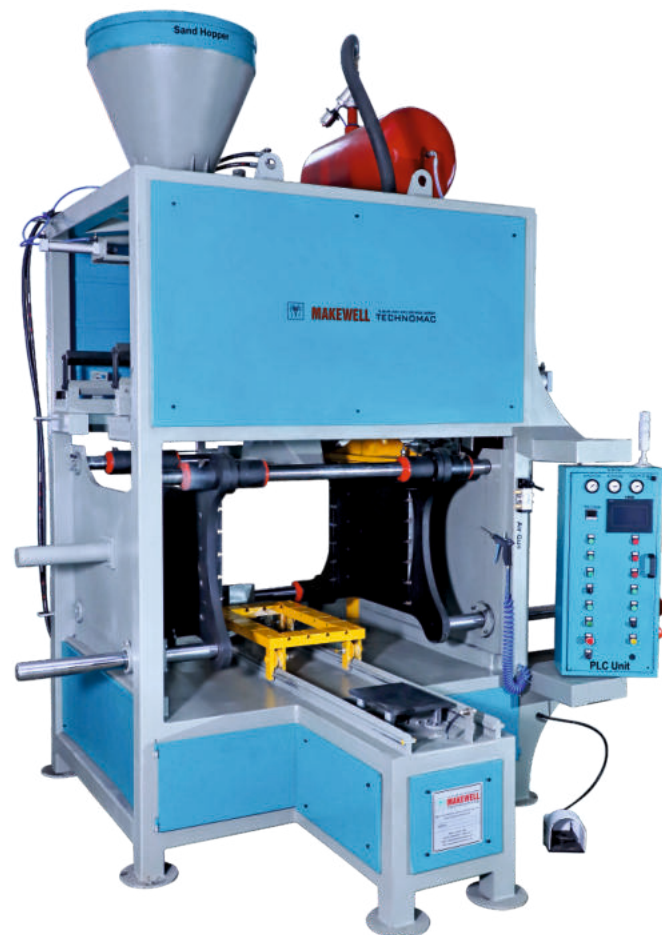
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## Cold Box Core Shooter Machine

### Universal With Trolley



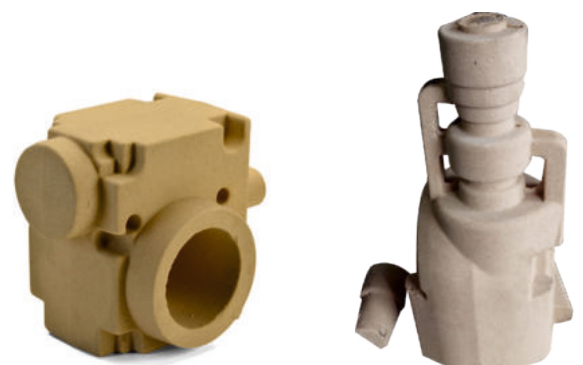
### Vertical With Trolley



## MTU-6040-MT



## MTV-5060-MT





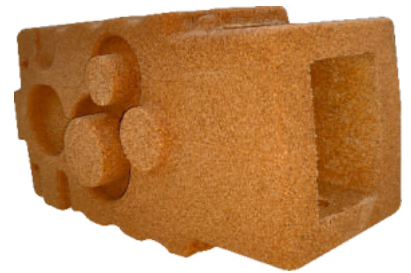
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## Cold Box Core Shooter Machine

### Key Features

- Specially Design For Vertical Core Production.
- Highly Efficient And Large Production For Vertical Type Core.
- Mandrel Work On Guidebar .
- Revanop Technology Used In All Operations.
- Enclosures For Electrical Supply Located With Safety & Accessibility Considerations And Protective Devices.
- Trouble Free Performance Of Machine.
- Traveling Type Sand Magazine And Gassing Trolley.
- Better Tooling Clamping.



### Technical Specification

SPECIFICATION		MODEL MTU-6040-MT	MODEL MTV-5060-MT	MODEL MTV-6070-MT
Parting	-	Universal	Vertical	Vertical
Shooting Capacity	-	Up To 25	Up To 25	Up To 50
Tooling Size	LxWxH mm	V 600x800x400 H 600x400x400	600x800x500	700x1000x600
Tooling Clamping	-	Hydraulic	Hydraulic	Hydraulic
Core Retrieval Trolley	-	Yes	Yes	Yes
Double Shooting	-	Yes	Yes	Yes
Sand Hopper	kg	150	150	200
Core Box Weight	kg	500	250	500
Top Ejection	-	Yes	No	No
Ejection Hyd. Cylinder Stroke	mm	100	100	100
All Operation	-	Automatic	Automatic	Automatic
Shoot And Gas Blow Area	mm	400x200	100x400	100x550
Electricity Requirement	HP	7-8	5-6	6-7
Pneumatic Pressure Required	kg./Cm <sup>2</sup>	5-7	5-7	5-7
Dry Cycle Time	Sec	50	35	40



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## Shell Core/Mould Shooter Machine

Horizontal



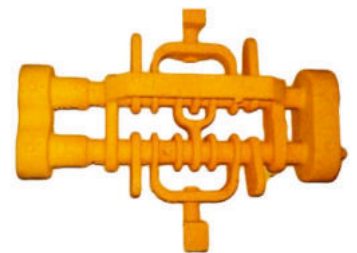
Horizontal With Auto Sand Feeder



**MTSH-500-M**



**MTSH-7560-M**





## Shell Core/Mould Shooter Machine

### Key Features

- Aesthetic And Accurate Design Of Machine.
- Heavy Duty Components Used In Machine For Long And Low Maintenance.
- With Heater Plate And Without Heater Plate Option Are Available
- Traveling Type Sand Magazine And Top Ejecting Trolley.
- Top And Bottom Ejecting Facility For Core Retrive.
- Vertical & Horizontal Parted Tooling Available In Different Model.
- High Process Reliability & Environmental Sustainability.
- Short Cycle Time Operation Controlled By PLC Technology.
- High Durability Core Production.
- Multiple Shooting Facility In Auto Cycle.
- Sand Level Sensor Provied .
- Individual Temp. Controller For Both Half Of Core Box.



### Technical Specification

SPECIFICATION		MODEL MTSH-500-M	MODEL MTSH-600-M	MODEL MTSH-7560-MT
Parting	-	Horizontal	Horizontal	Horizontal
Shooting Capacity	kg	12	25	50
Shooting Type	-	Top	Top	Top
Tooling Size	LxWxH mm	500X500X500	600X600X600	750X600X600
Shooting Point	Nos	17	21	29*
Sand Hopper Capacity	kg	100	150	200
Bottom Ejection	mm	Auto	Auto	Auto
All Operation	-	Automatic	Automatic	Automatic
Auto Sand Feeder	-	Optional	Optional	Optional
Electricity Requirement	Kw	15	20	28
Pneumatic Pressure Required	kg./Cm <sup>2</sup>	5 To 7	5 To 7	5 To 7
Dry Cycle Time	Sec	15	15	35



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## Shell Core/Mould Shooter Machine

### Vertical



### MTSV-4030-M



### Vertical With Tilting



### MTSV-6040-MT





## Shell Core/Mould Shooter Machine

### Key Features

- Horizontal And Vertical Parted Shell Core Shooter.
- Auto Sand Feeder Available
- Ejection Bon Both Side - One Side Cylinder Operated And Other Side Spring Loaded.
- In Vertical Machine Swing Door On Fix Side, Opening Horizontally.
- Use For Heavy And Solid Core / Mould.
- Sand Level Sensor On Hopper Top To Monitor Sand Requirement.
- High Tooling Clamping Force.
- Shorter Machine Cycle Times Controlled By PLC Technology.
- Hydraulic And Pneumatic Option Available.
- Multi Blow Provision For Producing Heavier Core/Mould.
- With Heater Plate Without Heater Plate Option Are Available.
- Individual Temp. Controller For Both Half Of Core Box.



### Technical Specification

SPECIFICATION		MODEL MTSV-4030-M	MODEL MTSV-5030-M	MODEL MTSV-6040-MT
Parting	-	Vertical	Vertical	Vertical
Shooting Capacity	Kg	8	12	25
Shooting Type	-	Top & Multi	Top & Multi	Top & Multi
Tooling Size	LxWxH mm	400x300x300	500x400x300	600x500x400
Shooting Area	mm	100x300	100x400	100x500
Sand Hopper	kg	100	125	200
Core Box Weight	kg	200	250	400
All Operation	-	Automatic	Automatic	Automatic
Swing ( Bottom Tilting )	-	No	Optional	Yes
Auto Sand Feeder	-	Optional	Optional	Optional
Core Retrieval Trolley	-	No	Optional	Yes
Electricity Requirement	kw	10	12	15
Pneumatic Pressure Required	kg./Cm <sup>2</sup>	5-7	5-7	5-7
Dry Cycle Time	Sec	25	20	20
Bottom Mandrill	-	Optional	Optional	No

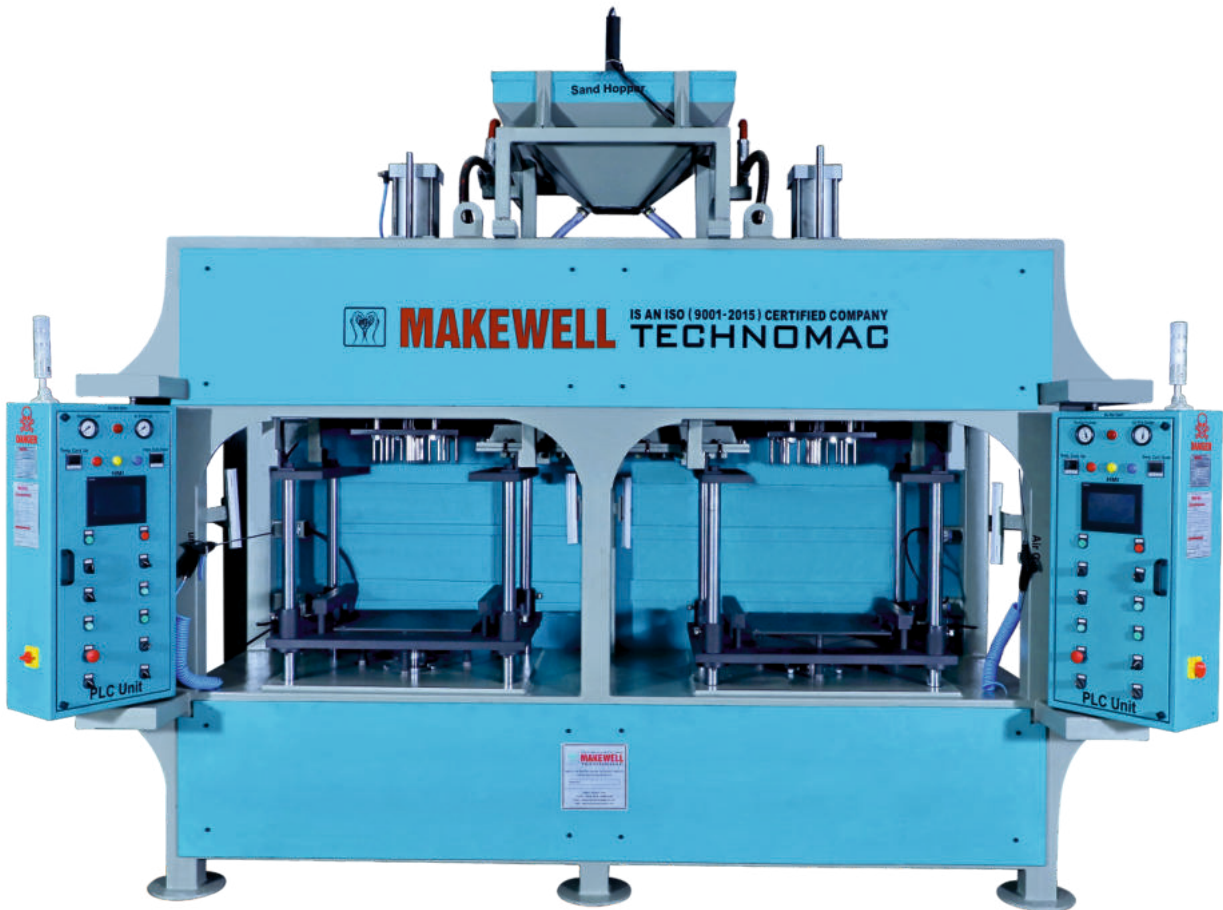


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## Shell Core/Mould Shooter Machine

## Horizontal Twin Station



## MTSH-600-M2





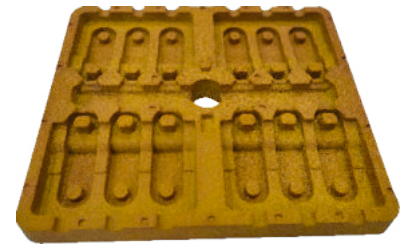
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## Shell Core/Mould Shooter Machine

### Key Features

- Horizontal And Vertical Parted Shell Core Shooter.
- Shorter Machine Cycle Times Controlled By PLC Technology.
- With Heater Plate & Without Heater Plate Option Are Available
- Low Power Consumption Operating System
- Use For Heavy And Solid Core / Mould.
- Sand Level Sensor On Hopper Top To Monitor Sand Requirement.
- Day To Day Production Data Given For Record / Analysis
- Multi Blow Provision For Producing Heavier Core/Mould.
- Preset Counter Provide
- Individual Temp. Controller For Both Half Of Core Box.
- Hydraulic & Pneumatic Option Available
- Saving Of Space & Man Power



### Technical Specification

SPECIFICATION		MODEL MTSH-500-M2	MODEL MTSH-600-M2
Parting	-	Horizontal	Horizontal
Shooting Capacity	Kg	Up To 12+12	Up To 25+25
Shooting Type	-	Top	Top
Tooling Size	LxWxH mm	500X500x500	600X600x600
Shooting	-	Multi	Multi
Sand Hopper ( Common )	kg	200	250
Shooting Point	Nos.	17+17	21+21
All Operation	-	Automatic	Automatic
Electricity Requirement	kw	15+15	20+20
Sand Feeder	-	Optional	Optional
Pneumatic Pressure Required	kg./Cm <sup>2</sup>	7-8	7-8
Dry Cycle Time	Sec	25	25

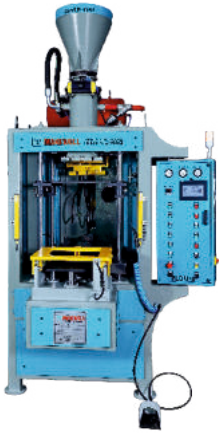


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## Other Model Of Machines

### Cold Box Core Shooter



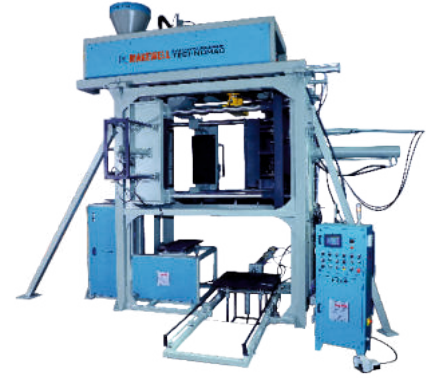
12 Kg Horizontal With Trolley



25 Kg Horizontal Without Trolley



100 Kg Horizontal With Both Side Mandrill



5 Axis Vertical

### Shell Core Shooter



600x600 Horizontal Without Heater Plate



Vertical 450x700 With Swing Door



550x550 Vertical Swing Door With Trolley



700x900 Horizontal With Core Retrieval Trolley



500x300 Vertical

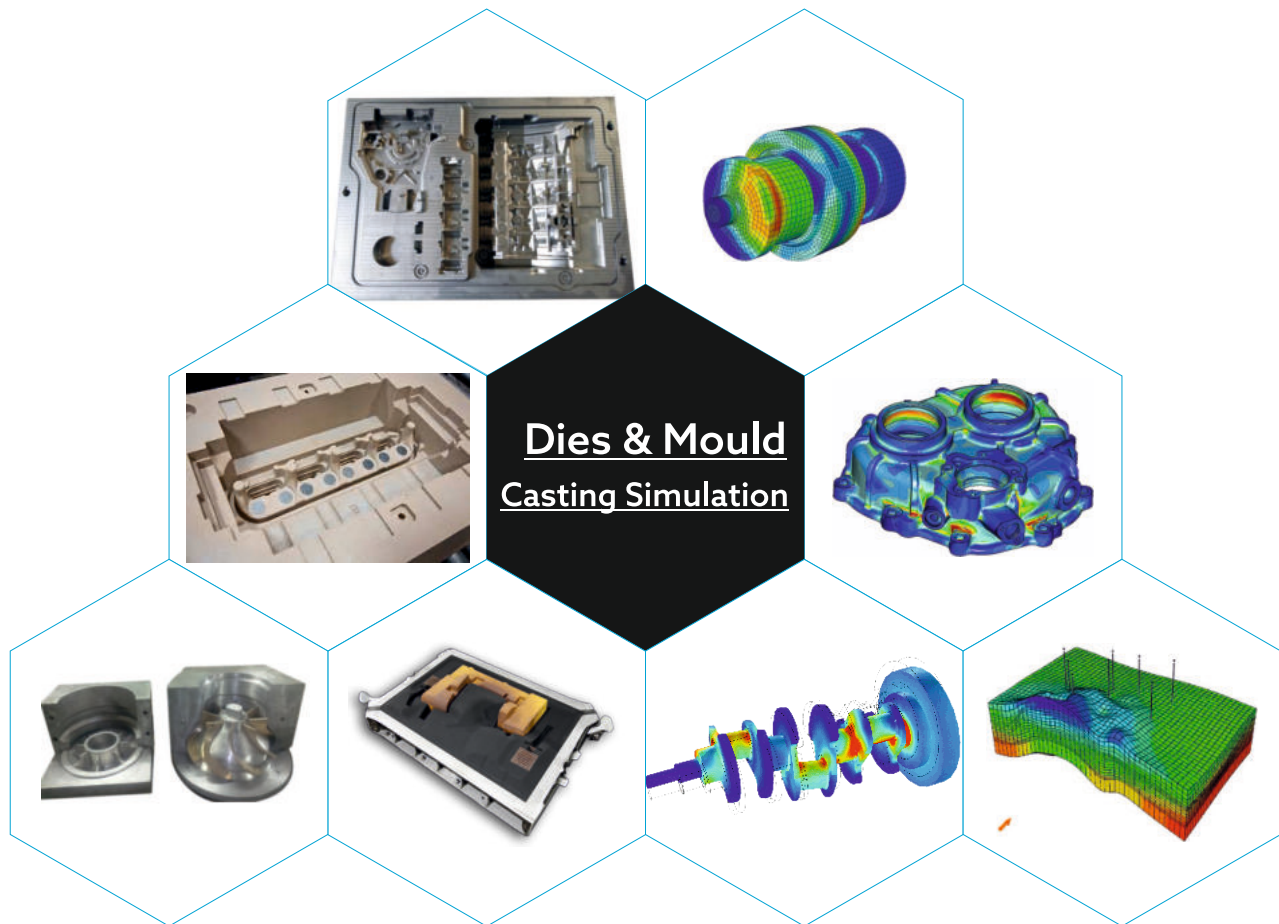


300x300 Horizontal



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Unit With Essential Machinery And  
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Dies, Mould And Vmc Job Works.



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