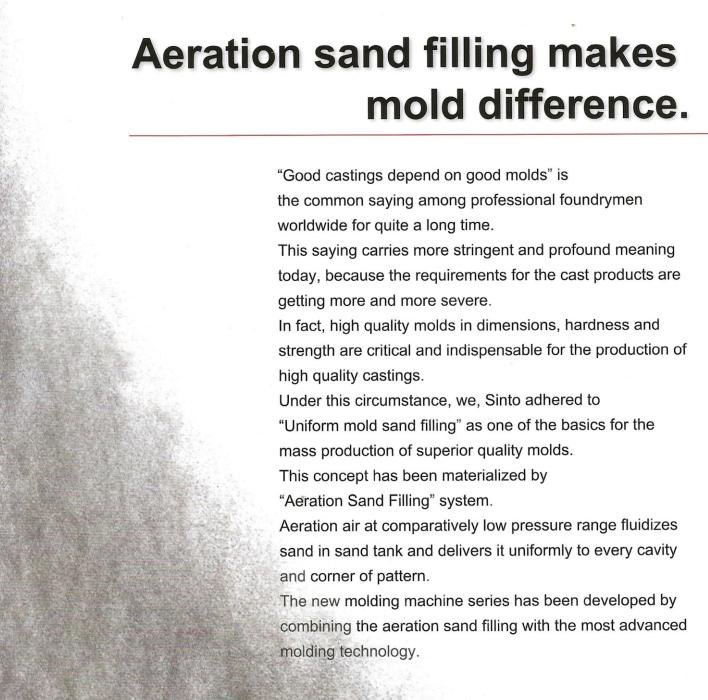


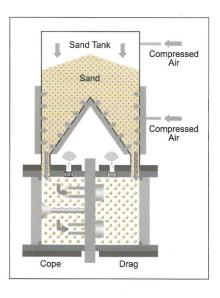
www.sinto.com

FOUNDRY TECHNOLOGY

Horizontal Parting Flaskless Molding Machine







Aeration Sand Filling Technology

Low pressure air fluidizes the sand to fill the complicated edges and pockets in the pattern with sand.

Feature

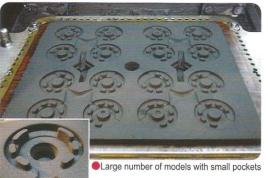
Primary sand filling that is ideal for the production of molds with superior accuracy and uniformly high strength

- Achieves uniform sand filling density.
- Uniform sand filling is realized without causing bridging at the complicated pattern profiles and throat of narrow pockets.
- Air consumption is reduced by as much as 70% compared to blow system. (compared to Sinto conventional flaskless models)
- Low noise FCMX·FBOX···75 dB(A) FDNX···72 dB(A)





Complicated pattern configurations with pockets











Deep profile and complicated pockets

Horizontal Parting Flaskless Molding Machine



High speed with core setting time & Spacious working space

Award of Japan

- ·27th President's Award for Outstanding Energy Saving Machinery by Japan Machinery Federation 2006
- ·Toyota Award 2007 by Japan Foundry Engineering Society
- Included in the category of preferential taxation for energy saving machines by Ministry of Economy, Trade & Industry

Okochi Memorial Production Award by Okochi Memorial Foundation

Molding Rate (MAX): 200 molds/hr

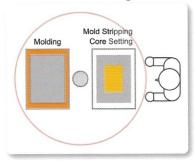
*Including 9 sec for core setting FCMX-I and II





With aeration sand filling system

2-Station design



- Excellent mold strength and accuracy have been realized with the use of "Aeration Sand Filling" and "Centered Supporting Mechanism".
- The "squeeze pressure balance control" ensures stable molding by improving the pattern transferability and preventing pattern distortion.
- The "mold height feedback control" reduces the sand consumption and compensates for compactability variations.
- Environment-friendly and energy-saving. The noise level is as low as 75 dB (A).

Centered Supporting Mechanism with Double Guides

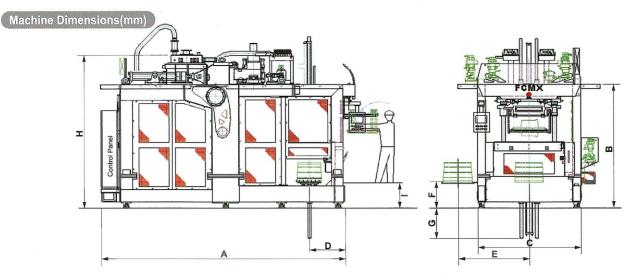
FCMX, without pins and bushes, achieves highly precise pattern draw and mold matching by supporting cope and drag flasks with robust guiding.





Easy pattern change

Matchplate is taken out quite easily by shifting to Pattern Change mode.



Model No.	Α	В	С	D	E	F	G	Н	1
FCMX-I	4,870	2,640	2,100	610	1,450	505	570	3,196	300
FCMX-II	5,100	2,640	2,200	655	1,550	505	610	3,268	300
FCMX-Ⅲ	6,140	3,100	2,640	890	1,800	655	735	3,850	640

Specifications

	Model No.	FCMX-I	FCMX-II	ГСМХ-Ш				
Size	Width x Length (mm)	500×400 508×406 (20"×16") 520×420	550×450 610×508 (24"×20")	700×600				
Mold	Height (mm)	Cope:130-200 Drag:130-200 Optionally set	Cope:130-200 Drag:130-200 Optionally set	Cope:180-250 Drag:180-250 Optionally set				
Molding System		Aeration Sand Filling + Squeeze						
Molding Rate (Max) *1) (Including 9 sec for core setting)		200 molds/hr (18 sec/mold)	200 molds/hr (18 sec/mold)	171 molds/hr (21 sec/mold)				
Squeeze Surface Pressure (Max)		1.0 MPa. 4 selectable stages						
Aeration Pressure		0.05-0.18 MPa						
Power System		Air & Oil (30 kW-Water cooled)	Air & Oil (37 kW-Water cooled)	Air & Oil (30 kW+30 kW-Water cooled)				
Air Consumption		0.6 m³(N)/mold	0.7 m³(N)/mold	1.5 m³(N)/mold				
Operating Air Pressure		0.5∼0.55 MPa						
Weight of Mold (Min-Max)		78 kg-131 kg	97 kg-186 kg	226 kg-315 kg				

^{*1)} Molding speed shown above stands for the fastest case with the mold thickness setting of Thick/Thick.

- 1) CE version is also available as an option.
- 2) The above specifications and dimensions are subject to change without notice.

Option



- Automatic pattern changer
 Automatic changeover of the
 master plate reduces
 replacement cycle time
 eliminating required man-hours.
 (Includes one master plate)
- Cold climate specifications (Hydraulic unit heater)
 Reduces heating time for hydraulic unit operating oil.



- Magnet type sprue cup Sprue change can be done with a single press of a button reducing man-hours required for sprue attachment.
- Hot climate specifications (Operation panel air conditioner)
 Prevents overheating inside the operation panel.



- Aeration tank nozzle (UHPE)
 UHPE nozzle reduces nozzle wear achieving less maintenance and longer life.
- Receiver tank
 Stable supply of compressed air.
- Molding analysis monitor software
 Operation status data is
 collected during molding and
 graphed for easier traceability.
 (Recommended PC: Molding
 analysis monitor PC)
- Molding analysis monitor PC This custom PC is recommended for use with the molding analysis monitor software.
- Recommended spare parts

These are the spare parts we recommend keeping on hand as well as the consumables required for the first year of operation.