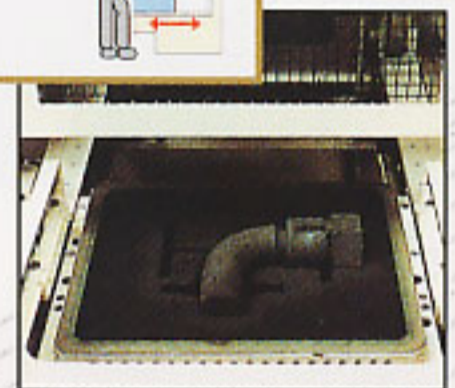
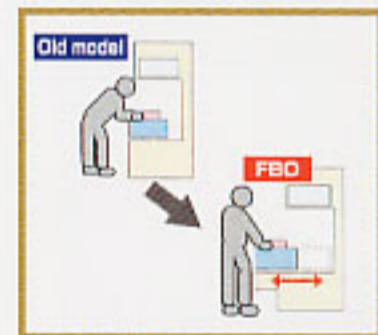


Single Station type FBO-I, FBO-II, FBO-IV, FBO-V

Innovative blow pressure control system realized uniform sand filling density in a mold. FBO is tolerable and less sensitive for a wider property range of molding sand, and is possible to offer a compatibility of easy sand control and high accuracy of mold to customers.

The machine also features flexible and easy control and stable productivity.

- For the first time in single station machine, automatic drag shuttle mechanism is adopted for safe and easy core setting in a comfortable posture.
- Touch screen panel is adopted for simple control of the machine. Legible display provides reliable and stable molding operation.
- Top blow system of FBO does not require severe control of molding sand. The machine accepts tough property of sand with a high CB value.
- Changing of matchplate is as simple as one touch by setting the plate to the pins on shuttle frame.

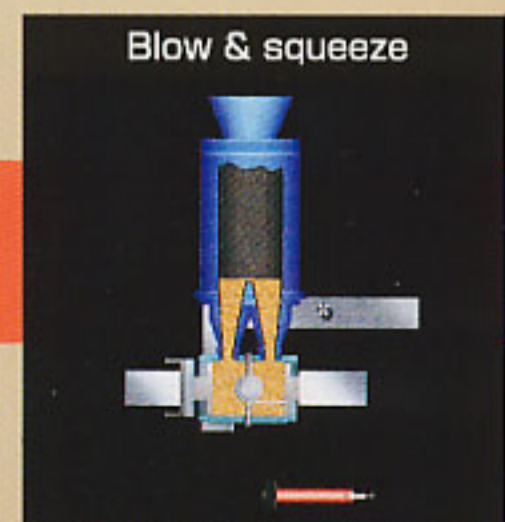
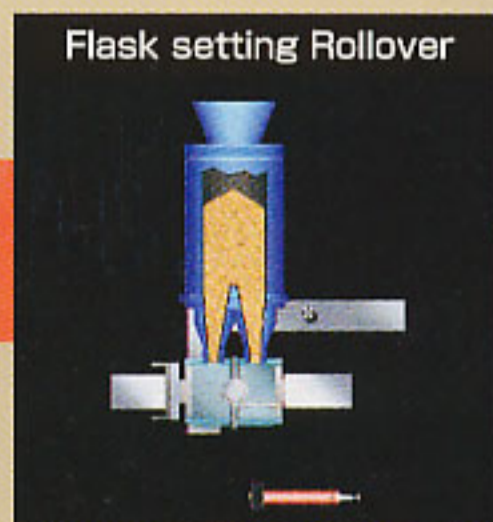
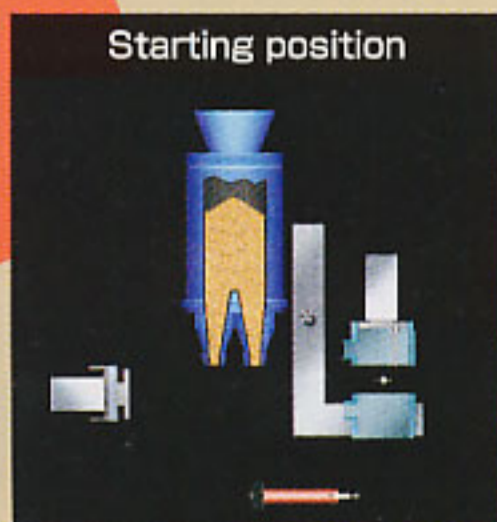


Automatic drag sliding

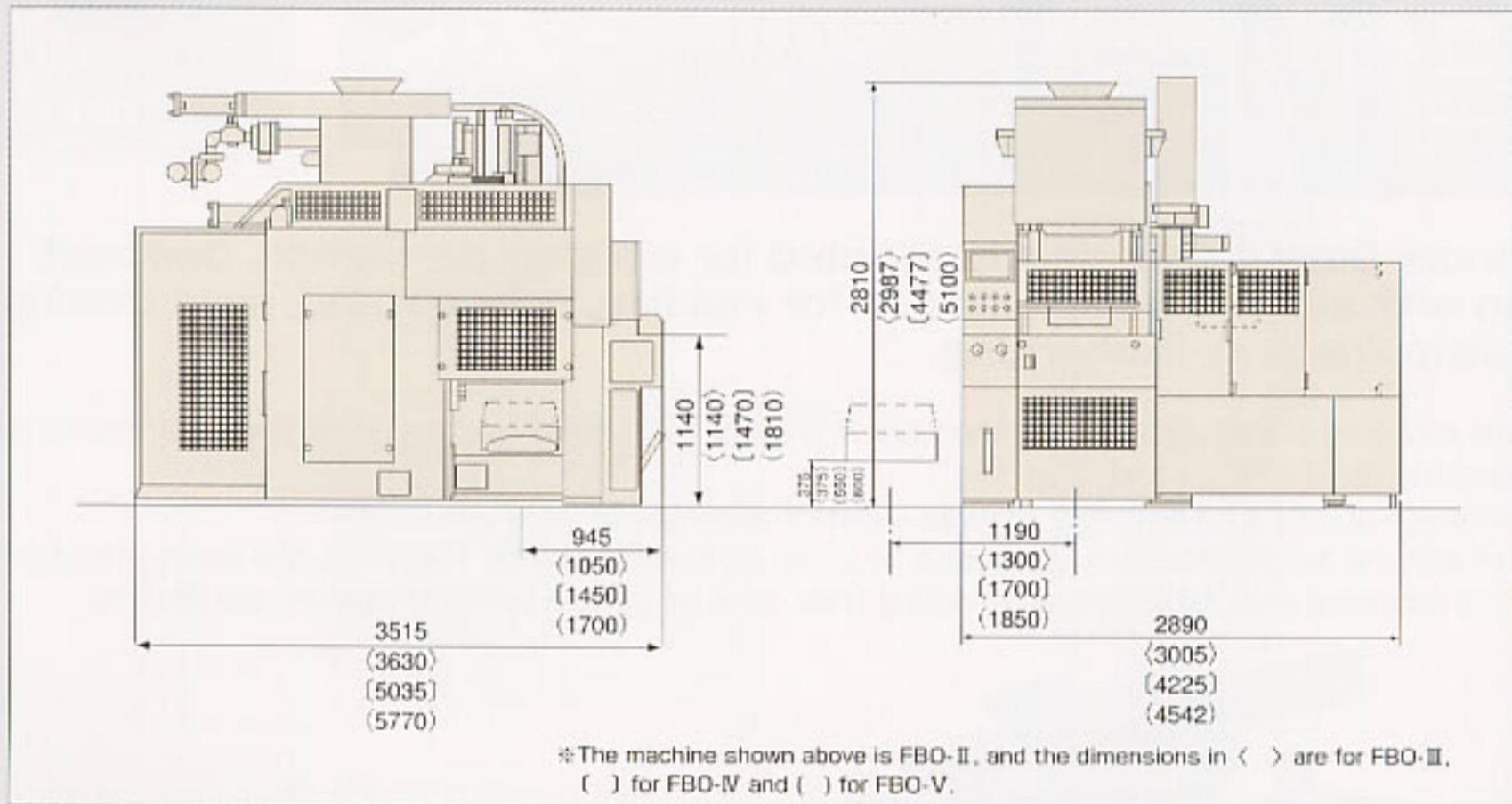


Touch screen panel

Molding Process



■ Dimensions



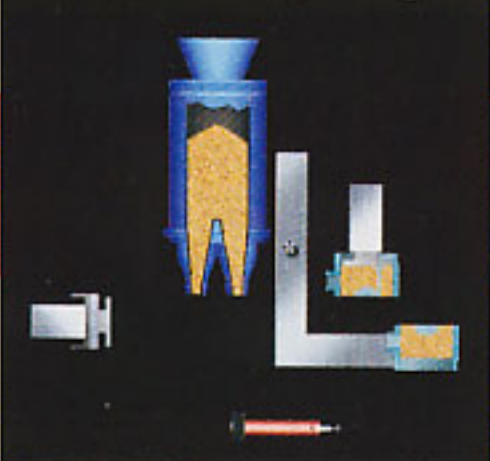
■ Specification

Model	FBO-II	FBO-III	FBO-IV	FBO-V	
Mold size	Length(L)x Breadth(B)mm.	400×300 500×400	600×500 609.6×508 (24"×20")	660.4×508 711.2×508 (26"×20") (28"×20")	762×609.6 812.8×762 (30"×24") (32"×30")
	Height(H)mm	(Cope) 130~200 / (Drag) 130~200	3-steps optional presetting	(Cope) 180~250 / (Drag) 180~250	(Cope) 250~300 / (Drag) 250~300
		±400×300, 430×310 (Cope) 100~150 / (Drag) 100~150	3-steps optional presetting	3-steps optional presetting	3-steps optional presetting
Molding method	Top blow + Squeeze				
Molding speed (Max)	24sec/mold (Without core setting) ※ ¹	27sec/mold (Without core setting) ※ ¹	36sec/mold (Without core setting) ※ ²	40sec/mold (Without core setting) ※ ³	
Squeeze pressure on mold face(Max)	~1.0 MPa (~10.0kgf/cm ²) 3-steps changeable				
Actuating Power source	Air & hydraulic (15kW---water-cooled)		Air & hydraulic (30kW---water-cooled)	Air & hydraulic (52kW---water-cooled)	
Air consumption	1.0Nm ³ /mold	1.2Nm ³ /mold	2.5 Nm ³ /mold	3.5 Nm ³ /mold	
Actuating air pressure	0.5~0.55MPa (5~5.5kgf/cm ²)				
Electricity	Drive circuit AC460V (50Hz) Control circuit AC100V (50Hz)				
Weight of Mold(max)	36kg~148kg	117kg~186kg	180 kg~315 kg	418 kg~567 kg	
Colour code	Machine & panels:S1-1002 Wire netting: Black				

- ※¹ Molding speed given here stands for fastest case with maximum setting of mold thickness and without core. If cores are set, the cycle time is prolonged for 4 sec. for drag shutting + core setting time.
 ※² Molding speed given here stands for fastest case with maximum setting of mold thickness and without core. If cores are set, the cycle time is prolonged for 5 sec. for drag shutting + core setting time.
 ※³ Molding speed given here stands for fastest case with maximum setting of mold thickness and without core. If cores are set, the cycle time is prolonged for 6 sec. for drag shutting + core setting time.
 ※ The above specification may be changed for improvement without notice.

Standard accessories: Regular sprue cup former and gate stick...1 set. Tool set. Squeeze board heater (200V) ...2sets. Anchor bolts ...1 set. Parting agent tank...1 set. (15ℓ for FBO-II, III, 20ℓ for FBO-IV, V.)

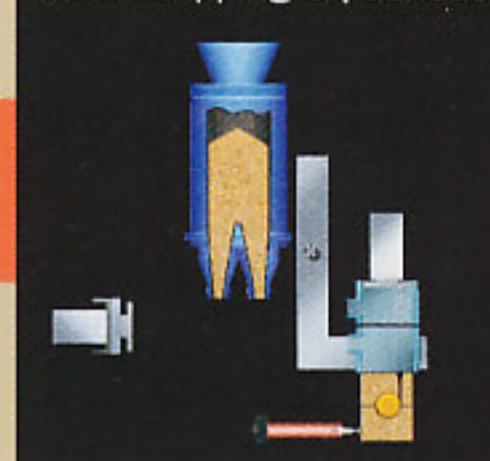
Pattern draw Drag sliding out



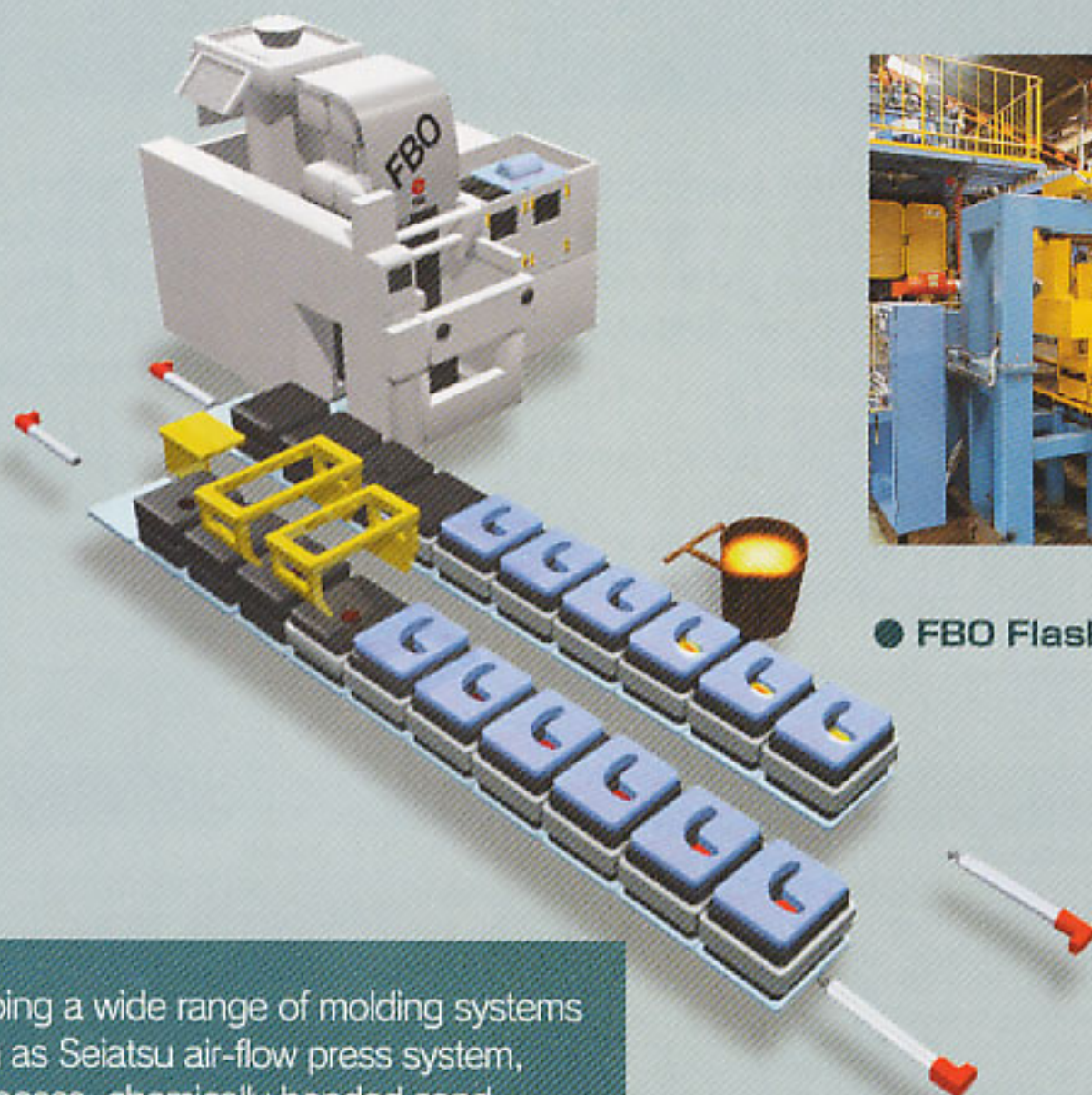
Core setting



Mold stripping & pushout

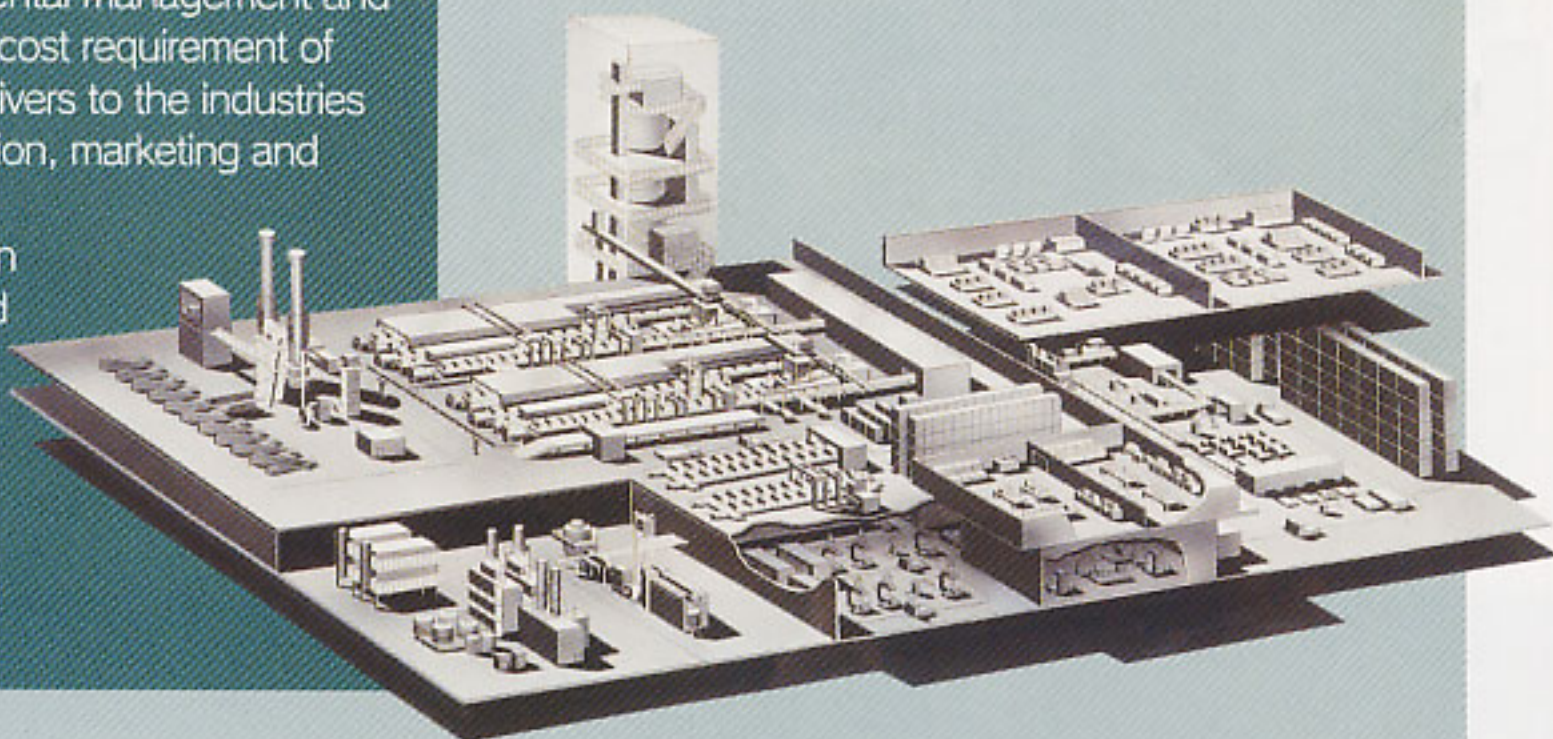


Sinto offers a remarkable upgrading of integrated capabilities of your production system by preparing every needs from single molding machine to a full-scale foundry plant



● FBO Flaskless Molding Line

Keeping a wide range of molding systems such as Seietsu air-flow press system, V-process, chemically bonded sand, flaskless system, core making, etc. as its hub of operation, Sinto engineers the integrated foundry systems composed of sand conditioning, melting, surface finishing, environmental management and others to meet the cost requirement of customers, and delivers to the industries through its production, marketing and service network furnished not only in Japan but extended over the United States, Europe, China, Asia, South America and practically all over the world.



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