

# HOTRUNNER CONTROLLER

model **VMC**

Simple  
Tough  
Stability



## Simple

LCD touch panel – bigger and better screen – for easy handling  
Compact (322×450×526, 20kg) and versatile  
Adoption of the Card Cage Method  
– Easy maintenance of the PCB

## Tough

Compliance with EMS / EMI of EN Standard  
– Resistant to disturbance noise  
– Reduction of noise emission  
Connectable to an electric molding machine  
Optical insulated circuit (withstands up to 240V) for temperature input  
– Prevent the controller from a damage caused by a short circuit or incorrect wiring.

## Stability

Equipped with Soft Pulse Output Control\*  
– Easy on heaters  
– Stabilize molding production  
Preventive measures for noise emission  
Equipped with optical insulated circuit  
– Great performance even under the influence of static electricity and noise  
Trouble Detecting Function interlocks with the controller  
– Prevents the inferior production

\* Soft Pulse Output Control is registered patent of Seiki Co.,

Entry Unit



Back side of Controller



ISO9001  
JQA-QM5881

Home Page

<http://www.seiki-hot.com>

## Basic Function

File function (20 molds condition)	Valve Control function	Temperature Monitor function
Sensor Burned Out Detection function	Heater Burned Out Detection function (Probe)	Fuse Burned Out Detection function
Interlock function.	Soft Start function (Probe)	Password Lock function
Pre-heat function (manifold)	Boost function (Probe)	Sensor type support (J/K)
Language support (Japanese/English)	Temperature unit support (Centigrade / Fahrenheit)	

## Specification of S2000 Controller

Controllable Probes	Manifold	200V single-phase alternating current heater
	Probe	SH, ESN, SVP (Without Tip), SVY (Without Tip), SV32, Probes with other type of 200V heater
Number of Control Point	Manifold	4, 8
	Probe	4, 8, 16, 24, 32
Output Power	Manifold	Standard 3.0KW (4.8KW are also available)
	Probe	Standard 350 W (2 KW are also available)
LCD Screen	Type 5.7 Black and White Liquid Crystal Display (with a touch panel)	
Trouble Detection	Temperature, Sensor Burnout, Sensor Reverse, Crossed Sensor, Heater Probe Heater Burned Out, Fuse Burned Out (Probe only)	
Alarm (Electrical buzzer)	In abnormal outbreak (Electronic buzzer)	
Tip Timer On Signal	Voltage Input:	DC12~30V or AC100~240V
	Contact Input	Relay Contact Input
	Contact Output	Warning Signal, Ready Signal, Valve Open Signal
Digital I/O	Voltage Output	Warning Signal, Ready Signal, Valve Open Signal (DC24V / 300 mA)
	Contact Point Input	External Alarm, Air Pressure Drop
Temperature Input Range	Type-K	0 °C to 550 °C
	Type-J	0 °C to 450 °C
Temperature Input Resolution	0.5 °C / LCB	
Temperature Input Circuit	Isolator input with Photo MOS Relay /withholding voltage between Ch-drive housings and each channels: 400V	
Sampling Speed.	500 msec(Temperature input, Temperature Control)	
Temperature	0 °C to 40 °C (Storage Temperature: -20°C to 60 °C)	
Humidity	20 to 70% RH (Avoid condensation)	
Power Supply Voltage	AC200V / 220V / 240V (within ±10% of the stated value on the nameplate)	
Power Supply Frequency	50/60Hz(48 ~ 62Hz)	
Dimensions.	322(W)× 450(D) × 526(H)(Body only)	
Weight	20kg(VMC32VN8)	
Accessory	Entry Unit: 210 (W) × 140 (H) × 65 (D), 106 kg (Approx.) Timing Signal Cable (for Contact Point Input or Voltage Input)	
Options	Caster level, Air Unit Connection Cable etc.	

## Control Method

	Output Control Method	Temperature Control Method
Manifold	Time Proportioning Control (Cycle: 1sec.)	P I D Temperature Control
Probe	Soft Pulse Control	P I D Temperature Control + Soft Pulse Control

## Standard Compliance (Immunity Standard)

	Standard #
E M S	EN61000-4-2, EN61000-4-4, EN61000-4-1, Line Noise 2.2KV
E M I	EN55011