

Shop System™ Furnace Specifications

Fully-automated and sized to fit through a doorway, the Shop System™ Furnace delivers industrial-strength sintering in a form factor suitable for shop environments. With high thermal uniformity and low gas usage, the furnace heats parts in a vacuum-enabled chamber to just below their melting point, fusing the metal particles together to create sintered parts with densities up to 98%. Featuring an external gas hookup

and adjustable shelving totaling 3,000 cm² of surface area for sintering parts, the furnace scales to support mid-volume production of high-quality, dense metal parts ready for end-use applications.

PERFORMANCE	Atmosphere	Partial-pressure sintering (vacuum-enabled)
	Heating	SiC heating elements (4 sides)
	Max temperature	1400 °C (2552 °F)
	Average heat load	8,100 BTU/hr
	Max heat load	15,600 BTU/hr for 2 hours
	Thermal uniformity	±5 °C at sintering temperatures
PHYSICAL	External dimensions	1618 x 1380 x 754 mm (63.7 x 54.3 x 29.7 in)
	Height in open position	2160 mm (85.0 in)
	Weight	798 kg (1,760 lbs)
	Workload envelope	300 x 200 x 200 mm (11.8 x 7.9 x 7.9 in)
	Workload surface area	3,000 cm ² (465 in ²)
	Workholding	Adjustable multi-level trays with ceramic setters (6-position)
	Retort	Stacking graphite rings
	Ventilation	<ul style="list-style-type: none"> • Effluent air exhaust line (0.5 in, push-to-connect) • Liquid drain line (0.5 in, push-to-connect)
	Binder management	Removable binder cold trap liner
	Pinch-point handling	Finger-safe light curtain protection
	Fail safes	<ul style="list-style-type: none"> • Thermal interlocks • Front-mounted E-stop • Over-temperature protection
	Power requirements	208 VAC, 60 Hz, 30 A, 3-phase dedicated circuit
	Onboard controls	7-inch touchscreen display
GAS	Gas types	Forming gas, Argon (material dependent)
	Gas connection	<ul style="list-style-type: none"> • External gas connection
PLATFORM	Network connectivity	Wireless and Ethernet
	Automation	<ul style="list-style-type: none"> • Auto-generated sintering profiles • Live job progress tracking

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DIMENSIONS

