

MICROSCAN[®]

Unitized Vertical-Scanning System

Features/Benefits

- Scanning part lengths of 13", with max. scan length of 11" on standard model
- Self-contained system easily integrated into workcell
- Different power ratings and frequency ranges available for application matched precision hardening
- User friendly controls simplify set-up, changeover and diagnostics
- Flexible workpiece capacity
- Simple utility connection for fast, low cost installation
- Compact. Requires minimum floor space
- Backed by the world's largest designer and manufacturer of induction heating equipment

Compact Production Hardening System

The MICROSCAN[®] is a single or dual spindle vertical-scanning system for hardening and tempering a wide variety of parts. The three power ratings available are: 25 kW/30 kHz, 15 kW/200 kHz and 45 kW/200 kHz.

Self-Contained Design With Built-In Power Supply

The MICROSCAN[®] system features a built-in UNIPOWER[®] or STATITRON[®] solid state power supply with heat station, programmable scanner, control and recirculating quench system. This unitized construction reduces floor space 50-80%.

Special Features to Speed Changeover

A user friendly keyboard on the MICROSCAN[®] provides quick set-up, changeover and diagnostics capability. To simplify set-up, upper tooling centers can be adjusted without tools. A selection of standard quick-change inductor mountings are also available to minimize changeover time.

Rugged Design For Long-Life Performance

The MICROSCAN[®] system is manufactured to exacting international standards. Scanning towers are machined from aluminum plates with a 1.5" diameter hardened and chrome plated shaft and a stainless steel guide bar. Variable speed DC motors ensure precise control of the scan and rotation speeds.



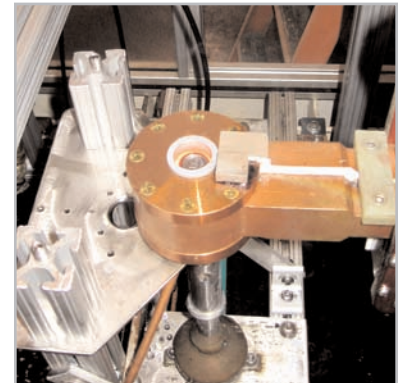
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SPECIFICATIONS:

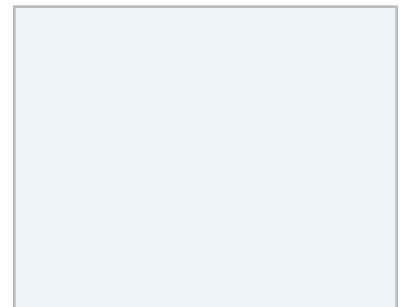
Power & Frequency Ratings	25 kW/30 kHz, 15 kW/200 kHz, 30 kW/200 kHz Depending on application.	
Workpiece Capacity	Length: 13 in. (330 mm) Weight: 22 lbs. (10 kg)	
Scanning Distance	11 in. (280 mm)	
Workpiece Loading	Manual load/unload	
Scanning Speed	Four user-determined, pre-set speeds from 0.1-1.2 in./sec. (2.5-30 mm/sec).	
Spindle Rotation	0 to 139 rpm	
Quench Systems	Water-to-water heat exchanger with centrifugal pump, digital temperature controller, quench heater and front-mounted pressure gauge and valve.	
Cooling Systems	Closed-loop, nonferrous reservoir, heat exchanger, and recirculating system with centrifugal pump.	
Control	Microprocessor-based programmable memory counter, 99 presets controlling 16 outputs, including heat level, scan speed, heat time, quench time, index speed and time delays, four user-determined, pre-set heat level potentiometers.	
Machine Dimensions	Width: 48 in. (1,220 mm) Depth: 25 in. (635 mm) Height: (tower down) 63 in. (1,600 mm) Height: (tower up) 80 in. (2,032 mm)	
Shipping Weight	1,500 lbs. (680 kg)	
Power Requirements	25 kW/30 kHz	35 kVA, 480 V, 60 Hz, 3 phase
480 V, 60 Hz, 3 phase	15 kW/200 kHz	21 kVA, 480 V, 60 Hz, 3 phase
	45 kW/200 kHz	42 kVA, 480 V, 60 Hz, 3 phase
Plant Water Requirements (@ 11°F Rise) 85°F max. (29°C)	25 kW/30 kHz	10 gpm (38 lpm) min. @ 30 psi diff. (2 bar)
	15 kW/200 kHz	5 gpm (20 lpm) min. @ 30 psi diff. (2 bar)
	45 kW/200 kHz	10 gpm (38 lpm) min. @ 30 psi diff. (2 bar)
Safety Features	Door interlock; pressure switches on all water cooled HF capacitors; temperature switches on all critical water paths.	
Options/Accessories	Energy Monitor; Insta-Change coil adapter.	
* Specifications are subject to change without notice.		



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ISO 9001:2000 Certified

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