

STATISCAN[®]

Unitized Vertical-Scanning System with Two or Four Spindles

Features/Benefits

- Two spindles to process two parts at a time
- Also available as a four spindle in a dual tower/dual power supply configuration
- Scans part lengths of 30 in., with maximum scan heated length of up to 24 in. on standard model
- Self-contained, compact design for minimal floor space and ideal for workcell
- Different power ratings and frequency ranges available for application matched precision hardening
- User-friendly controls simplify set-up, changeover and diagnostics
- Built to machine tool standards for reliable performance
- Simple utility connection for fast installation and relocation



Two-Spindle Induction Heating System

Low to Mid Volume Production Hardening System

The STATISCAN[®] can be configured as a single, dual or four spindle, vertical scanning system for hardening or tempering a wide variety of parts. Standard power ratings are available from 50-300 kW at 10-200 kHz depending on the application.

Compact, Unitized Machine Design

The STATISCAN[®] system features a built-in transistorized solid state power supply with heat station, programmable scanner controls, quench and water recirculating system. This unitized construction reduces floor space 50-80% compared to conventional systems.

Special Features to Speed Changeover

A user-friendly HMI on the STATISCAN[®] provides quick set-up, changeover and diagnostics capability. To further simplify set-up, the upper tooling carriage can be adjusted up/down without tools. A selection of standard Insta-Change inductor mountings are also available to minimize changeover time.

Rugged Design For Long-Life Performance

The STATISCAN[®] system is field proven with over 200 systems worldwide. Scanning towers are constructed with 1.5 in. diameter hardened chrome plated shafts, bronze bearings, stainless steel guide bars and 2 in. thick machined anodized aluminum plates. A DC rotation motor and AC servo motor scan for repeatability and positioning accuracy.

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SPECIFICATIONS FOR TWO SPINDLE SYSTEM:

Power & Frequency Ratings	50-300 kW @ 10-200 kHz Depending on application.	
Workpiece Capacity	Length: 30 in. (760 mm) Weight: 22 lbs. (10 kg/spindle)	
Scanning Distance	24 in. (600 mm)	
Workpiece Loading	Manual load/unload	
Scanning Speed	0.04-4.0 in./sec. (.1-100 mm/sec)	
Spindle Rotation	0 to 350 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	Panelmate/PLC with memory storage standard for 40 programs or optional upgrade for 260 programs. Also available as PC HMI/PLC program storage depending on hard drive system.	
Machine Dimensions	Width: 79 in. (2000 mm) Depth: 68 in. (1700 mm) Height: (tower down) 81.50 in. (2,100 mm) Height: (tower up) 92.75 in. (2,400 mm)	
Shipping Weight	1,500 lbs. (680 kg)	
Power Requirements 480 V, 60 Hz, 3 phase	50 kW 75 kW 100 kW 150 kW 200 kW 300 kW	82 kVA 113 kVA 145 kVA 206 kVA 270 kVA 392 kVA
Plant Water Requirements (@ 11°F Rise) 85°F max. (29°C)	50 kW 75 kW 100 kW 150 kW 200 kW 300 kW	30 gpm (115 lpm) min. @ 30 psi diff. (2 bar) 45 gpm (170 lpm) min. @ 30 psi diff. (2 bar) 60 gpm (230 lpm) min. @ 30 psi diff. (2 bar) 90 gpm (340 lpm) min. @ 30 psi diff. (2 bar) 120 gpm (455 lpm) min. @ 30 psi diff. (2 bar) 180 gpm (680 lpm) min. @ 30 psi diff. (2 bar)
Safety Features	Door interlocks; pressure switches on all water cooled HF capacitors; temperature switches on all critical water paths. Light screen.	
Options/Accessories	Energy Monitor; Insta-Change coil adapter; Single-spindle tooling; Pneumatic upper centers; Robot or Pick & Place robotic parts handling system.	
* Specifications are subject to change without notice.		
** Ask your salesman about the four spindle specifications.		



Optional four-spindle system



Hardening and tempering a spline



PC controlled operator screen



ISO 9001:2000 Certified

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