

STATISCAN[®] CE

Vertical Scanning Machine

Machine Concept

The STATISCAN[®] CE is a universal vertical scanning machine for hardening or tempering of a wide variety of components.

The machine features state of the art transistorized inverter technology, up to two heating stations, control system along with a recirculating system for power and quench. It is a self-contained system with simple utility connection for fast, low cost installation.

Features

- 75 - 150; 10 or 30 kHz
- 45 / 90 /135 kW; 50-200 kHz
- Scanning distance up to 27 in (700 mm)
- Clamping length up to 35 in (900 mm)
- Workpiece weight up to 44 lbs (20 kg)
- Programmable vertical axis

Capability

This machine can be equipped with up to two vertical upper and lower centers. Use of special part locators allows for heat treating of a wide variety of components. Further optional assemblies, including rotary turntable, lift/rotate and horizontal pusher assembly, ensure maximum flexibility for different methods of part processing. This flexibility allows the STATISCAN to be easily integrated into a workcell.



Control System

A user friendly operator panel provides quick set-up, changeover and diagnostics capability. All essential process parameters are monitored for each cycle and can be displayed as text. The control features multiple program storage capability.

Technical Specifications:

Power Supply	75 - 150 kW @ 10kHz or 30kHz 45 / 90/ 135 kW @ 50-200kHz		
Part Rotation	45-450 rpm		
Cooling System	Recirculation system with water to water heat exchanger, circulation pump, filter as well as temperature regulation by machine control, including all required sensors to monitor cooling of the power supply and quench water.		
Controls	Control for programming the complete heat treat cycle including the functions: <ul style="list-style-type: none"> • Position • Feed rate up to 10 in/sec (250 mm/sec) • Heat On /Off • Power level in percent • Quench On /Off • Heat, dwell and quench times • Further functions as required Main components: A/B or Siemens PLC, servo-module, operator panel in panel with swivel arm, program storage for approx 200 programs.		
Part Dimensions	Length max. 35 in. (900 mm); Weight: max.44 lbs. (20 kg) per spindle; Heat treat length depending on application approx 27 in. (700 mm)		
Load/unload	Manual, interfacing with pick and place or robot possible		
Dimensions	Length: 82 in (2085 mm); Width: 47 in (1200mm); Height: 81 in (2070mm) (tower down) 108in (2750 mm) (tower up)		
Machine Weight	approx. 3747 lbs (1700 kg)		
Connected Load @480V, 50/60 Hz, 3 phase	Power	kVA	Plant work requirements*
	45 kW	88 kVA	30 gpm (110 lpm)
	75 kW	87 kVA	55 gpm (110 lpm)
	90 kW	161 kVA	55 gpm (210 lpm)
	135 kW	161 kVA	75 gpm (283 lpm)
	150 kW	221 kVA	100 gpm (350 lpm)
	* At 90° F. (32°C) inlet. Actual requirement corresponding to temperature and duty cycle.		
Safety Features	Safety enclosure with door interlock, temperature sensors in all critical water paths, flow sensors for power supply, inductors, and quench.		
Options	<ul style="list-style-type: none"> • Process data monitoring / collection • Inductor quick-change connection • Inductor ground detection • Single spindle version • Rotary moveable and further modules 		

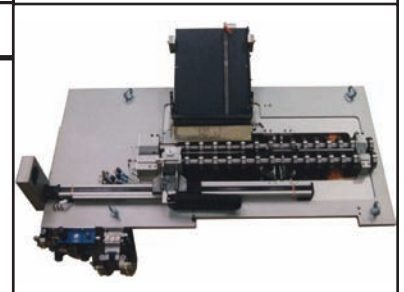
Specifications are subject to change without notice



Dual spindle vertical scanner



Rotary index table



Horizontal pusher



A/B menu screen