

STATISCAN PLATINUM

Vertical Hardening Machine



- suitable for hardening a variety of different workpieces
- scanning distance up to 700 mm
- clamping length up to 900 mm
- workpiece weight up to 20 kg
- programmable vertical axis
- dimensions (W/L/H):
approx. 1800 x 2600 x 2300 mm
- performance: 100 kW, 50–200 kHz

The concept

- The STATISCAN 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 as well as a recirculating system for power and quench. It is a self-contained system with simple utility connection for fast, low cost installation.

The operating range

- This machine can be equipped with up to two vertical upper and lower centers. The use of workpiece fixtures on the lower centres allows not only shafts but also other workpiece types such as gears to be hardened.
- Further optional assemblies including rotary turntable and horizontal assembly, ensure maximum flexibility for different methods of part loading. The STATISCAN can also be easily integrated into a workcell.

The control system

- The swivelling operator panel Siemens OP277 within working reach permits fast machine adjustment and programming of the feed axis.
- All essential process parameters are monitored for each cycle and can be displayed as can be displayed in plain text.
- A memory allows a large selection of individual programs to be quickly stored and retrieved..

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Technical data

Inverter	SP11 100 kW 50–200 kHz
Workpiece rotation	150–560 rpm adjustable
Cooling system	customers cooling water supply; closed recooling system with water/water plate heat exchanger (use of quench water possible) and recirculating pump for cooling the inverter cooling water and quenching medium, digital temperature control and heating for quenching medium
Control	failsafe control with Siemens OP277 on swivelling operator panel
Workpiece data	max. workpiece diameter: - approx. 300 mm (1-track-mode) - approx. 100 mm (2-track-mode) max. clamping-/workpiece length: 900 mm max. workpiece weight: 20 kg
Load/unload	manual, linking to handling or robot possible
Dimensions	length: ca. 2 600 mm width: ca. 1 800 mm height: 2 070 mm (tower down) 2 750 mm (tower up)
Machine weight	ca. 1 700 kg
Connected load	400/480V 50/60 Hz cooling water* power: kVA: 210 l/min. 100 kW 161 kVA
Safety devices	safety enclosure with door interlock temperature switches on all critical cooling water paths flow monitoring devices for inverter, inductors and quenches

Our range of services

- Induction plant engineering
- Sub-contract hardening shops
- Hardening accessories
- Inductor express
- HF/MF-inverter
- IFP-inverter
- Process development
- Technical support within 24 hours



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