

INDUCTOSCAN MOVE

Vertical Hardening Machine



- suitable for hardening or tempering a variety of different workpieces
- scanning distance up to 250 mm
- clamping length up to 260 mm
- workpiece weight up to 4 kg
- programmable vertical axis
- dimensions (W/L/H):
approx. 1 800 x 3 400 x 2 400 mm
- inverter: 100 kW, optional MF or HF

The concept

- The INDUCTOSCAN MOVE is a universal vertical scanning machine with an indexing table module for hardening or tempering a wide variety of workpieces.
- The machine features state of the art transistorized inverter technology, up to two heating stations, a control system as well as a recirculating system for energy cooling and quenching media. It is a self-contained system with simple utility connection for fast, low cost installation.

The operating range

- The machine is equipped with an indexing table module for manual loading of the workpieces which can be advanced into the processing area by a two hand control unit.
- Further optional accessories like the manual cross-slide or the X-/Y-axes with servo drive ensure maximum flexibility for different methods of part loading.

The control system

- The swivelling operator panel Siemens TP 1500 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 in plain text.
- A memory allows for quick storage and retrieval of up to 400 processing programs.

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Technical data

Inverter	up to 100 kW, optional MF or HF
Workpiece rotation	150–560 rpm adjustable
Indexing table module	180°, 2x2 stations
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 TP 1500 on swivelling operator panel
Workpiece data	max. workpiece diameter: - 150 mm (with one workpiece mounted) - 100 mm (with two workpieces mounted) max. clamping-/workpiece length: 260 mm max. workpiece weight: 4 kg
Load/unload	manual, linking to handling or robot possible
Dimensions	length: approx. 3400 mm width: approx. 1800 mm height: 2400 mm
Machine weight	approx. 2900 kg
Connected load	400/480V 50/60 Hz cooling water* power: kVA: 190 l/min. 100 kW 143 kVA
Safety devices	access door for set-up area with interlock pneumatic sliding door to protect the machine operator against possible hazards
Optional accessories	cross-slide: x-axis with an adjustment range of 50 mm (+/- 25 mm) Y-axis with an adjustment range of 120 mm (+ 40/- 80 mm) scan rate 80 mm/sec.

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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