USED MACHINE · ITEM NO. 89-001914

INDEX C 200

Factory retrofit by the manufacturer INDEX, 2019

In 2019 this machine was comprehensively overhauled by the retrofit department of INDEX at the manufacturer's plant. Mechanics, spindles, all three tool carriers, hydraulics, electrics and automation were reconditioned or renewed, and the machine was then geometrically measured and endurance-tested at the INDEX factory. The overview below summarises the scope of work.

YEAR OF MANUFACTURE	RETROFIT	CONTROL	CARRIED OUT
2009	2019 by INDEX	Siemens 840D	at INDEX plant

FITTED BRAND-NEW

- 3 new turret heads (W-serration)
- 3 new tool drive units
- New ball screws incl. bearings (X, Y, Z, S)
- New measuring systems on all axes
- New hollow clamping cylinder Ø 65 mm with stroke monitoring
- New bearings & encoders on main and counter spindle
- New power and control contactors
- New valves in hydraulics & part unloader

Base machine & guarding

- ✓ Thorough cleaning of machine and guarding, disassembly and reassembly of the base machine
- ✓ Guarding repaired, machine repainted in light ivory RAL 1015
- ✓ Sliding door overhauled, new rollers and guides
- ✓ New safety window and brush strips, scissor kinematics inspected

Main & counter spindle (Ø 65 mm)

- ✓ Both spindles overhauled: new bearings, new encoders, alignment and indexing unit repaired/replaced, testing and run-in
- ✓ New hollow clamping cylinder Ø 65 mm / 20 mm stroke with clamping-stroke monitoring
- ✓ Main spindle supply lines renewed (hoses, air supply, attachments)
- ✓ Counter spindle: supply lines, Z3 feed drive and compensating clamping renewed
- ✓ Clamping pressure units (8–80 bar) on both spindles overhauled
- ✓ New stop device; coolant line through counter spindle renewed incl. rotary union and electric shut-off valve

Errors and omissions excepted. Subject to prior sale.

Tool carriers 1 & 2 (cross slides X/Y/Z)

- ✓ One new turret head (W-serration) and one new tool drive unit each
- ✓ X1, Y1, Z1 and S1 drives completely new (ball screws and bearings)
- ✓ New measuring systems on all axes, motors overhauled
- ✓ Turret drive and indexing newly assembled, new seal kit and gear-ring set
- ✓ Linear guides X1/Z1, new cables and energy chains, 80 bar coolant supply, coolant valves replaced

Tool carrier 3 (cross slide X)

- ✓ New turret head (W-serration) and new tool drive unit
- ✓ X1 and S1 drives completely new (ball screws and bearings), motors overhauled
- ✓ New measuring systems, linear guide X1, new cables/energy chain, seal kit and gear-ring set

Electrics & control

- ✓ Cleaning of all electrical assemblies in control cabinet and junction boxes
- ✓ New power and control contactors, machine control panel overhauled
- ✓ NC software upgraded to the highest 840D level possible for the existing hardware
- ✓ Functional test and data backup before delivery

Hydraulics & lubrication

- ✓ All static lines and seals replaced, new labelling
- ✓ All valves replaced
- ✓ Motor/pump unit and lubrication unit overhauled

Gantry part unloader & conveyor

- ✓ New linear guide, energy chain and toothed belt; angle gripper reconditioned
- ✓ Valves replaced with current design, junction box replaced
- ✓ Conveyor: new brush strips and belt, drive renewed/overhauled

Acceptance at the INDEX plant

- ✓ Control function check, geometry and functional inspection
- ✓ Turret test run and machine endurance run
- ✓ Geometry report issued

Additional options listed in the document

- Refit control 840D premium package (repair of all power and control modules, endurance test on test bench)
- INDEX ChipMaster – chip-breaking cycle for difficult-to-machine materials
- NC option for internal tool management with set-up dialogue (tool life / piece count monitoring)

Your benefit: A manufacturer retrofit of this scope brings all wear-relevant assemblies back to an as-new condition – at a fraction of the price of a comparable new multi-turret production lathe. We will be glad to demonstrate the machine to you under power.

Source: Quotation/order confirmation of INDEX-Werke GmbH & Co. KG, Esslingen, document no. 20091147 dated 13 June 2019 (service notification 300937508, equipment 720392; original in German). This overview is a summary prepared by G+S Werkzeugmaschinen; the enclosed original document is authoritative.

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