

HOUFEK - CNC SCORPION H21 - 2021



Manufacturer: **HOUFEK**

Type: **CNC SCORPION H21**

Year of manufacturing: **2021**

Parameters: **max. tool length 180 mm**

Description:

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- control system FANUC FS 31i-B5 Stand-Alone Type - iHMI
- CNC Scorpion in basic version - five-axis woodworking center
- nesting table with automatic tool change
- designed for machining compacts, plastics and board materials
- maximum workpiece height 150 mm
- construction made of steel weldments
- weldments annealed using modern computer technology
- high stability and hardness for complex milling
- guarantees high quality of the machined surface
- basic structure filled with high-strength epoxy mixture
- better vibration damping and higher machine weight
- gantry structure
- X-axis drives attached from both sides

Condition

- in operation since 1/2021
- number of hours 18,000 h
- 1/2022 spindle replacement (HITECO → HSD)

Includes

- fencing from the back and side of the machine
- 2× Becker vacuum pump
- 100× HSK A 63 clamping cones
- mechanical adjustment of the machine

Work of the programmer / application technician (approx. 80 h)

- familiarization with the state of the machine - 1 day
- approaching the machine zero, limits, tool change, probe calibration - 2 days
- functionality testing (machining with the main spindle) - 1 day
- operator training - 2 days
- cooperation on debugging the postprocessor - approx. 4 days

Subcontracted work

- autodesk Fusion + training (16 hours)

- travel, travel allowances, accommodation

Technical data

General

- pneumatic connection
- minimum pressure 7 bar
- air consumption approx. 300 l/min
- electrical connection
- voltage 400 V
- frequency 50 Hz
- power consumption approx. 20 kW

Accuracy

- machine accuracy: ± 0.1 mm / 1,000 mm
- repeat accuracy: ± 0.05 mm
- flatness and squareness (X, Y, Z): 0.1 mm / 1,000 mm

Spindle

- HSD ES 779 L 6P
- power 22 kW
- max. speed 24,000 / min
- clamping HSK A 63

Drilling unit (36 drills)

- power 1.7 kW – 3 pcs
- spindle spacing 32 mm
- stroke 70 mm
- drill clamping D = 10 mm (side screws)

Chain tool magazine

- capacity 60 tools
- max. tool length 180 mm
- max. diameter 100 mm
- max. weight 3 kg
- drive servo motor

Rotating tool magazine

- capacity 21 tools
- max. tool length 150 mm
- max. diameter 150 mm
- max. weight 5 kg
- drive servo motor (additional controlled axis)

Working range

- for workpiece 3200 × 2100 × 150 mm
- X-axis 3900 mm
- Y-axis 2750 mm
- Z-axis 350 mm

Rapid traverse

- X-axis 0–70 m/min
- Y-axis 0–70 m/min
- Z-axis 0–35 m/min

Vacuum table

- divided into 8 zones
- control from the panel

Additional connections

- pneumatic
- 4× pairs Ø 6 mm
- for external clamping elements
- vacuum
- 4× pairs Ø 12 mm

- for vacuum templates and fixtures