

Work Spindle Drive HSA-2.04 SCEM



The Work Spindle Drive HSA 2.04 SCEM is a complete solution for machining wood, plastics, aluminium and similar metals with rotating tools. It consists of a robust 400 W spindle motor MAHV 2.04 S an optimized frequency converter FC 1200-CT as well as the motor connecting cable and accessory parts.

A characteristic of the spindle motor integrated in a narrow, rectangular aluminum housing is the very rugged triple spindle bearing. This gives the necessary guidance to the motor shaft with collet to even hold tools with a shaft diameter of up to 6.35 mm (1/8") securely and precisely. The spindle motor, controlled by a frequency converter, has a very good speed stability and provides a speed range of 5,000 up to 30,000 rpm. The spindle motor MAHV 2.04 S comes with B-sided self-ventilation and is conform to protection class IP 54. The electrical connection of the spindle takes place by an 8-pole plug connector.

The FC 1200-CT, contained in the scope of supply, comes with all important characteristics of a modern frequency converter. Particularly important for the safe operation of the motor is thereby the frequency dependent output voltage, which reduces the thermal load of the system in the lower speed range and assures the maximum output power at the same time. The frequency converter is integrated in an IP 20 housing and comes with an underbody brake resistor; the assembly bracket additionally serves as strain relief for the connecting cables and for the attachment of the cable shielding.

Features

- Robust two-pole AC motor (asynchronous motor)
- Rectangular design, protection class IP54, isolation class F
- Casting bearing plate on A-side
- Aluminium diecasting B-side
- Special shaft for holding drills and milling tools
- Nominal output 0.4 kW (S6-40% mode)
- Speed range 5,000 - 30,000 rpm
- Manual tool change
- Clamping range $\varnothing 3 \text{ mm} - 6.35 \text{ mm} = 1/8''$
- Self-ventilation on B-side
- Speed control by frequency converter
- Spindle bearing: 2 bearings on A-side, 1 bearing on B-side

Frequency converter FC 1200-CT

- Nominal output 1,200 VA
- Integrated operating module with function keys and LC display
- Remote control by analog setpoint and PLC-compatible I/O signals
- Integrated brake chopper / brake resistor
- Input voltage 230 V AC
- Protection class IP 20