

Work Spindle Drive HSAW 1.0 SKC-E



Features

Spindle motor MAW 2.10-KE

- Robust two-pole asynchronous motor
- Triple spindle bearing, steel bearing plates on A-side and B-side
- Special shaft for holding tool holders (ISO10)
- Clamping range $\varnothing 3$ mm – $\varnothing 6.35$ mm
- Pneumatic tool change (5 bar)
- Cooling by means of compressed air
- Speed range 6,000 - 40,000 rpm with air cooling
6,000 - 50,000 rpm with water cooling
- Nominal output 1.0 KW in case of S1=100% mode
- Sensor outputs for temperature, sense of rotation, speed, tool position

Frequency converter SKC 1500

- Nominal output 1,500 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

The Work Spindle Drive HSAW 1.0 SKC-E is a complete solution for machining wood, plastics, aluminium and similar metals with rotating tools. It consists of a robust 1.1 kW spindle motor MAW 2.10-K, an optimized frequency converter SKC 1500 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 40,000 rpm.

The cooling of the spindle takes place by compressed air. Furthermore, the spindle provides four safety inquiries. The SKC 1500, 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.