High-Performance H-FSWC630



The high-performance H-FSWC Series is a globally unique solution that synthesizes the very latest FSW technology with upgradable milling functionality in a single machining centre (Stirtec 2-in-1 concept).



H-FSWC630

The machines in this series are conceived as 4-axis CNC machines with an integrated palette changer and an integrated B-axis.

The machines can optionally be equipped with an FSW in-process quality monitoring system for reliable series production.

The exceptionally rugged design ensures:

high process stability

excellent system availability

outstanding technological and economic productivity

Ideal for high volume production, with integrated palett changer

Specially developed very powerful motor spindle, HSK-A63

X and Y operating travels 750 x 700 mm and Z operating travel 770 mm, B-axis 360 $^{\circ}$

FSW force control system up to 15 kN

High speed-range of up to 10 000 rpm and high power / torque

630 x 630 mm table size, 800 kg table load

FSW process quality monitoring system including FSW process data collection and monitoring

Fully automated process- and tool-change between milling and FSW-process

Siemens Sinumerik 840D control system Heidenhain absolute scales on all axes

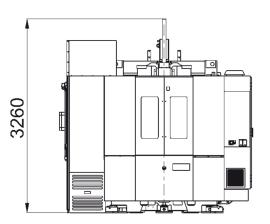
H-FSWC630 Specifications

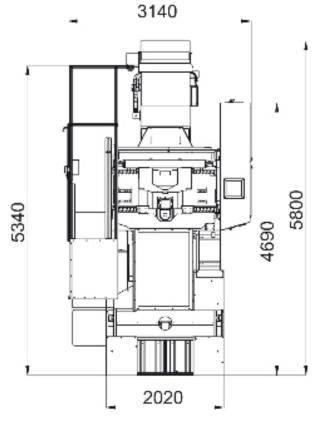
Standard Machine Configuration

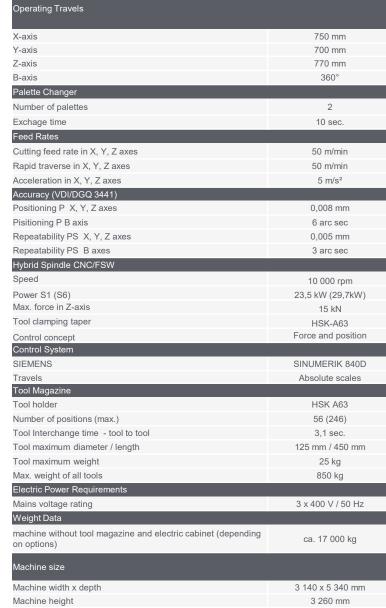
- Siemens SINUMERIC 840D SL
- Siemens SINAMICS S120 digital
- ✓ motor spindle for FSW and milling 10 000 rpm max. HSK-A 63
- Automatic pallet changer
- Vibration diagnosis of the spindle
- ✓ Automatic tool changer 56 chain type HSK-A 63
- ✓ Direct feedback Heidenhain absolute scales
- Machine enclosure and fluorescent work light
- Full protection guarding of all moving items on the machine
- All electrical devices comply with CE

Options

- Through spindle air coolant
- Coolant system with through-flow filtration 7 MPa JV40 variable (4 levels), 5
- Automatic tool changer with capacity of 76, 96 or 246 tools
- ✓ Workpiece dimension checking probe
- ✓ Tool dimension checking probe Work
- Manual wash-off
- Machine 5-axis version
- Rotary table with torque motor
- ✓ Supply of hydraulics into pallet
- Additional wash out system
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- Rapid oil skimmer
- ✓ Lubricating air mist system AccuLube Minibooster
- Spin window Visiport
- ✓ Interface for remote diagnostic service
- Flood coolant system
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