

AUTOMOTIVE MILLING

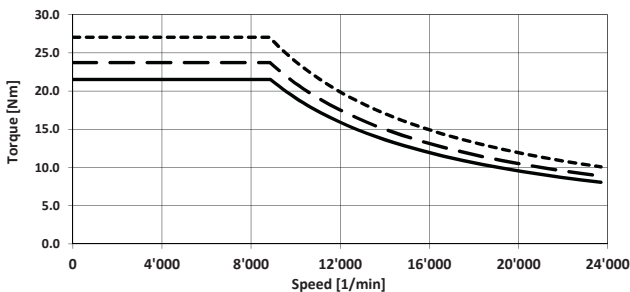
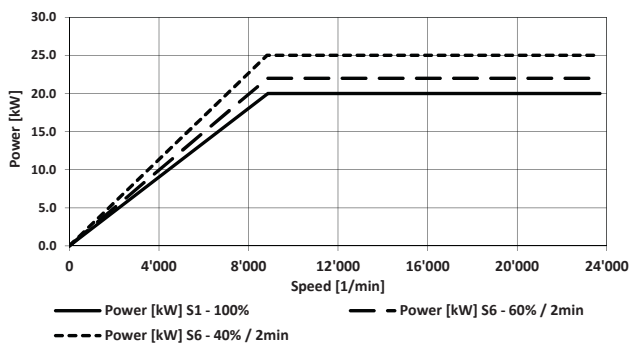
> 3 M TOOLCHANGES

We proudly introduce our latest advancement — a state-of-the-art clamping system seamlessly integrated into our MFW-1709/24 HCC HSK-A63 and MFW-2206/14 HCC HSK-A63 spindles.

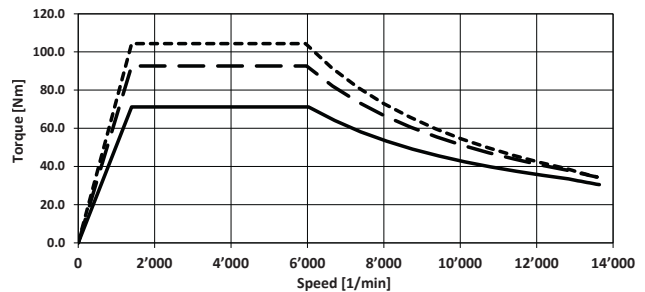
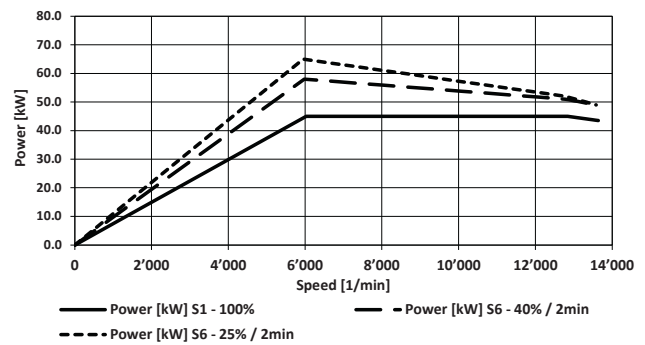
- **Remarkable Tool Change Capacity:** This innovative clamping system is precisely engineered to enable an impressive 3 million tool changes, ensuring a substantial increase in operational efficiency.
- **Asynchronous Motor for Cost Optimization:** Both spindles are thoughtfully equipped with high-performance asynchronous motors, strategically chosen to optimize peripheral costs while maintaining peak efficiency.
- **FISCHER Direct Lubrication System (DLS):** To ensure exceptional robustness and an extended spindle lifespan, we have incorporated the FISCHER direct lubrication system for the spindle bearings.
- **Versatile Rotary Union:** The integration of a versatile rotary union in both spindles allows seamless compatibility with air, MQL (Minimal Quantity Lubrication), and process water, even at the spindle's maximum RPM.



MFW-1709/24 HCC HSK-A63



MFW-2206/14 HCC HSK-A63



AEROSPACE MILLING

140 KW S1 WITH HSK-A63/80

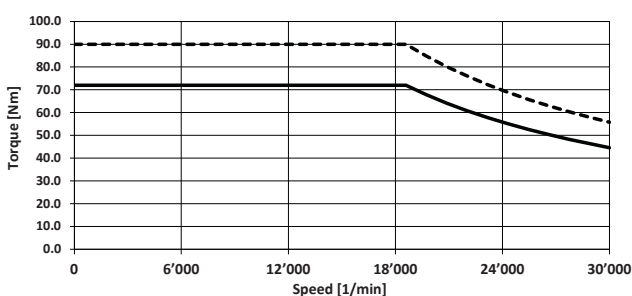
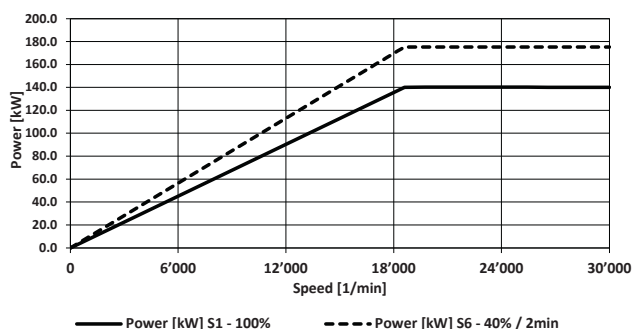
At FISCHER, innovation is at the heart of what we do, and these new developments are no exception. These advancements represent a significant improvement in spindle and milling head technology. At FISCHER, we remain committed to providing you with the highest-quality solutions to meet your machining needs.

SPINDLE KEY FEATURE

- **Spindle Redesign:** We have completely overhauled our spindle design, bringing you a cutting-edge solution to redefine industry standards.
- **FISCHER Motor:** Our spindles now feature the state-of-the-art FISCHER motor, allowing us to achieve a smaller diameter while maintaining exceptional performance.
- **Enhanced Bearings:** We've incorporated new materials into our spindle bearings, offering improved durability and the ability to handle greater radial and axial loads.
- **Optimized Cooling:** Our spindles now comes with optimized cooling systems, ensuring more efficient heat dissipation.
- **Vibration Sensors:** For enhanced monitoring, we offer up to four vibration sensors, enabling you to keep a close eye on spindle performance.
- **Rotary Union without Bearings:** Our innovative design eliminates the need for rotary union bearings, simplifying maintenance and improving reliability.



MFW-2119/30 HSK-A63/80



MILLING HEAD D21STD KEY FEATURE:

- **Single Fork Structure:** The D21STD milling head features a single fork structure, enhancing stiffness and damping for more precise machining.
- **Symmetric Design:** Its symmetric design ensures balanced performance and consistent results.
- **Torque Motors:** We've integrated torque motors on both the C- and A-Axis, delivering increased power and control.
- **Hydraulic Clamping:** C- and A-Axis clamping is now hydraulically assisted, improving durability of the system. A-Axis clamping is available on both sides of the milling head.
- **Optical Measuring System:** The Heidenhain ECA 4400 optical measuring system is included for accurate position feedback and enhanced machining precision.