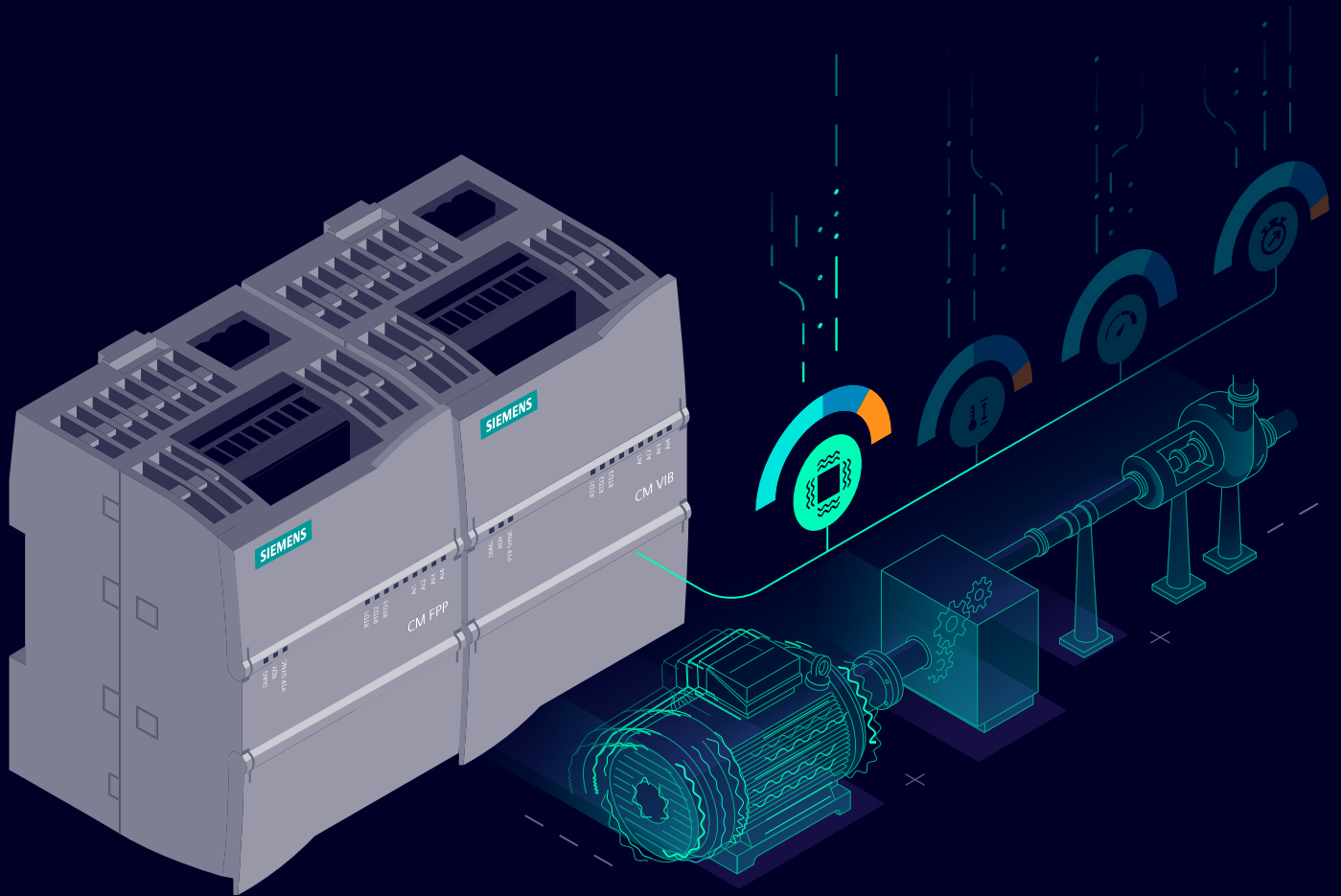


SIEMENS



CONNECTION MODULES VIB AND FPP

Collecting data from the fastest, most complex applications

siemens.com/cm-vib-fpp

Independent modules to obtain data from your most demanding applications



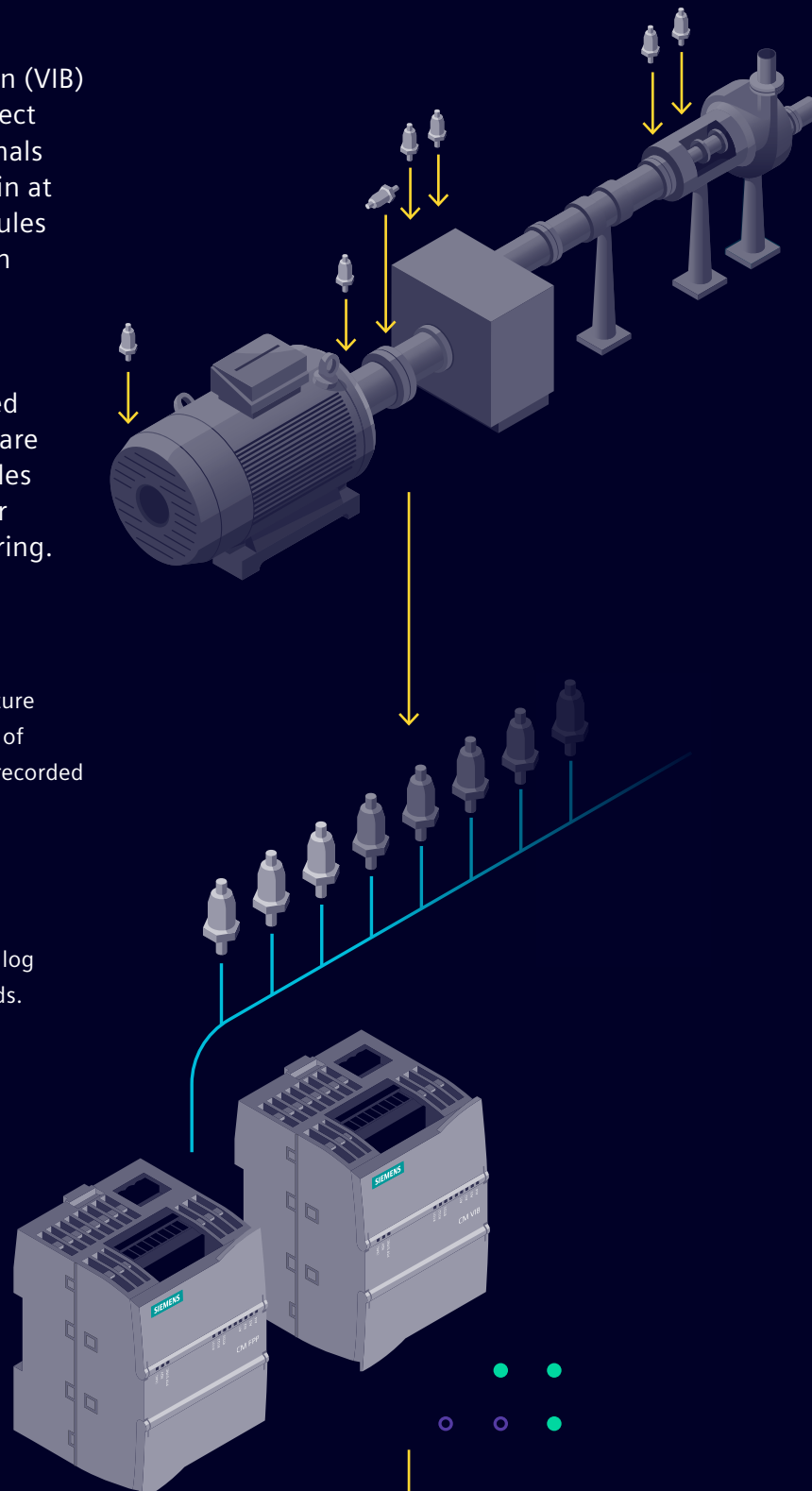
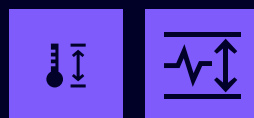
Siemens Connection Modules Vibration (VIB) and Fast Process Parameters (FPP) collect and transmit vibration and analog signals from sensors along the entire drivetrain at a sampling rate of 96 kHz. These modules operate independently of PLCs and can function as stand-alone devices or in collaboration with up to 16 devices, providing synchronized sensor data recording and transmission. When used with Drivetrain Analyzer X-Tools software and corresponding sensors, the modules offer an efficient PC-based solution for advanced drivetrain condition monitoring.

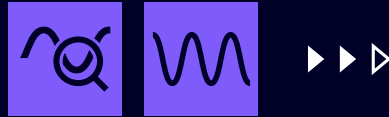
CM VIB (Vibration)

CM VIB can acquire the vibration and temperature data needed for condition monitoring analysis of your drivetrain. All sensor information can be recorded and transmitted synchronously.

CM FPP (Fast Process Parameter)

CM FPP is the perfect tool for more complex application with more parameters and fast analog inputs such as torque, temperature, ultrasounds.





96 kHz sampling rate:

With such a high sampling rate, more samples are taken in the same amount of time. This allows you to analyze very fast processes with high temporal resolution.

PTP Precision Time Protocol:

Get accurate, time-synchronized data between all modules and sensors to analyze the most complex multi-axis applications.

24 bits resolution:

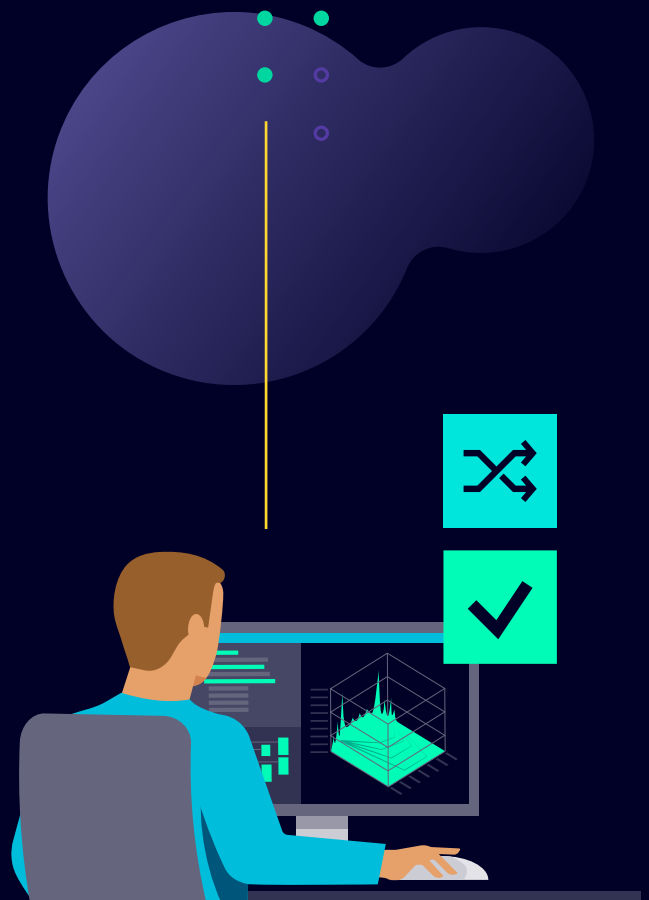
Enhance data precision with higher bit digitalization, ensuring accuracy and detailed sample representation.

PC-based solution:

Analyze high-frequency signals in close proximity to their source using a PLC-independent on-site system.

Drivetrain Analyzer X-Tools:

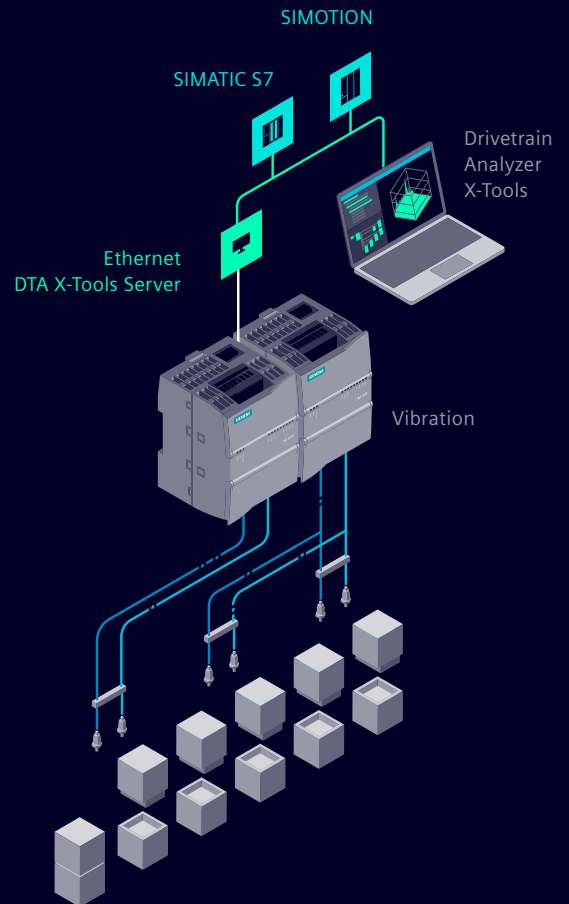
Utilize our specialized software tool to analyze, visualize and archive collected data in real time – and to visually pinpoint the root cause of failures with high precision.



Typical application examples

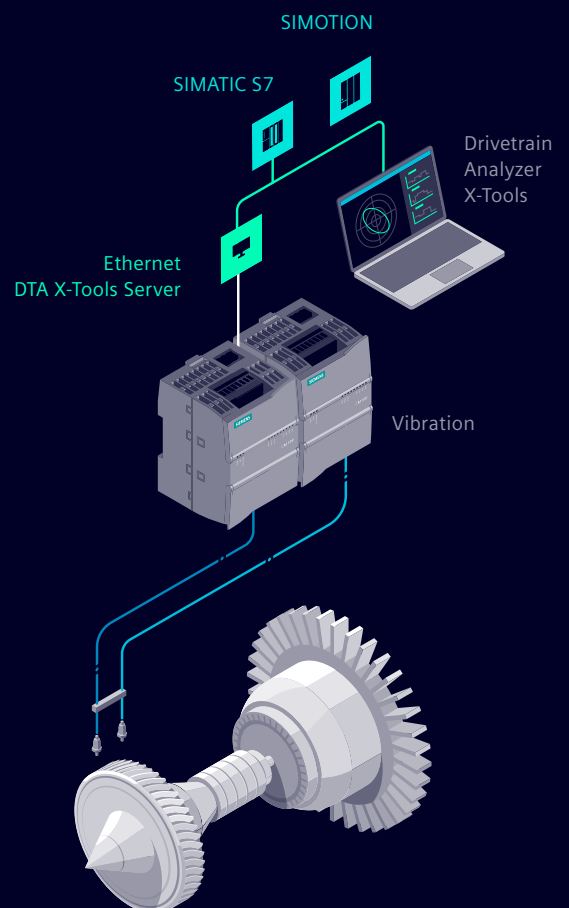
Condition monitoring of a press line

How about a proactive approach to identifying imminent damage in your automotive production press line early on, optimizing maintenance, and preventing unexpected downtime? Gathering sensor data from your presses with Connection Modules VIB and FPP and transmitting it to Drivetrain Analyzer X-Tools for thorough analysis, enhances your operational efficiency. Monitoring press force and other critical parameters with this comprehensive data collection, visualization, and analysis process facilitates rapid condition monitoring within your production cycle, empowering you to implement preemptive measures against unplanned downtime.



Sleeve bearing monitoring in a gas turbine

How can you effectively assess the movement of rotation shafts inside sleeve bearings of critical assets such as gas turbines to minimize or avoid disruptive issues like vibrations? The answer lies in orbit analysis for rotor movements. Our Drivetrain Analyzer X-Tools software features an analyzing block for precise data processing. Coupled with our Connection Modules VIB and FPP, you gain insights in real-time. With this comprehensive solution, you can accurately analyze restrictions and vibrations, enabling proactive measures to ensure the optimal functioning of your critical equipment and significantly reduce the risk of costly downtime.



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