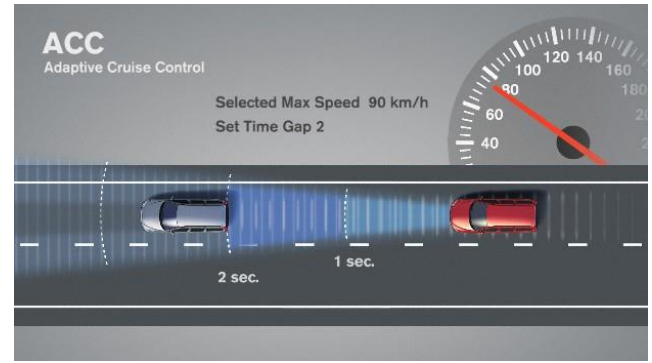


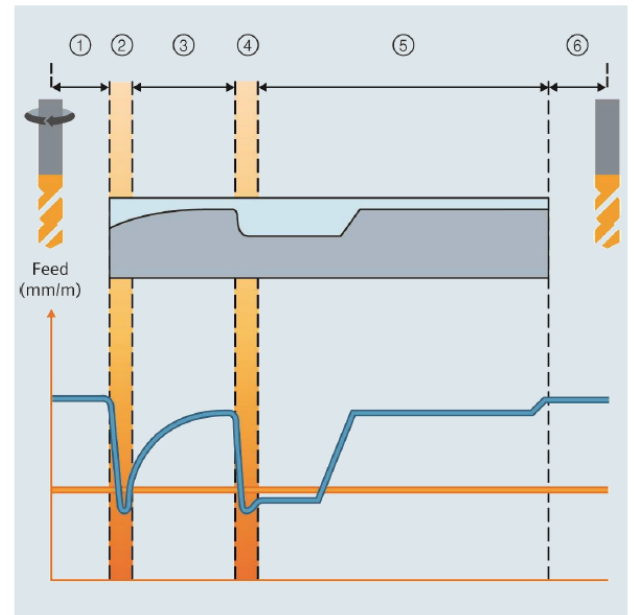
# Imagine having Adaptive Cruise Control for your CNC machines!



Adaptive Cruise Control in a vehicle is a system that monitors the vehicle ahead of it to maintain a steady distance. The system is constantly monitoring speed and distance and will automatically apply the throttle or brakes as required. If the vehicle in front decreases speed down so does your vehicle. If the vehicle in front increases speed so does your vehicle. Now your CNC machine can dynamically adjust feed rate too!



Adaptive Control and Monitoring (ACM) in a CNC machine continuously tracks dynamic changes in cutting conditions and automatically adjusts the feed rate to the optimum value in real time. ACM increases feed rate in underload conditions to shorten cycle time. ACM reduces feed rate when overload is detected to prevent tool breakage. ACM system for production optimization gives CNC machines “the ability to feel” by dynamically adapting the feed rate! ACM can be used on milling, turning, drilling, grinding and more. If overload is detected, ACM reduces the feed rate and can trigger an alert to stop the machine. In addition, tool breakage can be detected to prevent consequential damage to the machine, the tooling, as well as the workpiece! This real-time approach boosts productivity, extends machine and tool life, and ensures a stable production process.



— programmed (constant) feed  
— adaptive feed control



Reduced cycle time by controlling feed dynamically



Increase feed rate by continuously monitoring spindle load



Mitigate risk to machine, tooling, and workpiece by stopping motion before damage



Increased lifetime of machine tool, spindle, and cutting tools. Decrease downtime due to broken tooling and damaged machines.



Adaptive Control and Monitoring unquestionably pays for itself in 3 to 6 months depending on the predictable factors of hours of operation and machine availability.

Installation is 1 to 2 days depending on the control.

It can be installed on any brand of CNC machine control.