The Motor Control Application Tuning (MCAT) Tool is a HTML-based user-friendly graphical plug-in tool for Our FreeMASTER. This tool is intended for the development of PMSM (BLDC) FOC and ACIM control applications, real-time control structure parameter tuning, and will aid motor control users in adapting NXP® MC solutions to their motors without a detailed knowledge of PI controller constant calculations.

The MCAT Tool may support different features and have different look depending on domain (automotive, industry).

The industry domain examples are described on [MCUXpresso SDK Motor Control](#) page.

The tool is not provided as a standalone application, but it is a FreeMASTER plug-in component of featured reference designs and application codes.
Motor Control Application Tuning Block Diagram

Automotive General Block Diagram Block Diagram

View additional information for Motor Control Application Tuning (MCAT) Tool.