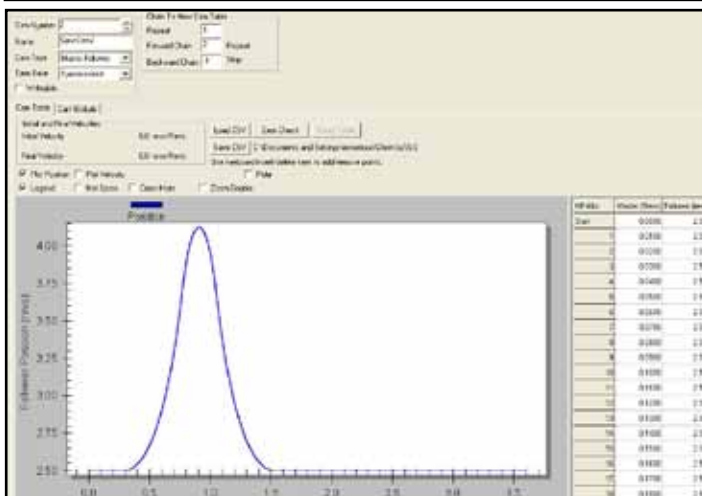
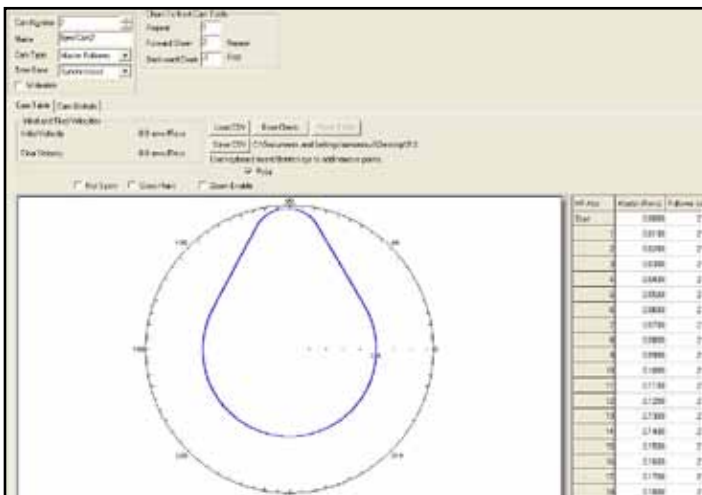


PowerTools Pro 5.0 Released – Catch the Wave

With new PowerTools Pro version 5.0 **“Motion Made Easy”** can take your application to the next level of machine control.

This major release contains all the features on our customer’s wish lists, while maintaining PowerTools Pro’s ease of use. Here’s an overview of what’s new. Full release notes are shipped with the software and available online.



PowerTools Pro gives users multiple ways to easily create complex motion profiles. Here are two views of the same camming application showing Polar and Cartesian plots.

Camming – A new type of motion profile has been added which allows users to create custom move profiles which cannot be achieved using traditional indexes. Users define master/follower position relationships and take advantage of several interpolation types to make the profile as smooth as possible. Select from several different cam types and synchronize the cam to real-time or a master encoder (real or virtual). Create multiple cams and chain them together to accomplish highly complex motion profiles while taking advantage of easy-to-use configuration screens in PowerTools Pro.

Virtual Master– Generate a simulated encoder pulse train that can be used as a master signal for any type of follower motion. Use the built-in commands to generate virtual master motion just as you would a jog or index on a real motor axis. Follow the virtual master within the same axis, or send the virtual master signal out to a downstream drive for synchronization. Virtual master used along with camming allows two stand alone drives to perform circular interpolated motion!

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Modbus Master – This feature introduces the ability for the EP-P or FM4E drive to read/write data from/to another any other Modbus slave device(s) via Modbus-RTU (over RS485) or Modbus TCP (over Ethernet) networks. The Modbus Master drive can communicate with up to 32 slave devices. Modbus/TCP allows for multiple masters thereby allowing for drive-to-drive communications.

Timers – New Timer control objects have been added to provide a simple and accurate way to trigger an action (motion start, digital output, etc.) a specified time after any internal or external event. The Timers run independently of user programs and therefore are extremely repeatable and simple to configure. Select from up to eight different Timer types (i.e. Edge ON, Edge OFF, Level ON, Level OFF, Watchdog, and more) to match your application.

Realtime Programs – A new program type called Realtime Program has been added allowing users to perform certain critical program operations on a highly repeatable timeframe. The Realtime Program is processed every control loop update. The Realtime Program runs prior to processing normal User Program, thereby guaranteeing a certain section of code had been completed in preparation for the operations in the User Program.

Cyclic Programs – An additional new program type called Cyclic Program has been added which allows the user to run a separate program at a predefined timing interval. This can be used to control lower or mid-priority tasks depending on the user defined update interval and utilization percentage.

Many other features have also been added, see the release notes online, or that come with the software, for full details.

Catch the wave,

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