

Quick Start with the HDM Software

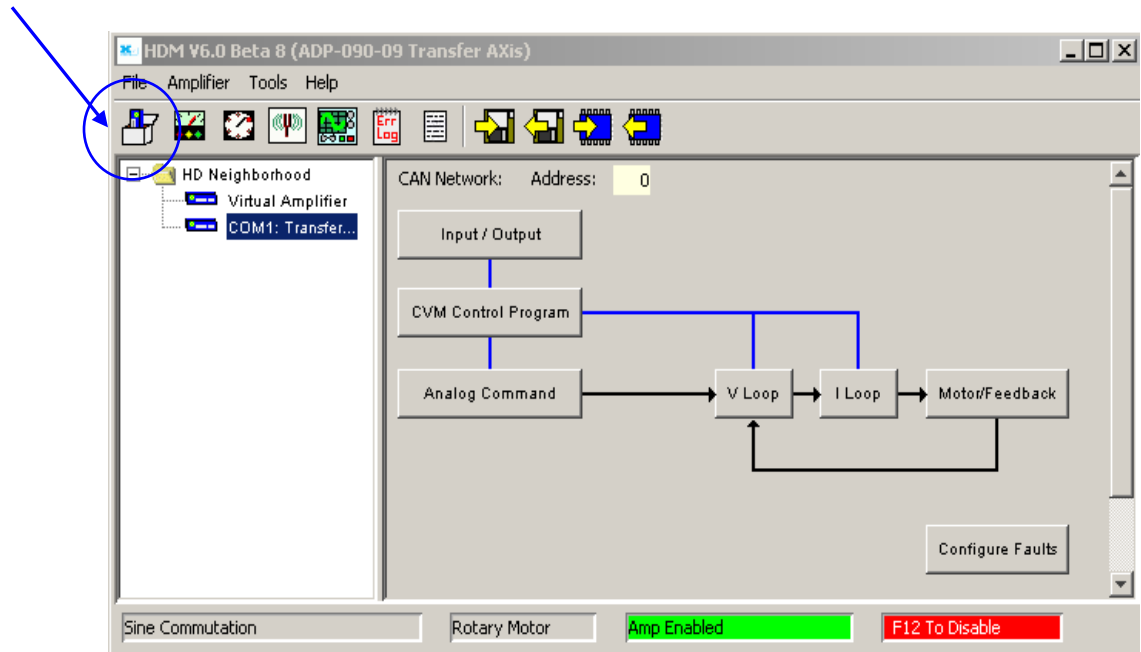


STEP 1

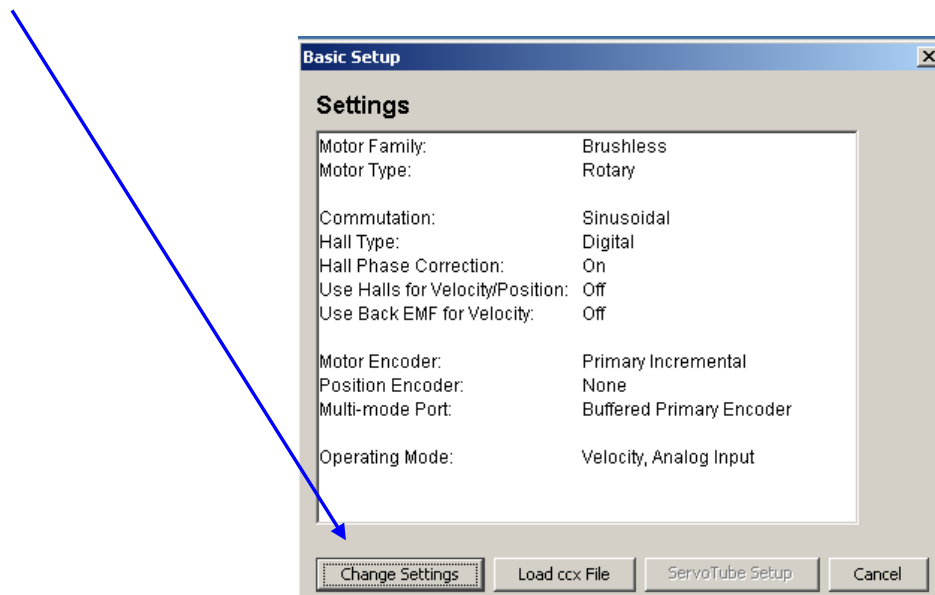
Basic Setup

To configure the amplifier for initial application and general motor type:

Click the **Basic Setup** button



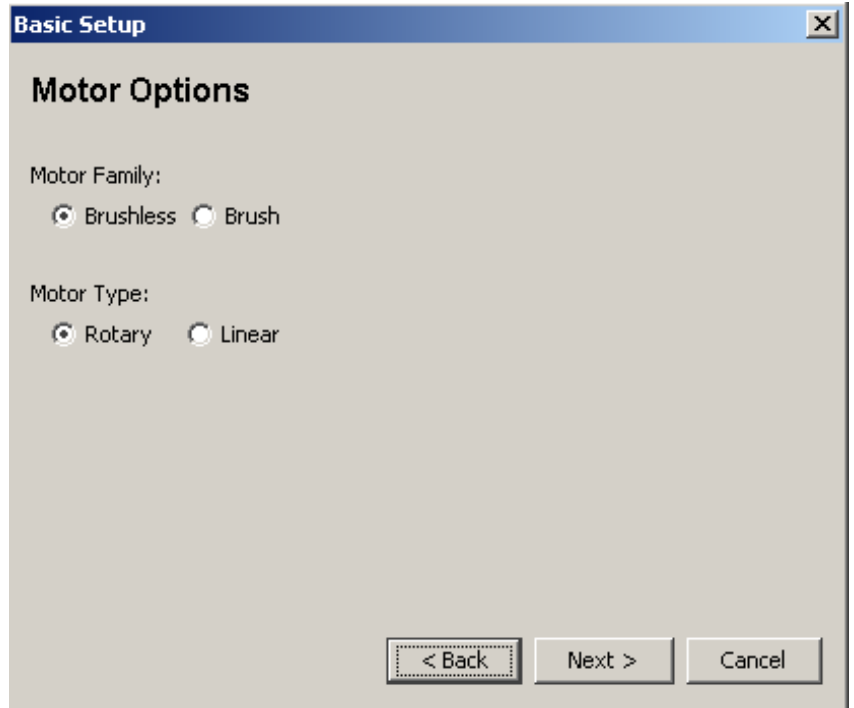
On the Basic Setup screen, click **Change Settings** to start the Basic Setup wizard. Use the Back and Next buttons to navigate the screens. Screen details vary depending on amplifier model and mode selection.



Select Motor and Feedback options

Motor Family = Brushless
For RSF, SHA and FHA

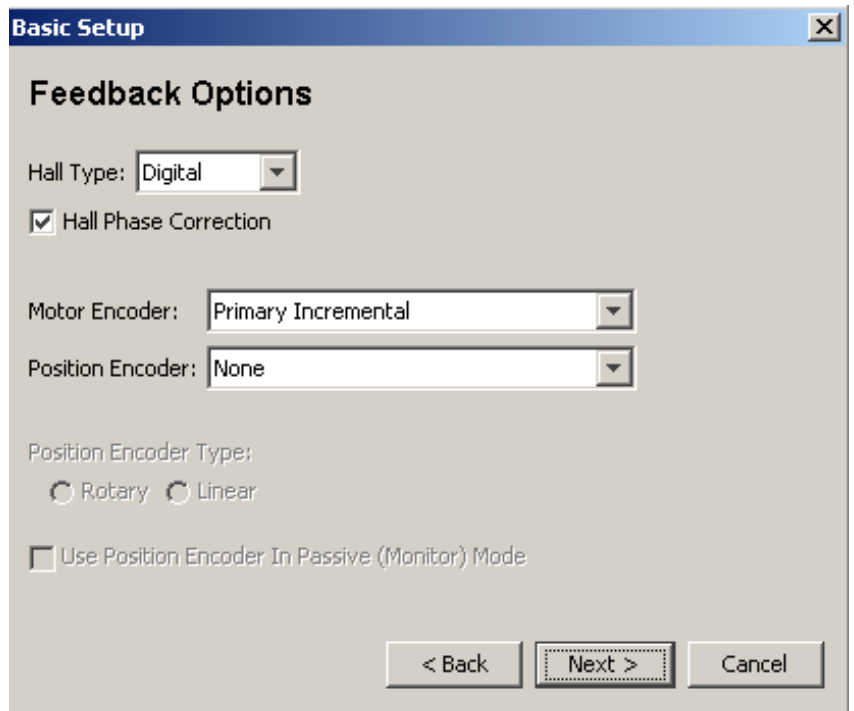
Motor Type = Rotary
For RSF, SHA and FHA



Hall type = Digital
For standard incremental encoder with halls

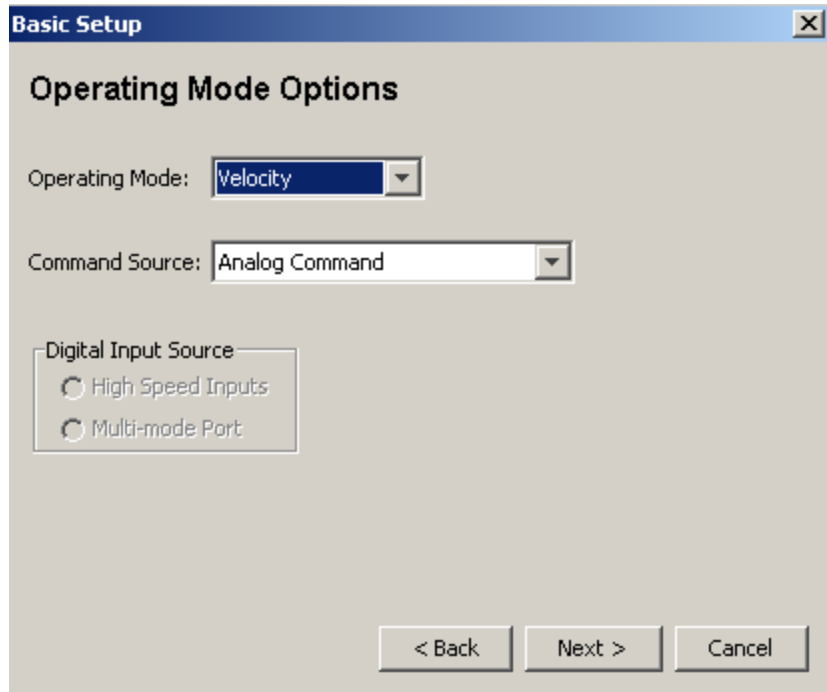
Motor Encoder = Primary Incremental
Or select the appropriate feedback device

Position Encoder = None
This is typically used for dual-loop feedback systems



STEP 1 *Basic setup continued*

Select the appropriate operating mode for the application.



Select additional options

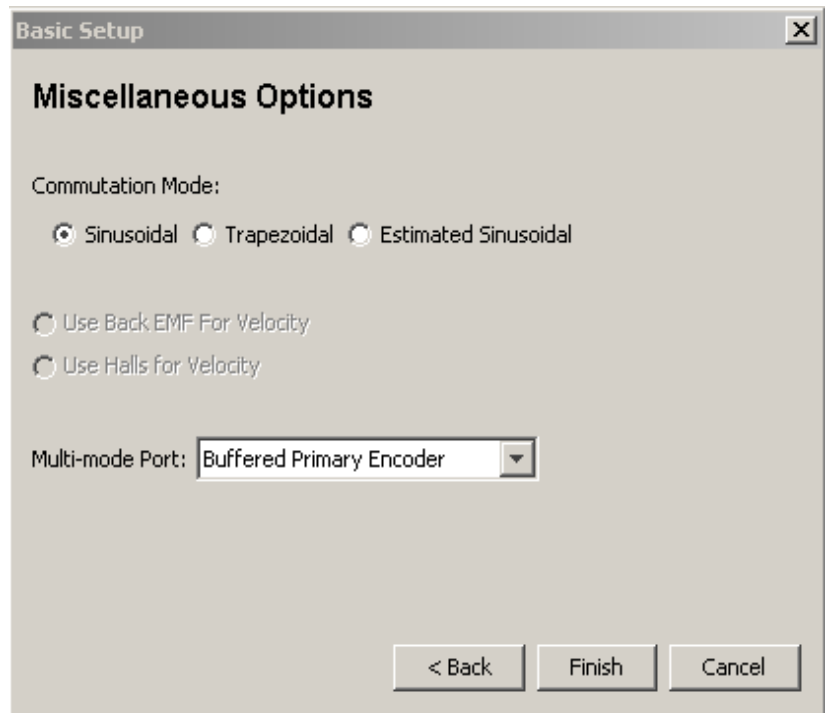
Commutation mode = Sinusoidal

Multi-mode port

= **Buffered Primary Encoder**
(for sending encoder signal out to another device)

= **Differential Input**
(for master encoder input signal, Step & direction input, etc)

Click *Finish*



STEP 2

To configure the amplifier for the specific motor/feedback:

Please utilize the pre-engineered motor file designed specifically for the actuator and servo drive.

To load the Actuator(motor) file from the HDM software:



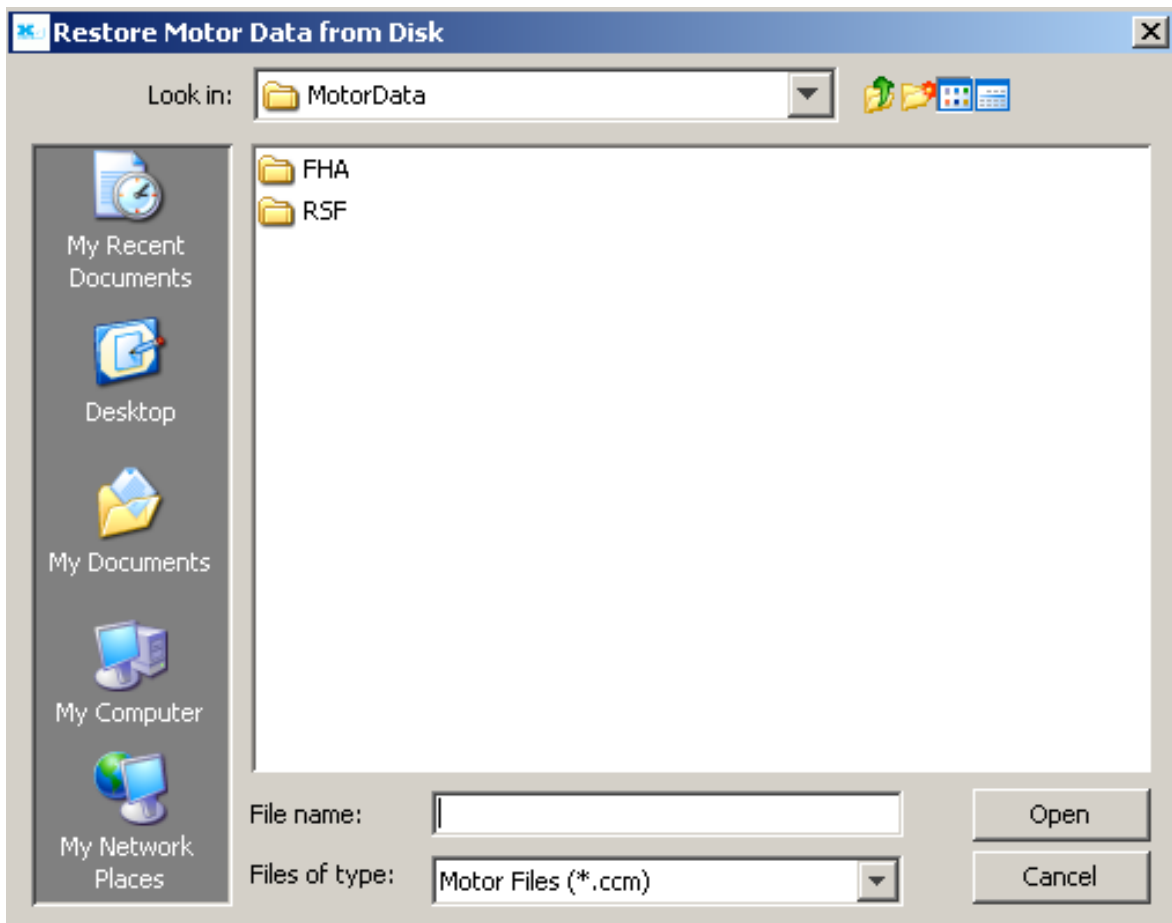
1. Click ***Motor/Feedback*** to open the Motor/Feedback screen.

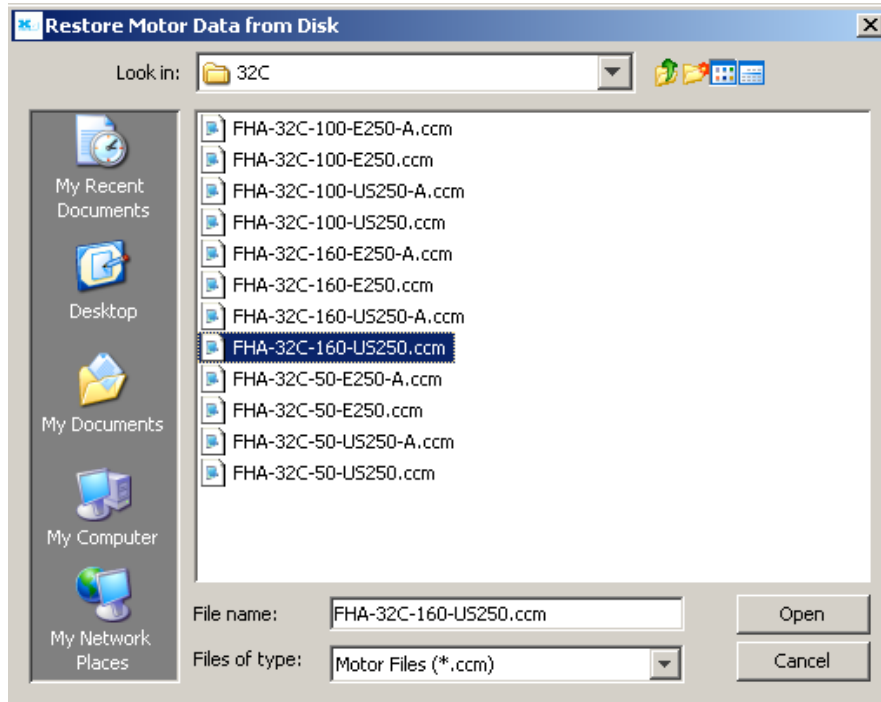
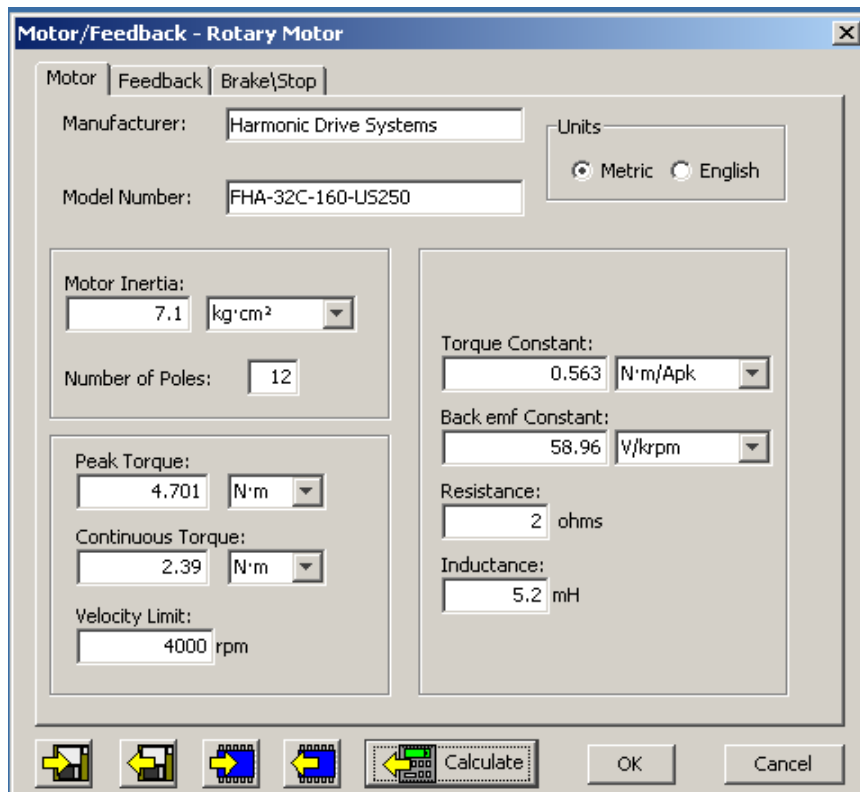


2. Click ***Restore Motor Data from Disk***, on the Motor/Feedback screen

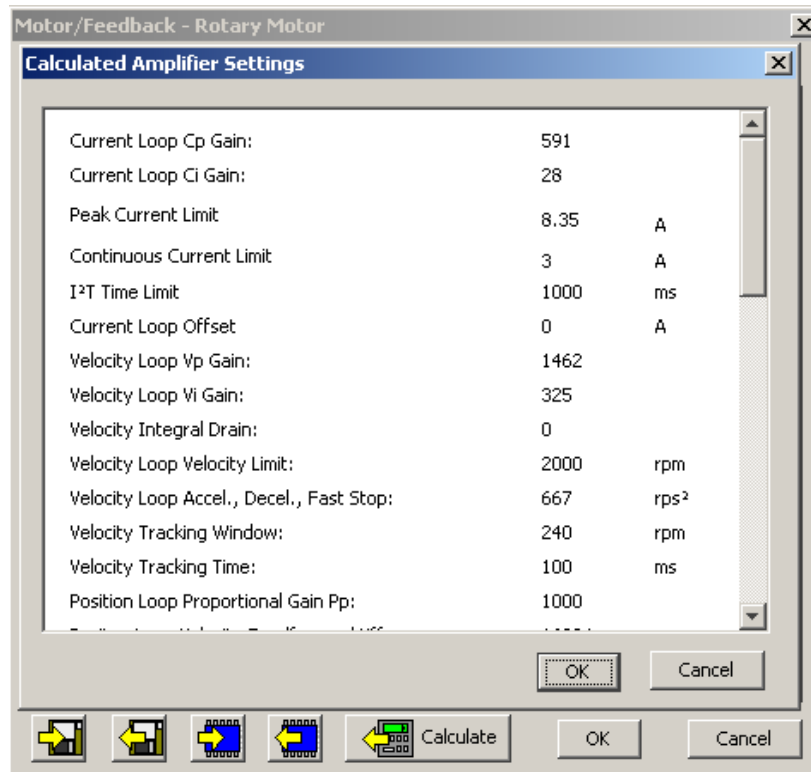
The default installation folder is

C:\ Program files\ Harmonic Drive\ HDM \ Motor Data



3. Select the appropriate file and click **Open**4. Click *Calculate*

The *Calculate function* uses the motor and encoder values entered to calculate the initial loop gains and limits. These can be modified later to fine-tune the amplifier.



5. Click **OK** to load the values into volatile memory.



6. On the main screen, click *Save to flash* to save the amplifier data too.

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