

Calibration Curve Types in Harmony, ColorFlow and Prinergy

Curve Types in Harmony

Harmony defines three curve types that identify the medium being calibrated:

- **Plate Curves**, for calibrating halftone tints on the printing plate
- **Film Curves**, for calibrating halftone film
- **Paper Curves**, for calibrating press tonal response

These types apply to derived calibration curves and the current and target curves from which they are derived. Transfer calibration curves do not have such a type.

Curve Types in ColorFlow

ColorFlow defines two curve types:

- **Plate Curves**, for calibrating halftone tints on the printing plate
- **Print curves**, for calibrating press tonal or gray balance response

ColorFlow Curve Selection in Prinergy

In the **Calibration and Screening** panel of Prinergy and Evo output process templates, **Curve Source: Harmony** specifies to select curves from the Harmony database. The **Print Curve** and **Plate Curve** lists each contain *all* Harmony calibration curves: plate, film and print derived calibration curves, as well as transfer calibration curves. The calibration curve type is ignored.

Selecting **Curve Source: ColorFlow Current State** causes curves to be selected from the ColorFlow data base. Selection of print and plate curves is restricted:

- The **Print Curve** list shows only ColorFlow **Print Curves**
- The **Plate Curve** list shows only ColorFlow **Plate Curves**

If arbitrary Harmony curve types are used, the difference in curve selection may cause some confusion when you migrate Harmony curves to ColorFlow. To maintain curve usage through the migration, any type of Harmony calibration curve may have to be imported into ColorFlow **Print Curves** in order to be selectable in Prinergy's **Print Curve** list. The same goes for **Plate Curves**. This is discussed below.

Importing Harmony Curves into ColorFlow

When you open a Harmony database import into ColorFlow **Print Curves**, the table of selectable Harmony curves normally shows only Harmony **print** calibration curves. If the curve you're looking for doesn't appear in the table, it may be a Harmony plate or film calibration curve. To see all the calibration curves in the Harmony database, select **Show Plate and Film Calibration Curves**. See [Importing a Harmony print calibration curve](#).

Similarly, when you open a Harmony database import into ColorFlow **Plate Curves**, the table of selectable Harmony curves normally shows only Harmony **plate** calibration curves. If the curve you're looking for doesn't appear in the table, it may be a Harmony print or film calibration curve. To see all the calibration curves in the Harmony database, select **Show Paper and Film Calibration Curves**. See [Importing a Harmony plate calibration curve](#).

Showing Imported Harmony Curves in ColorFlow

When you import Harmony calibration curves into ColorFlow, all imported curves are stored in a *shared* **Harmony Curves** pool. You can see these curves in the **Harmony Curves** tables of Colorflow's **Print Curves** and **Plate Curves** tabs:

- The **Print Curves** tab normally shows only imported Harmony **Paper Curves**. To see all curve types in the **Print Curves** tab, select **Show Plate and Film Calibration Curves** in the **Harmony Curves** panel.
- The **Plate Curves** tab normally shows only imported Harmony **Plate Curves**. To see all curve types in the **Plate Curves** tab, select **Show Paper and Film Calibration Curves** in the **Harmony Curves** panel.

Showing Imported Harmony Curves for Selection in Prinergy

You can also control the visibility of any type of what imported Harmony curves appear in the **Print Curve** and **Plate Curve** list controls of the **Calibration and Screening** panel of Prinergy output process templates. In order to support the Prinergy behavior of Harmony curve selection when process template are migrated to ColorFlow curve, any type of Harmony curve can be selected to appear in each of the list controls:

- To show a curve in Prinergy's **Print Curve** selection list, select **Show in Prinergy Print Curves** in the **Print Curves** tab. See [Importing a Harmony print calibration curve](#).
- To show a curve in Prinergy's **Plate Curve** selection list, select **Show in Prinergy Plate Curves** in the **Plate Curves** tab. See [Importing a Harmony plate calibration curve](#).