

Dynamic Tolerance Control vs. Hell CellEye with SprintEasy vs. Ohio's Volume Test Cut

	DTC	CellEye	Ohio Volume Test Cut
Applicable on	All Hell Helioklischograph Engravers using TIFF (including K5, K500, TUK) All Ohio engravers using OCT or TIFF All MDC Daetwyler engravers incl. DTG All DMA engravers	Hell K5 smart and K500.	Ohio Spectrum and Prism Prime
Configuration	One DTC Server per site with a DTC client for each engraving machine	One per engraving machine and one SprintEasy per site	Per engraving machine
Functionality	Test Cut is analysed, profiles of the engraving machine and engrave head and stylus are evaluated	Cell Volume compensated test cut	Cell Volume compensated test cut
Operating	One or multiple iPad(s)	Automatically during test cuts	Automatically during test cuts
Sequence of actions	Test Cut > Enter info on the iPad > Copy data to the engraver > Production engraving	Copy data to the engraver > Test Cuts > Production engraving	Copy data to the engraver > Test Cuts > Production engraving
Technical process	Optimizes the the density of the pixel data that goes to the engrave head, compensating all process tolerances	Changes the anchor points in the engraving amplifier, compensating for tolerances in the volume of the test cut cells	Changes the anchor points in the engraving amplifier, compensating for tolerances in the volume of the test cut cells
Anchor points	Highlight, Quarter-tone, Mid-tone, Three-quarter-tone and Shadow (5) anchor points	Highlight, Mid tone and Shadow (3) anchor points.	Highlight, Mid tone and Shadow (3) anchor points.
Includes Amplifier Linearity Tolerance compensation	Yes	No	No
Includes Stylus Angle compensation	Yes. Calculated Stylus Angle increase over 'engraved hours' with an override for measured angle (with SprintEasy, AniCAM or otherwise)	Yes. With SprintEasy (offline) also on TUK	Yes
Includes Stylus Chip compensation	Yes, with Cell Quality Rating	No	No

	DTC	CellEye	Ohio Volume Test Cut
Includes Copper Quality compensation	Yes, with Cell Quality Rating and copper engravability with the use of an optional SigmaScope.	Yes, as part of the cell volume measurement	Yes, as part of the cell volume measurement
Includes Test Cut deviation compensation	Yes, usually one or two Test Cuts needed	No, carries on making Test Cuts until the Test Cut cells are within tolerance.	No, carries on making Test Cuts until the Test Cut cells are within tolerance.
Includes Measuring Device Tolerance compensation	Yes	No	No
Includes Job logging and tracking in a database	Yes, all relevant cylinder- and job-data is stored in a database.	A cylinder health report can be printed.	A cylinder birth certificate can be printed
Remote access of the database	Yes	No	Yes
Equalizing engravers	Yes, even engraving machines from different manufacturers can be profiled to produce cylinders that print the same	No	No
Cell measuring	Uses the classic method of cell width and channel or cell length. This methode has proven itself to be very stable and reliable.	Uses complex methodes to measure and calculate cell volume. This results in occasional miscalculations	Uses complex methodes to measure and calculate cell volume. This results in occasional miscalculations