

## FeneVision Release Notes

### OPTI Version: 07.00

#### Ability to configure how long Opti-Temp patterns should remain at unload

27884

Users may now control how long patterns stay queued at the Opti-Temp exit station. Previously hard-coded to one hour, the Opti-Temp machine settings now allows the user to change how long a pattern stays in the exit queue for each tempering machine individually.

#### Ability to use an auto-load recovery screen in Opti-Break

28448

Users may now use an auto-load recovery screen in Opti-Break in order to have more fine control over what actions are taken when pressing auto load patterns, particularly when recovering from a bad state.

#### Additional Release Notes:

- Ability to synchronize online store with Bottero STS store 28287
- Ability to generate labels with machine files for Hegla Interface 27997
- Ability for newly added stock sheets during Quote Optimization to be suffixed with a running number instead of defaulting to an existing part number 20640
- Ability to use new Elliptical Arch Top and Extended Elliptical Arch Top shapes (numbers 263, 264, 265 and 266) in shape library 27908

### OPTI Version: 07.00 SP 01

#### Additional Release Notes:

- Ability to specify the location of "LisecRecipeByStock.cfg" at Opti-Break for the Lisec Interface 34922
- Resolved issue where Optima interface treated stock with coating set to 'Up' as 'Up and Delete' 31068
- Ability to see the earliest plan date for each glass type on the Part tab when creating a release 31925
- Ability to specify the center of the lite for labels in the Bottero Cut Table Bridge Printer interface 32428
- Speed improvements screens that pull inventory Quantities such as the Optimization tab 33014

### OPTI Version: 07.01

#### Ability to view BOM exceptions during quote optimization

28630

Users are now able to view BOM exceptions during Quote Optimization in Opti-Glass to ensure a smooth transition from Quote to Order in FeneVision Core.

#### Ability to sync translations and culture info from FeneVision Core

29280

Users may now transfer translation information from Core into Opti via the Import Transfer Data screen. This will allow users to see Part Descriptions, Reject Reason Descriptions, Reject Group Descriptions, and Edgework Descriptions in the user's chosen language.

#### Ability to use Carlson Design Lami Interlayer Cutting Machine Interface

28625

Opti-Glass now interfaces with the Carlson Design Lami Interlayer Cutting Machine. Users may add the Carlson interface to an interlayer machine in Opti-Glass to improve yield and automatically deduct inventory for the machine.

#### Ability to set long side down for tempering optimizations

26812

Users may now set tempering machines to user long side down for tempering optimizations to ensure all lites are being tempered in a uniform manner to increase quality.

#### Ability to use Opti-Sort for sorting an IG line into both buffer and harp racks

26966

FeneVision's Opti-Sort system is now able to support the sorting of an IG line into both buffer racks and harp racks.

#### Ability to manually adjust pattern sequence in Batch Mode through Opti-Glass or Opti-Break

29132

Users may now adjust the sequence of patterns for a batch mode release in Opti-Glass or Opti-Break in order to arrange patterns in specific lite or stock size desired order.

#### Additional Release Notes:

- Ability to view Rack locks in Lock Objects screen 27735
- Ability to use Like search in Orders screen of Opti-Glass 28626
- Ability to use Hegla shape edge deletion for corner decoating 27236
- Ability to have Opti-Break automatically highlight and accept lites on patterns when using Opti-Sort 26961
- Ability to manually add lites in Opti-Temp 29277
- Ability to set the orientation of a lite for tempering via attribute 28850
- Ability to view Warehouse Racks Report via Opti-Load Inventory 26700

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- Ability for divider checkbox to be auto-checked when adding new packs in Opti-Load Inventory 26951
- Ability to connect Opti-Load and Opti-Sort Server 26949
- Ability to use buffer system in Opti-Sort input screen 26965
- Ability for Opti-Sort to support buffer system sorting logic 26964
- Ability to use Hegla SortJet 2.3 sorting interface with Opti-Sort 26963

### OPTI Version: 07.01 SP 02

#### Additional Release Notes:

- Ability to decoat around drills and internal cutouts in Lisec cutting table 31784
- Ability for Opti-Break to use the Lot Number that was specified in Opti-Load Inventory 31832
- Resolved issue where some online interfaces (with no machine feedback like CMS) fail to read files for consecutive identical patterns 31049
- Resolved issue where Edge Deletion on Arcs for Mirrored shapes can be incorrect for Lisec Interface 31659
- Resolved issue with Edge Deletion Arc at Intersection of arcs in the Lisec Interface 31775
- Resolved issue where Edge Deletion on Large Arcs can be incorrect for Lisec Interface 31776
- Resolved issue with Edge Deletion on the elbow of Shape 504 Elbow for Lisec Interface 31777
- Resolved issue where Edge Deletion on sharp corners can extend outside the shape for the Lisec Interface 31956
- Resolved issue where Edge Deletion for Nested Shapes can be outside of shape for Lisec interface 32121
- Resolved issue where the next pattern button can skip patterns, if a Batch Mode release is run out of sequence 30682
- Resolved issue with Shape 81 is not scoring properly on the cutting table when using Intermac interface 31599

### OPTI Version: 07.01 SP 04

#### Additional Release Notes:

- Updated Tuomas Cutting Table interface to V4 32633

### OPTI Version: 07.02

#### Additional Release Notes:

- Hide Customer Supplied Glass from the Quote Optimizer 29703
- Ability for Opti Load Inventory to automatically move the protection sheet when loading a case of glass 28546
- Ability for Optima machines to run in Online Mode 29621
- (Optional) Ability for Opti-Sort to insert the Ordered Part into the station queue for subsequent tracking stations instead of the Glass Part 29839
- Ability for BillCoBossXYZ machines to use Online Store 29913
- Resolved issue where the next pattern button can skip patterns, if a Batch Mode release is run out of sequence 30690

### OPTI Version: 07.03

#### **Ability for Opti Load to generate more than one file at a time when running a Dynamic release in Opti Break 32759**

Uses the existing settings that control how many dynamic patterns Opti Break will generate so that the two are always matching.

#### **Ability to see Expiration Date per Lot Number 31235**

In FeneVision version 16.0 the ability to specify an expiration date for a Lot was added. This feature allows Opti users to see the expiration dates when selecting a Lot.

#### **Ability to use an Opti Temp mid station between the entrance and exit stations 31306**

This is designed for layouts where one operator loads lites to be tempered on a conveyor, then another operator takes them from the conveyor and loads them into the tempering oven. These two operators can run separate Opti Temp stations where the first station feeds patterns to the second.

#### **Ability to control how many patterns a Dynamic Tempering machine will generate at once. 32766**

Previously this was hardcoded to 2 patterns. Now a parameter exists to control dynamic tempering optimizer working patterns similar to how dynamic cutting optimizations works.



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### Ability for Opti to integrate with CAPM

32868

CAPM in CORE controls the sequencing. As schedules are moved up and down in CAPM, Opti sequences the releases to match.

### End of support for SQL 2014 and earlier

33040

FeneVision Opti 7.3 and beyond will only be supported on SQL 2016 and later. This includes the FeneVision Databases being upgraded to 2016 SQL Compatibility Level to take advantage of some Microsoft performance improvements.

### Ability to interact with sub slots of an online store

33055

Some remnant store systems have slots with subslots. Now FeneVision is capable of generating and consuming store for systems like this.

### Additional Release Notes:

- Resolved issue where curved edges with a very small radius can adjust incorrectly if they require an edgework addition 28643
- Ability to interface with a Macotec Cutting table via the PerfectCut interface 31602
- Ability to decoat around drills and internal cutouts in Lisec cutting table 32155
- Ability to generate Line Scanner Batch files from Opti Temp to eliminate the need for a separate Tracking station 32475
- Ability to see the earliest plan date for each glass type on the Part tab when creating a release 30268
- Ability to edit pattern lots and build up a queue of lots to be used on a release from Opti-Glass and Opti-Break to streamline the process of switching the lot during a run 30800
- Resolved issue where 180 degree arcs are passed to the InterMac Cutting interface as one arc when InterMac expects 3 arcs 30824
- Ability for dynamic mode filler rejects to not be treated as remakes if the filler release's run date is in the future (requires ForceFillerCompletionDate GSP to be enabled) 31031
- Resolved issue where Optima interface treated stock with coating set to 'Up' as 'Up and Delete' 31069
- Ability for machine interface CRC calculations to support non-ASCII characters 31090
- Ability for Opti to honor the CORE setting that prevent inventory from going negative 31106
- Ability to specify alternate breakout sequences via Hegla machine interface settings 31123
- Ability to see the Required Date in the Remakes screen in Opti-Glass and Opti-Break 31323
- Ability to prevent unaccepted lites from being accepted on the active pattern when a run is stopped in Opti Temp. 31401
- Updated Tuomas Cutting Table interface to V4 31534
- Resolved issue where Edge Deletion on Arcs for Mirrored shapes can be incorrect for Lisec Interface 31660
- Resolved issue where Shape 81 is not scoring properly on the cutting table when using InterMac interface 31687
- Resolved issue with Edge Deletion Arc at Intersection of arcs in the Lisec Interface 31772
- Resolved issue where Edge Deletion on Large Arcs can be incorrect for Lisec Interface 31773
- Resolved issue with Edge Deletion on the elbow of Shape 504 Elbow for Lisec Interface 31774
- Ability for Opti-Break to use the Lot Number that was specified in Opti-Load Inventory 31831
- Resolved issue where Edge Deletion on sharp corners can extend outside the shape for the Lisec Interface 31954
- Ability to disable "Always accept on pattern advance" setting in dynamic load mode for Opti Temp 32039
- Disabled the ability to run concurrent sessions of the same app (applies to Opti-Break, Opt-Temp, Opti-Sort Client, or Opti-Sort Server) from the a single machine. 32081
- Ability to specify the center of the lite for labels in the Bottero Cut Table Bridge Printer interface 32323
- Ability to block specific racks within a group in OptiLoad Inventory 32470
- Ability to see progress bar when running pattern logs in Opti Glass 32611
- Improved optimization performance in Opti-Glass, particularly when multiple users are optimizing at the same time 32804
- Ability for FeneVision to pass Opti ReleaseID and Pattern number into the Lisec interface file 32959
- Speed improvements screens that pull inventory Quantities such as the Optimization tab. 33015
- Changed 'Preferred Min Y Plate Height' setting to 'Min Y Plate Height' and made it a hard rule 33077
- Ability to set stock sheet trims larger than 152.4 MM (6 inches) 33079
- Ability to enable directional decoating for a Tuomas machine and to center scores within a decoating region to assure proper breakout 33258

**OPTI Version: 07.03 SP 01**

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### Additional Release Notes:

- Ability for interlayer patterns to look the same in Pattern Log screen as they look in View Interlayer Cutting 34719

### OPTI Version: 07.03 SP 02

### Additional Release Notes:

- Resolved issue where an Opti Temp unload station may not show RackIDs in the bottom right corner when in Dynamic mode 35812

### OPTI Version: 08.00

### Ability to maintain customer or site specific Label RDLs 34728

A new database table exists to allow mapping of specific RDLs to Customers/Sites for use when generating labels. This allows labels to be overridden to show different information depending on customer requirements. If not overridden and configured, the standard labels will be used.

### Ability to optimize scrap into smaller pieces on Hegla machines to work with automated lines with size restrictions 34348

Hegla automated breakout lines require that scrap pieces be small enough to break out safely in the cullet machine. This feature allows for the scrap areas to be cut up into smaller pieces that can be handled by the machine.

### Ability (per station) to default all stock and store pieces as unchecked when starting an optimization in Opti Break 32343

This was implemented via a new Opti Break station setting. By default it will continue to work as it always has unless you configure the new setting.

### End of support for SQL 2016 and earlier 33756

FeneVision Opti 8.0 and beyond will only be supported on SQL 2017 and later. This includes the FeneVision Databases being upgraded to 2017 SQL Compatibility Level to take advantage of some Microsoft performance improvements.

### Ability to interface with a Forel Sorting System for cutting tables 33764

This features makes it possible for FeneVision to interface with a Forel Sorting system at cutting tables.

### Ability to interface with a Forel Sorting System for Tempering Machines 33878

This features makes it possible for FeneVision to interface with a Forel Sorting system at tempering ovens.

### Additional Release Notes:

- Ability to specify the location of "LisecRecipeByStock.cfg" at Opti-Break for the Lisec Interface 34948
- Resolved issue where Quote optimization ignored 'Use Max' setting 32249
- Ability to configure Opti Sort Buffer Station settings through the UI rather than requiring they be changed in the Database 33660
- Ability to add a 'Sorting Interface' to a cutting machine in Opti-Glass the same way we add cutting interfaces 33760
- Create Loader Machine in UI (Part 1: Create/Edit Machine) 33827
- Ability for a more invasive warning when attempting to delete the entire store for a machine 33925
- Ability to configure Station Actions from Opti Sort Server 33949
- Ability to support Interlayer parts in stand alone Opti-Glass 34066
- Ability to dynamically populate the label template field based on an attribute for the Bottero interface 34179
- Improved optimization speed when nesting shapes with the setting "Identical Shapes Only" disabled 34412
- Improved speed when attempting to start a large release (several hundred lites) in Opti Break in Dynamic mode 34580
- Ability for Opti to support an improved password encryption method (Requires FeneVision version 17.1+ to turn on the new method) 34632
- Ability for interlayer patterns to look the same in Pattern Log screen as they look in View Interlayer Cutting 34717
- Ability to map more FeneVision shapes to the PerfectCut interface 34758
- Ability to communicate to the Perfect Cut interface which direction a shape should be rotated 34759
- Ability to define laser logo corner location & Better handling of shapes within the Bottero interface 34812
- Ability for the 'Use Max' setting to appear bold if was manually overridden 34926

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### OPTI Version: 08.01

#### Opti-Flow Application Created

35285

FeneVision Opti-Flow is a service application that runs automatically without a user interface. It acts as a configurable data brokering engine that can automate Information Technology and Operational Technology tasks between the manufacturing shop floor supervisor data layer and manufacturing execution system software layer. FeneVision Opti-Flow is intended primarily to serve as a “data broker” between other FeneVision Opti applications, third-party automation software, and/or machine-level data interfaces (e.g., PLCs).

#### Ability to have industry standard default trims when new glass parts are created

35436

Newly added glass parts will get their trims defaulted to be 3 times the glass thickness when they are synced to Opti. Previously they defaulted to 0 and someone would need to manually set them. Additionally, if someone changes trims on a stock sheet a new 'Reset Trims' button was added to allow a stock sheet's trims to be reset back to 3 times thickness.

#### Ability for Opti-Break to interface with loading systems (Opti-Load) that expect Opti-Break to provide store statuses

36137

Previously Opti Break could only interface with loading systems where Opti-Load would control the store statuses.

#### Additional Release Notes:

- Improved speed of the Lots screen when starting an optimization of only remakes in Opti Break 36091
- Improved speed of the Opti import that occurs during Schedule Release 36150
- Ability for the lot selection screen to appear in Opti-Break when the lot number reaches 0 even if no bin was specified in Machine Setup 35335
- Ability for Hegla Interface to exclude right trim when the end of the pattern is saved as a remnant which matches how Opti places the trims 35658
- Ability to see more helpful errors from Bystronic machinery in Opti Break 36181
- Ability for user to set what a minimum glass thickness for Hegla Scrap Optimization to occur 34702
- Disabled the ability to use the Cut Width setting on a machine that has a machine interface configured (and vice versa) 11509
- Resolved issue where shape nesting could place two nesting scores very close together when nesting two similar but not quite identical edges. 26438
- Resolved Opti-Glass Memory Leak that could potentially cause slowness after opening and leaving the Tempering or Cutting release screens many times 35761
- Resolved issue where an Opti Temp unload station may not show RackIDs in the bottom right corner when in Dynamic mode 35805
- Resolved issue where Hegla cutting interface could place logos in incorrect locations for nested shapes 36159
- Resolved issue where Bottero interface could place logo on the wrong corner 36219
- Removed long standing rule that setting the Min Short Side or Min Diagonal to 0 in a stock sheet's store settings would effectively disable store for that stock sheet 35135

### OPTI Version: 08.01 SP 01

#### Ability to Re-Optimize Uncommitted Patterns in Opti-Break with Additional Selections When Adding Work in Dynamic Mode to Get Better Yields

36890

In Dynamic Mode when the user chooses Add Work any pattern that hasn't been cut, stasured, sent to Opti Load, or sorted in a sorting system could be reoptimized with the additional work. After selecting the work to add, the user will be prompted asking if they wish to reoptimize. Saying 'no' will maintain current functionality of appending to the end.

#### Ability to See a Warning in Opti Break when the Store Capacity has Exceeded a Configurable Threshold

37318

This gives the Opti Break users visibility when they are running out of store slots. This can help the operators know when it's time to either audit what's sitting in store, or force store usage to free up more space. Eventually this would help assure that large remnant glass doesn't get scrapped because there are no available store slots.

#### Additional Release Notes:

- Ability to Visually Indicate the Edge of a Rectangle that will be Placed Down on a Harp Rack 37431

### OPTI Version: 08.01 SP 03

#### Ability to enable/disable lot tracking for a part at the Location or Sublocation level

39061

Previously parts were either lot tracked or not lot tracked at all locations. This feature allows for a part to be lot tracked at one location (or sublocation) but not at another. Utilizing this feature requires FeneVision CORE to be on version 18.1 SP 1 or later.

### OPTI Version: 08.01 SP 04

## FeneVision Release Notes

### Additional Release Notes:

- Resolved issue where re-optimizing uncommitted patterns using the Dynamic mode 'Add-Work' feature causes the second monitor to be out of sync 39149

### OPTI Version: 09.00

#### Ability to See a Warning in Opti Break when the Store Capacity has Exceeded a Configurable Threshold 35778

This gives the Opti Break users visibility when they are running out of store slots. This can help the operators know when it's time to either audit what's sitting in store, or force store usage to free up more space. Eventually this would help assure that large remnant glass doesn't get scrapped because there are no available store slots.

#### Ability to Re-Optimize Uncommitted Patterns in Opti-Break with Additional Selections When Adding Work in Dynamic Mode to Get Better Yields 37302

In Dynamic Mode when the user chooses Add Work any pattern that hasn't been cut, statused, sent to Opti Load, or sorted in a sorting system could be reoptimized with the additional work. After selecting the work to add, the user will be prompted asking if they wish to reoptimize. Saying 'no' will maintain current functionality of appending to the end.

#### Ability for Opti to Handle Edgework Expressions Containing Multiple Edgework Codes or Flat Values 37500

This functionality requires CORE version 18.01 to fully utilize. If using Opti 9.00 with an older version of CORE this functionality can only be used for items entered directly in Opti (Manual Remakes).

### Additional Release Notes:

- Ability to Visually Indicate the Edge of a Rectangle that will be Placed Down on a Harp Rack 37504
- Ability for Opti Applications to warn the user when logging in if DB and Install versions don't match 36124
- Ability to Interface with Hegla SortJet Versions 4.1.0.3, 4.1.0.4, and 4.1.0.5 38042

### OPTI Version: 09.01

#### Ability to enable/disable lot tracking for a part at the Location or Sublocation level 37952

Previously parts were either lot tracked or not lot tracked at all locations. This feature allows for a part to be lot tracked at one location (or sublocation) but not at another. Utilizing this feature requires FeneVision CORE to be on version 18.1 SP 1 or later.

#### Ability to manage inventory at the Sublocation Level 37953

This is the Opti side to support the 18.1 feature. The feature allows existing locations to be split up into sublocations for the purposes of Inventory management. So things like costs, inventory levels, and stock usage can be tracked at the sublocation level while everything else will stay at the location level.

#### Ability for the location drop down in Opti Glass to be restricted to the locations a user is assigned to 37946

In FeneVision 18.1 the ability to assign an employee to specific locations (not one or all) was added. This feature updates the location drop down in Opti Glass to be cognizant of that change.

#### Ability for the location drop down in Opti Load to be restricted to the locations a user is assigned to 37948

In FeneVision 18.1 the ability to assign an employee to specific locations (not just one or all) was added. This feature updates the location drop down in Opti Load to be cognizant of that change.

### Additional Release Notes:

- Resolved issue where re-optimizing uncommitted patterns using the Dynamic mode 'Add-Work' feature causes the second monitor to be out of sync 38679

### OPTI Version: 09.02

#### Ability to Modify Edgework Adjustments Per Location 39080

This feature allows the user to configure different edgework adjustments for different locations. When a new edgework code is added the adjustments must be set up at each location. If they will still be the same, a copy button was added to allow the user to configure them one time and quickly copy them to the other locations.

#### Ability for Opti Break to display store capacity alerts for online and offline store 39664

Opti Break will now show the store capacity information at the top of the screen for Offline store. Previously this functionality was limited to Online store only. If a machine is configured with both an Offline and Online store both of them will be shown. Additionally, a more detailed warning can appear along the right side of the screen if the Online or Offline store hits the threshold configured in the station's setting's.

If store is filling up it could be an indication that some store settings are either resulting in too much remnant being saved or too restrictive when consuming remnant. So the point of this feature is to give the operator visibility of the fact that settings may need adjusted for optimal store usage.



## FeneVision Release Notes

### Additional Release Notes:

- Ability to configure Lisecc Recipe for glass types within Opti Glass rather than a config file 36933
- Improved error messaging when a part cannot be found in the system 36546
- Resolved issue where Bottero logo Offset params was not converted to metric 38832
- Ability for the selected pattern to remain selected after resetting its status in View Glass Cutting 39176
- Ability to indicate if a Hegla Remaster system supports decimals or not 39523
- Ability to configure Rack Parameters in OPTI-LOAD INVENTORY UI 35729

### OPTI Version: 09.03

**Save user-settings for "Run" between sessions** 40066

**Opti-Sort Client refresh performance** 41110

### OPTI Version: 09.03 SP 01