

Stencil database

User manual

Elcoteq Pécs

2009

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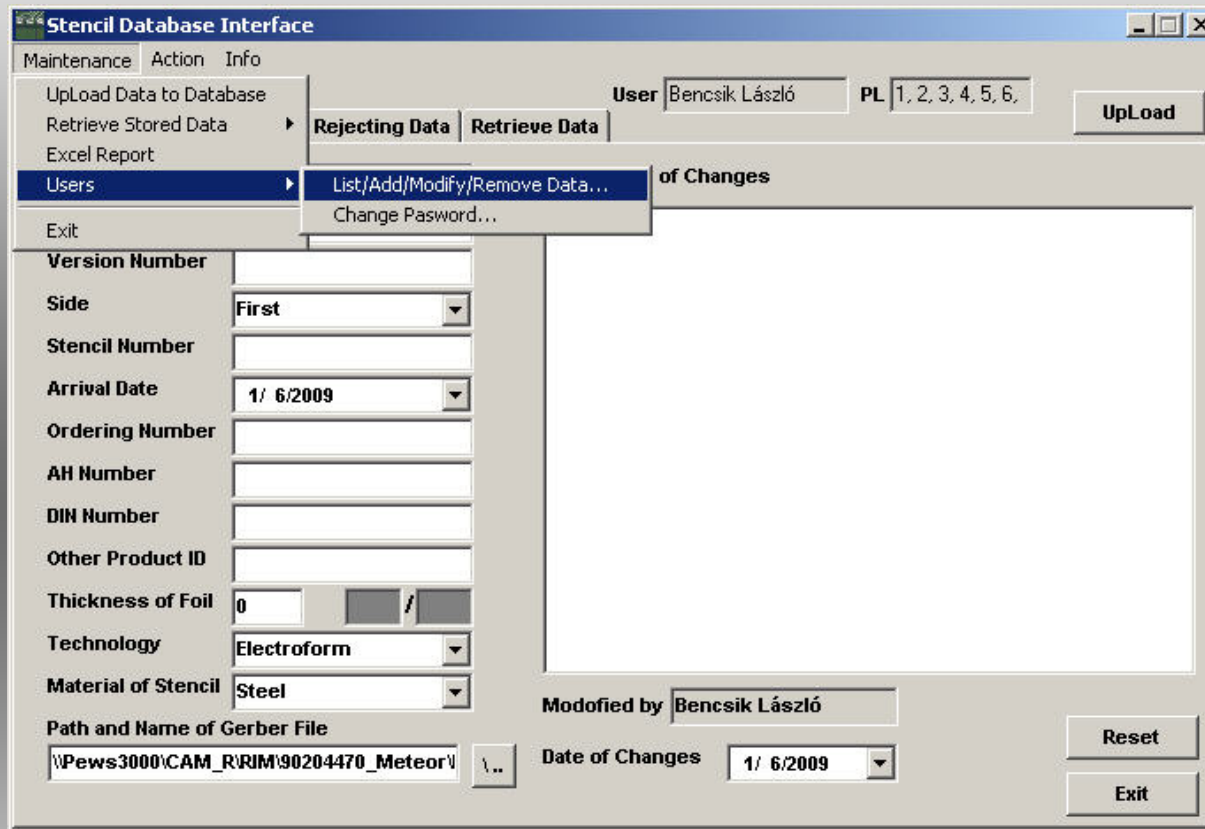
Getting started

The screenshot shows the 'Stencil Database Interface' window. The 'Database Login' dialog box is open, displaying the following fields: Database: Stencil, User Name: (empty), Password: (empty). There are 'OK' and 'Cancel' buttons at the bottom of the dialog. The main window has a menu bar with 'Maintenance', 'Action', and 'Info'. Below the menu bar, there are 'User' and 'PL' input fields and an 'UpLoad' button. The main window has several tabs: 'Stencil Data', 'Aperture Data', 'Rejecting Data', and 'Retrieve Data'. The 'Stencil Data' tab is active, showing a form with the following fields: Product Line (dropdown), Product (text), Version Number (text), Side (dropdown, set to 'First'), Stencil Number (text), Arrival Date (dropdown, set to '1/ 6/2009'), Ordering Number (text), AH Number (text), DIN Number (text), Other Product ID (text), Thickness of Foil (slider, set to 0), Technology (dropdown, set to 'Electroform'), Material of Stencil (dropdown, set to 'Steel'), Path and Name of Gerber File (text, set to '\\Pews3000\CAM_R\RM\90204470_Meteor\'), Modified by (text), Date of Changes (dropdown, set to '1/ 6/2009'), and 'Reset' and 'Exit' buttons.

The screenshot shows the 'Stencil Database Interface' window after a successful login. The 'Information' dialog box is open, displaying the following message: 'Welcome ! You are successfully logged into database with: administrator privilege as Bencsik.'. There is an 'OK' button at the bottom of the dialog. The main window has the same menu bar and 'User' and 'PL' input fields. The 'Retrieve Data' tab is active, showing a form with the following fields: Product Line (dropdown), Product (text), Version Number (text), Side (dropdown, set to 'First'), Stencil Number (text), Arrival Date (dropdown, set to '1/ 6/2009'), Ordering Number (text), Number (text), Number (text), Number (text), Other Product ID (text), Thickness of Foil (slider, set to 0), Technology (dropdown, set to 'Electroform'), Material of Stencil (dropdown, set to 'Steel'), Path and Name of Gerber File (text, set to '\\Pews3000\CAM_R\RM\90204470_Meteor\'), Modified by (text), Date of Changes (dropdown, set to '1/ 6/2009'), and 'Reset' and 'Exit' buttons.

- When you start the application a login page appear
- You should have a User name and Password to have access to the database
- If you logged in a message appear

Add user / change password



- Under the **Maintenance / User** menu you can:
 - Add new users & password
 - Dedicate them to product line
 - Dedicate the access level like User or Admin
 - Change password

Basic window

The screenshot shows a software window titled "Stencil Database Interface" with a menu bar containing "Maintenance", "Action", and "Info". The window is divided into several sections:

- Top Bar:** Includes a "User" field with the value "Bencsik László" and a "PL" dropdown menu with the value "1, 2, 3, 4, 5, 6,". An "UpLoad" button is located to the right.
- Navigation Tabs:** Four tabs are visible: "Stencil Data" (selected), "Aperture Data", "Rejecting Data", and "Retrieve Data".
- Left Panel (Form Fields):**
 - Product Line: PL1 (dropdown)
 - Product: (empty text box)
 - Version Number: (empty text box)
 - Side: First (dropdown)
 - Stencil Number: (empty text box)
 - Arrival Date: 1/ 6/2009 (dropdown)
 - Ordering Number: (empty text box)
 - AH Number: (empty text box)
 - DIN Number: (empty text box)
 - Other Product ID: (empty text box)
 - Thickness of Foil: 0 (text box) / (text box)
 - Technology: Electroform (dropdown)
 - Material of Stencil: Steel (dropdown)
 - Path and Name of Gerber File: \\Pews3000\CAM_R\RM\90204470_Meteor\ (text box) with a browse button (\..)
- Right Panel (Description of Changes):** A large empty text area for recording changes.
- Bottom Panel:** Includes a "Modified by" field with the value "Bencsik László", a "Date of Changes" dropdown menu with the value "1/ 6/2009", and "Reset" and "Exit" buttons.

- **Stencil data:** here you can upload a new stencil into the database
- **Aperture data:** here you can record the incoming inspection measurements result
- **Rejecting data:** here you can record if a stencil needs to be scrapped
- **Retrieve data:** here you can retrieve any stencil what is in the database to make modification or scrapping

Stencil data

Stencil Database Interface
Maintenance Action Info
User: Bencsik László PL: 1, 2, 3, 4, 5, 6 UpLoad

Stencil Data | Aperture Data | Rejecting Data | Retrieve Data

Product Line: PL1
Product: PL1
Version Number: PL3
Side: PL4
Stencil Number: PL6
Arrival Date: PL7

Ordering Number:
AH Number:
DIN Number:
Other Product ID:
Thickness of Foil: 0 /
Technology: Electroform
Material of Stencil: Steel

Path and Name of Gerber File: \\Pews3000\CAM_R\RIM\90204470_Meteor

Stencil Database Interface
Maintenance Action Info
User: Bencsik László PL: 1, 2, 3, 4, 5, 6 UpLoad

Stencil Data | Aperture Data | Rejecting Data | Retrieve Data

Product Line: PL12
Product: Meteor
Version Number: Second
Side: First
Stencil Number: First
Arrival Date: 1/ 6/2009

Ordering Number:
AH Number:
DIN Number:
Other Product ID:
Thickness of Foil: 0 /
Technology: Electroform
Material of Stencil: Steel

Path and Name of Gerber File: \\Pews3000\CAM_R\RIM\90204470_Meteor

Stencil Database Interface
Maintenance Action Info
User: Bencsik László PL: 1, 2, 3, 4, 5, 6 UpLoad

Stencil Data | Aperture Data | Rejecting Data | Retrieve Data

Product Line: PL12
Product: Meteor
Version Number: A
Side: First
Stencil Number: 9963
Arrival Date: 11/21/2008
Ordering Number: ES84046
AH Number: 009241
DIN Number: 217058
Other Product ID: Pálfi Róbert
Thickness of Foil: 100 /
Technology: Electroform
Material of Stencil: Steel

Path and Name of Gerber File: \\Pews3000\CAM_R\RIM\90204470_Meteor
Date of Changes: 11/21/2008

Reset
Exit

- In the **Stencil data** field you can put the new stencil data into the database.
- Select the product line from the drop down menu; input the product name (free text); input version number; select the side of the product; arrival date; PO number; AH and DIN number (only if applicable) ; thickness of the stencil in micron (μ); if you have step stencil use the .../... field; stencil technology and the material at the end
- Push the **UPLOAD** button after recording

Aperture data

Stencil Database Interface

Maintenance Action Info

User Bencsik László PL 1, 2, 3, 4, 5, 6 Upload

Stencil Data **Aperture Data** Rejecting Data Retrieve Data

Comp. position ID → Investigated Component U901

Nominal Value 170

Measured Value on Panel Side 170

Measured Value on SQUEEGEE Side 160

Calculate

Taper 10

Deviation from Nominal Value 0

Number of Aperture Inspections 4

ID of Actual Aperture Inspection 1

Upload the measurement result → Entry / Update

Next

Prev

Clear

Result of First Printing Suitable Not Suitable

Qualification of Stencil Suitable Reject

Modified by Pálfi Róbert

Date 11/ 3/2008

Reset

Exit

- In the **Aperture data** field you can input the result of the incoming inspections like:
 - **Aperture measurement:** here you can define max 5 aperture (component pos ID) and the measurement on squeegee and PCB side. The Taper and the deviation are calculated automatically
 - **Result of the first printing** after 100% inspection
 - **Qualification** of the stencil

Retrieve data

The screenshot shows the 'Stencil Database Interface' window. The 'Retrieve Data' tab is active. The 'User' field contains 'Bencsik László' and the 'PL' field contains '1, 2, 3, 4, 5, 6'. The 'Search in' section has 'Product Names' selected. The 'Assigned Product Lines' section has 'PL12' selected. The 'Data to find' field is empty. The 'List' button is highlighted. The table below shows the following data:

Product Name	Version Number	Stencil Number
Papa Bear	1	6738
Lancer	2	8846
Papa Bear	1	6744
Papa Bear	1	6742

- In the **Retrieve data** filed you can select any stencil from the database to make update / modification in the recorded data / scrapping / delete stencil
- Select product line from the list -> push **List** button to get the existing stencils
- Select the right stencil and push **Get Data** button
- After you make modification in **Stencil data** / **Aperture data** or **Rejecting data** fields use the **UpDate** button

Rejecting Data

The image displays three overlapping screenshots of the 'Stencil Database Interface' software, illustrating the process of rejecting data. The interface includes a top navigation bar with 'Maintenance', 'Action', and 'Info' tabs. Below this, there are tabs for 'Stencil Data', 'Aperture Data', 'Rejecting Data', and 'Retrieve Data'. The 'Rejecting Data' tab is active in all three screenshots.

The first screenshot shows the 'Rejecting Data' tab selected. It features a search section with 'Search in' options: 'Product Names' (selected), 'Version Numbers', and 'Stencil Numbers'. There is a 'Data to find' input field and a 'List' button. Below this is a table of existing stencils:

Product Name	Version Number
test	77

The second screenshot shows the 'Reason of Rejecting' text field highlighted in yellow. The text field contains the placeholder text 'type here the reason of scrapping'. Below this is the 'Date of Rejecting' section, which includes a calendar for January 2009. The date 1/6/2009 is highlighted in yellow. The 'Modified by' field is set to 'Bencsik László'.

The third screenshot shows the 'Date of Rejecting' section with the calendar for January 2009. The date 1/6/2009 is highlighted in yellow. The 'Modified by' field is set to 'Bencsik László'. There are 'Reset' and 'Exit' buttons at the bottom right.

- In **Rejecting Data** field you can record the reason and date of scrapping the stencil
- Steps: select stencil from the list -> on **Aperture data** field you need to select **Reject** -> go to **Rejecting data** field and fill the reason and select the date
- After recording you should update the data in the **Retrieve Data** field by pushing the **UpDate** button.

Reporting to excel

The screenshot shows the 'Stencil Database Interface' window. At the top, it displays 'Maintenance Action Info' and the user 'Bencsik László'. Below this are tabs for 'Stencil Data', 'Aperture Data', 'Rejecting Data', and 'Retrieve Data'. A search area includes 'Search in' options (Product Names, Version Numbers, Stencil Numbers) and a 'Data to find' field containing 'Meteor'. A list of 'Assigned Product Lines' (PL1-PL12 and ALL) is shown on the right. The 'Excel Report' button is highlighted with a yellow box. At the bottom, a table lists existing stencils:

Product Name	Version Number	Stencil Number
Positron	a	3301
Meteor	A	9971
Meteor	A	9975
Meteor	A	9977

The screenshot shows an 'STENCIL REPORT' form, which is an Excel spreadsheet template. It contains several tables for data entry:

Visual inspection	Good	Not good	Comment	
Product line	PL12	Ordering number	E588846	
Product	Meteor	SN number	0002A144	
Version number	A	C.R. number	217003	
SN#	Final	Thickness of foil	100	
Stencil number	9975	Technology	Evolveform	
Amplitude	18/28/2888	Number of stencil	None	

Description of change(s)	Quantity	Value
Discrepancy from original file:		

Aperture inspection	Units	11/21/2007	Good	Not Good
Inward projection components	Count/total	Max/min total on panel/total	Max/min total on SOU/EDGE side	Type
U1000	250	250	250	10
U1000	250	250	250	12

Visual check printing	Substrate	Not substrate

Qualification of stencil	Substrate	Reject
DATE:	Stamp:	
		Rejecting

- After you select a stencil from the bottom list it is available to create an excel format report. (**Excel Report** button)
- The report format is equivalent with the incoming inspection form what is in use at Elcoteq Pécs

Reporting page

The screenshot displays the 'Stencil Database Interface' web application. The interface includes a navigation menu with 'Maintenance', 'Action', and 'Info' options. The 'Action' menu is open, showing options like 'Search', 'Set Stencil Data', 'Set Inspection Data', 'Set Rejecting Data', and 'View Report Page'. The 'View Report Page' option is highlighted. The main form contains various input fields for stencil data, including Product L, Product, Version Number (A), Side (First), Stencil Number (7701), Arrival Date (12/ 5/2008), Ordering Number (1111), AH Number (006737), DIN Number (187252), Other Product ID, Thickness of Foil (100), Technology (Electroform), and Material of Stencil (Nickel). There are also fields for 'Path and Name of Gerber File' (\\Loh07\ES\CAD\CADCAM\90204470\modifie), 'Date of Changes' (12/ 5/2008), 'Modified by' (Pálfi Róbert), and 'User' (Bencsik László). Buttons for 'UpLoad', 'Reset', and 'Exit' are visible.

- Web based reporting system is belongs to the application
- You can reach this from **Action / View Report Page** menu

Reporting page



Stencil Report

Product Line:

Date:2009. 01. 06.

Current Page All Pages Include Grid Lines

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- On the stencil report page you can select any stencil what is in the database and you can create reports about the stencil data and aperture data.
- Excel export is available as well