CreoScitex

OUTPUT DEVICES DIVISION

CREOSCITEX INTERNATIONAL PRODUCT SUPPORT

Lotem 400V

Release Note for Version 1.20.14

Date: September 13, 2000

From: Yaron Soffer

Abstract:
These Release Notes contain the changes and additions that have been made since the version 1.10.05 was last released.



Yaron Soffer
Product Support Manager
Output Devices Division

CreoScitex Corporation Ltd.
P.O.B 330, 46103 Herzelia B, Israel
Tel. 972-9-9597267
Mobile. 972-51-567084
Fax. 972-9-9597789
E-Mail: yaron_soffer@creoscitex.com

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Overview/Introduction

The following is a review of the new Software Version 1.20.14 for the Lotem 400V.
The main reason for this software is to support Local 3 boards.
Version 1.20.14 provides an answer for all Lotem 400V configurations – TSP, VLSI, Local 2, and Local 3.

This software supports the Lotem 400VA with the automatic loader (with two Local 2 or with one Local 3) but with some limitations and bugs.
An updated software version is under testing to support the Automatic Loader.

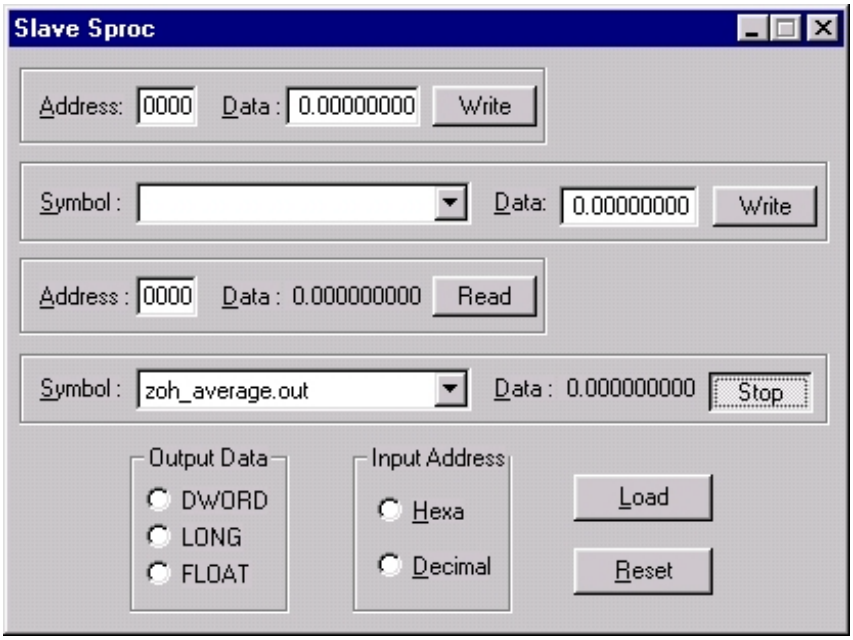
New Features

- Fix DDB communication problem.

The problem was solve by the software and there is no need to replace any board.

- MCF Slave Sproc window changed to have continues readings.

When performing manual Edge Detection we need to open the Slave Sproc window to read the light reflecting from the plate or drum. The new option will enable us to have a continuous reading of the reflecting light instead of continuously pressing read.

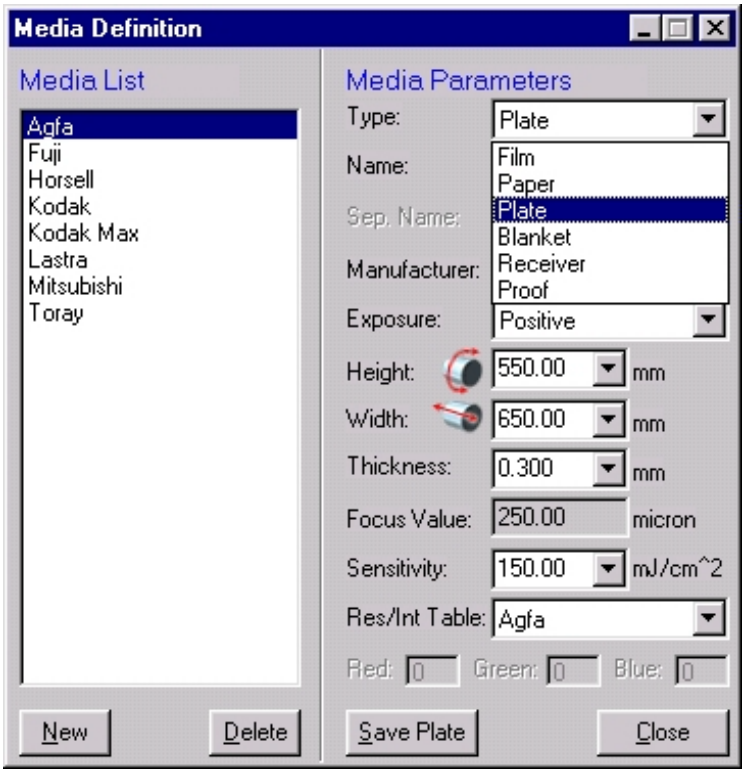


- New keyboard shortcut for default values.

When the Properties window is displayed and a parameter is selected, pressing on the CTR+D will set it to default.

- Counting the media loaded.
  In the Loading System window - status line there is a counter of plates loaded on the machine.
  There is no option to reset the counter.
- Remove the detector Load_stopper_end_position

- Update default values - see bellow.
- Added a detector under the Unloading System\Detectors *UnLoad System HP Detector* - The detector will give an error if the arm isn't in the upper case as if there isn't any air supply in the machine.
- Change Edge detection window to be updated with Drum Speed.
- The scripts paths are changed from …\\LoadingSystem\\… to ..\\Manual\\..
- Close *Unload Roller End Pos.Detector*
- Added Loading System Type: (default is 1)
  FullManualLoading=0, SemiManualLoading=1, SingleOrDualCassette=2, MultiCassette=3)
- Added a gap (in mm) during unloading plate between turning off the unload motor and stopping the drum motor:
  Loading System\Unload Plate\Tolerance For Unload Motor (mm) default is 3 mm.
- A log file that saves all the messages from the first day the software was loaded.
  The log file saved under the Log folder by the name **error.log**
  The log file is a text file and it accumulates all the errors appeared on the message window from the day the software was installed.
- The Plate Definition window changed to Media Definition window. The selected Type of plate should be Plate



New parameters:

Parameter name	Old value	New value
Plate Loading Motor- Max GT Integration Velocity Error	40	127
Unload Motor - Max GT Integration Velocity Error	40	127
Conveyor speed factor	-0.08	0.08
Conveyor Motor - Velocity Ki	45	35
Conveyor Motor - Velocity Kp	12	2

Parameter name	Old default	New default
Max Possible laser power in the laser group	300	350
Light detector position	-3	1
Width start image area	35.86	41
max drum speed	1200	1300
Loading Motor Moment For 0.15 Seq	35	25
Loading Motor Moment For 0.2 Seq	55	45
Loading Motor Moment For 0.3 Seq	90	80
Plate Edge Position	100	97.2984
Default Intensity (mw)	300	240
Loading System Type		

User Password

The passwords for different types of users are:

User	No password needed
Service Engineer	creoscitex
Expert	lotempro

Conveyor Motor & Unload Motor control

Please refer to the appendix Unload on page 16.

Unload Motor Control:

Unload Motor First Speed – Unload motor speed while the plate exits from the drum.
Unload Motor Second Speed – Unload motor speed when the plate exits from the machine.
Time Out For Stop Unload Motor – Time out for unloading motor, from the moment the detector *plate out from machine* is on.

Conveyor Control:

First Conveyor motor speed – The speed from the Lotem 400 unloading until the plate reaches the detector of the conveyor.
Second Conveyor motor speed – The speed from the moment that the plate reaches the conveyor detector.

Tolerance For Unload Motor (mm) - The distance between the drum unload position in witch the unload motor is set to off. This option will solve the marks on the plate during unload and the cases when the plate pulls the drum motor before releasing the head gripper.
Time Out For Stop Unload Conveyor [m-Sec] – The time out of the conveyor motor in the second speed, starts after the plate exit from the conveyor.
Plate Time Out To Get Out From The Conveyor [m-Sec] – The overall time that the plate is on the conveyor.

Changes from Previous Version

- The password for different types of users are:
  User – No need for password.
  Service Engineer – Scitex
  Expert - lotempro

System Requirements

- Brisque update 1.27
- DDB-1-N Board – FCO 510F25994

Known Bugs and limitations

- The software deletes the **conveyor motor** and **plate out of conveyor detector**.
- The software put to default the:
  Init Tail Gripper Position
  Conveyor parameters (under unloading System)
  Load Head Gripper Position
- Distribution Rev C does not supported.

Installation Notes

Recommendations

- Before installing new software, save the Registry file on a floppy diskette. This registry is useful for the previous version only.
- Save the DataBase folder on a floppy diskette.
- Write down the IP address of the PC.

Save registry files:

1. Power on the *Lotem400V*.
2. Open the right side door of the *Lotem 400V*.
3. Insert a formatted write-enable diskette into the floppy diskette drive.
4. On your PC computer, click **Start** and select **Run** from the pop-up menu.
5. Type **regedit** in the *Run* window and click **OK**.
6. Select **HKEY_LOCAL_MACHINE, SOFTWARE, Scitex**.
7. Select **Registry** from the *Main menu*.
8. Select **Export Registry** file.
9. Select **(A:) floppy** from the **Save in** window. Enter a logical file name xxx.reg. and then **save** the registry file.
10. Select **Registry** from the *Main menu*.
11. Select **Exit**.

Leave the diskette in the diskette drive and proceed to the next section for saving the *DataBase*.

Save DataBase Folder

1. On your PC computer, click Start and select Programs from pop-up menu.
2. Select Windows Explorer.
3. Select the C drive -> Lotem folder -> DataBase (DataBase is highlighted).
4. From the Edit menu, select Copy.
5. Select (A:) floppy. From the Edit menu, paste the DataBase folder into the diskette (alternatively, use the Drag & Drop option).
6. From the File menu, select Close.
7. Remove the diskette from the diskette drive.

Write Down the PC Controller IP Address

1. On your PC computer, click Start and select Settings -> Control Panel.
2. In the Control Panel window, select Network.
3. From the Network window, select Protocols -> TCP/IP address.
4. Write down the I/P Address.
5. Click OK twice and exit the Control Panel.

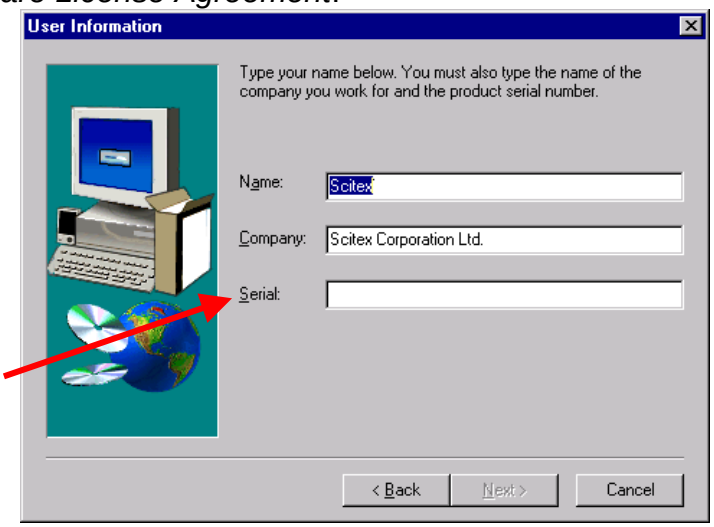
Loading Lotem400V Application and Diagnostics S/W

Please use the following procedure in order to load the *Lotem 400V* application software.

The configurations that will be selected in the screens are taken from the Registry.

If no change have been made prior to the software installation (hardware change or replacing any board) than there is no need to change the configuration of the machine.

1. **Delete** the *Lotem400V* and the *Lotem4VDiag* icons (important when installing **only** the application software).
2. Insert the *Application and Diagnostics software* CD into the CD drive.
3. Wait for the *Lotem Setup* screen.
4. Select **Next** for the *Welcome* screen.
5. Select **Yes** to confirm the *Software License Agreement*.



6. Enter the following:

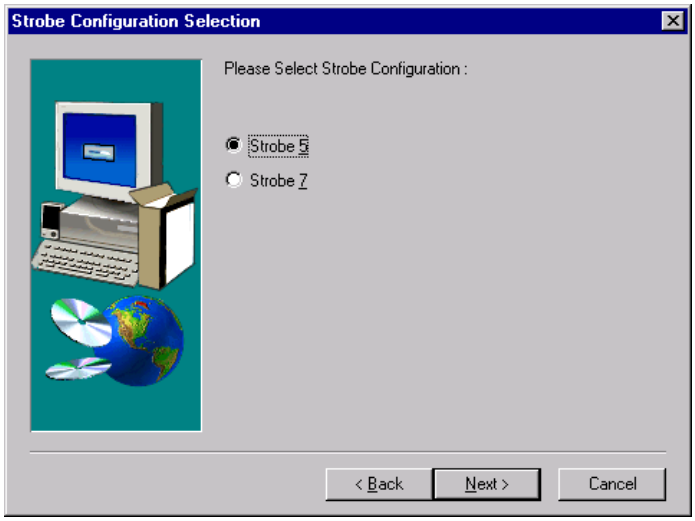
Name: **Engineer name**.

Company:
CreoScitex Corporation Ltd.

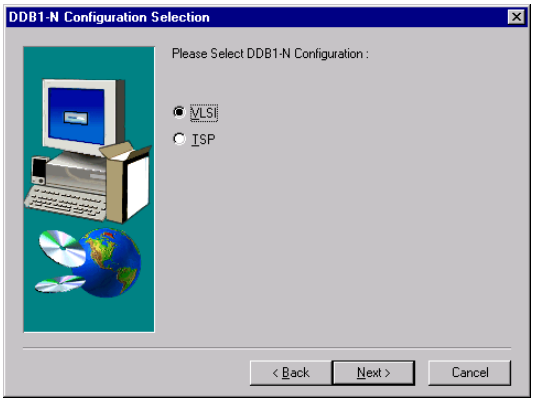
Serial: (machine **serial number**)

Select **Next**.

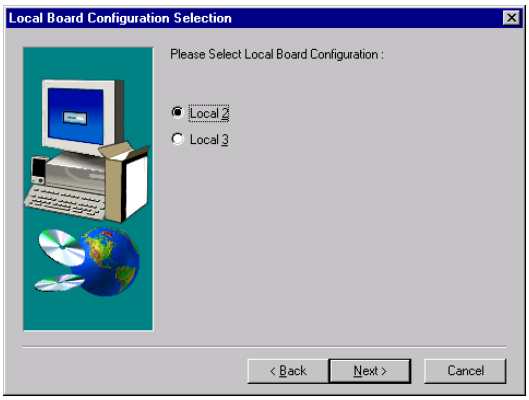
7. Verify that the *destination* folder is **C:\Lotem** and select **Next**.
8. Verify that the *Setup* type is **Typical** and select **Next**.
9. Chose the configuration of Strobe boardand select **Next.**



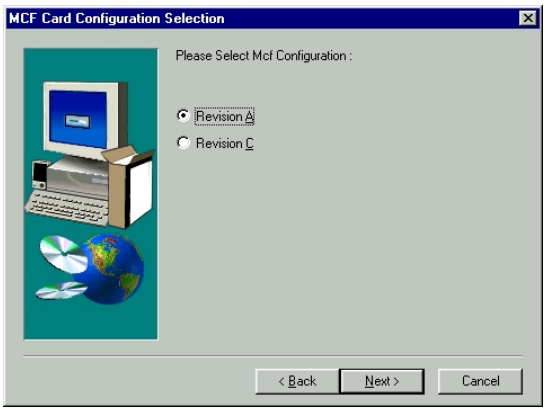
10. Select the connection to
    DDB-1-N VLSI or TSP
    and select **Next.**
    Note: Display the current machine configuration



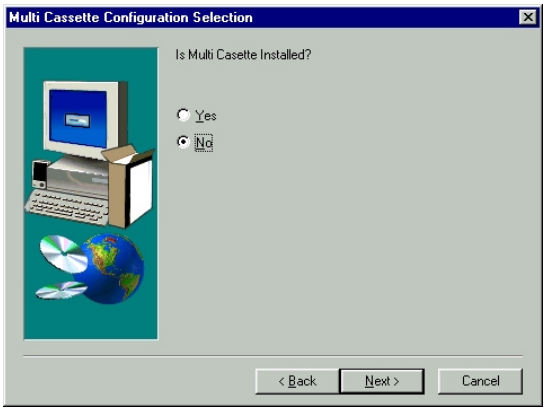
11. Select type of Local board -
    two Local 2 or one Local 3.
    and select **Next.**
    Note: Display the current machine configuration



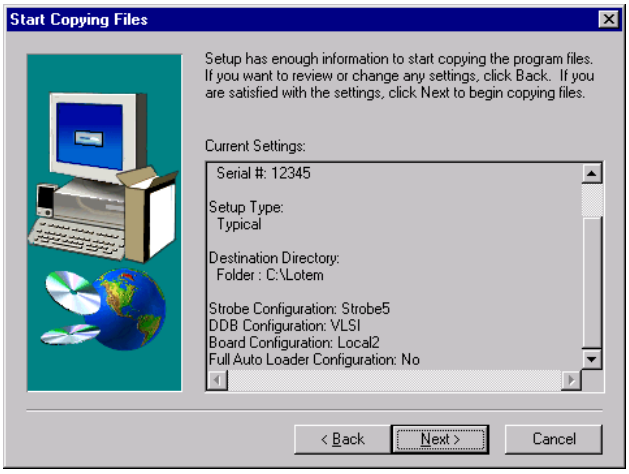
12. Select the MCF Revision configuration



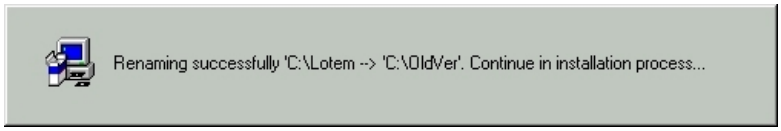
13. Select type of machine:
    Without automatic loading – No
    With automatic loading – Yes
    and select **Next.**



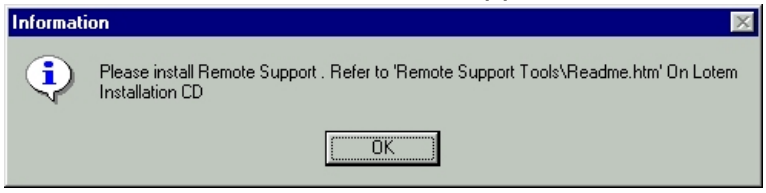
14. Review and verify the information entered.
    To change the information select Back
    or if everything is correct then select **Next**



15. Select **Next** to *Start Coping Files*
    (estimated loading time is 5 minutes).



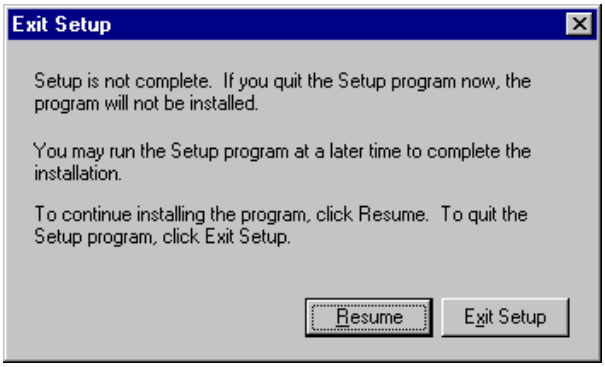
16. Select **Finish** for *Setup Complete*;
    the new *Lotem400V* and the *Lotem400VDiag* icons appear on the *Windows 95* screen.
17. Follow the instruction to install the Remote support tools.



18. Remove the *Application and Diagnostics software* CD from the CD drive.

Exiting from the installation:

In each screen you can select the
Cancel
and then select the Exit Setup.



Running the Lotem software for First time

- Prior to using the version, it is recommended to close all the machine doors.
- On the lower-left side of the opening screen you will see the steps of the software.

Example:

Left Local Card Download WCS





- When running the application for the first time it takes up to five minutes until the main screen appears because new files are loaded to the boards.
- On the first time running the Lotem software the Loading System is in undefined state. Press on the **Restart Plate State** (and if you have a plate on the drum press Force Plate On Drum)

Post Installation ATP

- Check that the flag of the unload system arm is properly in the detector.
- Check that the DataBase is the same as the old version.
- Check that the Light Calibration passes 200mw power.
- Verify that the Loading and Unloading plate procedure work properly.
- If the customer is using plates with a thickness of **less** than 0.3:
  1. Open the Focus motor window.
  2. Send a job.
  3. Verify that the focus motor moves 100 steps away from the drum (from the exposing position) and goes to the right position for exposure.

Upgrade Notes

- Do not use the saved registry from the old version and restore it to the new software. Each software has its own registry.
- You can lock the focus motor if the customer is using only 0.3 mm plates. Do not lock the motor in any other situation, for example if using only 0.2 mm plates.

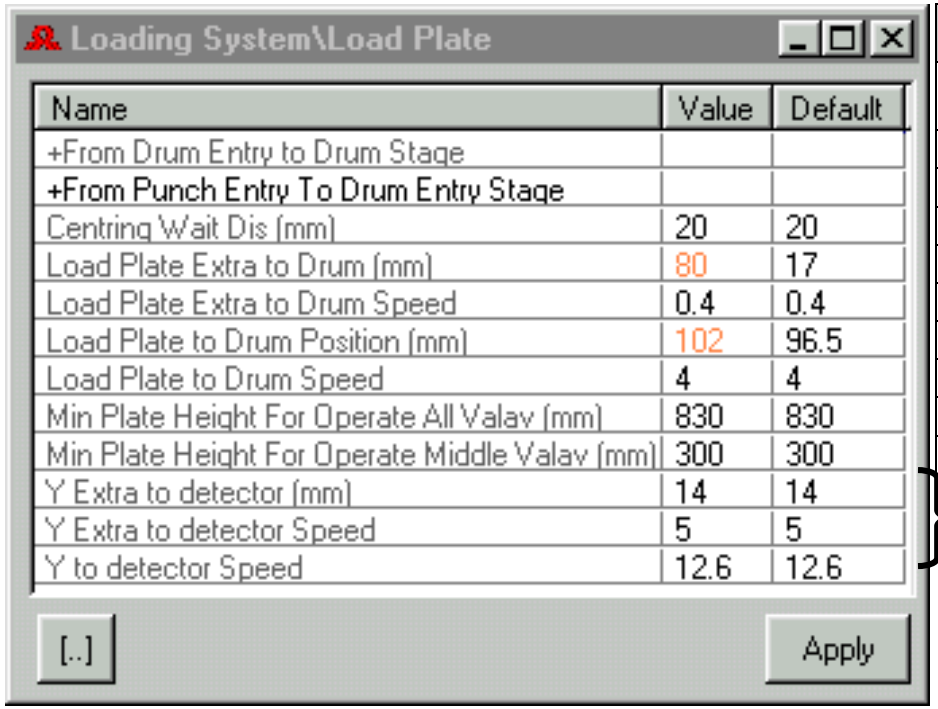
Logistics

Upgrade Kits

Prior to updating the machine must have the DDB-1-N included in FCO 510F25994.
DDB1-1-N - Serial number 503D2L695S

Appendix

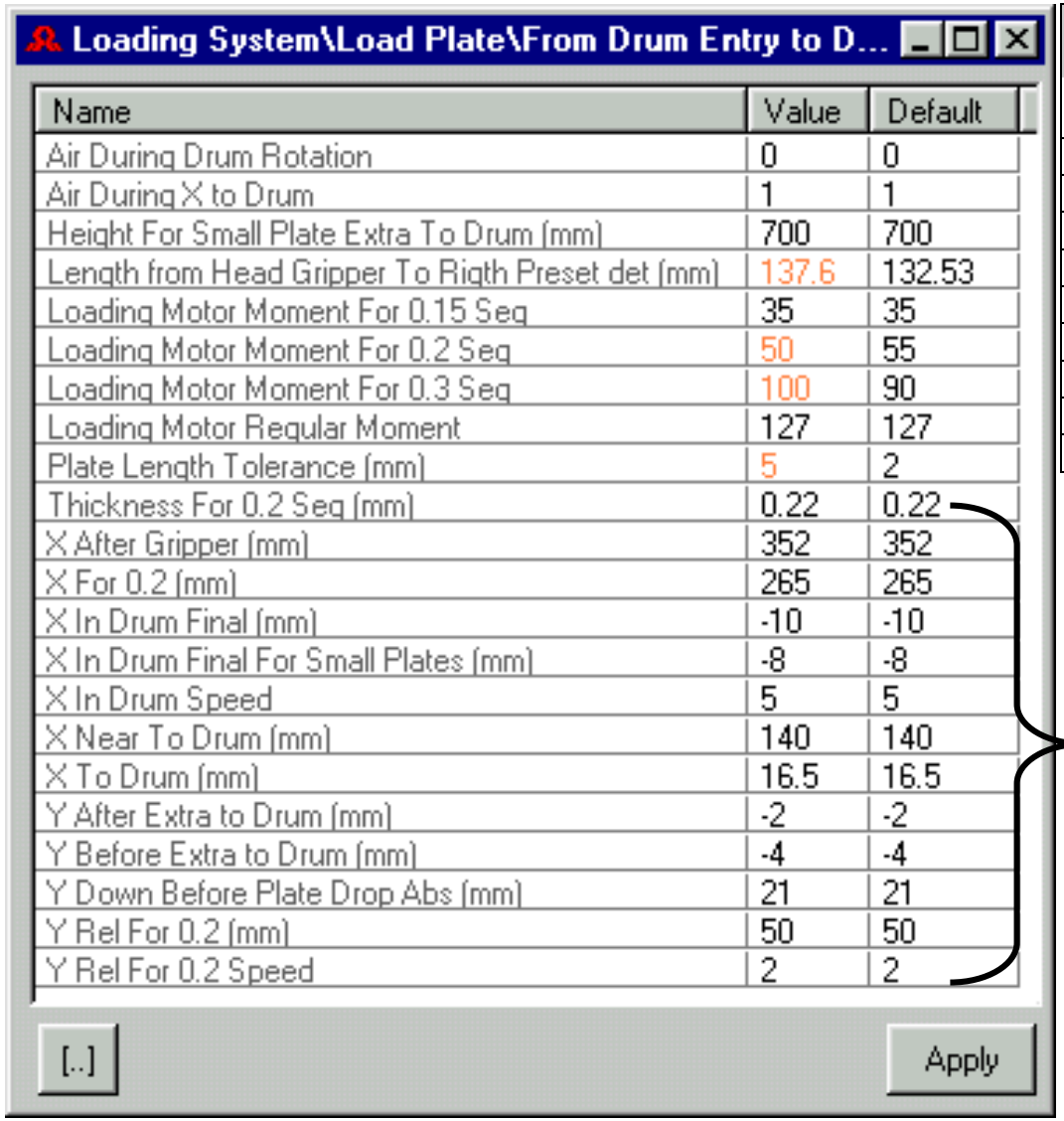
Loading System



Remarks
Open to additional window – See next page
Open to additional window – not used in Lotem 400V
Advance for the second extra stage (3 mm)
Speed of the second Extra stage (for total of 1.6 second)
Adjusted of the first stage in loading plate (see procedure)
Speed of the first stage in loading

Not used

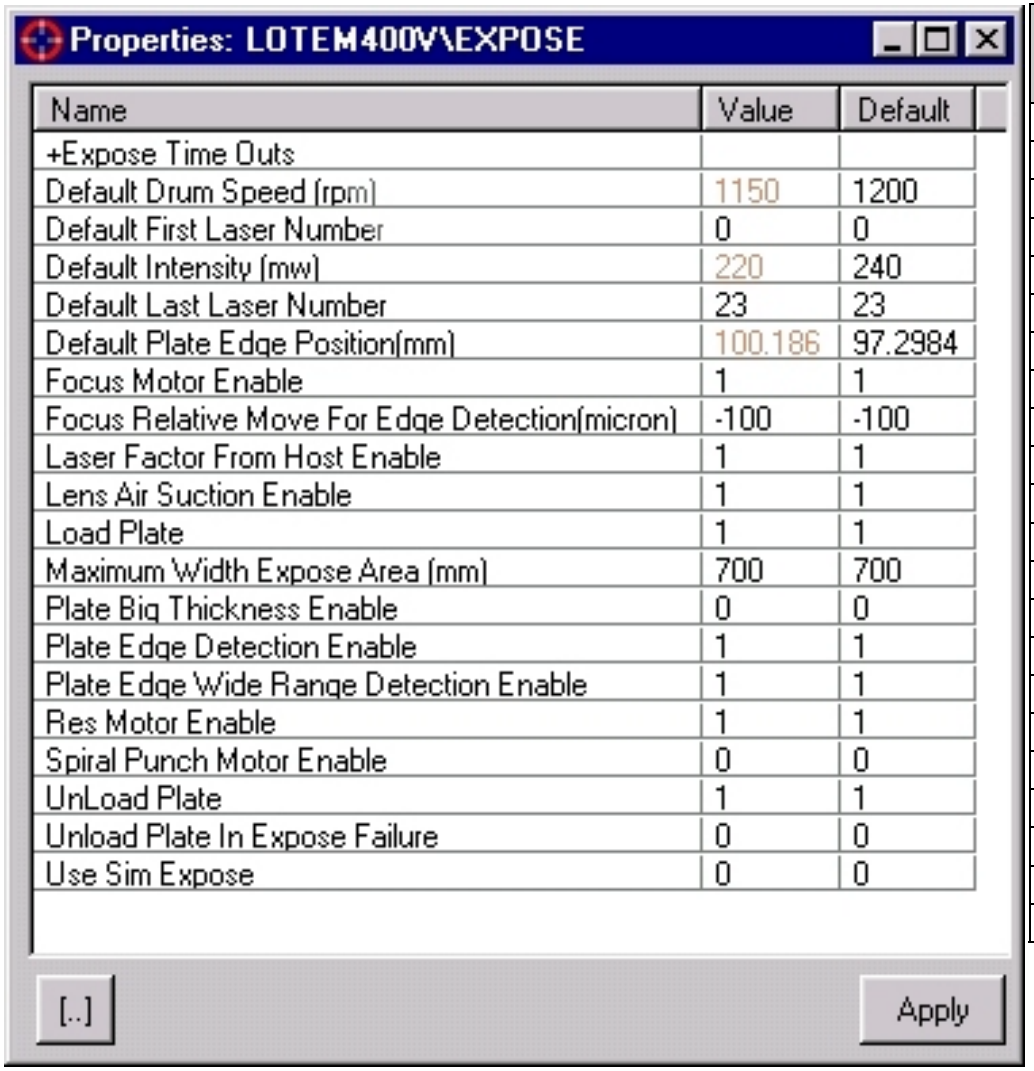
From Drum Entry To Drum Stage



Remarks
Used for measuring plate length – See procedure
Adjust the Moment in extra stage for 0.15 plate
Adjust the Moment in extra stage for 0.2 plate
Adjust the Moment in extra stage for 0.3 plate
Plate length tolerance allowed

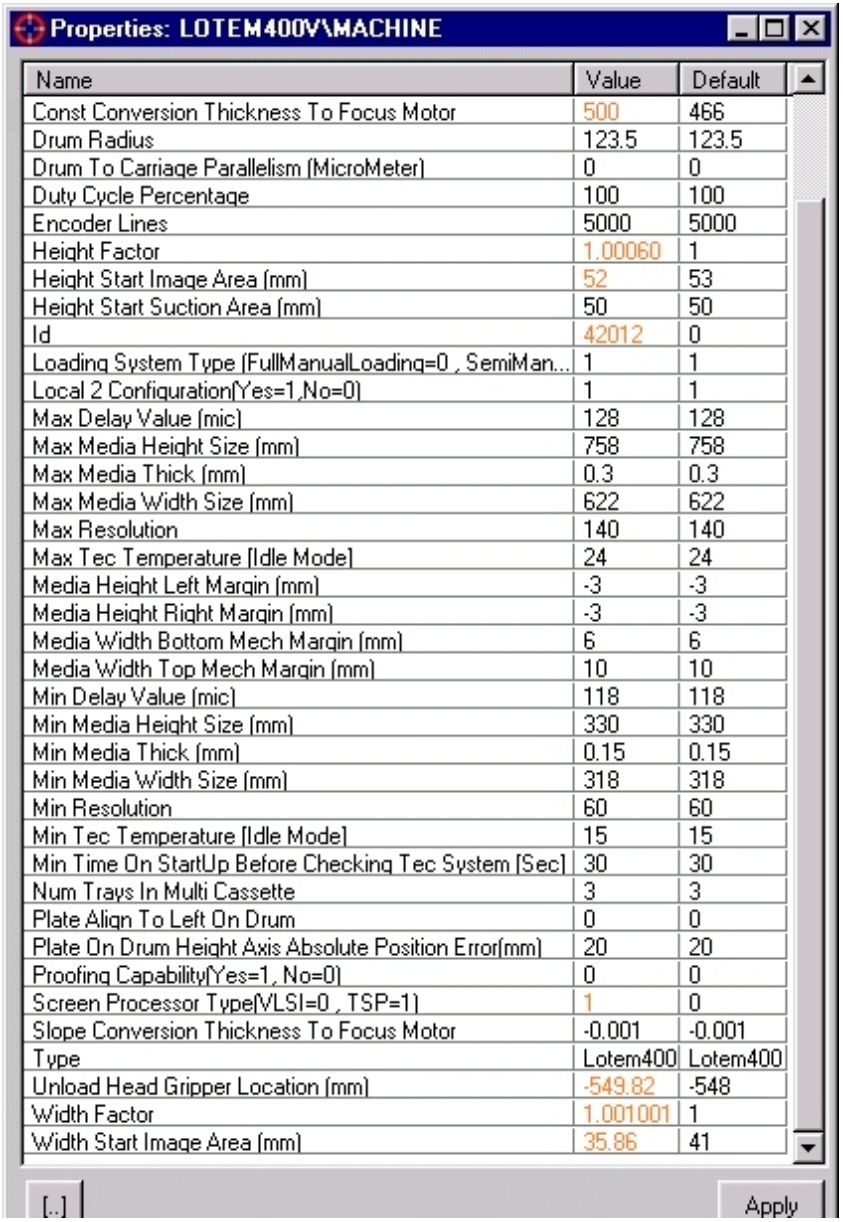
Not used

Plate Expose



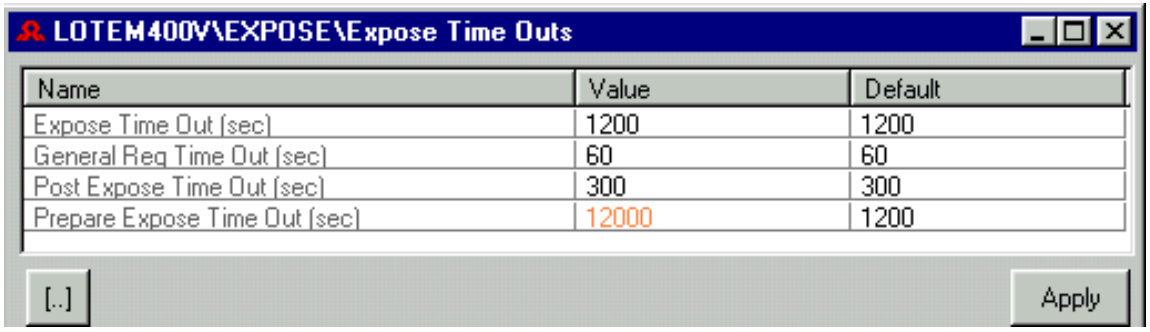
Remarks
First Laser to Expose
Last Laser to Expose
Last time the Edge was detected
The movement of the focus motor to find the edge
Disable/Enable the edge detection
Disable/Enable the wide range edge detection

Machine



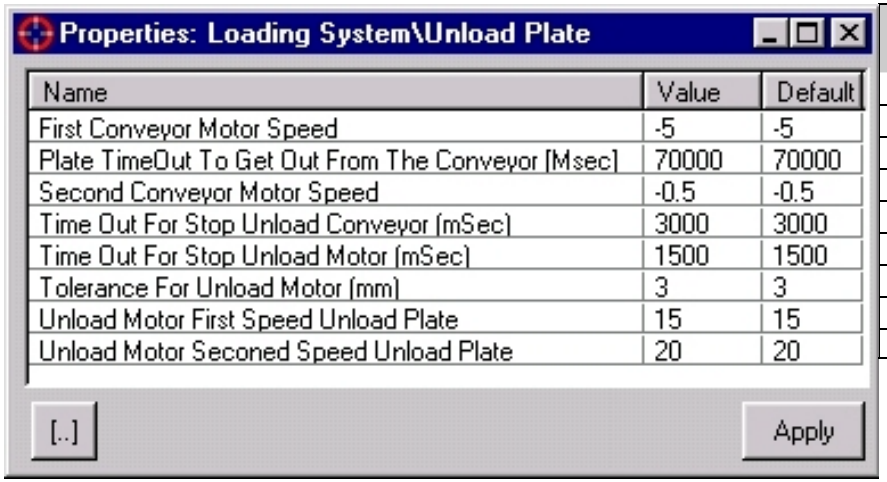
Remarks
The focus number for 0.3 plate (need to subtract 300)
The height starting point (minimum position for edge detection)
Machine Serial Number
Machine configuration
Maximum media along the screw
Maximum media thickness
Maximum media around the drum
The offset when exposing positive plates
Width tail margin – around the drum
Width head margin – around the drum
Minimum media thickness
VLSI or TSP selection
The name of the machine for the Brisque (will effect the rotation)
The starting point around the drum

Expose time out



Remarks

Unload



Remarks
The first **speed** before the plate reach the conveyor detector
The overall **Time out** for plate to exit from the conveyor
The second conveyor **speed** after the plate was sensed by detector.
TimeOut for the second speed after the plate exit from the conveyor
Time out for unload motor after detector PlateOutOfMachine
The tolerance between stopping the unload motor and the drum motor
Unload First Speed
Unload second Speed

Plate geometry - terminology

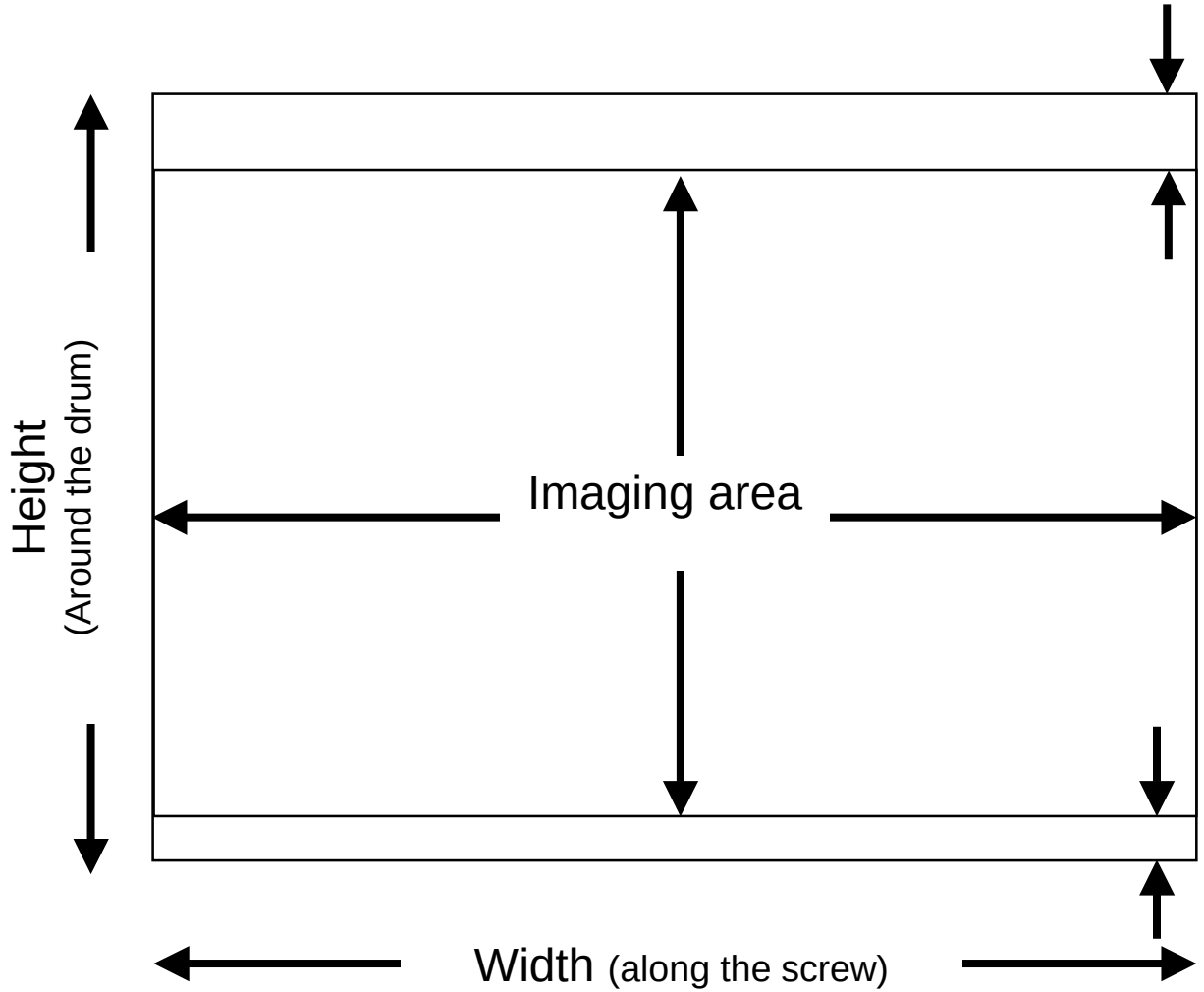


Plate geometry - dimensions

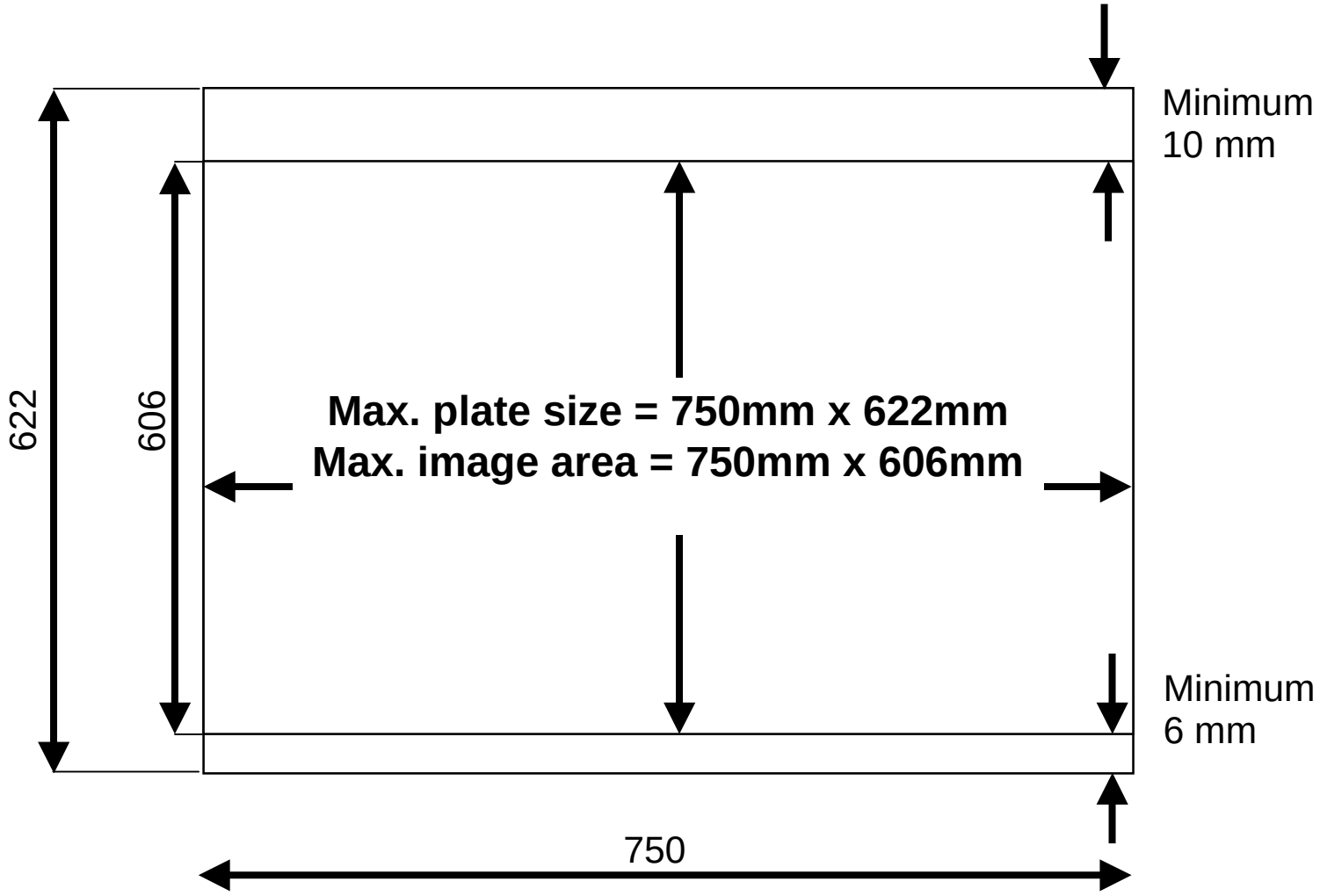
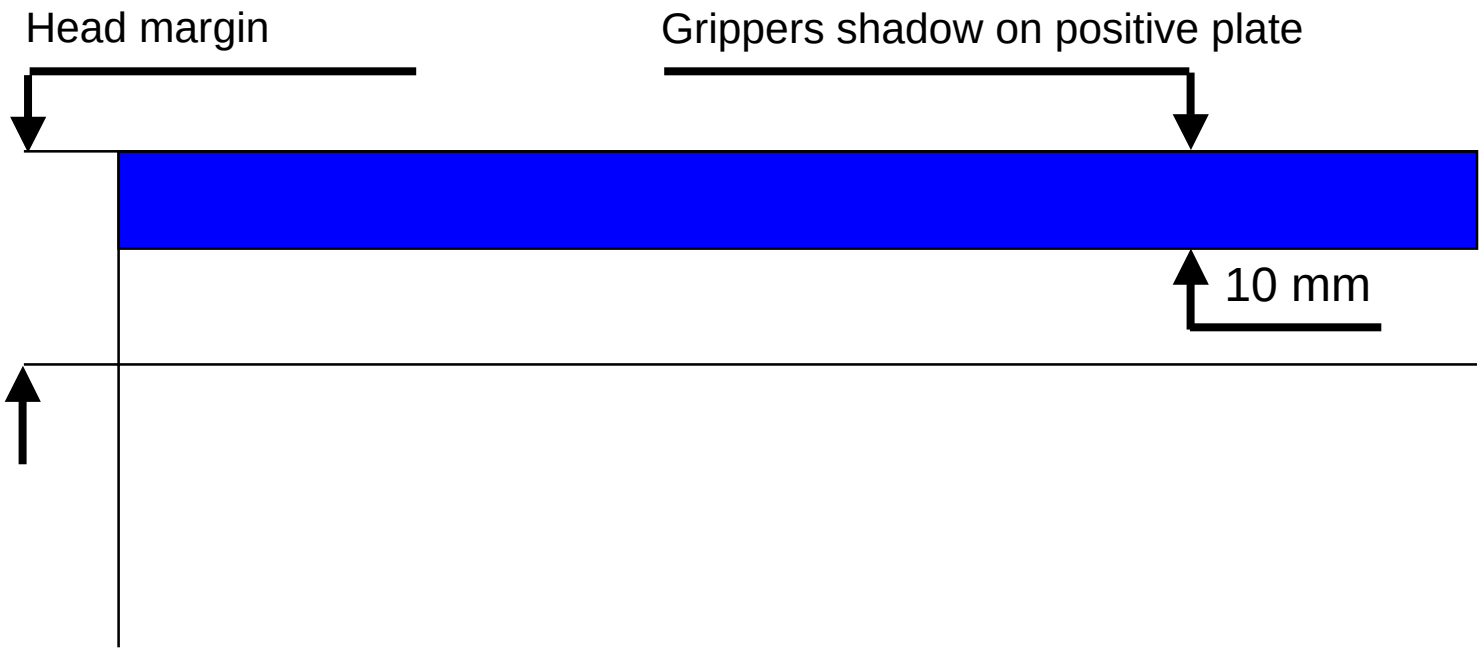
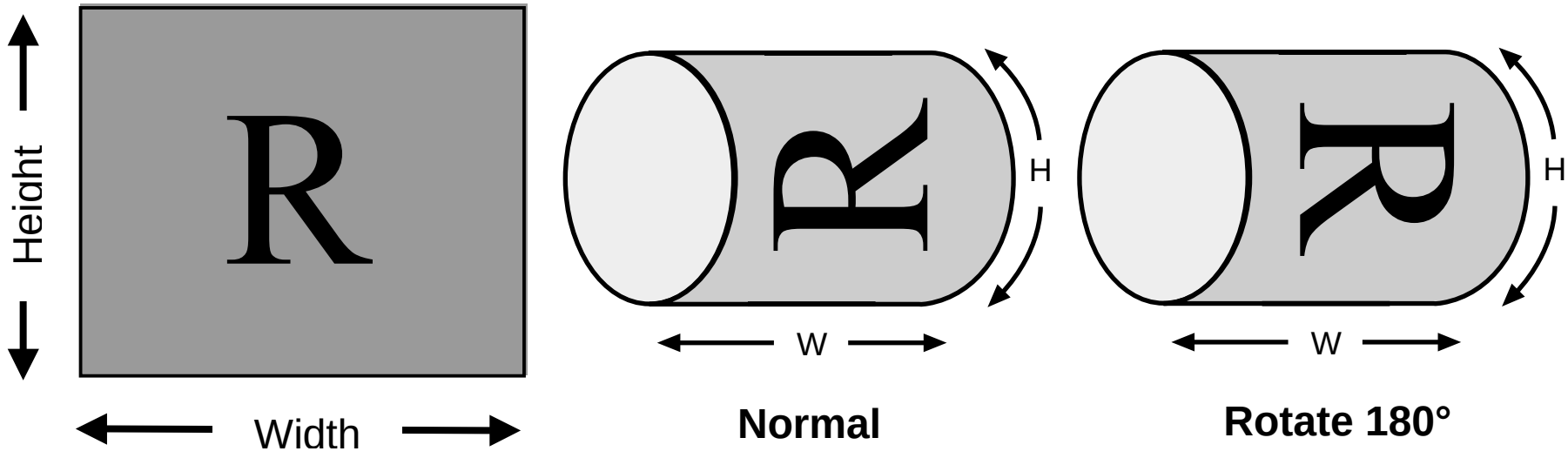


Plate geometry - head margin



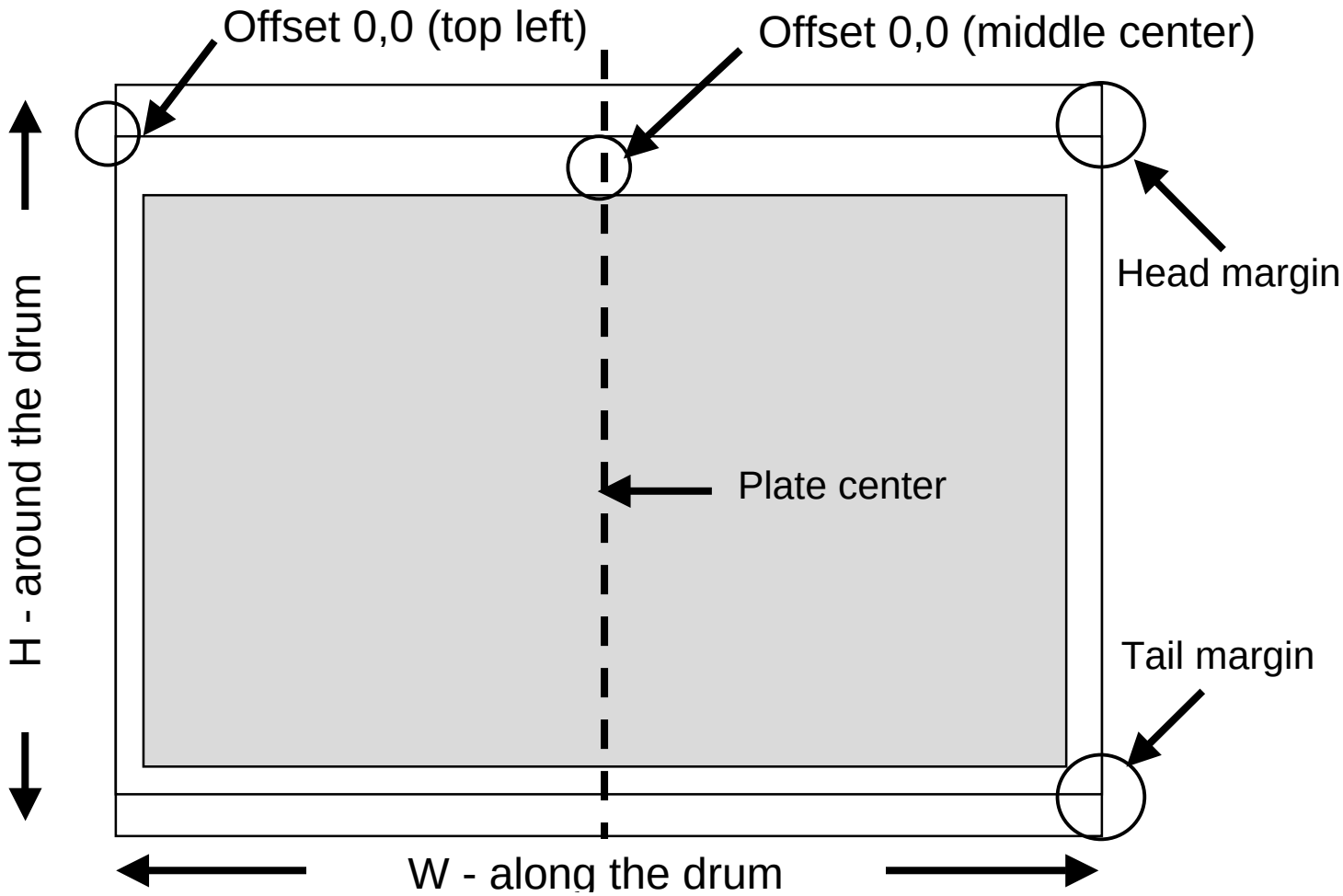
Drum orientation



Job on Brisque

Job on PlateSetter

Image offset



Negative exposure

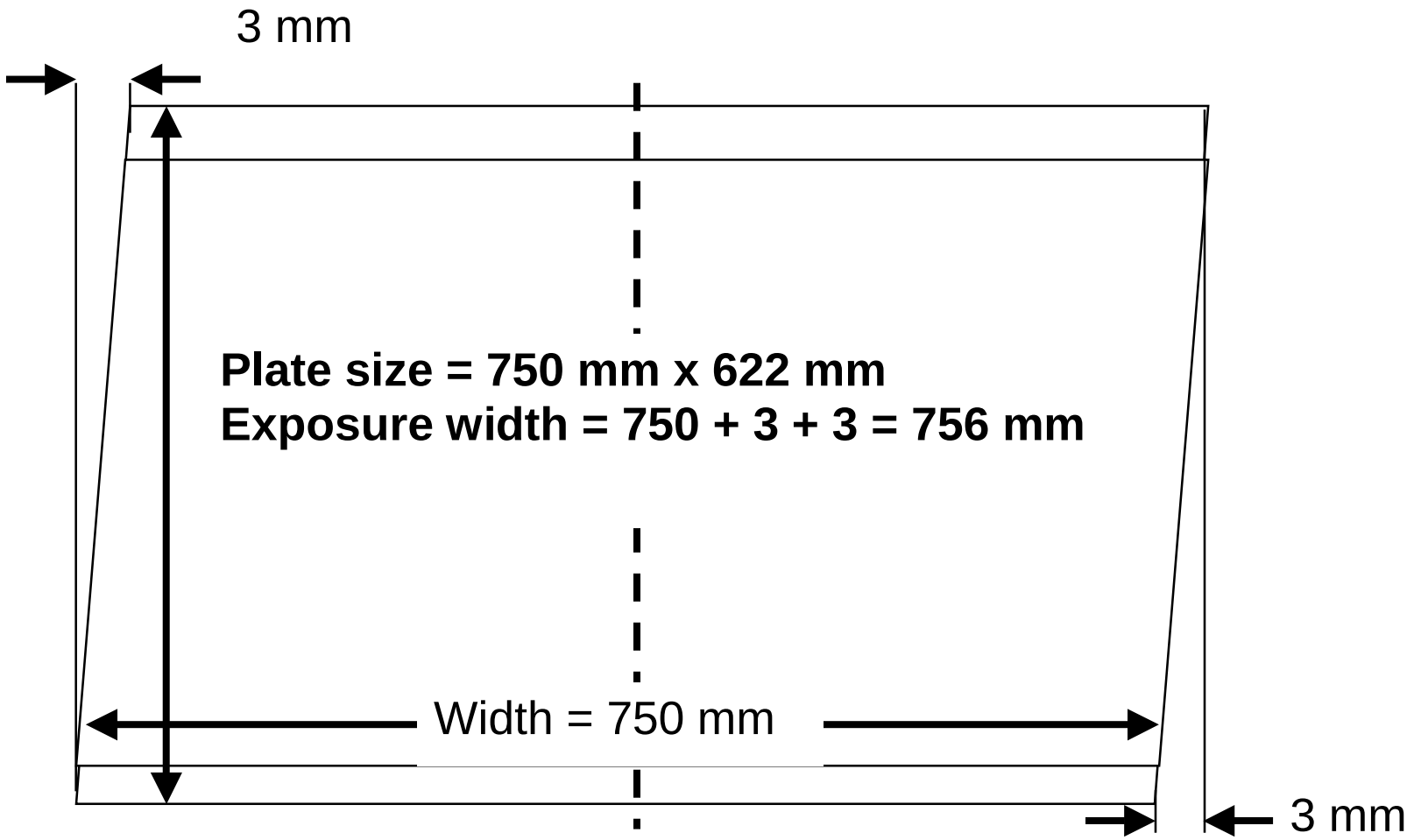
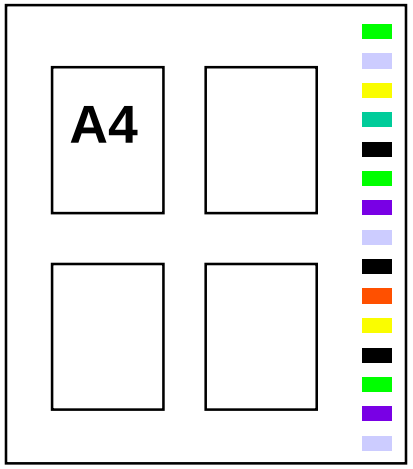
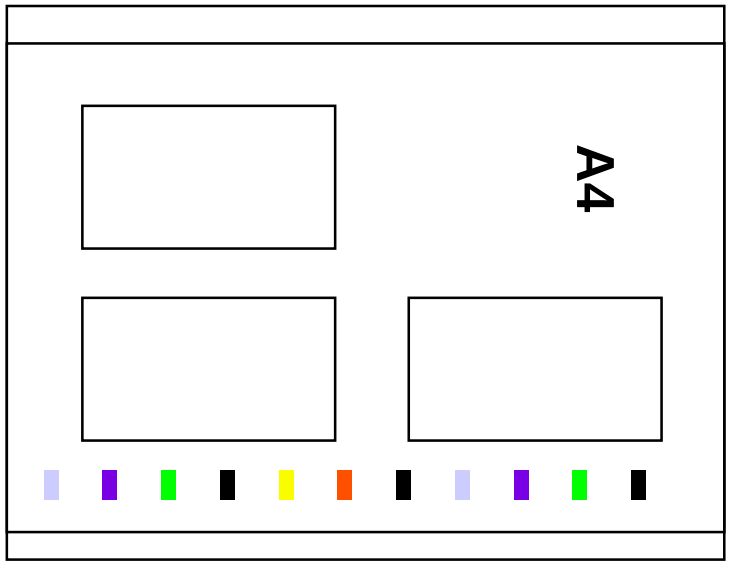


Plate orientation

Brisque Screen



Plate



Brisque Plate

