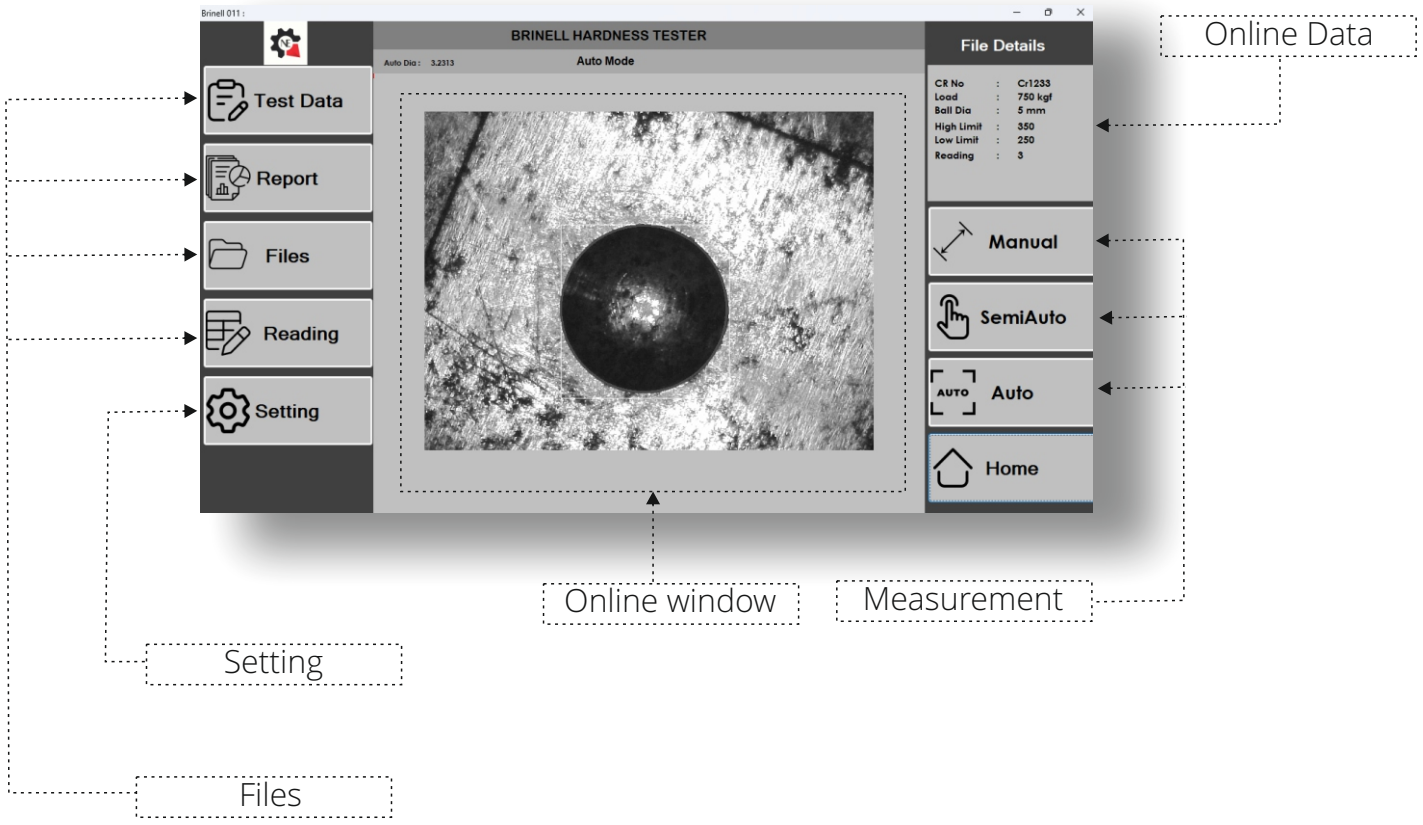
ETS BRINELL


BRINELL HARDNESS TESTER
101.1 HBW 5 / 750
SMTS
Test Data
Report
Files
Reading
Setting
Keypad
File Details
Manual
SemiAuto
Auto
Home

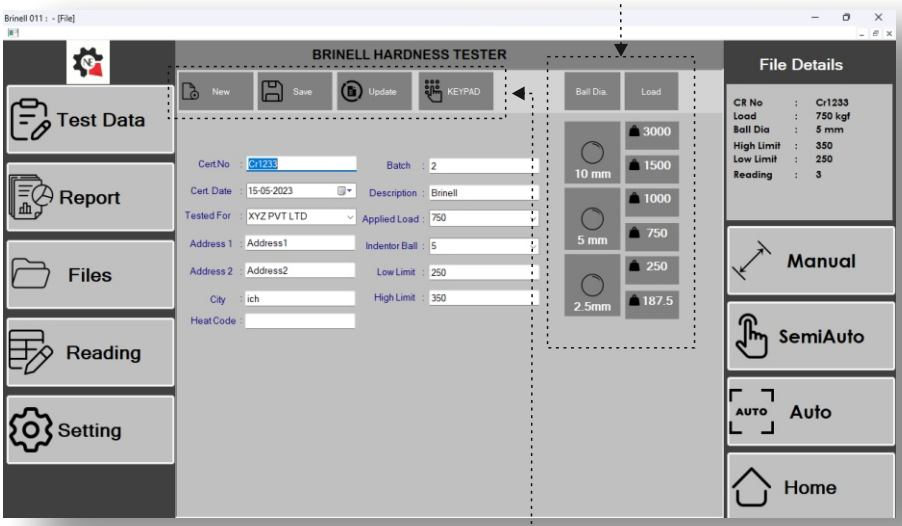
INDEX

1. Main Layout and Religion 3
2. Test Data 4
3. Auto/SemiAuto Mode 5
4. Manual Mode 6
5. Result 7
5. Graph 8
5. Report 9
6. Reading 10
6. Files 11
7. Setting 12
8. Camera 13
9. Calibration 14
10. Company 15
11. Password 16

Main Layout and Religion



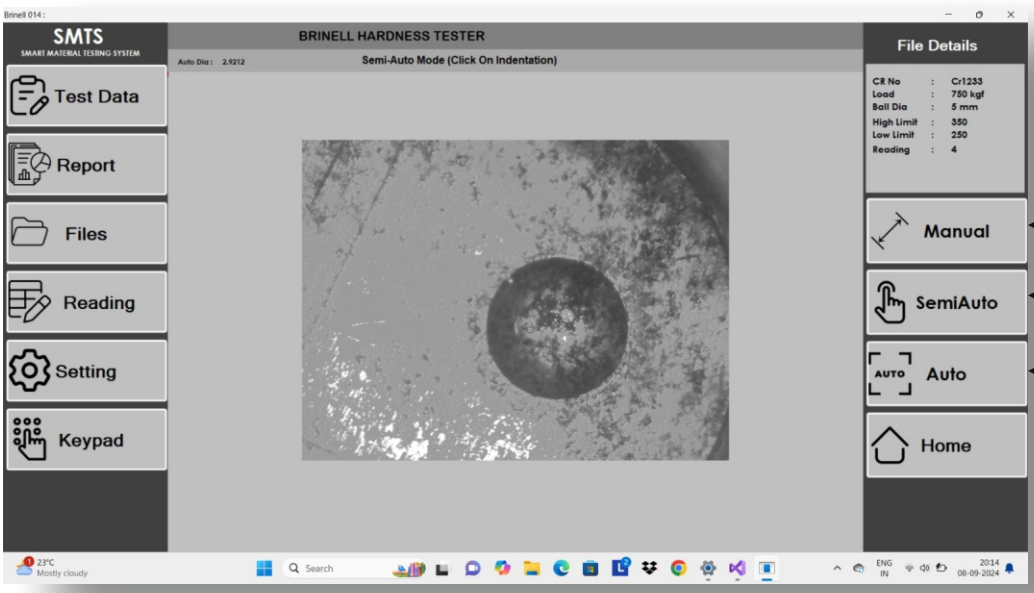
Facility To select “Ball Diameter and Load with Icon”



New : Create a new certificate.
Save : Save a new file.
Update : Update an existing test file.
Keypad : Access a virtual keypad for better navigation.



Auto /Semiauto Mode



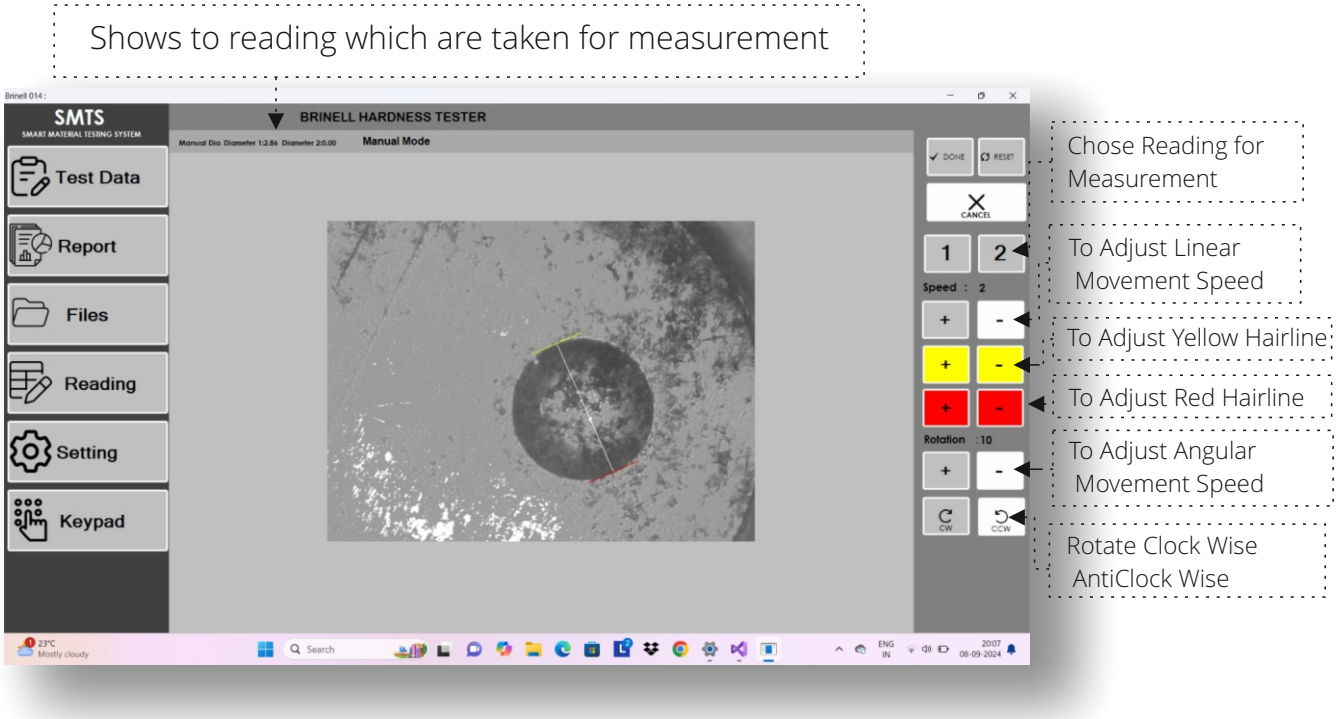
In Measurement tool three option are available

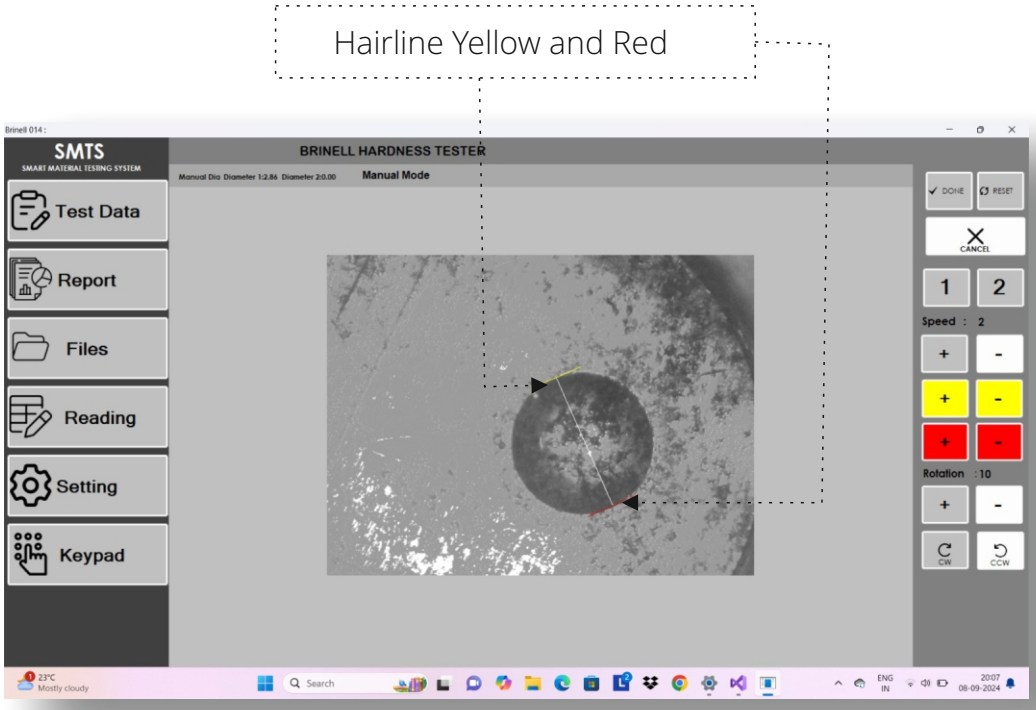
AUTO : If only one Indentation is on screen then use auto option

SemiAuto : If no. of indentations are more then select this option, and click on indentation

Manual : By using hair line tool measurement of any indentation can be carried out

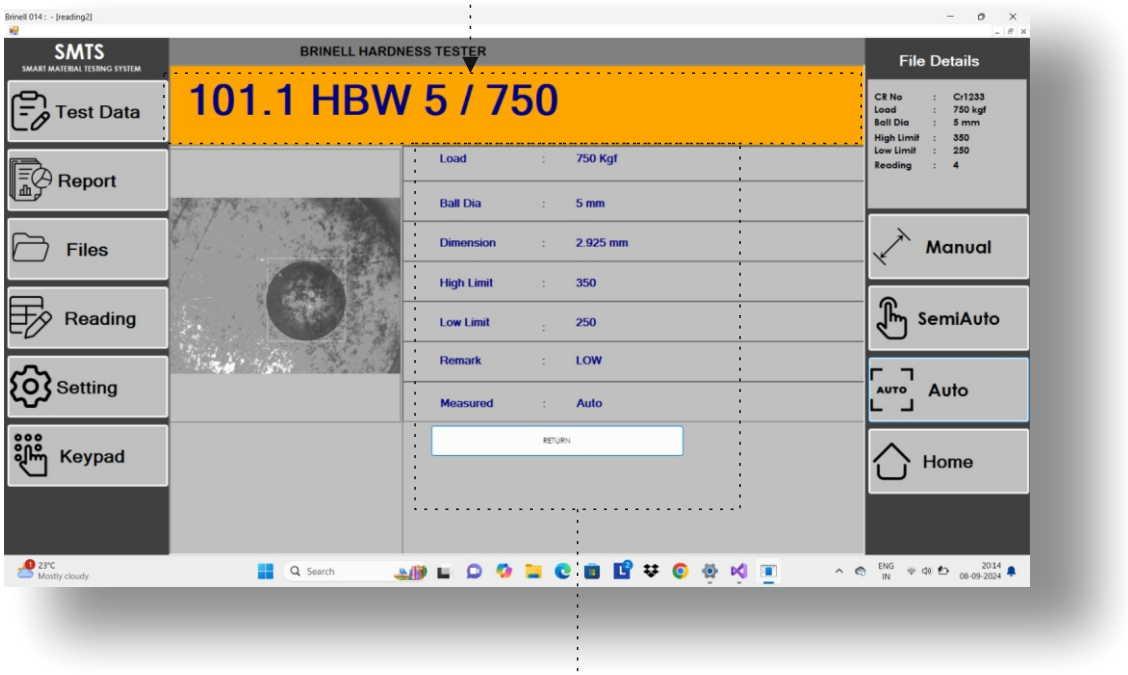
Manual Mode


Shows to reading which are taken for measurement
SMTS
SMART MATERIAL TESTING SYSTEM
BRINELL HARDNESS TESTER
Manual Mode
Test Data
Report
Files
Reading
Setting
Keypad
DONE
RESET
CANCEL
1
2
Speed : 2
Rotation : 10
CW
CCW
Chose Reading for Measurement
To Adjust Linear Movement Speed
To Adjust Yellow Hairline
To Adjust Red Hairline
To Adjust Angular Movement Speed
Rotate Clock Wise AntiClock Wise


Hairline Yellow and Red
SMTS
SMART MATERIAL TESTING SYSTEM
BRINELL HARDNESS TESTER
Manual Mode
Test Data
Report
Files
Reading
Setting
Keypad
DONE
RESET
CANCEL
1
2
Speed : 2
Rotation : 10
CW
CCW

RESULT

Brinell Hardness Number



Test Load : The force or pressure applied during the test to assess the performance or quality of the item being tested.

Test Ball Diameter : The diameter of the ball used in the test.

Dimension : The specific measurements of the item being tested.

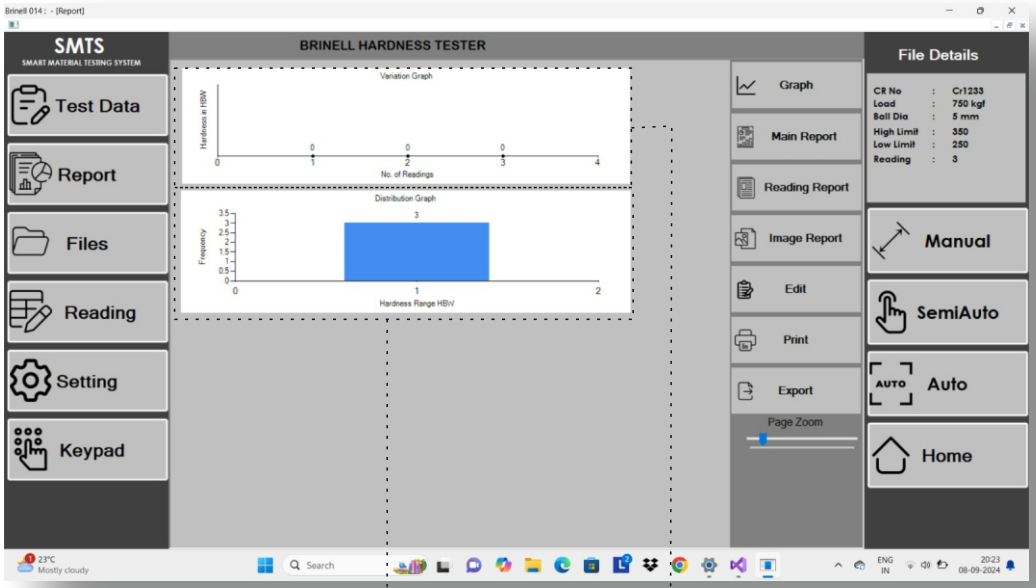
High Limit : The maximum acceptable value for a given measurement or parameter.

Low Limit : The minimum acceptable value for a given measurement or parameter.

Remark : Any additional notes or comments relevant to the test, such as special instructions or observations.

Measurement : Indicates whether the measurement will be taken automatically, semi-automatically, or manually.

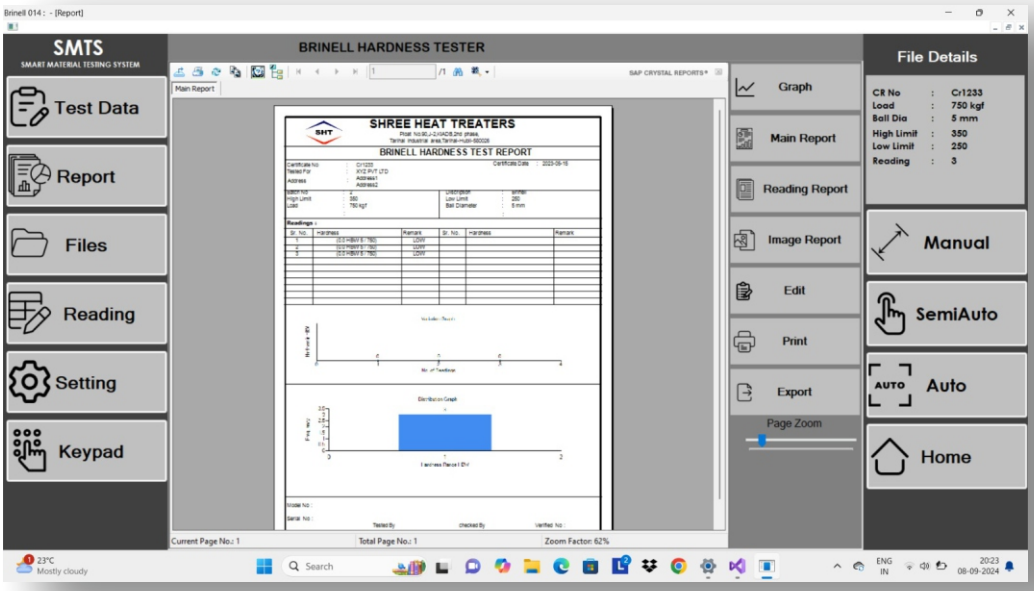
GRAPH



Frequency Graph

Variation Graph

REPORT



Main Report

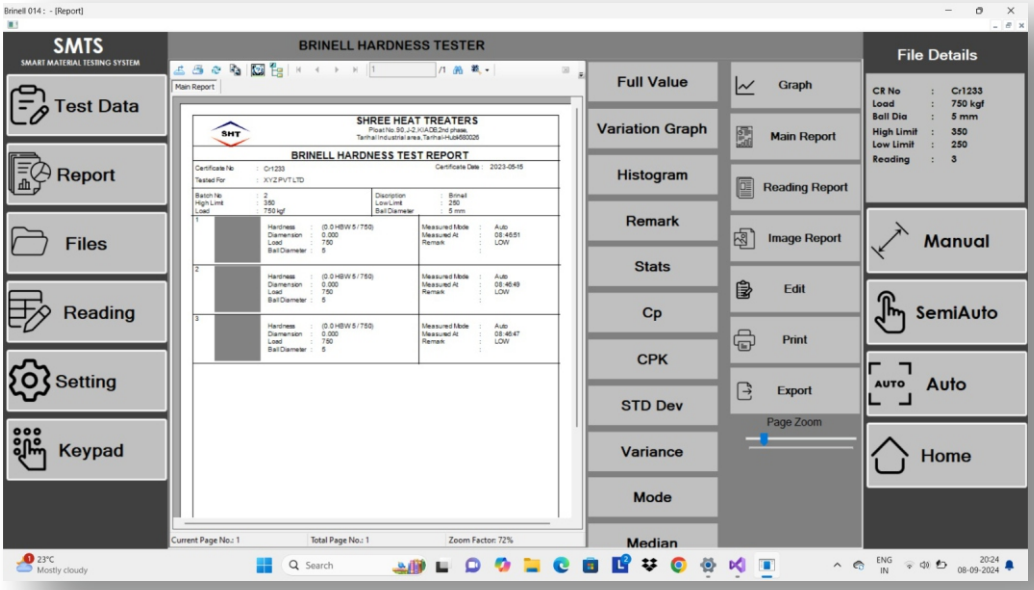
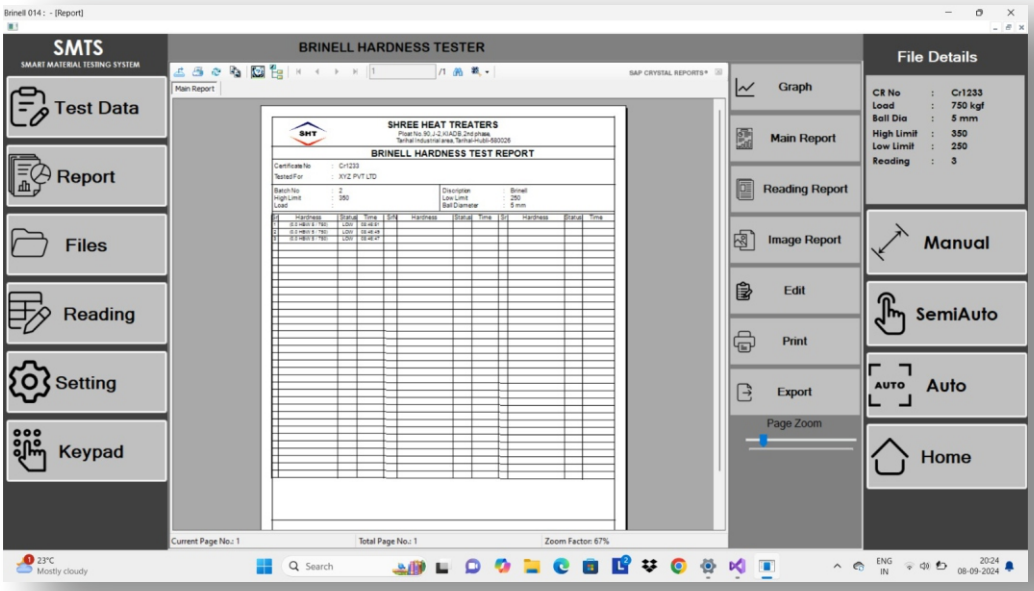


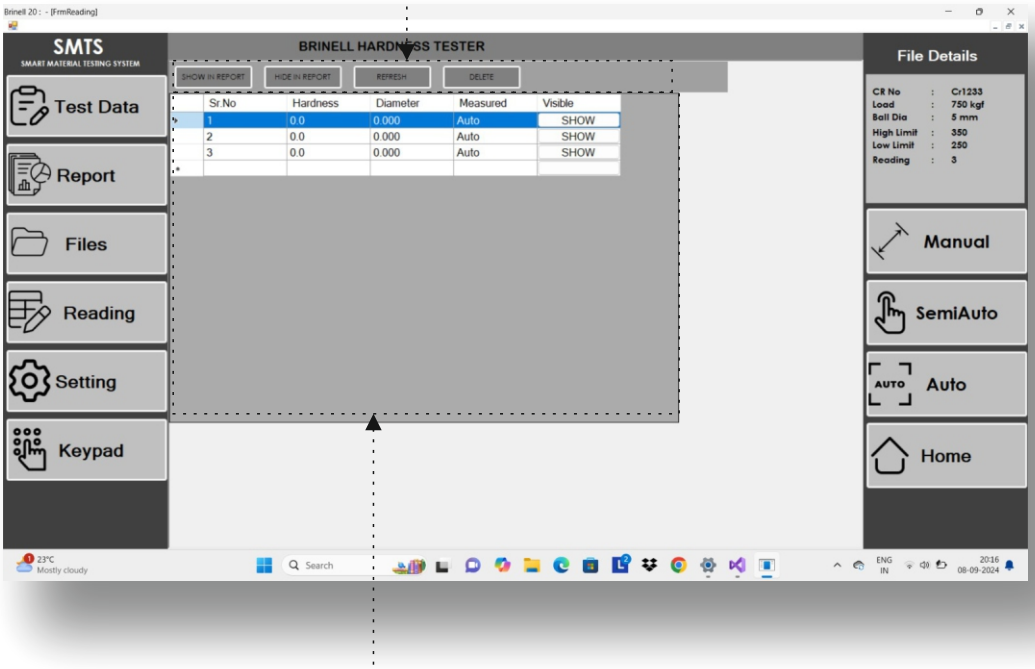
Image Report



Reading Report

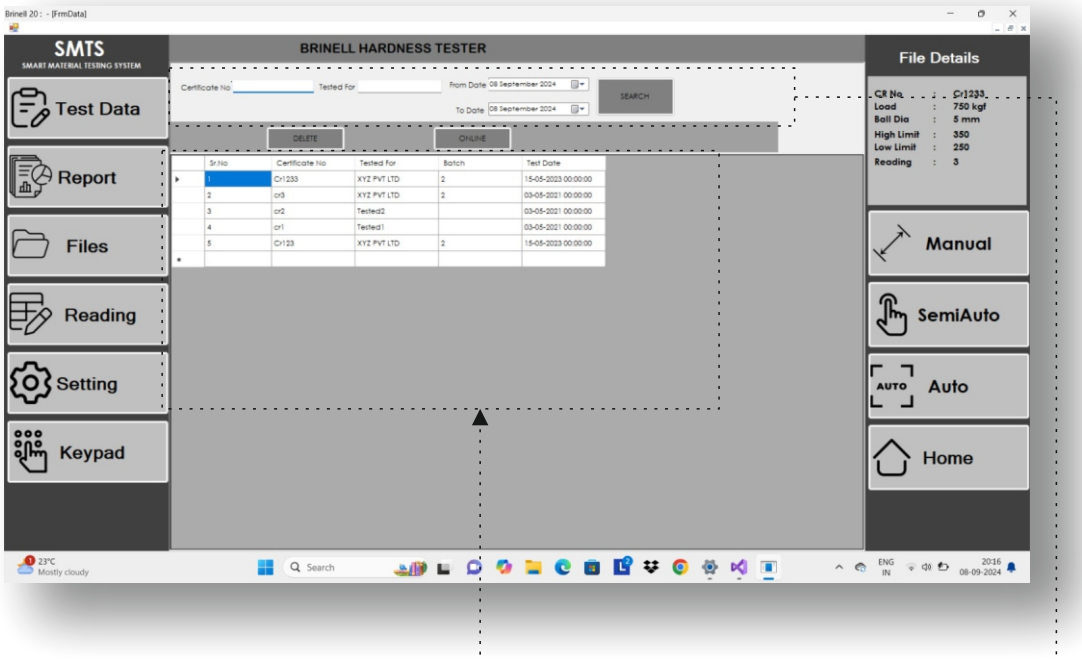
READING

Hide/Show Readings: Toggle to hide or display the list of readings.
Delete Reading: Select a reading and click "Delete" to remove it.



window show all reading taken it certificate no.Details of each reading, including Test Ball Diameter, Dimension, High Limit, Low Limit, and Measurement Method (Auto/Semi-Auto/Manual).

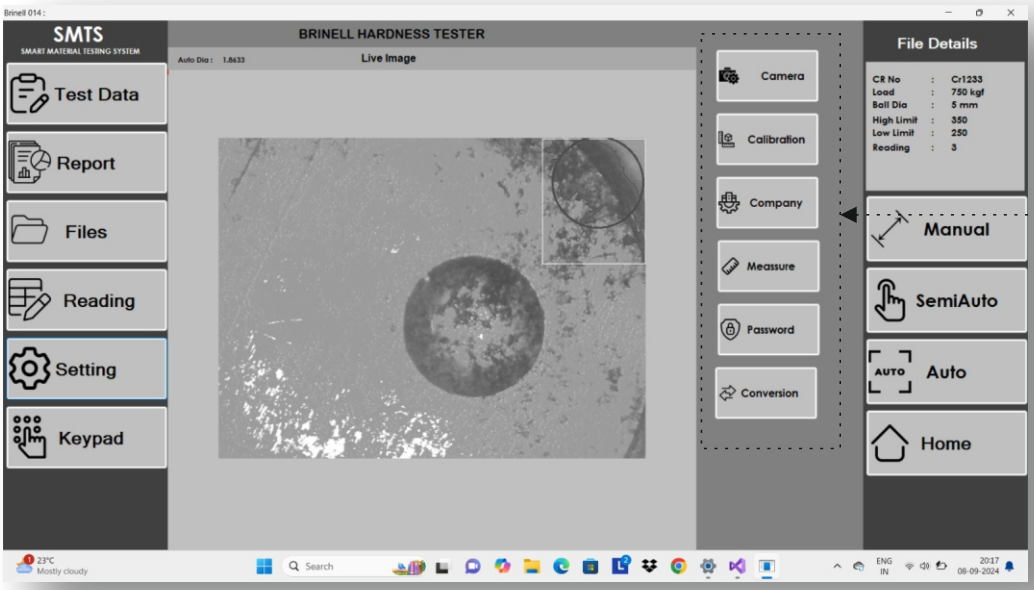
FILES



View, search, and filter historical test certificates

Use the search buttons to filter certificates by test type, certificate number, and date range.

SETTING



Camera Settings : Adjust camera brightness, contrast, and apply adaptation filters to optimize image quality for different conditions.

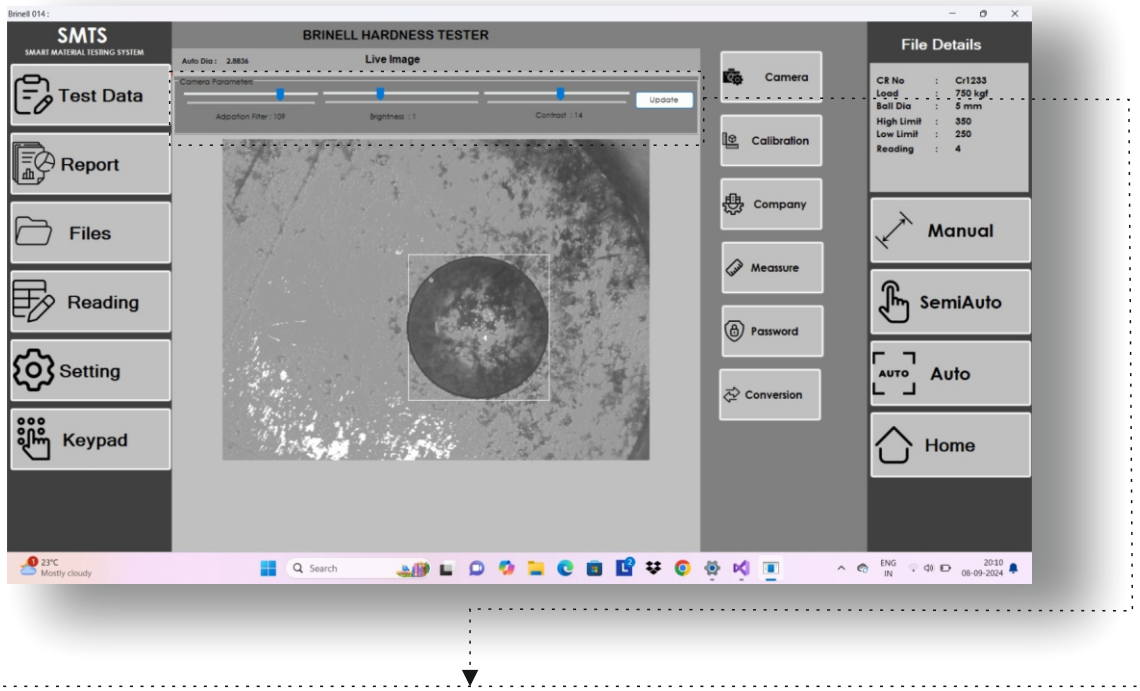
Calibration : Calibrate the camera to ensure accurate measurements and image quality.

Measure : Use this option to measure impressions or other parameters directly through the camera.

Password : Change your password to secure your account and maintain access control.

Conversion : Choose the conversion type for scales such as HV,HRC of measurement .

CAMERA

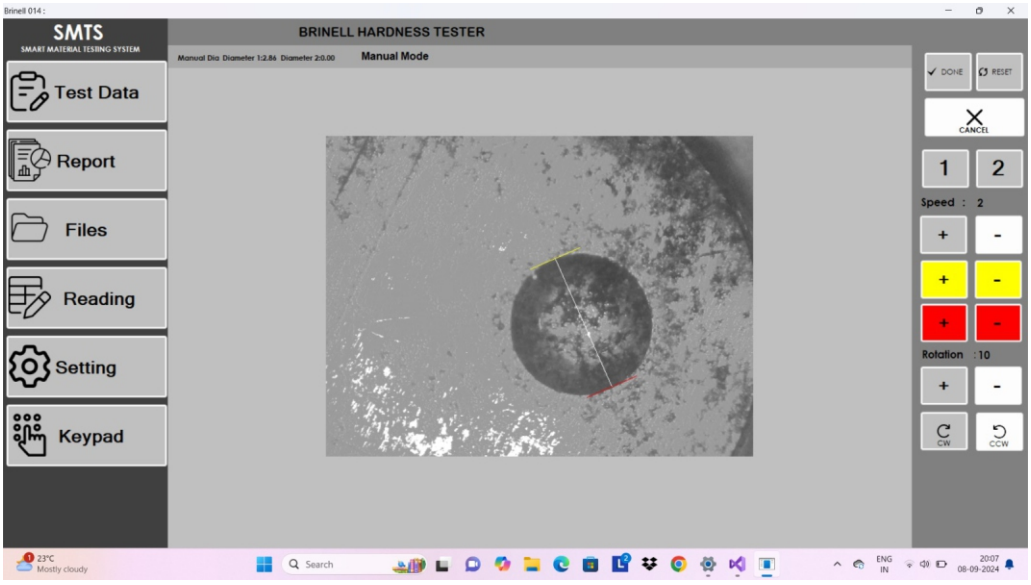


Here's a more detailed explanation of the camera parameters:

Adaptation Filter : Select the appropriate adaptation filter to enhance image processing for better impression selection.

Brightness : Adjust the camera image brightness to improve the clarity and visibility of the results.

Contrast : Modify the contrast of the image to highlight details and improve overall image quality.

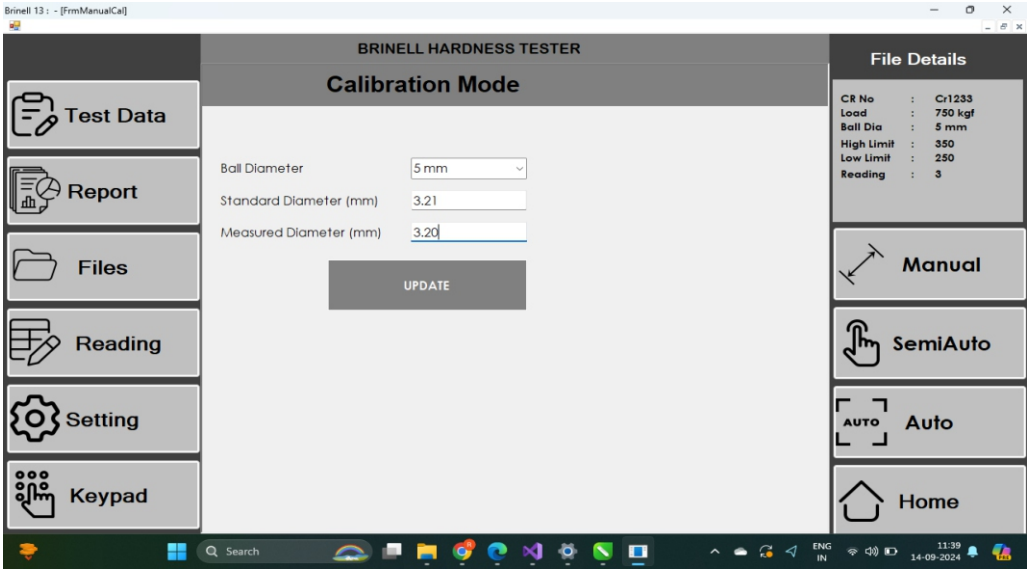


Select Two Hairline Points: Identify and select the two hairline marks.

Measure the Value: Record the measurement between the selected points

.

Click Done: Confirm and save the measurement by clicking "Done."

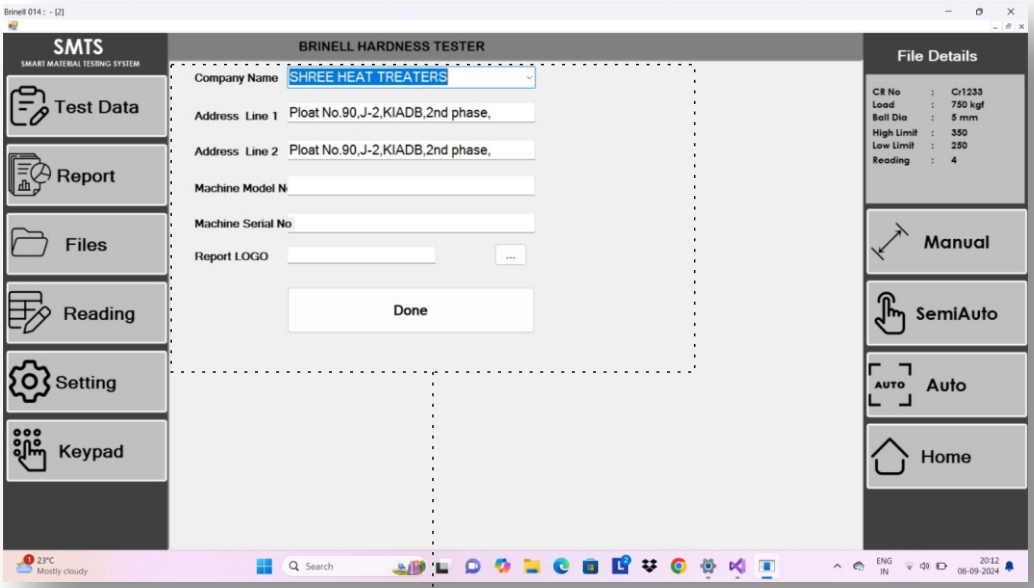


Ball Diameter : Select the ball used for calibration.

Standard Diameter : Enter the standard diameter value for calibration.

Measured Diameter : Input the diameter value measured by the software.

Update Button : Click to update and save the calibration settings.



License Window:

Company Name : Enter the name of the licensing company.

Address : Provide the company's address.

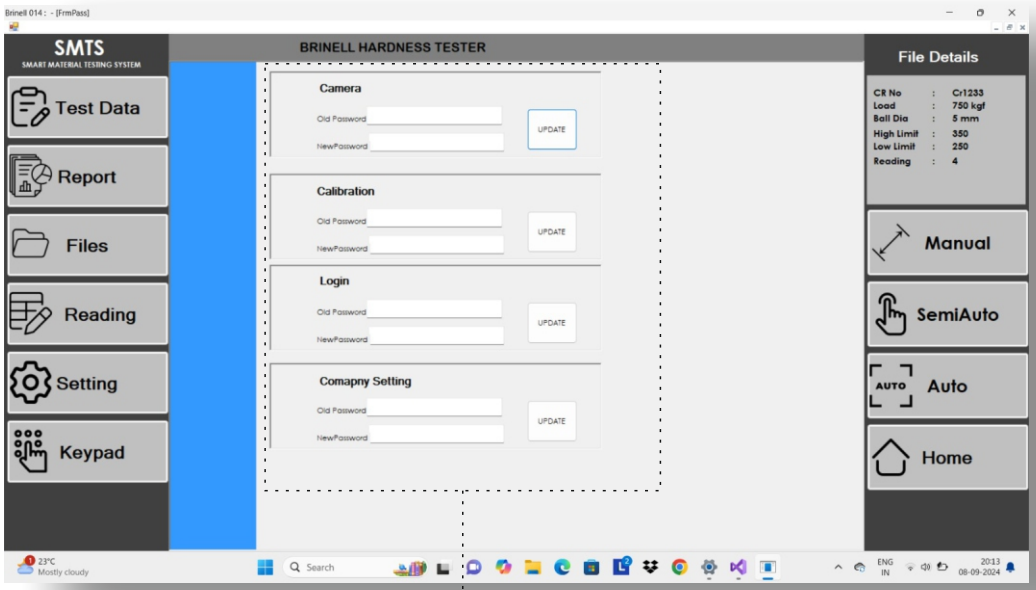
Machine Model No. : Specify the model number of the machine.

Machine Serial No. : Input the serial number of the machine.

Report Logo : Upload and display the company logo.

This window allows users to enter and customize licensing details, including the addition of a logo.

PASSWORD



Password Window

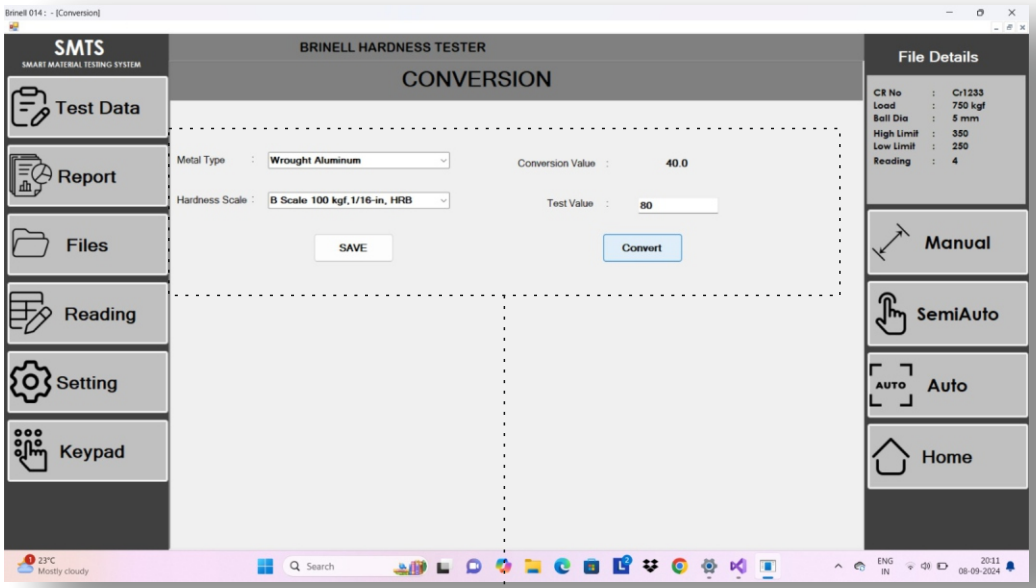
Camera Password : Set a password to secure access to camera settings.

Calibration Password : Set a password to control access to camera calibration functions.

Login Password : Create a password for logging into the system.

Company Password : Set a password for managing company-specific settings and information.

CONVERSION



Brinell Hardness Conversion

Material Type : Select the type of material for accurate hardness conversion.

Conversion Scale : Choose the appropriate ASTM standard conversion scale for Brinell hardness testing..