

Batch Capture

Instruction Manual

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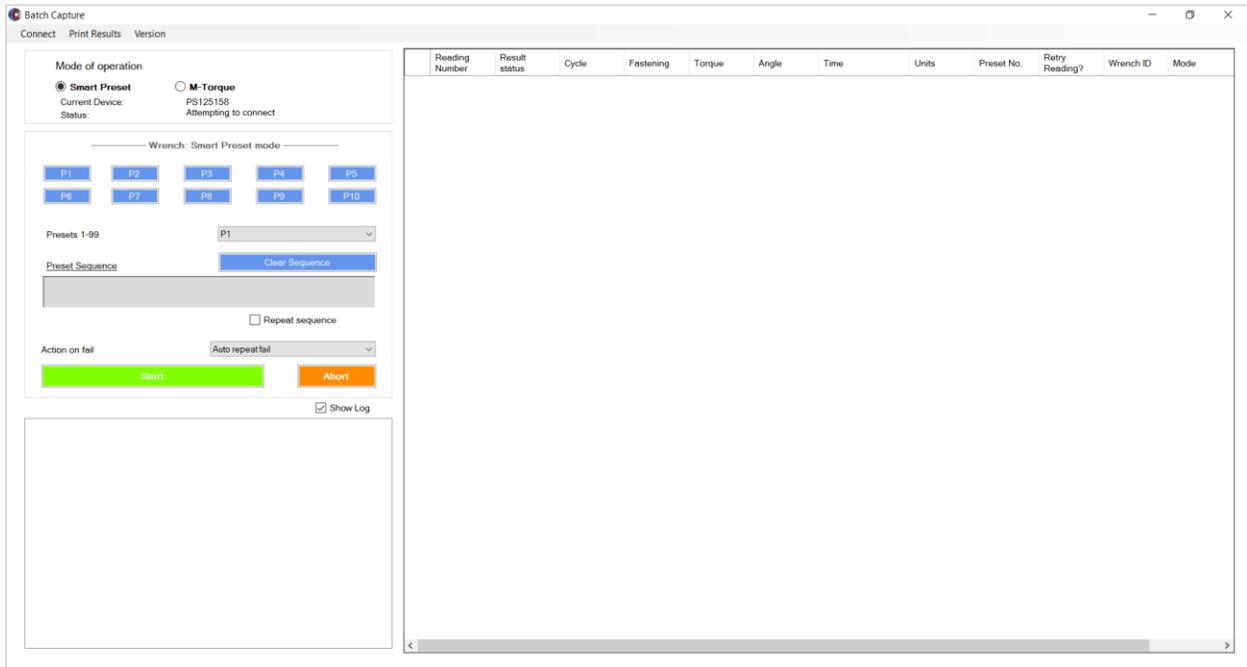
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1 Batch Capture Installation

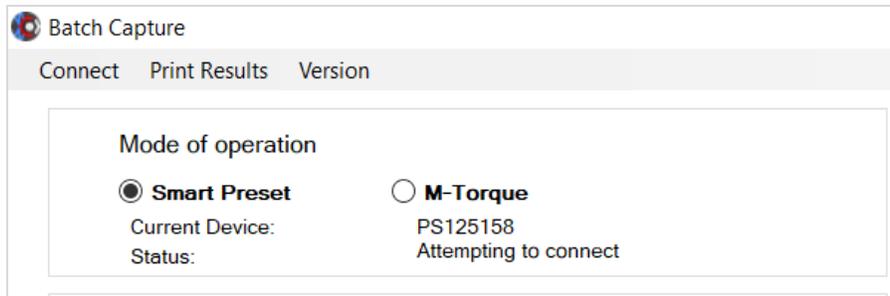
1. To install batch capture, run “BatchCaptureInstaller.exe” and follow the on screen Instructions.
2. “BatchCaptureInstaller.exe” is configured to automatically install all necessary dependencies. This may take a few minutes.
3. Once the installation is complete, a desktop icon will appear on the desktop.

Note: If an error occurs during install, check for older versions of “batch capture” or “WheelTorque” in “add or remove programs” under PC system settings and uninstall them.

2 Batch Capture User Interface explained



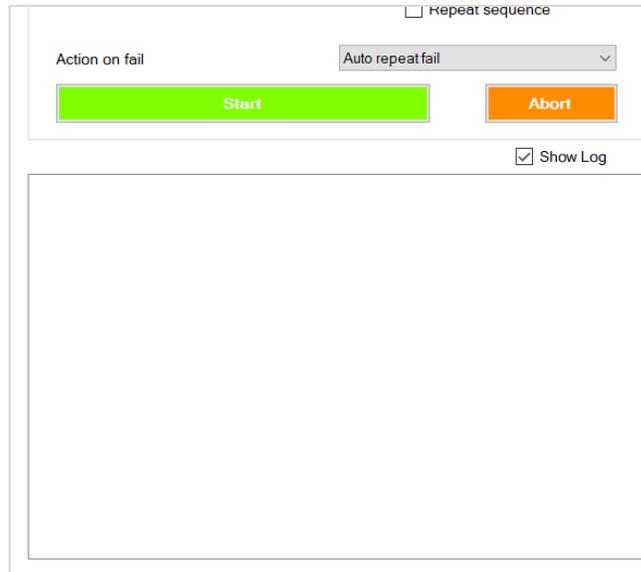
2.1 Menu bar



1. **Connect:** Allows users to connect to new or existing tool.
2. **Print Results**
 - i. **Print:** All results in the results table are printed.
 - ii. **Print setup:** Set the print layout and printer to use.
 - iii. **Save to File:** Save results table to a .csv file.
3. **Version:** Shows the current installed version of the batch capture.
4. **Smart Preset:** In this mode the supervisor can select a sequence of presets or queue a batch of up to 10 Presets, the torque information is taken from the associated preset that is configured on the tool.
5. **M-Torque:** In this mode the supervisor sends all the fastening information to the tool.

6. **Current device:** The current/most recently connected tool's name is displayed here.
7. **Status:** If the current device is sending and receiving Bluetooth transmissions.

2.2 Tool Status



The screenshot shows a control panel for a tool. At the top right, there is a checkbox labeled "Repeat sequence" which is currently unchecked. Below this, on the left, is the text "Action on fail". To its right is a dropdown menu labeled "Auto repeat fail" with a downward arrow. Below these elements are two buttons: a green "Start" button on the left and an orange "Abort" button on the right. At the bottom right of the panel, there is a checked checkbox labeled "Show Log". Below the checkbox is a large, empty rectangular area intended for displaying the log.

1. **Show log:** Show/hide the status message and the communication exchange between batch capture and the tool.

Note: The log window shows messages sent between the wrench and the Batch Capture.

2.3 Results Area

Results are shown in a table on the right hand side of the main batch capture page. All columns can be reordered and resized by clicking and dragging.

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M-Torque

PS125158
Connected

ch: Smart Preset mode

P3
P4
P5

P8
P9
P10

P1

Clear Sequence

Repeat sequence

Auto repeat fail

Abort

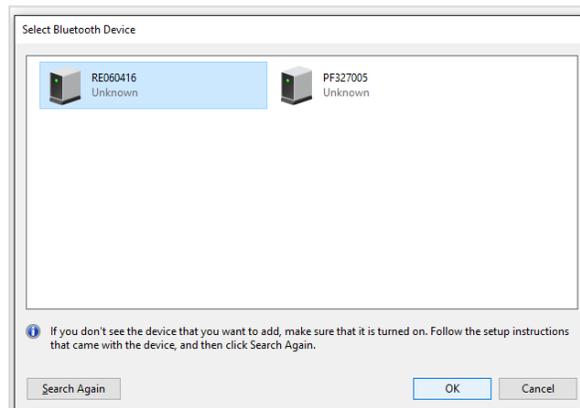
Show Log

Reading Number	Result status	Cycle	Fastening	Torque	Angle	Time	Units	Preset No.	Retry Reading?	Wrench ID	Mode	Job N
1	Success	1	1	29.8	20.0	2018/11/01 ...	Nm	P1	No	PS125158	Smart Preset	
2	Fail	2	1	31.1	16.5	2018/11/01 ...	Nm	P1	Yes	PS125158	Smart Preset	
3	Fail	3	1	32.0	11.5	2018/11/01 ...	Nm	P1	Yes	PS125158	Smart Preset	
4	Fail	4	1	32.0	0.5	2018/11/01 ...	Nm	P1	Yes	PS125158	Smart Preset	
5	Fail	5	1	30.9	7.5	2018/11/01 ...	Nm	P1	Yes	PS125158	Smart Preset	

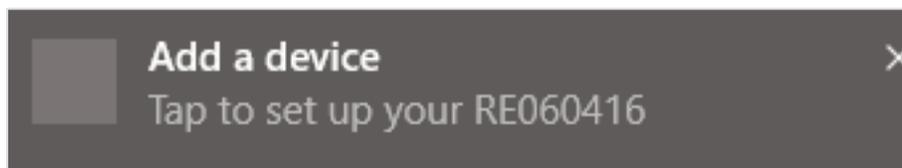
3 Common functionality

3.1 Connecting to a device

1. Open Batch Capture.
2. Ensure Bluetooth is available and active on the host computer.
3. Select “Connect” from the top left corner of the screen.
4. If Bluetooth is enabled on user’s computer, the tool will be discovered within 60 seconds.
5. From the wrench menu select either “Smart preset” or “M-Torque” mode. The Bluetooth identification number of the tool should appear in the Bluetooth device window. Select the tool ID.
6. Click on the “OK” button.



7. Click on the “Add a device” pop-up.



8. If prompted for a password enter “1234”.

Note: A torque tool can only establish a Bluetooth connection to one computer at a time.

Enter the passcode for your device

Enter the passcode for your device



You can find the passcode on your RE060416 or in the info that came with it.

Next Cancel

3.2 M-Torque – Single job

Wrench: M-Torque

Job Name:

Number of Fastenings:

Acceptable Low:

Target Torque:

Acceptable High:

Delete Parameter Save Parameter

Start Abort

1. **Job name:** A name of the job, this will be displayed on the OLED of the tool.
2. **Number of Fastenings:** The number of fastenings for the current job.
3. **Acceptable Low:** The lowest acceptable torque for the current job.

4. **Target Torque:** The optimal or target torque for the job.
5. **Acceptable High:** The highest acceptable torque for the current job.
6. **Delete Parameter:** Delete a saved set of parameters.
7. **Save Parameter:** Save a set of parameters under the name entered in “Job Name” field.
8. **Start:** Send the job configuration to the wrench as defined in the above fields. Note tool must be in m-torque mode.
9. **Abort:** Abort the current tightening that is in progress.

3.3 Smart Preset

Wrench: Smart Preset mode

P1 P2 P3 P4 P5
P6 P7 P8 P9 P10

Presets 1-99 P1

Preset Sequence Clear Sequence

Repeat sequence

Action on fail Auto repeat fail

Start Abort

Show Log

1. **Preset Data:** Ensure the tool is configured with the correct preset data before using the smart preset software.
2. **Preset sequence:** This input box will contain a list of color-coded presets in the format of PX where X is the tool preset number, P1 = Preset 1.
 - RED – Failed tightening
 - Green – passed tightening
 - Yellow – Current tightening
 - Grey/not coloured – Tightening has not yet been sent to device.
3. **Clear sequence:** This will clear the presets listed in the preset sequence input box.
4. **Repeat sequence:** Automatically restart the sequence once all presets in the queue have been completed.
5. **Abort:** Cancel the current job/queue.

6. Action on fail:

- i. **Supervisor control:** The batch capture user must use the on-screen prompt to decide if the tool operator should repeat a failed result or move to next tightening.
 - ii. **Auto repeat fail:** In this mode the tool will automatically repeat any failed preset, until a successful torque application is received.
 - iii. **Repeat sequence:** Proceed to the next preset in the queue if a failed result occurs.
7. **P1, P2 etc. buttons:** “P” represents preset and the number represents the tool’s preset number. Select from the drop down to select a preset number higher than preset 10. Preset information must be configured on the wrench for Smart Preset to function correctly.

3.4 Sequencing a job

1. Connect to the appropriate tool.
2. Select the order of the presets required from the blue buttons labelled “P” and the dropdown if preset numbers higher then preset 10 is required.

Wrench: Smart Preset mode

P1 P2 P3 P4 P5
P6 P7 P8 P9 P10

Presets 1-99 P1

Clear Sequence

Preset Sequence
P1_P2_P1_P1

Repeat sequence

Action on fail Auto repeat fail

Start Abort

Show Log

3. If the sequence needs to be repeated use the checkbox “Repeat sequence”. See “**Action on fail**” for explanation of the options available when a fail is detected.
4. Press the green start button once the correct sequence has been created.

Note: If the preset sequence is edited after start press, the queue indicator while no longer function correctly, however the sequence will still execute.

Batch Capture

Connect Print Results

Choose current mode of operation

Smart Preset **Residual Torque** ?

Current Device: RE060416

Status: BT Connected

Smart Preset mode

Single preset 1

Select preset sequence

P1
P2
P3
P4
P5

P6
P7
P8
P9
P10

Presets 1-99 P1 v

Preset Sequence
P1_P1_P2_P1 Clear

Action on fail Supervisor control v

Repeat sequence

Start
Abort

Show Log

```

15:02:48 RX:$PTRQS,0,0,0*48
15:02:48 TX:$PTRQP,1,"Tire Flange",0
15:02:48 RX:$PTRQW,0,G,-3.80,..Nm*3C
15:02:50 RX:$PTRQS,0,0,0*48
15:02:51 RX:$PTRQS,0,0,0*48
15:02:52 RX:$PTRQS,0,0,0*48
15:02:53 RX:$PTRQS,0,0,0*48
15:02:54 RX:$PTRQS,0,0,0*48
15:02:54 TX:$PTRQP,2,"Tire Flange",0
15:02:54 RX:$PTRQW,0,G,-3.57,..Nm*36
15:02:56 RX:$PTRQS,0,0,0*48
15:02:57 RX:$PTRQS,0,0,0*48
15:02:58 RX:$PTRQS,0,0,0*48
15:02:59 RX:$PTRQS,0,0,0*48

```

	Reading Number	Result status	Cycle	Torque	Just Move Torque
▶	1	Success	1	-3.80	-
	2	Success	1	-3.57	-
	3	Fail	1	-12.10	-

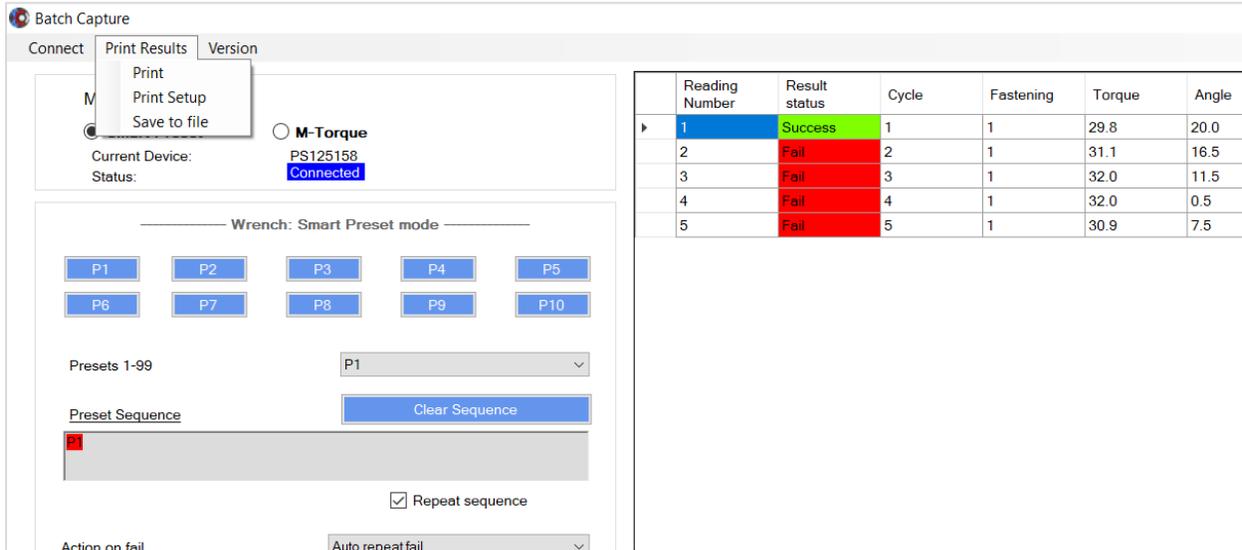
Repeat

Do you wish to repeat the test?

Yes
No

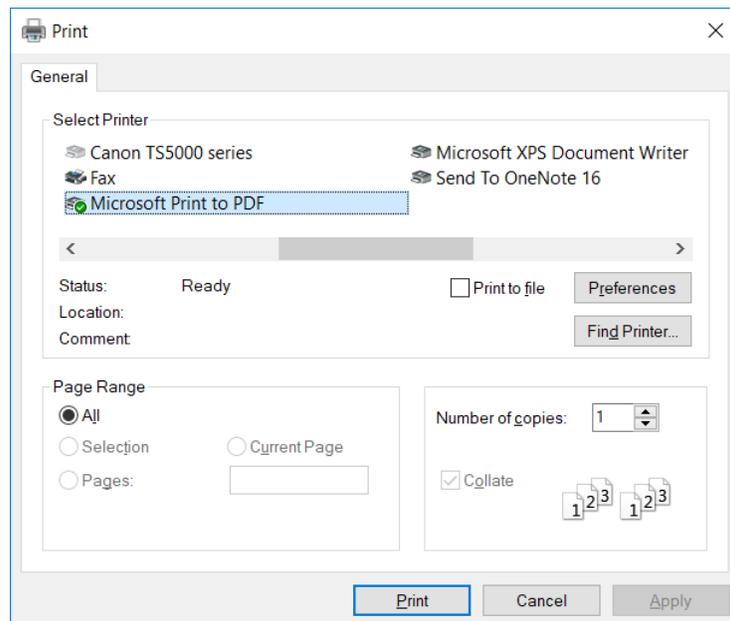
3.5 Results

To save the results displayed from batch capture, select print results and from the dropdown menu select "Save to File".



3.5.1 Printing

Selecting print allows the user to print all results from the batch capture results table.



3.5.2 Save to file

Results can be output to a .csv file via the save to file button. .csv files can be used by most data manipulation tools such as excel.