

INTRODUCTION

This Quick Reference Guide helps the user through a wizard to create a Target 10 Specification using an Oven-CHECKER[™] data run. This can then be used to verify that machine performance is the same in the future.



The OvenCHECKER[™] can only be used with the V-M.O.L.E.® Profiler.

There are two primary modes of operation for the MAP software on the V-M.O.L.E.® Profiler:

- To "Engineer"
- To "Verify"

Using the Engineer mode in the MAP software, you can create a Target 10 specification file from a OvenCHECKER [™] thermal profile. Once this file has been created, it can be used to verify a process along with the V-M.O.L.E.® Profiler OK button.



Create Target 10 File

1) Connect the V-M.O.L.E.® Profiler to the OvenCHECKER[™] Thermocouple bridge.

 Connect the V-M.O.L.E.® Profiler to the computer with the USB cable provided.



3) On the *File* menu, click *New*. The Start dialog box appears with the five workflow wizard options.

Start	
Engineer Fresh Start	Start a new profile by entering oven, assembly, and paste
Tweak Existing	Start a new profile based upon an existing profile
Create T10 Spec	 C create T10 using existing profile € Create T10 using an OvenCHECKER
Verify	Start a new profile by downloading the M.O.L.E. or Wireless RF
Verify Process	Setup a M.O.L.E. to verify a process by pressing the OK button
	Cancel

4) On the **Start** dialog box, select the **Create T10 using an OvenCHECKER** option.

5) Then click the **Create T-10 Spec** command button and the workflow wizard appears.



Current

Completed

Remaining

6) Select the desired V-M.O.L.E.® Profiler from the list box. If a V-M.O.L.E.® Profiler has already been selected during a different process, the software automatically selects the V-M.O.L.E.® Profiler connected to the COM port previously used.



7) Click the Next command button.



8) Select a machine from the drop-down list. If the desired machine does not appear in the list, click the **New** command button to create a new machine.

 Set the machine recipe settings such as Conveyor Speed, Zone Temperatures and Temperature units.



The software includes features to save and load machine recipe setting files (*.OVS) These files are helpful so the user can quickly recall machine information and ensure it is always the same.

10) Click the *Next* command button.

11) Select your process specification by selecting a Paste from the database or previously created Target 10 Specification. If your Paste does not appear in the database list click the New command button to create a new one.

Create Target10 Specificati	an File - OvenCHECKER
Sdect Instrument Sdect Instrument Sdect Instrument Sdechessen Information Period Date Run Bred Date Run Sticker Reads	Process Solektion Process Solektion Process Solektin Process Solektin
	Help << Previous Next>> Firsh Cancel

The OvenCHECKER[™] uses the begin temp, end temp and liquidous temp to measure the initial slope, soak, TAL (time above liquidous), peak parameters from the selected Paste or Target 10 Specification. Then based on the range of the parameters taken from the 3 Oven-CHECKER[™] sensors, automatically calculates the USL (Upper Specification Limits) and LSL (Lower Specification Limits).





When the user selects a paste from the database, they can use the radio buttons below the drop down box to filter the user created pastes from the master paste specifications.

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If the user decides to use a previously created Target 10 Specification, selecting the *Load* command button displays a list of Target 10 Specification Files (***.T10**).

12) After selecting a process specification, clickthe *Next* command button.

13) Verify the instrument status. This dialog box displays the health of the V-M.O.L.E.® Profiler such as battery charge, internal temperature, Oven-CHECKER[™] sensor temperatures and connectivity.



If everything is **OK**, the dialog box displays a **GREEN** sign. If there are any items that may prevent the user from collecting good data, they are highlighted and a **RED** sign is displayed.



14) Click the Next command button.



15) Review the machine settings and click the *Next* command button to continue.

Create Target10 Specification File - OvenCHECKER				
Salet Instance Sal Nachra Information Sal Nachra Information Vraiy Instance Information Perform Dala Run Read Dala Run Schen Readla	1.Tarn on the OvenCHECKER. 2.Prest the RECORD button. 3.Place the OvenCHECKER into the machine. 4.Drice the run is completed, reconnect the instrument to the computer. <u>Inst</u> Rocke			
	Conveyor Speed 19.0 cryinin Conveyor Speed 19.0 cryinin Peccer			
	1 2 3 4 5 6 7 8 9			
	Top 170 160 160 170 180 240 240 102 50			
	Extram 176 108 109 170 180 246 248 102 56			
	Help Cancel Revious Next >> Filsh Cancel			

Never permit the V-M.O.L.E.® Profiler to exceed the absolute maximum warranteed internal temperature, as permanent damage may result. The warranty will not cover damage caused by exceeding the maximum specified internal temperature.

16) After the oven stabilizes:

- Press the ON/OFF button.
- Press the *Record* button.
- · Close the thermal barrier.



17) Pass OvenCHECKER[™] through the machine.





It is highly recommended that protective gloves are used when retrieving the thermal barrier from the oven and when opening the thermal barrier.

18) As the V-M.O.L.E.® Profiler and OvenCHECKER[™] emerge from the machine, carry it to a table or flat surface.



If the V-M.O.L.E.® Profiler is removed from the OvenCHECKER[™] before has stopped recording data, the data for the sensors will show as OPEN.

19) Open the thermal barrier and if the *Record LED* is still flashing this means the V-M.O.L.E.® Profiler is still recording and it must be stopped by pressing the *Record* button.

20) Remove the V-M.O.L.E.® Profiler from the thermal barrier. Handle it carefully, as the case may still be warm. Since you are creating a new Target 10 Specification, the OK button on the V-M.O.L.E.® does not need to be pressed at this time as contains an old Target 10 Specification.



21) Connect the V-M.O.L.E.® Profiler to the computer and click the **Next** command button.

22) Select the desired data run and then click the *Next* command button to read the data run from the V-M.O.L.E.® Profiler.





On this step of the wizard, the user has the ability to remove a selected data run from the V-M.O.L.E.® Profiler by either selecting the **Delete After Reading** check box or selecting the **Delete** command button and removing it before downloading.



23) Once the OvenCHECKER[™] data run is downloaded, review the calculated results of the Target 10 specification. The user can then decide if they wish to accept these or make final modifications to the Slope, Soak, Time Above and/or Peak parameter..





If the user decides to make modifications, click the **Modify Target10** command button and the the Target 10-OK tab is displayed. Make the desired modifications to the Slope, Soak, Time Above and/or Peak parameter specifications. If any of the parameter specifications are changed the **OK** button will inform the user by displaying (**OK Modified**).

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24) Click the **OK** command button on the **Modify Specifications** pallet to accept the specifications or **Cancel** to discard them and return to the workflow wizard.



25) Click the *Finish* command button and the software prompts the user to save the Target 10 Specification file (***.T10**).





26) When finished naming the file, click the **Save** command button to complete the workflow wizard. This step saves both the Target 10 Specification file (***.T10**) and the downloaded data run M.O.L.E.® MAP and is displayed on the Target10-OK tab.





This OvenCHECKER[™] Target 10 Specification can now be used to verify that your machine performance is the same in the future.





North America, South America, Europe ECD World Headquarters 4287-B S.E. International Way Milwaukie, Oregon 97222-8825 U.S.A. Tel: +(1) 503-659-6100 or 1-800-323-4548 Fax: +(1) 503-659-4422 E-mail: ecd@ecd.com, ecd.europe@ecd.com

Asia/China ECD Asia/Pacific Covent Garden Post Office P.O. Box 93 Singapore 911634 Phone: +65 9692 6822 Fax: +65 6241 9890 E-mail: ecd.asia@ecd.com

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A49-2435-16

Rev-1.1