



RTP 33[®] Tablet Press IQ/OQ



We don't just sell machines—we provide service.

LFA Signature Identification



Prepared by	Name	Title	Date
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Approved by	Name	Title	Date
Manufacturing			
Engineering			
Quality			

Comments:	 	 	 	
Reviewed By:			1	Date

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Purpose and Background

The purpose of this Installation Qualification (IQ)/Operational Qualification (OQ) Protocol is to establish documented evidence that the RTP 33® and its ancillary systems have been installed according to the system specifications, have been configured per applicable manufacturer's recommendations, design specifications, and process requirements, and performs the intended functions as specified in the protocol.

Scope

Equipment

This IQ/OQ Protocol applies to the following equipment:

Items	System Information
URS Reference	N/A
Factory Acceptance Testing (FAT) Reference	
Project Master Validation Plan Number	N/A
Site Master Validation Plan Number	N/A
Equipment Name/Description	RTP 33/Rotary Tablet Press
Manufacturer	LFA Machines
Model Number	1
Serial Number	
Equipment ID Number or Asset Number	
Previous Qualification/Validation Number(s) (if applicable)	N/A
Is system new, modified, moved, periodic review, or revalidation?	
If revalidation, attach necessary change control document(s) and record attachment number. Provide reason for revalidation.	

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System Requirements

This IQ/OQ Protocol applies to the following system requirements:

System Requirement	Target
Output Speed Target	118,800 tablets per hour
Availability	90% (10% of potential availability taken up by cleaning, maintenance, etc.)
Quality Rate	+/-5% accuracy on tablet weight and hardness
Overall Equipment Effectiveness (OEE)	90-95%
Crew Target	1 person

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Responsibilities

The table below displays information regarding the individuals involved in developing this qualification protocol.

Department/Individual	Responsibilities
Validation Author	 Develops the process validation plan, protocol, and report. Confirms accuracy and completeness of the validation and qualification deliverables.
Validation Project Leader	 Defines validation and qualification deliverables (i.e., process validation plan, protocol, and report, project monitoring, protocol execution). Acquires inputs from any needed technical experts to determine the activities appropriate to the validation. Identifies the resources required to conduct the validation.
Technical Representative	 Provides knowledge with regard to the equipment/process/ product undergoing validation and qualification. Provides assistance to the Validation Project Leader with respect to the technical aspects of the equipment/process/ product. Provides help with study designs, acceptance criteria, and statistical analysis, as necessary.
Quality Assurance/Quality Management	 Reviews and approves validation and qualification documentation. Ensures that each document is complete, accurate, and compliant with applicable validation requirements. Reviews and approves deficiencies that occur during validation.

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General Requirements

Completion of Installation Qualification (IQ) and Operational Qualification (OQ) shall be governed by the following general guidelines:

- Prior to starting any test case, the individual(s) involved in the test execution shall be trained on both the protocol and applicable procedure(s) required to execute the test cases.
- Except for the protocol approvers, each person who performs or reviews any section of tests within this document must complete the Signature Identification sheet.
- All tests that require the person executing the protocol to make a comparison, calculation or
 a judgment of satisfactory completion, will include a "Pass" or "Fail" column. This section will
 require the person executing the protocol to enter the disposition of each test or test step as
 appropriate.
- Any discrepancy encountered during execution will be documented as a deviation and will
 require analysis to determine the root cause, assessment of deviation risk, and corrective
 action recommendation, including repeat testing as appropriate. The deviation must be
 reviewed and approved prior to completing the associated test case. Each deviation shall
 be sequentially numbered and listed in a supported report log. The corresponding test case
 should reference the related deviation number.
- All test instruments used in the execution of this protocol must have a current calibration
 certification, traceable to NIST or applicable international standards. When the certificates for
 these instruments are held in the quality system (i.e., site calibration program), a verification of
 certification is sufficient. For all other instruments, current calibration must be demonstrated
 through calibration certificates.
- Any comments regarding the test case(s) will be recorded on the data sheets under the "Comments" section.
- The "Reviewed By" signature line will be signed by an independent reviewer who has read the respective test case and agrees with execution and conclusions.
- All supporting documentation and attachments must be identified or labeled with the minimum of the identification number, pagination (page of page), protocol number, and applicable test case(s).

General Acceptance Criteria

- The test case is successful and passes when all test steps meet the acceptance criteria.
- Successful completion of the protocol is achieved when all test cases have been successfully completed and all deviations resolved.

Comments:	
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Codes and Abbreviations

Code	Meaning
amps	Amperes
CE	Certification mark that indicates conformity with health, safety, and environmental protection standards sold within the European Economic Area
°C	Degree centigrade
Dev No.	Deviancy number
IQ	Installation Qualification
kg	Kilogram
kN	Kilonewton
mm	Millimeter
NIST	National Institute of Standards and Technology
Nm	Newton meter
OQ	Operational Qualification
PPE	Personal protective equipment
RH	Relative humidity
RTP®	LFA registered trademarked term meaning rotary tablet press

Comments:	
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Equipment and Process Description

RTP 33[®] Process

The basic mechanism of the RTP 33[®] involves filling the Tooling (Die, Upper Punch, and Lower Punch) with powder, compressing the powder, and ejecting the tablet.

Filling the Tooling with Powder

The dry materials are poured into the Hopper, which funnels the powder into the Fill Tray. As the machine operates, the Turret moves, which causes the Upper Punches to withdraw from the Dies. During this process, powder is moved by the Turret and is guided into the Die Bores by the Fill Tray.

Compressing the Powder

After the Die Bore is filled with powder, the Upper Punches are driven into the Dies. The Upper and Lower Punches then compress the powder under high pressure.

Ejecting the Tablet

After both punches compress the powder into a tablet, the Upper Tooling is withdrawn and the tablet is then pushed out of the Die Bore by the Lower Punch. Once the tablet has been ejected out of the Die Bore, it is slid out of the way by the Fill Tray's Take-Off Blade to prepare for the next tablet compression.

Comments:	
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Test Equipment

Equipment	Serial Number	Calibration Certificate Number	Calibration Date	Initial and Date
Compact force gauge				
Calipers				
Graduated steel ruler				
Indoor thermometer				
Hygrometer				
Multimeter				
Belt tension gauge				

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TEST No. TDD01		PACKING LIST							
Purpose o	Purpose of Test								
To confirm	the	presence	of the packing list with the appro	priate information.					
Method									
1	Lo	cate packin	g list with the shipping container.						
2	ı	nfirm the pa	ackage list includes description og ght.	f products, quantity, net weight,					
Results									
Test			Acceptance Criteria	Pass/Fail					
1		Description	n of products is present.						
2		Quantity of	products is present.						
3 Net weight		Net weight	of shipment is present.						
4 Gross weight of shipment is present.									
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)					

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TEST No. TDD02		QUALIFICATION CERTIFICATE							
Purpose of Test									
To confirm	To confirm the presence of CE qualification certificate.								
Method									
1	Ins	pect the CE	certification.						
2	Со	nfirm signat	ure of authorized LFA personnel.						
Results									
Test			Acceptance Criteria	Pass/Fail					
1		CE qualific	ation certificate is complete.						
2	Signature of authorized LFA personnel is present.		of authorized LFA personnel is						
Result Dev No. Completed I		Completed by (Initial/Date)	Verified by (Initial/Date)						

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TEST No. TDD03		FACTORY ACCEPTANCE TEST REPORT AND QUALITY CONTROL CHECKLIST						
Purpose of Test								
To confirm the presence of factory acceptance test (FAT) report.								
Method								
1	Ins	pect the FA	T report.					
2	Со	onfirm quality control checklist from LFA Taiwan location is included.						
Results								
Test			Acceptance Criteria	Pass/Fail				
1		FAT report	is complete.					
Quality control location is control		_	ntrol checklist from LFA Taiwan complete.					
Result D		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)				

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TEST No. RT3D01	MATERIAL CERTIFICATE				
Purpose o	of Te	est			
To confirm	the	presence	of materials certificate.		
Method					
1	Poi	nt of contac	ct materials are certified by third	party.	
2	Со	nfirm materi	ials are accurate to LFA standard	l.	
Results					
Test			Acceptance Criteria	Pass/Fail	
1		• •	aterial is confirmed to be rainless steel.		
2		Turret mate 250.	erial is confirmed to be cast iron		
3		Fill Tray ma bronze QS	aterial is confirmed to be tin N-6-3.		
4		Tooling is confirmed to be material that user specified.			
5		Ejection Tray material is confirmed to be SUS304 stainless steel.			
6		Fill Tray Scraper and Take-Off Blade are confirmed to be bakelite and copper coat Zn, respectively.			
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)	

Comments:		
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TEST No. TDD05	No. PRODUCT MANUAL					
Purpose o	of Te	est				
To confirm	the	presence	of product manual.			
Method						
Find the RTP 33 [®] product manual at https://www.lfatabletpresses.com/product-data in Product Manuals section.			w.lfatabletpresses.com/			
2	2 Confirm product manual link is accessible.					
Results	Results					
Test A			Acceptance Criteria	Pass/Fail		
1		Product manual PDF is accessible and can be downloaded.				
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)		

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TEST No. TDD06	ELECTRICAL WIRING DIAGRAM					
Purpose o	of Test					
To confirm	the presence	of electrical wiring diagram.				
Method						
1	Find the appropriate product manual at https://www.lfatabletpresses.co product-data in Product Manuals section.					
2	Inspect the electrical wiring diagram in the pro-		duct manual's appendix.			
Results						
Test Acceptance Criteria		Pass/Fail				
1	Electrical wiring diagram is accessible within the manual.					
Result	Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)			

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The objective of Installation Position and Space Qualification is to confirm the space and environmental conditions required for installation and operation.

TEST No. RT3IS01		WORKSPACE SURFACE			
Purpose of	of Te	est			
To confirm by machin		-	e surface accounts for the machi	ne's weight and force exerted	
Method					
1	Ensure workspace surface supports machine's weight of 927 kg (ard lbs).			weight of 927 kg (around 2043	
Ensure the workspace surface supports an additional lbs).		ditional 339 kg (around 747			
Results					
Test		Acceptance Criteria		Pass/Fail	
Workspace surface is sturdy enough to support 1266 kg (around 2790 lbs).					
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)	

Comments:		
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The objective of Installation Position and Space Qualification is to confirm the space and environmental conditions required for installation and operation.

TEST No. TDIS02		WORKSPACE TEMPERATURE			
Purpose o	of To	est			
To confirm	the	workspace	e's temperature levels are accept	able for machine operation.	
Method					
1	Measure the workspace's temperature with an indoor thermometer.				
Results					
Test	Acceptance Criteria Pass/Fail				
1		Workspace temperature measures within 0-40 °C (32-104 °F).			
Result		Dev No. Completed by (Initial/Date)		Verified by (Initial/Date)	

Comments:	
Reviewed By:	Date:



Installation Position and Space Qualification

RTP 33[®] - Serial Number

e objective of Installation Position and Space Qualification is to confirm the space and vironmental conditions required for installation and operation.				
TEST No. TDIS03	No. HUMIDITY			
Purpose of Test				
To confirm the workspace's relative humidity levels are acceptable for machine operation.				
Method				
1 Measure the workspace's humidity with a hygrometer.				ometer.
Results				
Test Acceptance Criteria Pass/Fail			Pass/Fail	
1		Workspace within 20-8	e relative humidity measures 30% RH.	
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)

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TEST No. RT3SM01		LIFTING EQUIPMENT			
Purpose o	Purpose of Test				
To confirm	that	the proper	lifting equipment is available for	mounting the machine.	
Method					
1	Ens	sure forklift and lifting strap are available.			
2		nsure lifting strap supports the machine and does not induce any swinging tilting of the machine.			
Results					
Test		Acceptance Criteria Pass/Fail			
1		Forklift and lifting strap are in position.			
2		Lifting strap is secure and supports the machine's weight in a balanced way.			
Result		Dev No. Completed by (Initial/Date)		Verified by (Initial/Date)	

Comments:	
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TEST No. TDSM03		PERSONAL PROTECTIVE EQUIPMENT			
Purpose o	of To	est			
		er has acce machine o	ss to the following items of persoperation.	onal protective equipment (PPE)	
Method					
1	En	sure protec	tive equipment is on hand before	using the machine.	
Results					
Test			Acceptance Criteria	Pass/Fail	
1		Steel toe boots are in possession.			
2		Heavy duty	grip gloves are in possession.		
3		Back supp	ort belt is in possession.		
4		Safety gog	gles are in possession.		
5		Disposable possession	e latex/rubber gloves are in n.		
6			d/or beard net are in n (if applicable).		
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)	

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Reviewed By:	Date:	





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TEST No. TDSM04		MAX TIGHTENING TORQUE ON BOLTS						
Purpose o	of Te	est						
To confirm	bo	lts on the m	achine are secure.					
Method								
1		e a torque v ts are appr	wrench to ensure the max tighten opriate.	ing torque of major machine				
Results								
Test		Acceptance Criteria		Pass/Fail				
1		Dies' bolts	are 4.3 Nm.					
2		Fill Tray So	craper's screw is 16.2 Nm.					
3		Take-Off B	lade's screw is 4.3 Nm.					
4		Upper Can	n Housing's bolts are 4.3 Nm.					
5		Upper Trac	cking's bolt is 153 Nm.					
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)				

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TEST No. RT3SM05		CORRECT LOCAL VOLTAGE					
Purpose o	Purpose of Test						
To confirm	that	the worksp	pace has the correct local voltage	e for the machine.			
Method							
1	En	Ensure the workspace has the correct voltage.					
Results							
Test	Acceptance Criteria Pass/Fail						
1		Workspace electrics support 220 V/440 V.					
Result		Dev No. Completed by (Initial/Date)		Verified by (Initial/Date)			

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The objective of Equipment Appearance Qualification is to confirm no damage to the machine's appearance during installation.

	NAMEPLATE					
f Te	est					
tha	t the name	plate is securely fixed onto the m	achine and its information is			
Ens	sure that the	e nameplate is securely fitted to t	the machine.			
		-	are pertinent to the operation			
		Acceptance Criteria	Pass/Fail			
	Nameplate	is present.				
	Nameplate	displays machine name.				
	Nameplate	displays version number.				
	Nameplate displays serial number.					
	Nameplate displays voltage and power requirements.					
	Nameplate displays motor type.					
	Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)			
	tha Ens	Ensure that the of the machine Nameplate Nameplate Nameplate Nameplate Nameplate Nameplate Nameplate Nameplate requiremer Nameplate	that the nameplate is securely fixed onto the m Ensure that the nameplate is securely fitted to to the machine. Acceptance Criteria Nameplate is present. Nameplate displays machine name. Nameplate displays version number. Nameplate displays serial number. Nameplate displays voltage and power requirements. Nameplate displays motor type.			

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The objective of Equipment Appearance Qualification is to confirm no damage to the machine's appearance during installation.

TEST No. TDEA02		MACHINE BODY AND WIRING					
Purpose o	Purpose of Test						
To confirm	tha	t the machi	ne has no obvious damage to bo	dy and/or wiring.			
Method							
1		Inspect the machine body for obvious indentations, spots, scratches, cracks, or any other damages.					
2	Ins	nspect the wiring, cables, and electrical box for damage.					
Results							
Test			Acceptance Criteria	Pass/Fail			
1		Machine b	ody has no obvious damage.				
2		Machine's box have n	wiring, cables, and electrical o damage.				
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)			

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TEST No. RT3OQ01		ELECTRICAL OUTPUT LEVELS					
Purpose of Test							
To confirm that the machine's kilowatt, voltage, and ampere levels are correct.							
Method							
1	Use a multimeter to measure the machine for each unit.						
Results							
Test			Acceptance Criteria	Pass/Fail			
1	Maximum kilowatts is 2.2.						
2		Maximum v	olts is 220/440.				
3		Maximum a	amps is 32.				
Result		Dev No. Completed by (Initial/Date)		Verified by (Initial/Date)			

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TEST No. RT3OQ02		MAXIMUM PRESSURE					
Purpose of Test							
To confirm that the machine's maximum pressure level is accurate.							
Method							
1	Remove the Tooling from the press in accordance with product manual instructions (found at https://www.lfatabletpresses.com/product-data).						
2	Use a compact force gauge to record the maximum pressure exerted by Upper Roller Cam.						
Results							
Test	Acceptance Criteria		Acceptance Criteria	Pass/Fail			
1		Maximum pressure produced is 40 kN (0.3 kN tolerance).					
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)			

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TEST No. RT3OQ02		MAXIMUM PRESSURE					
Purpose of Test							
To confirm that the machine's maximum pre-pressure level is accurate.							
Method							
1	Remove the Tooling from the press in accordance with product manual instructions (found at https://www.lfatabletpresses.com/product-data).						
2	Use a compact force gauge to record the maximum pressure exerted by the Pre-Pressure Upper Roller Cam.						
Results							
Test		Acceptance Criteria		Pass/Fail			
1		Maximum pre-pressure produced is 40 kN (0.3 kN tolerance).					
Result		Dev No. Completed by (Initial/Date)		Verified by (Initial/Date)			

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TEST No. RT3OQ03		MAXIMUM TABLET DIAMETER					
Purpose of Test							
To confirm that the machine's maximum tablet diameter is 12 mm.							
Method							
1	Install 12 mm Tooling in press in accordance with product manual instruct (found at https://www.lfatabletpresses.com/product-data).						
2	Produce a test tablet using Firmapress as a control mix (purchase at https://www.lfatabletpresses.com/ready-mix-firmapress).						
3	Ме						
Results							
Test	est Acceptance Criter		Acceptance Criteria	Pass/Fail			
1		Maximum tablet diameter produced is 12 mm (+/-5%).					
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)			

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TEST No. RT3OQ04		MAXIMUM TABLET THICKNESS					
Purpose o	Purpose of Test						
To confirm	tha	t the machir	ne's maximum tablet thickness 6	mm.			
Method							
1	l '	-	to increase tablet thickness in a ound at https://www.lfatabletpres	-			
2	l	Produce a test tablet using Firmapress as a control mix (purchase at https://www.lfatabletpresses.com/ready-mix-firmapress).					
3	Ме	Measure the test tablet with a set of calipers.					
Results							
Test		Acceptance Criteria		Pass/Fail			
1		Maximum tablet thickness produced is 6 mm (+/-5%).					
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)			

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TEST No. RT3OQ05		MAXIMUM FILLING DEPTH				
Purpose of	Te	st				
To confirm	that	the machin	e's maximum fill depth level is 15	5 mm.		
Method						
1			to increase fill depth in accordance and at https://www.lfatabletpres	•		
2	Tur	Turn the Handle until the Lower Punch is fully lowered.				
3	Insert a pipe cleaner (or anything similar that is non-abrasive) into the Die bore.					
4	Ма	Mark the point at which the pipe cleaner meets the Die bore's edge.				
5	Measure the fill depth with a graduated steel ruler.					
Results	Results					
Test		Acceptance Criteria		Pass/Fail		
1		Maximum 1	ill depth is 15 mm (+/-5%).			
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)		

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TEST No. RT3OQ06		MAXIMUM HOURLY TABLET PRODUCTION					
Purpose of	Purpose of Test						
	To confirm that the machine's maximum hourly tablet production level is approximately no less than approximately 118,800.						
Method							
1		Automatically operate the machine for one minute using Firmapress as a test mix (purchase at https://www.lfatabletpresses.com/ready-mix-firmapress).					
2	Record the tablet amount produced in one minute.						
3	Calculate the hourly output by multiplying the tablet amount by 60.						
Results							
Test		Acceptance Criteria		Pass/Fail			
1		Maximum hourly tablet production is approximately 118,800 pieces (+/-5%).					
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)			

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Protocol Deviation Log



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Record each of the deviations raised during the completion of the protocol and the date the deviation is resolved.

Deviation No.	Deviation Description	Date Resolved	Initial and Date

Comments:		
Reviewed By:	Date:	



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