



RTP 118® 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
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Engineering			
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Disclaimer

This IQ/OQ is intended as a guide only and is not an exhaustive list. All qualification tests will need to be adapted to the industry and product, following industry regulations and the material safety data sheets that come with specific products. Please check with your Quality Control Manager/Department or other relevant internal departments at your company before using.

Comments:	
Reviewed By:	Date

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Comments	



Purpose and Background

The purpose of this Installation Qualification (IQ)/Operational Qualification (OQ) Protocol is to establish documented evidence that the RTP 118® 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 118/Rotary Tablet Press
Manufacturer	LFA Machines
Version 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.	

Comments:	

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System Requirements

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

System Requirement	Target
Output Speed Target	32,400 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

Comments:	
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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.

Comments:		
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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 118[®] Process

The basic mechanism of the RTP 118® 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				

Comments:		
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RTP 118 [®] - Serial Number	
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	PACKING LIST							
f Te	est							
the	presence	of the packing list with the appro	priate information.					
Loc	cate packin	g list with the shipping container.						
			f products, quantity, net weight,					
		Acceptance Criteria	Pass/Fail					
	Description	n of products is present.						
	Quantity of	products is present.						
	Net weight							
	Gross weig	ght of shipment is present.						
Result Dev No. Completed by (Ini		Completed by (Initial/Date)	Verified by (Initial/Date)					
	the	Locate packing Confirm the parameter and gross weight Description Quantity of Net weight Gross weight	the presence of the packing list with the appro Locate packing list with the shipping container. Confirm the package list includes description of and gross weight. Acceptance Criteria Description of products is present. Quantity of products is present. Net weight of shipment is present. Gross weight of shipment is present.					

Comments:		
Reviewed By:	Date:	





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

Comments:		
Reviewed By:	Date:	





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

Comments:	
Reviewed By:	Date:





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The objective of Document Qualification is to confirm the presence and validity of the appropriate documents.

TEST No. RT118D01		MATERIAL CERTIFICATE					
Purpose of	of Test						
To confirm	the pres	ence (of materials certificate.				
Method							
1	Point of	contac	ct materials are certified by third	party.			
2	Confirm	mater	als are accurate to LFA standard	l.			
Results							
Test Acceptance Criteria		Acceptance Criteria	Pass/Fail				
1	Hopper material is confirmed to be SUS304 stainless steel.						
2		Turret material is confirmed to be SUS316 stainless steel.					
3	l l	Fill Tray material is confirmed to be tin brass alloy.					
4	Tooling is confirmed to be material that						
Ejection Chute material is confirmed to be SUS304 stainless steel.							
Fill Tray Scrapers are confirmed to be bakelite.							
Result	Dev	No.	Completed by (Initial/Date)	Verified by (Initial/Date)			

Disclaimer

This materials certificate does not come with the machine. The point of contact materials on the machine must be tested and certified by a third party.

Comments:	
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TEST No. TDD05		PRODUCT MANUAL				
Purpose of	of Te	est				
To confirm	the	presence	of product manual.			
Method						
1	ı	Find the RTP 118® product manual at https://www.lfatabletpresses.com/ product-data in Product Manuals section.				
2	Confirm product manual link is accessible.					
Results						
Test	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)				

Comments:		
Reviewed By:	Date:	

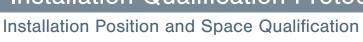




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TEST No. TDD06	ELECTRICAL WIRING DIAGRAM					
Purpose o	of Test					
To confirm	the pres	sence (of electrical wiring diagram.			
Method						
1		Find the appropriate product manual at https://www.lfatabletpresses.com/ product-data in Product Manuals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

Comments:	
Reviewed By:	Date:



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objective of Installation Position and Space Qualification is to confirm the space and ironmental conditions required for installation and operation.						
TEST No. RT118IS01		WORKSPACE SURFACE				
Purpose o	of To	est				
To confirm the workspace surface accounts for the machine's weight and force exerted by machine and user.						
Method						
1	Ensure workspace surface supports machine's weight of 330 kg (around 728 lbs).					
2	En	Ensure the workspace surface supports an additional 92 kg (around 203 lbs).				
Results						
Test Acceptance Criteria Pass/Fail				Pass/Fail		
1		1 -	e surface is sturdy enough to 22 kg (around 930 lbs).			
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)		

Disclaimer

Consult either a civil engineer or building manager to complete and verify the workspace surface qualification test.

Comments:	
Reviewed By:	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. TDIS02		WORKSPACE TEMPERATURE					
Purpose o	of Te	est					
To confirm	the	workspace	e's temperature levels are accept	able for machine operation.			
Method	Method						
1	Ме	leasure the workspace's temperature with an indoor thermometer.					
Results	Results						
Test			Acceptance Criteria	Pass/Fail			
1 1 1		Workspace 18-24 °C (e temperature measures within 64-75 °F).				
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)			

Comments:		
Reviewed By:	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. TDIS03		HUMIDITY						
Purpose o	of Te	est						
To confirm	the	workspace	e's relative humidity levels are ac	ceptable for machine operation.				
Method								
1	Ме	Measure the workspace's humidity with a hygrometer.						
Results								
Test			Acceptance Criteria	Pass/Fail				
1		Workspace within 45-6	e relative humidity measures 55% RH.					
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)				

Comments:	
Reviewed By:	Date:





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The objective of Safety Measures Qualification is to confirm that machine installation meets requirements of safe production.

TEST No. RT118SM01			LIFTING EQUIPME	ENT	
Purpose o	f Te	est			
To confirm	tha	t the proper	lifting equipment is available for	mounting the machine.	
Method					
1	En	sure engine	hoist and lifting straps are availa	able.	
2	Ensure lifting straps support the machine and does not induce any or tilting of the machine.				
Results	Results				
Test			Acceptance Criteria	Pass/Fail	
1		Engine hoi position.	st and lifting straps are in		
2		_	ps are secure and supports the weight in a balanced way.		
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)	

Comments:	
Reviewed By:	Date:





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The objective of Safety Measures Qualification is to confirm that machine installation meets requirements of safe production.

irements of safe production.							
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 b	oots 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)			

Comments:	
Reviewed By:	Date:





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The objective of Safety Measures Quality	fication is to confirm that machine installation meets
requirements of safe production.	

TEST No. RT118SM04		MAX TIGHTENING TORQUE ON BOLTS		
Purpose o	Purpose of Test			
To confirm	bolts on the m	nachine are secure.		
Method				
1	Use a torque wrench to ensure the max tightening torque of major machine bolts are appropriate.			
Results				
Test		Acceptance Criteria Pass/Fail		
1	Dies' bolts	are M12 thread at 27.6 Nm.		
2	Fill Tray So at 2 Nm.	Fill Tray Scraper's screws are M4 thread at 2 Nm.		
3	Upper Pressure Cam Housing's bolts are M24 thread at 302 Nm.			
Result	Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)	

Comments:		
Reviewed By:	Date:	



requirements of safe production.



RTP 118® - Serial Number	
The objective of Safety Measures Quality	ication is to confirm that machine installation meets

TEST No. RT1SM05		CORRECT LOCAL VOLTAGE		
Purpose of	Те	st		
To confirm	that	the worksp	ace has the correct local voltage	e for the machine.
Method				
1	En	nsure the workspace has the correct voltage.		
Results				
Test		Acceptance Criteria Pass/Fail		
1		Workspace electrics support 240 V or 220 V.		
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)

Disclaimer

Consult a licensed electrician to complete and verify the correct local voltage qualification test.

Comments:	
Reviewed By:	Date:





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

TEST No. TDEA01		NAMEPLATE		
Purpose o	of Te	est		
To confirm clear.	nfirm that the nameplate is securely fixed onto the machine and its information is			
Method				
1	En	sure that th	e nameplate is securely fitted to	the machine.
2		sure that th	e nameplate contains details that e.	are pertinent to the operation
Results				
Test		Acceptance Criteria Pass/		Pass/Fail
1		Nameplate is present.		
2		Nameplate displays machine name.		
3		Nameplate displays version number.		
4		Nameplate displays serial number.		
5	Nameplate displays voltage and power requirements.			
6		Nameplate displays motor type.		
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)

Comments:		
Reviewed By:	Date:	





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	of Te	est		
To confirm	tha	t the machi	ne has no obvious damage to bo	dy and/or wiring.
Method				
1	l .	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 body has no obvious damage.		
2		Machine's wiring, cables, and electrical box have no damage.		
Result		Dev No. Completed by (Initial/Date)		Verified by (Initial/Date)

Comments:	
Reviewed By:	Date:





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The objective of Production and Output Qualification is to confirm the maximum production and output values of the machine.

TEST No. RT1180Q01		ELECTRICAL OUTPUT LEVELS			
Purpose of	f Test				
To confirm	that the machin	ne's kilowatt, voltage, and ampere	e levels are correct.		
Method					
1	Use a multime	ter to measure the machine for e	ach unit.		
Results	Results				
Test		Acceptance Criteria	Pass/Fail		
1	Maximum	kilowatts is 3.75.			
2	Maximum	Maximum volts is 240.			
3	Maximum	Maximum amps is 14.6.			
4	Maximum	nertz is 60.			
Result	Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)		

Disclaimer

Consult a licensed electrician to complete and verify the electrical output levels qualification test.

Comments:	
Reviewed B	y: Date:





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TEST No. RT1180Q02		MAXIMUM PRESSURE				
Purpose of	f Te	st				
To confirm	that	the machin	ne's maximum pressure level is a	ccurate.		
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 Upper Roller Cam.				
Results						
Test			Acceptance Criteria	Pass/Fail		
1		Maximum (0.3 kN tol	oressure produced is 60 kN erance).			
Result		Dev No. Completed by (Initial/Date)		Verified by (Initial/Date)		

Comments:	
Reviewed By:	Date:





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TEST No. RT1180Q03		MAXIMUM TABLET DIAMETER					
Purpose of	Te	st					
To confirm (non-circula		the machin	e's maximum tablet diameter is 1	16 mm (circular) and/or 19 mm			
Method							
1	pro	Install 16 mm Tooling and/or 19 mm Tooling in press in accordance with product manual instructions (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	Measure the test tablet with a set of calipers.						
Results	Results						
Test	Acceptance Criteria		Acceptance Criteria	Pass/Fail			
Maximum tablet diameter produced is 16 mm (+/-5%) and/or 19 mm (+/-5%).							
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)			

Comments:		
Reviewed By:	Date:	





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TEST No. RT1180Q04	MAXIMUM TABLET THICKNESS				
Purpose o	f Te	st			
To confirm	tha	t the machir	ne's maximum tablet thickness 8	mm.	
Method					
1	l '	Adjust Tooling to increase tablet thickness in accordance with product manual instructions (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	Measure the test tablet with a set of calipers.				
Results					
Test	Acceptance Criteria Pass/Fail				
1	Maximum tablet thickness produced is 8 mm (+/-5%).				
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)	

Comments:	
Reviewed By:	Date:



Production and Output Qualification

RTP 118® - Serial Number	
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TEST No. RT1180Q05	MAXIMUM FILLING DEPTH			
Purpose of	Те	st		
To confirm	that	the machin	e's maximum fill depth level is 17	7 mm.
Method				
1	Adjust Tooling to increase fill depth in accordance with product manual instructions (found at https://www.lfatabletpresses.com/product-data).			
2	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	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				
Test	Acceptance Criteria Pass/Fail			
1	Maximum fill depth is 17 mm (+/-5%).			
Result	Dev No. Completed by (Initial/Date)		Completed by (Initial/Date)	Verified by (Initial/Date)

Comments:		
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TEST No. RT1180Q06	MAXIMUM HOURLY TABLET PRODUCTION			
Purpose of	f Te	st		
		the machir	e's maximum hourly tablet produ 2,400.	uction level is approximately no
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		Pass/Fail	
1	Maximum hourly tablet production is approximately 32,400 pieces (+/-5%).			
Result	Dev No. Completed by (Initial/Date)		Completed by (Initial/Date)	Verified by (Initial/Date)

Comments:		
Reviewed By:	Date:	



Production and Output Qualification

RTP 118® - Serial Number	

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TEST No. RT1180Q07		V BELT TENSION		
Purpose o	f Te	st		
To confirm	that	the machir	ne's V Belt tension is accurate.	
Method				
1	Unplug the machine.			
2	Measure the machine's V Belt with a belt tension gauge.			
Results				
Test	Acceptance Criteria Pass/Fail		Pass/Fail	
1	V Belt's tension measures to be [N] 290 (+/-5%).		nsion measures to be [N] 290	
Result		Dev No. Completed by (Initial/Date)		Verified by (Initial/Date)

Comments:		
Reviewed By:	Date:	

Protocol Deviation Log



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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