



# HSTP 40<sup>®</sup> Tablet Press IQ/OQ



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

### LFA Signature Identification



Prepared by	Name	Title	Date
Author	Callie Scott	Technical Writer	2022-04-12
Approved by	Name	Title	Date
Manufacturing	Angus Wang	Purchasing	
Engineering			
Quality	Russell Crispin	Quality Control	

#### **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

# **Contents**

LFA Signature Identification	2
Qualification Protocol	4
Purpose and Background	4
Scope	4
Qualification Protocol	5
Responsibilities	6
General Requirements	7
Codes and Abbreviations	8
Equipment and Process Description	9
Test Equipment	10
Document Qualification	11
Installation Qualification Protocol	11
Installation Position and Space Qualification	17
Safety Measures Qualification	20
Equipment Appearance Qualification	24
Operational Qualification Protocol	26
Production and Output Qualification	26
Protocol Deviation Log	33

Comments	:		
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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 HSTP 40® 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	HSTP 40/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.	

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#### **System Requirements**

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

System Requirement	Target
Output Speed Target	252,000 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	<ul> <li>Develops the process validation plan, protocol, and report.</li> <li>Confirms accuracy and completeness of the validation and qualification deliverables.</li> </ul>
Validation Project Leader	<ul> <li>Defines validation and qualification deliverables (i.e., process validation plan, protocol, and report, project monitoring, protocol execution).</li> <li>Acquires inputs from any needed technical experts to determine the activities appropriate to the validation.</li> <li>Identifies the resources required to conduct the validation.</li> </ul>
Technical Representative	<ul> <li>Provides knowledge with regard to the equipment/process/ product undergoing validation and qualification.</li> <li>Provides assistance to the Validation Project Leader with respect to the technical aspects of the equipment/process/ product.</li> <li>Provides help with study designs, acceptance criteria, and statistical analysis, as necessary.</li> </ul>
Quality Assurance/Quality Management	<ul> <li>Reviews and approves validation and qualification documentation.</li> <li>Ensures that each document is complete, accurate, and compliant with applicable validation requirements.</li> <li>Reviews and approves deficiencies that occur during validation.</li> </ul>

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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**

#### HSTP 40<sup>®</sup> Process

The basic mechanism of the HSTP 40<sup>®</sup> 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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TEST No. TDD01		PACKING LIST		
Purpose o	of Te	est		
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	Confirm the package list includes description of products, quantity, net weight, and gross weight.			
Results				
Test	Acceptance Criteria		Acceptance Criteria	Pass/Fail
1		Description of products is present.		
2	Quantity of products is present.		f products is present.	
3	Net weight of shipment is present.		of shipment is present.	
4	Gross weight of shipment is present.			
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)

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	pect the CE certification.		
2	Со	nfirm signature of authorized LFA personnel.			
Results					
Test		Acceptance Criteria		Pass/Fail	
1		CE qualification certificate is complete.			
2	Signature of authorized LFA personnel is present.		of authorized LFA personnel is		
Result	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 o	of Te	est		
To confirm	the	presence	of factory acceptance test (FAT)	report.
Method				
1	Ins	nspect the FAT report.		
2	Confirm quality control checklist from LFA Taiwan location is included.			
Results				
Test	Acceptance Criteria		Acceptance Criteria	Pass/Fail
1	FAT report is complete.		is complete.	
2	Quality control checklist from LFA Taiwan location is complete.			
Result Dev No. Completed by (Initial/Date)		Verified by (Initial/Date)		

Comments:	
Reviewed By:	Date:





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

TEST No. HS4D01		MATERIAL CERTIFICATE		
Purpose o	of Test			
To confirm	the prese	nce o	of materials certificate.	
Method				
1	Point of c	ontac	ct materials are certified by third	party.
2	Confirm m	nateri	als are accurate to LFA standard	l.
Results				
Test			Acceptance Criteria	Pass/Fail
1		Hopper material is confirmed to be SUS304 stainless steel.		
2	Turret 250.	Turret material is confirmed to be cast iron 250.		
3	l l	Interior Force Feeder material is confirmed to be SUS304 stainless steel.		
Fill Tray mate bronze QSN-		-	aterial is confirmed to be tin N-6-3.	
5		Fill Tray Tail material is confirmed to be PTFE plate.		
6		Tooling is confirmed to be material that user specified.		
7	1 -	Ejection Tray material is confirmed to be SUS304 stainless steel.		
Result	Dev 1	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.

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Result

Dev No.

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Verified by (Initial/Date)

TEST No. TDD05	PRODUCT MANU				
Purpose o	of Test				
To confirm	the presence of product manual.				
Method	Method				
1	Find the HSTP® range product manual at <a href="https://www.lfatabletpresses.com/">https://www.lfatabletpresses.com/</a> 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				

Completed by (Initial/Date)

Comments:	
Reviewed By:	Date:





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TEST No. TDD06		ELECTRICAL WIRING DIAGRAM		
Purpose o	of Te	est		
To confirm	the	presence	of electrical wiring diagram.	
Method	Method			
1	1	Find the appropriate product manual at <a href="https://www.lfatabletpresses.com/">https://www.lfatabletpresses.com/</a> <a href="product-data">product-data</a> in Product Manuals section.		
2	Inspect the electrical wiring diagram in the product manual's appendix.			
Results				
Test Acceptance Criteria		Pass/Fail		
1	Electrical wiring diagram is accessible within the manual.		•	
Result	t Dev No. Co		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. HS4IS01	WORKSPACE SURFACE				
Purpose of Test					
To confirm the workspace surface accounts for the machine's weight and force exerted					

by machine and user.	
Method	

- Ensure workspace surface supports machine's weight of 2020 kg (around 4453 lbs).

  Ensure the workspace surface supports an additional 739 kg (around 1629 lbs)
- lbs).

Test		Acceptance Criteria	Pass/Fail
1		e surface is sturdy enough to 759 kg (around 6082 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 To	est		
To confirm	the	workspace	e's temperature levels are accept	able for machine operation.
Method				
1	Мє	Measure the workspace's temperature with an indoor thermometer.		
Results				
Test		Acceptance Criteria Pass/Fail		Pass/Fail
1	Workspace temperature measures within 18-24 °C (64-75 °F).		-	
Result		Dev No. Completed by (Initial/Date)		Verified by (Initial/Date)

Comments:	
Reviewed By:	Date:



Installation Position and Space Qualification

HSTP 40<sup>®</sup> - Serial Number

-		sition and Space Qualification is ired for installation and operation	-
TEST No. TDIS03	o. HUMIDITY		
Purpose o	f Test		
To confirm	the workspac	e's relative humidity levels are ac	ceptable for machine operation.
Method			
1 Measure the workspace's humidity with a hygrometer.			
Results			
Test	st Acceptance Criteria Pass/Fail		
1	Workspace relative humidity measures within 45-65% 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. HS4SM01		LIFTING EQUIPMENT		
Purpose o	f Te	st		
To confirm	that	the proper	lifting equipment is available for	mounting the machine.
Method				
1	Ens	Ensure forklift and lifting strap are available.		
2		Ensure lifting strap supports the machine and does not induce any swinging or 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:	
Reviewed By:	Date:





HSTP 40 <sup>®</sup> - Serial Number	
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The objective of Safety Measures Qualification is to confirm that machine installation meets requirements of safe production.

TEST No. TDSM03		PERSONAL PROTECTIVE EQUIPMENT		
Purpose o	of Te	est		
		er has acce machine o	ss to the following items of persoperation.	onal protective equipment (PPE)
Method				
1	Ens	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 support belt is in possession.		
4	Safety goggles are in possession.			
5	Disposable latex/rubber gloves are in possession.			
6	Hairnet and/or beard net are in possession (if applicable).			
Result		Dev No. Completed by (Initial/Date)		Verified by (Initial/Date)

Comments:	
Reviewed By:	Date:



Safety Measures Qualification

HSTP 40<sup>®</sup> - Serial Number

objective of Safety Measures Qualification is to confirm that machine installation meets uirements of safe production.				
TEST No. TDSM04	MAX TIGHTENING TORQUE ON BOLTS			
Purpose o	f Test			
To confirm	bolts on the m	achine are secure.		
Method				
1	=	e a torque wrench to ensure the max tightening torque of major machine lts are appropriate.		
Results				
Test Acceptance Criteria Pass/Fail			Pass/Fail	
1 Dies' bolts are 4.3 Nm.				
Fill Tray Scraper's screw is 16.2 Nm.				
3	Upper Trac	cking's bolt is 153 Nm.		
Result	Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)	

Comments:	
Reviewed By:	Date:





HSTP 40® - Serial Number
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The objective of Safety Measures Qualification is to confirm that machine installation meets requirements of safe production.

TEST No. HS4SM05	CORRECT LOCAL VOLTAGE			LTAGE		
Purpose of	Purpose of Test					
To confirm	that	the worksp	ace has the correct local voltage	e for the machine.		
Method	Method					
1	En	Ensure the workspace has the correct voltage.				
Results						
Test		Acceptance Criteria		Pass/Fail		
1		Workspace 220 V.	e electrics support 380 V or			
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:



**Equipment Appearance Qualification** 

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	-		uipment Appinstallation.		Qualification is to confi	irm no damage to the machine's
	TEST No. TDEA01	No. NAMEPLATE				
	Purpose o	of Te	est			
	To confirm clear.	tha	t the name	olate is sec	urely fixed onto the m	achine and its information is
	Method					
	1	Ens	sure that the	e nameplat	e is securely fitted to	the machine.
	Ensure that the nameplate contains details that are pertinent to the ope of the machine.			are pertinent to the operation		
Results						
Test			Acceptance Criteria		e Criteria	Pass/Fail
	1		Nameplate is present.			
	2		Nameplate	displays m	achine name.	
	3		Nameplate	displays ve	ersion number.	
	4 Nameplate displays serial number.					
	Nameplate displays voltage and power requirements.					
	6 Nameplate displays motor		otor 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	Purpose of Test					
To confirm	tha	at the machi	ne has no obvious damage to bo	dy and/or wiring.		
Method						
1	Inspect the machine body for obvious indentations, spots, scratches, cray or any other damages.			ons, spots, scratches, cracks,		
2 Inspect the wiring, cables, and electrical box fo		or 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:





HSTP 40® - Serial Number	
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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. HS40Q01	FLECTRICAL QUIPUT LEVELS					
Purpose o	Purpose of Test					
To confirm	To confirm that the machine's hertz, voltage, and kilowatt levels are correct.					
Method	Method					
1 Use a multimeter to measure the machine for each		ach unit.				
Results						
Test		Acceptance Criteria	Pass/Fail			
1	Maximum	nertz is 50/60.				
2	Maximum	volts is 380 or 220.				
3	Maximum	kilowatts is 7.5.				
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 By:	Date:





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TEST No. HS40Q02	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 pressure produced is 80 kN (0.3 kN tolerance).		
Result		Dev No. Completed by (Initial/Date)		Verified by (Initial/Date)

Comments:	
Reviewed By:	Date:





HSTP	40 <sup>®</sup> -	Serial	Number
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TEST No. HS40Q02		MAXIMUM PRESSURE			
Purpose of	f Te	<del></del> st			
To confirm	that	the machin	e's maximum pre-pressure level	is accurate.	
Method					
1		Remove the Tooling from the press in accordance with product manual instructions (found at <a href="https://www.lfatabletpresses.com/product-data">https://www.lfatabletpresses.com/product-data</a> ).			
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 20 kN (0.3 kN tolerance).			
Result		Dev No. Completed by (Initial/Date)		Verified by (Initial/Date)	

Comments:		
Reviewed By:	Date:	





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TEST No. HS40Q03	MAXIMUM TABLET DIAMETER			
Purpose of	Te	st		
To confirm (shaped).	that	the machin	e's maximum tablet diameter is 1	3 mm (round) and 16 mm
Method				
1		Install 13 mm or 16 mm Tooling in press in accordance with product manual instructions (found at <a href="https://www.lfatabletpresses.com/product-data">https://www.lfatabletpresses.com/product-data</a> ).		
2	Produce a test tablet using Firmapress as a control mix (purchase at <a href="https://www.lfatabletpresses.com/ready-mix-firmapress">https://www.lfatabletpresses.com/ready-mix-firmapress</a> ).			
3	Measure the test tablet with a set of calipers.			
Results				
Test		Acceptance Criteria		Pass/Fail
1	Maximum tablet diameter produced is 13 mm or 16 mm (+/-5%).			
Result		Dev No. Completed by (Initial/Date)		Verified by (Initial/Date)

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TEST No. HS40Q04		MAXIMUM TABLET THICKNESS			
Purpose o	f Te	est			
To confirm	tha	t the machir	ne's maximum tablet thickness 6	mm.	
Method					
1	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 <a href="https://www.lfatabletpresses.com/ready-mix-firmapress">https://www.lfatabletpresses.com/ready-mix-firmapress</a> ).				
3	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)	

Comments:	
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Production and Output Qualification

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TEST No. HS40Q05			MAXIMUM FILLING D	DEPTH
Purpose of	Te	st		
To confirm	that	the machin	e's maximum fill depth level is 16	3 mm.
Method				
1		•	to increase fill depth in accordar ound at <a href="https://www.lfatabletprese">https://www.lfatabletprese</a>	-
2	Tur	n the Hand	le until the Lower Punch is fully le	owered.
3	Ins bo		leaner (or anything similar that is	non-abrasive) into the Die
4	Ма	rk the point	at which the pipe cleaner meets	the Die bore's edge.
5	Ме	asure the fi	ll depth with a graduated steel ru	ler.
Results				
Test			Acceptance Criteria	Pass/Fail
1		Maximum f	ill depth is 16 mm (+/-5%).	
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)

Comments:	
Reviewed By:	Date:





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TEST No.			MAXIMUM HOURLY TABLET	PRODUCTION
H340Q00				
Purpose of	f Te	st		
		the machiroximately 2	ne's maximum hourly tablet produ 52,000.	uction level is approximately no
Method				
1		=	operate the machine for one mine at <a href="https://www.lfatabletpresses.cu">https://www.lfatabletpresses.cu</a>	-
2	Re	cord the tal	olet amount produced in one min	ute.
3	Ca	culate the l	nourly output by multiplying the ta	ablet amount by 60.
Results				
Test			Acceptance Criteria	Pass/Fail
1			nourly tablet production is tely 252,000 (+/-5%).	
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)

Comments:	
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# **Protocol Deviation Log**



rd each of the deviation is resolved.	tions raised during the completion of	the protocol and	the da
Deviation No.	Deviation Description	Date Resolved	Initia



# www.lfamachines.com

#### **United Kingdom**

Unit 4B
Murdock Road
Bicester
Oxfordshire
United Kingdom
OX26 4PP

#### **United States**

955 N Sylvania Ave Fort Worth Texas United States 76111

#### Germany

Business Parc Am
Trippelsberg 92
Düsseldorf
Germany
40589

#### **Taiwan**

7F-5, No. 2, Sec. 2
Taiwan Blvd
West District
Taichung City
403