



TDP 5[®] 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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| 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.

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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 TDP 5® 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 | TDP 5/Desktop Tablet Press |
| Manufacturer | LFA Machines |
| Version Number | 2 |
| 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 | 5,400 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 |

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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.

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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 |
| MABS | Methyl Methacrylate/ABS |
| mm | Millimeter |
| NIST | National Institute of Standards and Technology |
| Nm | Newton meter |
| OQ | Operational Qualification |
| PPE | Personal protective equipment |
| RH | Relative humidity |
| TDP® | LFA registered trademarked term meaning desktop tablet press |

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Equipment and Process Description

TDP 5[®] Process

The basic mechanism of the TDP 5[®] 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 Boot. As the Hand Wheel is manually operated, the Top Cam withdraws the Upper Punch from the Die and moves up the Lower Punch to the Die.

When the machine is operated by the motor, the Drive Belt Pulley and V Belt initiate the movement of the Electrical Drive Flywheel, which moves the Top Cam to withdraw the Upper Punch from the Die and pushes up the Lower Punch.

Compressing the Powder

After the powder is filled in the Tooling, the Top Cam drives the Upper Punch into the Die, and the Lower Punch is then raised by the Top Cam. Both punches then move together to compress the powder under high pressure.

Ejecting the Tablet

After both punches compress the powder into a tablet, the Top Cam withdraws the Upper Punch while the Lower Punch is pushed upward to expel the tablet. The tablet is then pushed out of the way by the Boot to prepare for the next tablet compression.

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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 | | | | |
|--|---|--|-----------------------------|-----------------------------------|
| Purpose of Test | | | | |
| To confirm the presence of the packing list with the appro | | | | priate information. |
| Method | | | | |
| 1 | Lo | Locate packing list with the shipping container. | | |
| 2 | Confirm the package list includes description of products, quantity, net we and gross weight. | | | f products, quantity, net weight, |
| Results | | | | |
| Test | | Acceptance Criteria | | Pass/Fail |
| 1 | | Description of products is present. | | |
| 2 | | Quantity of 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) |
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| TEST No. TDD02 | | | QUALIFICATION CERT | IFICATE |
|--|---|---|----------------------------------|----------------------------|
| Purpose of Test | | | | |
| 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 qualification certificate is complete. | | |
| 2 | Signature of authorized LFA personnel is present. | | of authorized LFA personnel is | |
| Result | | Dev No. | 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. | | | | 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. | | | |
| 2 | Quality control checklist from LFA Taiwan location is complete. | | | | |
| Result | | Dev No. | Completed by (Initial/Date) | Verified by (Initial/Date) | |
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The objective of Document Qualification is to confirm the presence and validity of the appropriate documents.

| TEST No. TDD04 | | MATERIAL CERTIFICATE | | | | |
|----------------------|--|--|----------------------------|--|--|--|
| Purpose of | of Test | | | | | |
| To confirm | the presence | of materials certificate. | | | | |
| Method | | | | | | |
| 1 | Point of contact | ct materials are certified by third | party. | | | |
| 2 | Confirm mater | ials are accurate to LFA standard | d. | | | |
| Results | | | | | | |
| Test | | Acceptance Criteria | Pass/Fail | | | |
| 1 | Hopper material is confirmed to be polypropylene (PP) plastic. | | | | | |
| 2 | Boot material is confirmed to be MABS (Terlux HD 2822). | | | | | |
| 3 | Base Plate S45C carb | material is confirmed to be on steel. | | | | |
| 4 | Tooling is user speci | confirmed to be material that fied. | | | | |
| 5 | 1 - | ay material is confirmed to be tainless steel. | | | | |
| 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.

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| TEST No. TDD05 | PRODUCT MANUAL | | | | | |
|----------------------|---|---|----------------------------|--|--|--|
| Purpose of | of Test | | | | | |
| To confirm | the presence | of product manual. | | | | |
| Method | | | | | | |
| 1 | 1 | Find the TDP 5 [®] product manual at https://www.lfatabletpresses.com/product-data in Product Manuals section. | | | | |
| 2 | Confirm prod | 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) | | | |
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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 | | | | | | |
| Test | Acceptance Criteria | | 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) | | |
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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. TDIS01 | | WORKSPACE SURFACE | | | | |
|-----------------------|--|----------------------------------|-------------------------------|--|--|--|
| Purpose of | of Test | | | | | |
| 1 | the workspace e and user. | e surface accounts for the machi | ne's weight and force exerted | | | |
| Method | | | | | | |
| 1 | Ensure workspace surface supports machine's weight of 125 kg (around 275 lbs). | | | | | |
| 2 | Ensure the workspace surface supports an additional 35 kg (around 77 lbs). | | | | | |
| Results | | | | | | |
| Test | Acceptance Criteria | | Pass/Fail | | | |
| 1 | Workspace surface is sturdy enough to support 160 kg (around 352 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: | |
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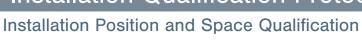


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The objective of Installation Position and Space Qualification is to confirm the space and environmental conditions required for installation and operation.

| TEST No. TDIS02 | | WORKSPACE TEMPERATURE | | |
|-----------------------|---------|---|-----------------------------------|-----------------------------|
| Purpose of | 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 | Results | | | |
| Test | | Acceptance Criteria | | Pass/Fail |
| 1 | | Workspace temperature measures within 18-24 °C (64-75 °F). | | |
| 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. 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 | easure the workspace's humidity with a hygrometer. | | |
| Results | Results | | | |
| Test | | Acceptance Criteria | | Pass/Fail |
| 1 | | Workspace relative humidity measures within 45-65% RH. | | |
| Result | | Dev No. | Completed by (Initial/Date) | Verified by (Initial/Date) |
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The objective of Safety Measures Qualification is to confirm that machine installation meets requirements of safe production.

| TEST No. TDSM01 | | LIFTING EQUIPMENT | | |
|-----------------------|---|---|--------------------------------------|------------------------------|
| Purpose o | of Te | est | | |
| To confirm | tha | t the prope | r lifting equipment is available for | mounting the machine. |
| Method | | | | |
| 1 | En | sure hoist a | nd lifting strap are available. | |
| 2 | En | sure eye bo | It is attached to top of machine. | |
| 3 | Ensure lifting strap supports the machine and does not induce any swinging or tilting of the machine. | | | does not induce any swinging |
| Results | | | | |
| Test | | Acceptance Criteria | | Pass/Fail |
| 1 | | Engine hoist and lifting strap are in position. | | |
| 2 | | Eye bolt is attached to top of machine with eye bolt thread fully screwed in. | | |
| 3 | | 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) |
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Safety Measures Qualification

| TDP 5® - 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. TDSM02 | | MOUNTING SECURITY | | |
|-----------------------|---|---|------------------------------------|----------------------------|
| Purpose o | of To | est | | |
| To confirm | the | machine is | s firmly bolted to the workspace s | surface. |
| Method | | | | |
| 1 | Ensure that the three bolts used to secure the machine to the workspace surface are the same ones that were used to attach the machine to the shipping container. | | | |
| 2 | Use a torque wrench to ensure the max tightening torque of the M10 bolts is 42.1 Nm. | | | |
| Results | | | | |
| Test | | | Acceptance Criteria | Pass/Fail |
| 1 | | The three bolts used to secure the machine are M10. | | |
| 2 | | The max tightening torque of the bolts are 42.1 Nm. | | |
| Result | | Dev No. | Completed by (Initial/Date) | Verified by (Initial/Date) |
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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 | | |
| 1 | | er has acce machine o | ss to the following items of persoperation. | onal protective equipment (PPE) |
| Method | | | | |
| 1 | En | sure protect | 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 latex/rubber gloves are in possession. | | |
| 6 | | Hairnet and/or beard net are in possession (if applicable). | | |
| Result | Result Dev No. Completed by (Initial/Date) | | Completed by (Initial/Date) | Verified by (Initial/Date) |
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Safety Measures Qualification

TDP 5[®] - Serial Number

| rements of safe production. | | | | |
|--|-----------------------------------|-----------------------------|--|--|
| TEST No. TDSM04 | MAX TIGHTENING TORQUI | E ON BOLTS | | |
| Purpose of T | est | | | |
| To confirm bo | olts on the machine are secure. | | | |
| Method | | | | |
| Use a torque wrench to ensure the max tightening torque of material bolts are appropriate. | | ing torque of major machine | | |
| Results | | | | |
| Test | Acceptance Criteria | Pass/Fail | | |
| 1 | Die's M6 bolt is 4.3 Nm. | | | |
| 2 | Base Plate's M10 bolt is 16.2 Nm. | | | |
| | | | | |

| Comments: | |
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Lower Punch's M6 bolt is 4.3 Nm.

M6 bolt is 4.3 Nm.

M20 bolt is 153 Nm.

Dev No.

Lower Drift Pin Assembly Locking Bar's

Lower Drift Pin Assembly Lifting Bar's

Boot Timing Bar's M8 bolt is 9.7 Nm.

Boot Bolt and Spring is M10 and 8.1 Nm.

Completed by (Initial/Date)

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6

7

Result

Verified by (Initial/Date)





| TDP 5 [®] - 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. TDSM05 | | CORRECT LOCAL VOLTAGE | | | |
|-----------------------|---|---|----------------------------|--|--|
| Purpose of | f Test | | | | |
| To confirm | that the works | pace has the correct local voltag | e for the machine. | | |
| Method | | | | | |
| 1 | Ensure the workspace has the correct voltage. | | | | |
| Results | | | | | |
| Test | | Acceptance Criteria | Pass/Fail | | |
| 1 | Workspace 220 V, or 1 | e electrics support either 240 V, 10 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.

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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. | tha | t the name | plate is securely fixed onto the m | achine and its information is |
| Method | | | | |
| 1 | Ens | sure that th | e nameplate is securely fitted to | the machine. |
| 2 | ı | sure that the | e nameplate contains details that e. | are pertinent to the operation |
| Results | | | | |
| Test | | | Acceptance Criteria | Pass/Fail |
| 1 | | Nameplate is present. | | |
| 2 | | Nameplate | displays machine name. | |
| 3 | | Nameplate | displays version number. | |
| 4 | | Nameplate | displays serial number. | |
| Nameplate displays voltage and power requirements. | | | | |
| 6 | Nameplate displays motor type. | | displays motor type. | |
| 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.

| 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 | ody and/or wiring. | | |
| Method | | | | | | |
| 1 | ı | Inspect the machine body for obvious indentations, spots, scratches, cracks, or any other damages. | | | | |
| 2 | Ins | Inspect the wiring, cables, and electrical box for damage. | | | | |
| Results | | | | | | |
| Test | st Acceptance Criteria Pass/Fail | | | Pass/Fail | | |
| 1 | Machine body has no obvious damage. | | ody has no obvious damage. | | | |
| 2 | 2 Machine's wiring, cables, and electrical box have no damage. | | | | | |
| Result | | Dev No. | Completed by (Initial/Date) | Verified by (Initial/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. TDOQ01 | ELECTRICAL OUTPUT LEVELS | | | | |
|-----------------------|--------------------------|--|-----------------------------------|----------------------------|--|
| Purpose o | Purpose of Test | | | | |
| To confirm | tha | t the machi | ne's kilowatt, voltage, and amper | e levels are correct. | |
| Method | | | | | |
| 1 | Use | Use a multimeter to measure the machine for each unit. | | | |
| Results | | | | | |
| Test | | Acceptance Criteria Pass/Fail | | | |
| 1 | | Maximum kilowatts is 0.75. | | | |
| 2 | | Maximum volts is 240. | | | |
| 3 | | Maximum amps is 5.7. | | | |
| 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: | |
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| Reviewed By: | Date: |





| TDP 5 [®] - Serial Num |
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| TEST No. TDOQ02 | MAXIMUM PRESSURE | | | | | |
|-----------------------|---|-----------------------------------|----------------------------|--|--|--|
| Purpose of | Purpose of Test | | | | | |
| To confirm | that the mach | ine's maximum pressure level is a | 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 Upper Drift Pin Assembly against the Base Plate. | | | | | |
| Results | Results | | | | | |
| Test | | Acceptance Criteria | Pass/Fail | | | |
| 1 | Maximum pressure produced is 50 kN (0.3 kN tolerance). | | | | | |
| Result | Dev No. | Completed by (Initial/Date) | Verified by (Initial/Date) | | | |
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| Comments: | | |
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| Reviewed By: | Date: | |





| TEST No. TDOQ03 | MAXIMUM TABLET DIAMETER | | | | |
|-----------------------|---|--|---------------------------------|----------------------------|--|
| Purpose o | Purpose of Test | | | | |
| To confirm | tha | t the machi | ne's maximum tablet diameter is | 20 mm. | |
| Method | | | | | |
| 1 | ı | Install 20 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 | Ме | Measure the test tablet with a set of calipers. | | | |
| Results | | | | | |
| Test | | | Acceptance Criteria | Pass/Fail | |
| 1 | Maximum tablet diameter produced is 20 mm (+/-5%). | | | | |
| Result | | Dev No. | Completed by (Initial/Date) | Verified by (Initial/Date) | |
| | | | | | |

| Comments: | | |
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| Reviewed By: | Date: | |





| TDP | 5 [®] - | Serial | Num | ber |
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| TEST No. TDOQ04 | MAXIMUM TABLET THICKNESS | | | | | |
|-----------------------|--|---|---------------------------------|----------------------------|--|--|
| Purpose o | of Te | est | | | | |
| To confirm | tha | t the machi | ne's maximum tablet thickness 8 | mm. | | |
| Method | | | | | | |
| 1 | 1 | Adjust Tooling to increase tablet thickness in accordance with product manual instructions (found at https://www.lfatabletpresses.com/product-data). | | | | |
| 2 | ı | 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 8 mm (+/-5%). | | | | | |
| Result | | Dev No. Completed by (Initial/Date) | | Verified by (Initial/Date) | | |
| | | | | | | |

| Comments: | |
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| TEST No. TDOQ05 | MAXIMUM FILLING DEPTH | | | | |
|-----------------------|---|--------------|---|----------------------------|--|
| Purpose o | of Te | est | | | |
| To confirm | tha | at the machi | ne's maximum fill depth level is 1 | 8 mm. | |
| Method | | | | | |
| 1 | 1 | _ | to increase fill depth in accordar ound at https://www.lfatabletpres | - | |
| 2 | Tur | n the Hand | le until the Lower Punch is fully le | owered. | |
| 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 | Results | | | | |
| Test | Acceptance Criteria Pass/Fail | | | | |
| 1 | Maximum fill depth is 18 mm (+/-5%). | | | | |
| Result | | Dev No. | Completed by (Initial/Date) | Verified by (Initial/Date) | |
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| Comments: | | |
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| TDP | 5 [®] - | Serial | Num | ber |
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| TEST No. TDOQ06 | MAXIMUM HOURLY TABLET PRODUCTION | | | | | |
|-----------------------|---|---|-------------------------------|--|--|--|
| Purpose o | of Test | | | | | |
| | that the mach tely 5,400. | ne's maximum hourly tablet prod | luction level is no less than | | | |
| 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 tal | Record the tablet amount produced in one minute. | | | | |
| 3 | Calculate the | Calculate the hourly output by multiplying the tablet amount by 60. | | | | |
| Results | | | | | | |
| Test | Acceptance Criteria Pass/Fail | | | | | |
| 1 | Maximum hourly tablet production is approximately 5,400 pieces (+/-5%). | | | | | |
| Result | Result Dev No. Completed by (Initial/Date) | | Verified by (Initial/Date) | | | |
| | | | | | | |

| Comments: | | |
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| Reviewed By: | Date: | |





| TDP | 5 [®] - | Serial | Numbe | er |
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| TEST No. TDOQ07 | V BELT TENSION | | | | |
|-----------------------|--|---------|--------------------------------------|----------------------------|--|
| Purpose of | of Test | | | | |
| To confirm | that the | machi | ne's V Belt tension is accurate. | | |
| Method | | | | | |
| 1 | Unplug the machine. | | | | |
| 2 | Measure | e the m | nachine's V Belt with a belt tension | on gauge. | |
| Results | | | | | |
| Test | Acceptance Criteria Pass/Fail | | | Pass/Fail | |
| 1 | V Belt's tension measures to be [N] 94.42 (+/-5%). | | | | |
| Result | Dev | v 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 |
|------------------|-----------------------|------------------|---------------------|
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| Comments: | | |
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| Reviewed By: | Date: | |





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