

Test Report

No.SDHL2012032533FT

Date: Jan 22, 2021

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JIANGSU JELT LIFTING SYSTEM CO. LTD
18 FUXING SOUTH ROAD, JINTAN, CHANGZHOU, JIANGSU

Sample Description : PNEUMATIC LIFTING TABLE

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

Sample Receiving Date : Dec 19, 2020

Sample Resubmission Date : Jan 18, 2021

Test Performing Date : Dec 28, 2020 to Jan 22, 2021

Test Performed : Selected test(s) as requested by applicant

Test Result Summary

No.	Test(s) Requested	Result(s)	Comments
1	ANSI/BIFMA X5.5-2014	PASS	/

For further details, please refer to the following page(s)

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch



Bill Wang
Authorized Signatory



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TESTS AND RESULTS**Test Conducted:**

ANSI/BIFMA X5.5-2014 Desk / Table Products – Tests.

General Test Condition:

The following test program was conducted in a laboratory environment maintained at 15°C to 25°C and 50%±5 RH. The sample was individually tested after conditioning in the test environment for at least 24 hours prior to conducting the test.

The complete detailed procedures may be found in the referenced specification and are only summarized herein.

No. of Sample:

1 piece (Sample #1). For more sample information and pictures, please refer to the following page.

Test	Test Description and Requirements	Test Results
4	Stability Test	
4.2	Stability with Extendible Members Open Test Gradually open the loaded extendible element(s) to the fullest extension the unit will allow. (Open simultaneously if there are two extendible elements). The unit shall not tip over. If open extendible members prevent the unit from tipping over due to contact with the test platform, the unit does not meet the acceptance criteria.	N/A
4.3	Stability Under Vertical Load Test Place a 305 mm (12 in.) diameter disk so that its center is 178 mm (7 in.) from the edge of the top at the least stable location. Place a 57 kg (125 lb.) static load on the disk. The unit shall not tip over. If open extendible members prevent the unit from tipping over due to contact with the test platform, the unit does not meet the acceptance criteria.	PASS
4.4	Horizontal Stability Test for Desk/Tables with Casters Apply a 11.4 kg (25 lb) static load through a 203 mm (8 in.) diameter disk centered 102 mm (4 in.) from the edge of the top of the desk/table at the least stable location. Gradually apply a horizontal force to the leading edge of the top surface, until 44.5 N (10 lbf.) is reached, or the product tilts to 10 degrees minimum, whichever occurs first. The unit shall not tip over. If an extendible element(s) opens during the test and prevents the unit from tipping over due to contact with the test platform, the unit does not meet the acceptance criteria.	N/A
4.5	Stability Test for Keyboard/Laptop Tables Apply a 11.4 kg (25 lb) static load through a 203 mm (8 in.) diameter disk centered 102 mm (4 in.) from the edge of the top of the desk/table at the least stable location. Gradually apply a horizontal force to the leading edge of the top surface, until 44.5 N (10 lbf.) is reached, or the product tilts to 10 degrees minimum, whichever occurs first. The unit shall not tip over.	N/A

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Test	Test Description and Requirements	Test Results
4.6	<p>Force Stability Test for Tall Desk/Table Products Apply the horizontal forces through the center of a disk that is 203 mm (8 in.) in diameter. Gradually increase the force until 177 N (40 lbf.) is reached, or the product tilts to 10 degrees. The unit shall not tip over, and there shall be no loss of serviceability. Assembled desk/table products shall not disengage. If an extendible element(s) opens during the test and prevents the unit from tipping over due to contact with the test platform, the unit does not meet the acceptance criteria.</p>	N/A
5	Unit Strength Tests	
5.2	<p>Concentrated Functional Load Test Apply the specified concentrated load to the primary surface per Table 1 through a 305 mm (12 in.) diameter disk so that its center is 178 mm (7 in.) from the unit's edge at its apparent weakest point. Loads shall be allowed to remain for 60 minutes and then removed. There shall be no loss of serviceability. Upon completion of the test, the extendible member(s) shall meet the pull force requirements of Section 19.</p>	PASS
5.3	<p>Distributed Functional Load Test Depending on the desk/table surface classification, apply the specified distributed loads per Table 1 for 60 minutes and then removed. There shall be no loss of serviceability. Upon the completion of the test, the extendible member(s) shall meet the pull force requirements of Section 19.</p>	PASS
5.4	<p>Concentrated Proof Load Test The setup shall be performed per Section 5.2.1 with the appropriate concentrated proof load per Table 1, Loads shall be allowed to remain for 15 minutes and then removed. There shall be no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable.</p>	PASS
5.5	<p>Distributed Proof Load Test Perform the setup per Section 5.3.1 using the appropriate distributed proof loads per Table 1, Loads shall be allowed to remain for 15 minutes and then removed. There shall be no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable.</p>	PASS
5.6	<p>Transaction Surface Torsion Load Test Attach a strap or stranded metallic cable to one edge of the transaction surface at its apparent weakest point. Attach a 34 kg (75 lb.) weight to the free end of the strap or cable for 15 minutes. There shall be no loss of serviceability.</p>	N/A
5.7	Extendible Element Static Load Tests	
5.7.2	<p>Extendible Element Functional Load Tests The functional loading tests for extendible elements are performed as described in Section 5.2 and 5.3 and need not be repeated if they have already been performed.</p>	N/A

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5.7.3	<p>Extendible Element Proof Load Tests Uniformly distribute a proof load per Table 1 in the selected extendible element. Close the extendible element and allow the load to remain for 15 minutes. Open the extendible element, allow the load to remain for 15 minutes, and then remove the load. There shall be no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable.</p>	N/A
5.8	<p>Benching Systems - Distributed Functional Load and Stability Test Apply the distributed functional loads from Table 1 to the primary surface(s) evenly distributed and centered over a line 178 mm (7 in.) in from the edge along the front (working) edge. For surfaces that are less than 406 mm (16 in.) deep, evenly distribute the load across the surface. Loads shall be allowed to remain for 60 minutes. There shall be no loss of serviceability. The system shall not tip over.</p>	N/A
5.9	<p>Benching Systems - Distributed Proof Load Test Perform the setup per Section 5.8.1 except the unit shall be secured (to prevent tipping) for the Proof Load Test. Apply the appropriate distributed proof loads per Table 1 to all primary surfaces and functional loads (distributed for surface loadings) to all secondary surfaces and extendible elements. The largest two extendible elements shall be fully opened for the duration of the test. If the unit contains an interlock that will not allow two extendible elements to be opened simultaneously, open the largest capacity extendible element. If necessary, the closed extendible elements may be secured to assure they remain closed throughout the test. Loads shall be allowed to remain for 15 minutes. There shall be no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable.</p>	N/A
6	<p>Top Load Ease Cycle Test The bag of 200 lbs (91kg) shall be raised until the entire weight is off the primary surface and then eased (without impact) onto the primary surface for a total of 10,000 cycles, so that it takes the entire weight without any support from the cycling device. There shall be no loss of serviceability to the unit. Before and after the cycling test, the extendible elements shall meet the pull force test requirements in Section 19.</p>	PASS
7	<p>Desk / Table Unit Drop Test Determine the weight of the unloaded desk/table unit to be tested. Raise one end of the long axis of the unloaded unit so that the bottom of the base is above the test platform at the height given in Table 3. The end of the unit being tested shall be released and allowed a free fall to the test platform. There shall be no loss of serviceability. Before and after the drop test, the extendible elements shall meet the pull force test requirements in Section 19.</p>	PASS

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8.3	<p>Leg Strength Test – Functional Attach a loading device to the support member to be loaded. The placement of the loading device shall be within 25 mm (1 in.) of the end of the support member/glide assembly that makes contact with the floor. Individually and separately apply the functional horizontal forces ("A" and "B"). No loss of serviceability shall occur as a result of the application of the functional loads. After application of the functional loads, each extendible element in a leg-attached desk pedestal shall be tested to and meet the pull force requirements of Section 19. For tilt-top tables, release of the top latching mechanism during the test is considered a loss of serviceability.</p>	PASS
8.5	<p>Leg Strength Test – Proof Repeat the above functional test producer with proof force. Application of the proof loads shall cause no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable.</p>	PASS
9	<p>Separation Tests for Tall Desk / Table Products Place a 136 kg. (300 lb.) load in the center of the primary surface of the desk/table unit to prevent the unit from tipping during the test. Swing a bag that is 203 mm (8 in.) in diameter, weighing 22 kg (50 lb.) and suspended on a cable, through a horizontal distance of 609 mm (24 in.). Impact the unit once each at the specified locations. The attached or stackable units shall not become totally separated (fall off) from the base unit as the result of the impact sequence given. Loss of serviceability is acceptable. Cracked or broken glass is not acceptable.</p>	N/A
10	<p>Extendible Element Cycle Test</p>	
10.2	<p>Cycle Test for Extendible Element Deeper Than Wide The extendible element being tested shall be uniformly loaded to the functional load per Table 1. The extendible element shall be subjected to 50,000 cycles. There shall be no loss of serviceability. Before and after the cycle test, the extendible element(s) shall meet the pull force requirements of Section 19. After the cycle test, the extendible elements, if applicable shall meet the interlock test requirements of Section 13.</p>	N/A
10.3	<p>Cycle Test for Extendible Element Wide Than Deeper The extendible element being tested shall be uniformly loaded to the functional load per Table 1. The extendible element shall be subjected to 50,000 cycles per Table 4. There shall be no loss of serviceability. Before and after the cycle test, the extendible element(s) shall meet the pull force requirements of Section 19. After the cycle test, the extendible elements, if applicable shall meet the interlock test requirements of Section 13.</p>	N/A
10.4	<p>Cycle Test for Low Height Drawers The low height drawer shall be uniformly loaded per Table 1 and subjected to 10,000 cycles. There shall be no loss of serviceability. Before and after the cycle test, the low height drawer shall meet the pull force requirements of Section 19.</p>	N/A

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Test	Test Description and Requirements	Test Results
11	<p>Extendible Element Retention Impact and Durability (Out Stop) Tests</p> <p>The extendible element being tested shall be uniformly loaded to the functional load per Table 1. A stranded metallic cable shall be attached to the most rigid point of the vertical centerline of the extendible element. Remove the weight restraint. Move the fully extended extendible element 51 mm (2 in.) toward the closed position and then release it rapidly, allowing it to impact the out stop. The distance traveled by the weight shall not be restrained. This procedure shall be repeated 15,000 cycles at a rate of 14 ± 6 cycles per minute. There shall be no loss of serviceability. After performing the Retention Tests, the extendible element shall meet the pull force requirements of Section 19.</p>	N/A
12	<p>Extendible Element Rebound Test</p> <p>The extendible element to be tested shall be loaded to the functional load requirements in Table 1. The extendible element shall be opened (through the free travel space) against the force gauge to a force of 9.8 N per kg (1 lbf./pound) of extendible element load or 178 N (40 lbf.), whichever force is less. Release the extendible element allowing the force applied by the force gauge to close the extendible element. Record the at-rest position of the extendible element after rebound. There shall be no loss of serviceability. The rebound position of the extendible element shall not exceed 38 mm (1.5 in.) from its closed position after each of the five closings.</p>	N/A
13	<p>Interlock Strength Test</p> <p>An extendible element without load shall be fully extended, and a horizontal force of 133 N (30 lbf.) shall be individually applied to the center of the pull area(s) of the remaining extendible elements, one at a time. There shall be no loss of serviceability to the interlock system. The unopened extendible elements shall not bypass the interlock system.</p>	N/A
14	<p>Lock Tests</p>	
14.2	<p>Force Tests for Extendible Element Lock</p> <p>A horizontal outward force of 222 N (50 lbf.) shall be applied once at each of the applicable locations indicated in the test setup. An outward and upward force (30 degrees from horizontal) of 222 N (50 lbf.) shall be applied once at each of the applicable locations indicated in the test setup. All extendible elements in the unit shall be uniformly loaded with the functional load per Table 1 and repeat above tests. The extendible elements shall remain in the normal locked position during application of the forces. There shall be no loss of serviceability of the locking mechanism.</p>	N/A
14.3	<p>Force Tests for Door Lock</p> <p>Apply a force of 222 N (50 lbf.) in the direction of initial door travel. The doors shall remain in the normal locked position during application of the forces. There shall be no loss of serviceability of the locking mechanism.</p>	N/A

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14.4	<p>Locking Mechanism Cycle Test Cycle the locking mechanism through its full range of motion for 5000 cycles. Each cycle shall consist of a complete locking and unlocking of the mechanism. There shall be no loss of serviceability of the locking mechanism.</p>	N/A
15	<p>Work Surface Vertical Adjustment Test Apply a test load of 45 kg (100 lb.) through a 305 mm (12 in.) diameter disk with the center of the disk on a line 305 mm (12 in.) in from the working edge of the surface or at the midpoint, whichever is nearer the working edge. The unit, including any latches or activation mechanisms, shall be cycled for 1000 cycles in each quartile of full travel for a total of 4000 cycles. There shall be no loss of serviceability to the unit. For tables with crank driven height adjustment mechanisms, the operating force on the handle to adjust the table shall not exceed 50 N (11.2 lbf.) before or after the test.</p>	N/A
16	<p>Keyboard Support and Input Device Support Adjustment Tests Apply an evenly distributed 4.5 kg (10 lb.) load across the keyboard support surface. The adjustable keyboard support and input device support shall be subjected to 2500 cycles. There shall be no loss of serviceability.</p>	N/A
17	<p>Door Test</p>	
17.2	<p>Strength Test for Vertical Hinged Doors, Bi-fold Doors, and Vertically Receding Doors Attach the specified load per Table 6 so that it is equally distributed on both sides of the door and its center of gravity acts 100 mm (4 in.) from the edge of the door opposite the hinge. Cycle the door 10 times from a position 45 degrees from fully closed to a position 10 degrees from fully open (but not more than 135 degrees) and return. For bi-fold doors, cycle the door from a position 50 mm (2 in.) from fully closed to a position 50 mm (2 in.) from fully open and return. There shall be no loss of serviceability to the unit.</p>	N/A
17.3	<p>Hinge Override Test for Vertically Hinged Doors Apply a 60 N (13.5 lbf.) horizontal force perpendicular to the plane of the door on its horizontal centerline 100 mm (4 in.) from the edge farthest from the hinge. There shall be no loss of serviceability to the desk/table unit or its components.</p>	N/A
17.4	<p>Vertical Receding Doors Strength Test Apply the 80 N (18 lbf.) horizontal force perpendicular to the plane of the door on its horizontal centerline 100 mm (4 in.) from the edge farthest from the hinge for 10 times. Repeat the test with the force application to the opposite side of the door. There shall be no loss of serviceability to the desk/table unit or its components.</p>	N/A
17.5	<p>Horizontal Receding Doors Strength Test Apply the 80 N (18 lbf.) downward force perpendicular to the plane of the door on its horizontal centerline 25 mm (1 in.) from the edge farthest from the hinge for 10 times. There shall be no loss of serviceability to the desk/table unit or its components.</p>	N/A

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17.6	<p>Wear and Fatigue Test for Hinged, Horizontally Sliding, and Tambour Doors</p> <p>Cycle the door for a total of 20,000 cycles as specified in Table 7 (See page 81). The cyclic rate shall be 12 ± 4 cycles per minute unless the rate is controlled by the door operating mechanisms. There shall be no loss of serviceability to the desk/table unit or its components.</p>	N/A
17.7	<p>Wear and Fatigue Test for Vertical Receding Doors</p> <p>Cycle the door for a total of 10,000 cycles. Before and after the cycle test, the door shall meet the pull force requirements of Section 19. The door shall have no loss of serviceability.</p>	N/A
17.8	<p>Wear and Fatigue Test for Horizontal Receding Doors</p> <p>The door shall be cycled according to the requirements of Table 7. The door may be supported in a horizontal plane during the pull force test. Before and after the cycle test, the door shall meet the pull force requirements of Section 19. The door shall have no loss of serviceability.</p>	N/A
17.9.3	<p>Vertical and Horizontal Receding Door Out Stop Test – Cyclic Impact</p> <p>The door with stranded metallic cable and hanging weight shall be held 38 mm (1.5 in.) from the closed position and then released, permitting it to open rapidly and impact the out stops for a total of 5 times. There shall be no loss of serviceability. Before and after performing the cyclic out stop test, the extendible element shall meet the pull force requirements of Section 19.</p>	N/A
17.9.4	<p>Vertical and Horizontal Receding Door Out Stop Test – Cyclic Durability</p> <p>A device shall be used to move the door 51 mm (2 in.) toward the stowed position and then to release it rapidly, allowing it to impact the out stop. This procedure shall be repeated 5000 cycles at a rate of 10 ± 2 cycles per minute. There shall be no loss of serviceability. Before and after performing the cyclic out stop test, the extendible element shall meet the pull force requirements of Section 19.</p>	N/A
17.10	<p>Slam Closed Test for Vertically Hinged and Vertically Receding Doors</p> <p>Load door shelves according to Table 1. The door with cable and hanging weight shall be held at 300 mm (12 in.) or 30 degrees from the closed position and then released, permitting the door to close, allowing it to impact the desk/table product case. Repeat this procedure for a total of 10 times without resetting the loading gaps. There shall be no loss of serviceability.</p>	N/A
17.11	<p>Drop Cycle Test for Horizontally Hinged and Horizontally Receding Doors</p> <p>The door shall be lifted and dropped 200 times at a rate not to exceed 10 cycles per minute. There shall be no loss of serviceability to the desk/table unit or its components.</p>	N/A
17.12	<p>Slam Test for Doors Which Free Fall Open or Closed</p> <p>Allow the door to fall freely/open freely. Repeat for 50 cycles in each direction. There shall be no loss of serviceability to the desk/table unit or its components.</p>	N/A

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17.13	<p>Slam Open and Closed Test for Doors That Do Not Free Fall Move the door, lifting the weight so the door will travel 300 mm (11.8 in.) or to the doorstop opposite the one to be impacted, whichever is less. Release the door, permitting the door to move rapidly, allowing it to impact the doorstop for 10 times. Repeat above test, impact the opposite door stop on the same door. There shall be no loss of serviceability to the desk/table unit or its components.</p>	N/A
17.14	<p>Door Latch Test Operate the latch 20,000 times. There shall be no loss of serviceability to the door or its latching mechanism.</p>	N/A
18	<p>Durability Test for Desks and Tables with Casters Cycle the desk/table unit for the appropriate number of cycles over a platform with and without obstructions. There shall be no loss of serviceability to a caster or the desk/table.</p>	N/A
19	<p>Pull Force Test Open the extendible element or door from its fully closed position to its fully extended position while measuring the maximum force. The applied force shall not exceed 50 N (11.2 lbf.)</p>	N/A
20	<p>Tilting Top Table -- Cycle Test Move the table top from its in-use position (typically its horizontal or near horizontal position) to its fully stowed position (typically vertical or near vertical) and then return to its in-use position for 2,500 cycles. The cycle rate shall not exceed 10 cycles per minute. There shall be no loss of serviceability and the table top shall be able to move throughout its range of motion.</p>	N/A
21	<p>Tilting Top Table – Latch Strength Test Apply an upward force of 222 N (50 lbs.) 25 mm (1 in.) inward and at the center of the edge of the table top in the direction that would typically move the table top into its stowed position. With lock/latch engaged, apply a horizontal force of 133 N (30 lbs.) at the center of the edge of the table top in the direction that would typically move the table top into its in-use position. The lock/latch shall retain the top in its test position throughout the application of the test force(s). There shall be no loss of serviceability to the unit.</p>	N/A
22	<p>Monitor Arm Strength Test Extend the monitor arm to its most horizontally extended (worst case) position. A test weight simulating the weight of a monitor shall be placed on the monitor arm in accordance with the manufacturer's maximum load rating. The simulated weight shall not exceed 76 mm (3 in.) in thickness. If no manufacturer's load rating is provided, apply a test weight of 20 kg (44 lbs.). Apply the test weight for 60 minutes. There shall be no loss of serviceability.</p>	N/A

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Test	Test Description and Requirements	Test Results
23	<p>Monitor Arm Cycle Test</p> <p>A test weight simulating the weight of a monitor shall be placed on the monitor arm in accordance with the manufacturer's maximum load rating. The simulated weight shall not exceed 76 mm (3 in.) in thickness. If no manufacturer's load rating is provided, apply a test weight of 20 kg (44 lbs.). Move the monitor arm through its entire range of motion(s) for 2,500 cycles, A cycle shall consist of the 90-95% of the adjustment range. There shall be no loss of serviceability. Clamping or clutch mechanisms shall remain functional. Tensioning mechanisms must be capable of being reset to hold the monitor in its pretest position.</p>	N/A
24	<p>Monitor Arm Adapter Dislodgement Test</p> <p>A mock up monitor (test fixture) of the manufacturer's maximum rated load and size shall be attached to the monitor arm adapter in a manner that simulates the manufacturer's recommended attachment method. If no load or size is specified, the mock-up monitor shall weigh 20 kg (44 lbs) and have a diagonal dimension of 762 mm (30 in.) with a 16:9 ratio of length to height and a depth no greater than 76 mm (3 in.). Apply a horizontal force of 40 N (9 lbf.) in three directions, There shall be no loss of serviceability.</p>	N/A

Remark:

1. N/A – Not applicable; N/R – Not requested; N/P – Not provided.
2. For the sample information and pictures, please refer to the following page.



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SAMPLE INFORMATION AND PICTURES

Weight: 31.55 kg

Overall Dimensions: 1200 mm L x 680 mm W x (760~1175) mm H

Other Dimensions: /

Sample as Received



End of Report

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