

Test Report

No.: 70.435.20.20927.01-00

Dated: 2020-06-23



Greater China

Applicant: Wholesale Superstore
Address: 23 Clyde St Islington NSW 2296 Australia
Sample Submission: The samples were submitted by applicant and identified.
Product Name: 1800KGS HYDRAULIC GARAGE JACK
Order No.: /
Identification/Style No.: MQ-649J
Manufacturer: Zhejiang Mingqiang Robot Co., Ltd
Country of Origin: China
Buyer: /
Export to: Australia
Receipt Date of Sample: 2020-06-12
Date of Testing: From 2020-06-15 to 2020-06-19
Test Result: Refer to the data listed in following pages

Test Specification(s) or Test Item(s):

- 1. AS 2615:2016
-Excluding clause 8, clause 9

Conclusions:

Pass

Hardline Laboratory

TÜV SÜD Certification and Testing (China) Co., Ltd.
Shanghai Branch Test Center

Project Handler: Markus

Qiang Sun

Project Manager

2020.06.23

Reviewed By: Hanoch

Shanzhong Yu

Project Manager

2020.06.23

Note: (1) "General Terms & Conditions" applied. For full version, please visit: <http://www.tuv-sud.cn/cn-scn/terms-and-conditions>
2) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. 3) The conclusion of test result was drawn according to corresponding regulation or standard method and/or client's requirement

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Description of the test subject:

1	Product Description	1800KGS HYDRAULIC GARAGE JACK	
	<i>Product details</i>		
2	Dimensions / Weight	Claimed	
		Nominated capacity (kg):	1800
		Minimum height (mm):	70
		Maximum height (mm):	505
		Length of lever (mm):	1367
		Net weight (kg):	36

Photo of sample



Test Results:

1. AS 2615:2016 excluding clause 8, clause 9

Item	Requirement -test item	Result, Remark	Evaluation
1 SCOPE			
2 OBJECTIVE			
3 REFERENCED DOCUMENTS			
4 DEFINITIONS			
5 DESIGN AND CONSTRUCTION			
5.1	<p>General</p> <p>The hydraulic trolley jack shall be designed and constructed so as to comply with all the relevant requirements specified in this Standard. It shall be free from defects that would affect its durability or serviceability and all screws, pins, bolts and similar parts shall have effective means for preventing loss of proper tightness and adjustment. All bearings and moving parts requiring periodic lubrication shall be provided with readily accessible means of applying lubrication.</p> <p>The hydraulic trolley jack 's hydraulic cylinders shall be filled with correct hydraulic fluid to the recommended level.</p> <p>If the hydraulic trolley jack supplied is not fully lubricated, necessary instructions for initial lubrication shall be supplied.</p>	Comply with the requirements.	P
5.2	<p>Material</p> <p>All materials used in the construction of the hydraulic trolley jack shall have properties withstand the force when tested in according with Appendices A to F.</p>	No failure occurred after test.	P
5.3	<p>Protective coating</p> <p>A suitable protective coating shall be applied to the hydraulic trolley jack, except for mating surfaces or sliding parts.</p>	Corrosion protective coating was applied, except for mating surfaces and sliding parts.	P

<p>5.4</p>	<p>Head cap</p> <p>The head cap of the hydraulic trolley jack shall comply with the following requirements:</p> <p>(a) The head cap diameter shall be no smaller than 78% of the width between the side plates of the hydraulic trolley jack measured across the front axle.</p> <p>(b) The head cap shall be free to rotate about a vertical axis.</p> <p>(c) The head cap shall remain parallel to the base within +/-5 degrees during the lifting cycle at the nominated capacity.</p> <p>(d) The head cap shall be capable of retaining a horizontal cylindrical bar of 100mm nominal diameter when the hydraulic trolley jack assembly is inclined 5 degrees to the horizontal and the head cap is inclined to its maximum out of parallel in the same direction.</p> <p>(e) The head cap shall remain, throughout the lifting cycle, vertically above the projected plan area of the base of the hydraulic trolley jack.</p>	<p>(a) Diameter of head cap: Ø98mm Width between the side plates:153mm Percent:64%</p> <p>According to “Consumer Goods (Trolley Jacks) Safety Standard 2017”, the clause (a) can be waived.</p> <p>(b) Comply with the requirements.</p> <p>(c) Comply with the requirements.</p> <p>(d) Comply with the requirements.</p> <p>(e) Comply with the requirements.</p>	<p>P</p>
<p>5.5</p>	<p>Overload protection</p> <p>The hydraulic trolley shall be provided with a means of protection against the raising of the head cap under a load in excess of 15% above its nominated capacity. This measurement shall be recorded when the top of the lifting arm is at the horizontal ±2°.</p>	<p>Nominated capacity:1800kg(17.64kN)</p> <p>Measured max. load:20.11kN</p> <p>Overload protection:114%</p>	<p>P</p>
<p>5.6</p>	<p>Prevention of over travel</p> <p>The hydraulic trolley jack shall be provided with a positive stop to prevent over travel or the design of the hydraulic trolley jack shall be such that overtravel is effectively prevented.</p> <p>When the hydraulic trolley jack is tested in accordance with Appendix A, it shall not be possible to induce any overtravel.</p>	<p>Hydraulic limitation was provided.</p> <p>When the hydraulic trolley jack was tested in accordance with Appendix A, it was not possible to induce any overtravel.</p>	<p>P</p>

5.7	<p>Minimum capacity</p> <p>The nominated capacity of the hydraulic trolley shall be not less than 750Kg.</p>	<p>The nominated capacity: 1800kg</p>	P
6 PERFORMANCE			
6.1	<p>Test procedure</p> <p>The performance tests set out in Clause 6.2 to 6.7 shall be carried out in such a manner that the force imposed on the head cap of the hydraulic trolley jack are transmitted to the hydraulic trolley jack's hydraulic lifting system at all times. A new hydraulic trolley jack may be use for each test if required. Expect for further testing. any hydraulic trolley jack subjected to test in Clause 6.2, 6.6 and 6.7 shall not be re-used.</p>	<p>Informative.</p>	-
6.2	<p>Durability</p> <p>When tested in accordance with Appendix A, the hydraulic trolley jack shall not fail, or become unserviceable.</p>	<p>After test, no fail or become unserviceable.</p>	P
6.3	<p>Ease of operation</p> <p>When the hydraulic trolley jack is tested in accordance with appendix A, neither the initial operating force nor the operating force after conditioning shall be greater than 450N. Where operating force exceeds 450N, Appendix F shall be used to determine the maximum capacity of the hydraulic trolley jack to meet the 450N requirement.</p>	<p>The nominated capacity: 1800kg</p> <p>Initial operating force: 240N < 450N Operating force after conditioning: 365N < 450N</p>	P
6.4	<p>Loss of height under load</p> <p>When determined in accordance with Appendix B, the loss of height under load shall not exceed 5% of the original height of the head cap above the base plane, At the conclusion of 30 minutes, the loss of height shall not exceed 5 mm.</p>	<p>Percentage of loss of height: 2.5%</p> <p>Loss of height (after 30 minutes)=1mm</p>	P
6.5	<p>Lowering</p> <p>The hydraulic trolley jacks shall provide an operator-activated, controlled lowering mechanism.</p> <p>When the hydraulic trolley jack is tested in accordance with Appendix C, the operator shall</p>	<p>Full range:454mm The displacement is 2mm The percentage:0.4%</p>	P

	<p>be able to stop the head cap at a given point during the descent within a distance equal to 5% of the full range of travel of the head cap, without hazard to the operator or damage to the hydraulic trolley jack.</p>		
6.6	<p>Overload capacity</p> <p>When tested in accordance with Appendix D, a hydraulic trolley jack shall</p> <p>(a) not collapse or become unstable;</p> <p>(b) not suffer a loss of height of the head cap greater than 5% of the original height of the head cap; and</p> <p>(c) be capable of lifting its nominated capacity load through one lifting cycle using an operating force not greater than 450N. Where the operating force exceeds 450N, Appendix F shall be used to determine the maximum capacity of the hydraulic trolley jack to meet the 450N requirement.</p>	<p>(a) The jack did not collapse or become unstable;</p> <p>(b) The loss of height was 0.3%(1mm) of initial height.</p> <p>(c) The jack was capable of lifting its nominated capacity load through one lifting cycle and the operating force is 280N.</p>	P
6.7	<p>Eccentric load test</p> <p>When tested in accordance with Appendix E, a hydraulic trolley jack shall</p> <p>(a) not fail when tested for stability in accordance with Paragraph E3, Items (k) and (u);</p> <p>(b)not collapse or suffer permanent deformation;</p> <p>(c) not suffer a loss of height of the head cap greater than 5% of its original height;</p> <p>(d) be capable of lifting its nominated capacity load through one lifting cycle using an operating force not great than 450N or where operating force exceeds 450N, Appendix F shall be used to determine the maximum capacity of the hydraulic trolley jack to meet the 450N requirement; and</p> <p>(e)be such that the projected force remains within the projected plan area of the trolley jack; and</p>	<p>(a) Did not fail or became unstable during test.</p> <p>(b)Did not collapse or suffer permanent deformation after test.</p> <p>(c)The percentage of loss of height of the head cap at point 'Y'=1.8% The percentage of loss of height of the head cap at point 'X'=0.3%</p> <p>(d) The jack was capable of lifting its nominated capacity load through one lifting cycle and the operating force is 275N.</p> <p>(e) The projected force remains within the projected plan area of the trolley jack.</p> <p>(f) The head cap of the hydraulic trolley jack remained free to rotate about a</p>	P



	(f)be such that the head cap of the hydraulic trolley jack remains free to rotate about a vertical axis.	vertical axis after test.	
7	MODIFICATIONS Any modification carried out or accessories added to a hydraulic trolley jack shall require retesting of the modified jack to this Standard.	Informative.	-
8	MARKING	Not requested by client.	N/R
9	INSTRUCTIONS	Not requested by client.	N/R

APPENDIX A

TESTS FOR DURABILITY, EASE OF OPERATION AND PREVENTION OF OVERTRAVEL

(Normative)

Refer to Appendix A of AS 2615:2016

APPENDIX B

TEST FOR LOSS OF HEIGHT UNDER LOAD

(Normative)

Refer to Appendix B of AS 2615:2016

APPENDIX C

STOP TEST DURING THE LOWERING OF THE HYDRAULIC TROLLEY JACK

(Normative)

Refer to Appendix C of AS 2615:2016

APPENDIX D

OVERLOAD TEST

(Normative)

Refer to Appendix D of AS 2615:2016

APPENDIX E

ECCENTRIC LOAD AND STABILITY TEST

(Normative)

Refer to Appendix E of AS 2615:2016

APPENDIX F

ESTABLISHMENT OF NOMINATED CAPACITY

(Normative)

Refer to Appendix F of AS 2615:2016

Abbreviation: P=Pass; F=Fail; N/A=Not Applicable; N/T = Not Tested; N/R = Not Requested

-End of Test Report-