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CNAS L3150



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Test Report

No.: EDG2201130135C00101RM1

Date: Feb. 28, 2022

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Applicant : SHANTOU TENGXIN EDU-TOYS INDUSTRIAL CO.,LTD
Address : CHENGHAI DISTRICT,SHANTOU CITY,GUANGDONG PROVINCE,CHINA

Sample Name : DIY SCIENCE TOYS
Style/Item No. : Please refer to the page 3
Labeled Age Grading : 3+
Requested Age Grading : 3+
Age Group Applied in Testing : Over 3 years

Received Date : Jan. 13, 2022
Test Period : Jan. 13, 2022 ~ Jan. 24, 2022
Revise Date : Feb. 28, 2022

Test Requested : As requested by the client, according to the following standards to perform the related testings.
1) EN71-1: 2014+A1: 2018 – Physical and Mechanical Tests
2) EN 71-2: 2020 – Flammability Test
3) 2009/48/EC – Toy Safety Directives Label Assessment
4) EN71-3: 2019+A1: 2021 – Migration of certain elements

Test Results : Please refer to next page (s).

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EMTEK(Dongguan) Co., Ltd. 邮箱: E-mail: project@emtek.com.cn

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Test Report

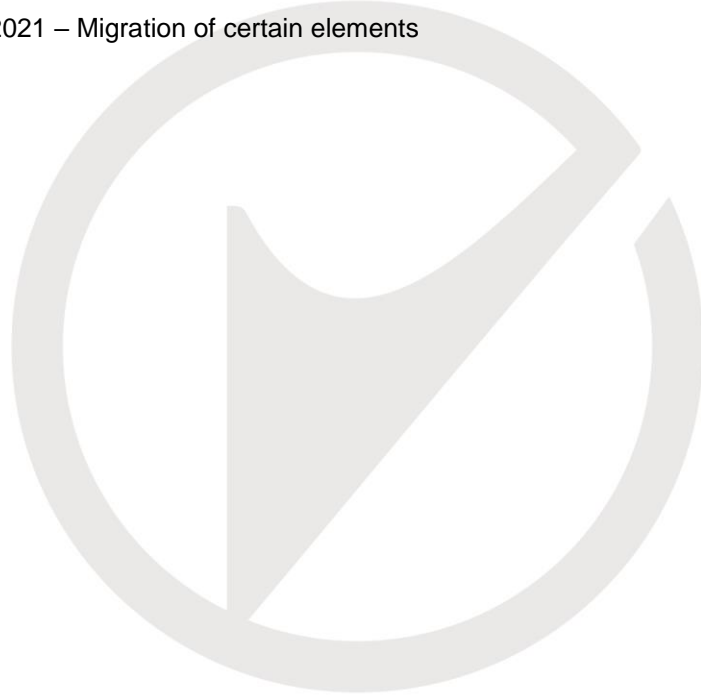
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Executive Summary:

STANDARD	CONCLUSION
1) EN71-1: 2014+A1: 2018 – Physical and Mechanical Tests	PASS
2) EN 71-2: 2020 – Flammability Test	PASS
3) 2009/48/EC – Toy Safety Directives Label Assessment	SEE RESULT
4) EN71-3: 2019+A1: 2021 – Migration of certain elements	PASS



Signed for and on behalf of
EMTEK(Dongguan) Co., Ltd.

Prepared by:



Wu Jiali, Garli
Report Engineer

Reviewed by:



Zhang Hongjing, Carrie
Supervisor

Approved by:



Li Wei, Lisa
Authorized signatory
Feb. 28, 2022

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Style/Item No.

TXMR-001、TXMR-002、TXMR-003、TXMR-004、TXMR-005、TXMR-006、TXMR-007、TXMR-008、
TXMR-009、TXMR-010、TXMR-011、TXMR-012、TXMR-013、TXMR-014、TXMR-015、TXMR-016、
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TXMR-289、TXMR-290、TXMR-291、TXMR-292、TXMR-293、TXMR-294、TXMR-295、TXMR-296、
TXMR-297、TXMR-298、TXMR-299、TXMR-300

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Test Results:

1) Mechanical and Physical Tests:

AS SPECIFIED IN EUROPEAN STANDARD ON SAFETY OF TOYS EN71 PART 1: 2014+A1: 2018

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	General requirements	
4.1	Material cleanliness (by visual assessment).....	Pass
4.2	Assembly.....	N/A
4.3	Flexible plastic sheeting.....	N/A
4.4	Toy Bags	N/A
4.5	Glass	N/A
4.6	Expanding Materials	N/A
4.7	Edges	Pass
4.8	Points and Metallic Wires	Pass
4.9	Protruding parts	N/A
4.10	Parts moving against each other:	
4.10.1	Folding and sliding mechanisms	N/A
4.10.2	Driving mechanisms	N/A
4.10.3	Hinges.....	N/A
4.10.4	Springs	N/A
4.11	Mouth-actuated toys and other toys intended to be put in the mouth.....	N/A
4.12	Balloons	N/A
4.13	Cords of toy kites and other flying toys	N/A
4.14	Enclosures:	
4.14.1	Toys which a child can enter	N/A
4.14.2	Masks and helmets	N/A
4.15	Toys intended to bear the mass of a child:	
4.15.1	Toys propelled by a child or by other means	N/A
4.15.2	Toy bicycles.....	N/A
4.15.3	Rocking horses and similar toys	N/A
4.15.4	Toys not propelled by a child	N/A
4.15.5	Toy scooters.....	N/A
4.16	Heavy immobile toys	N/A
4.17	Projectile toys.....	N/A
4.18	Aquatic toys and inflatable toys.....	N/A

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<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	N/A
4.20	Acoustics	N/A
4.21	Toys containing a non-electrical heat source	N/A
4.22	Small balls	N/A
4.23	Magnets.....	N/A
4.24	Yo-yo balls.....	N/A
4.25	Toys attached to food.....	N/A
4.26	Toy Disguise Costumes.....	N/A
4.27	Flying toys.....	N/A
5	Toys intended for children under 36 months	
5.1	General requirements.....	N/A
5.2	Soft-filled toys and soft-filled parts of a toy	N/A
5.3	Plastic sheeting	N/A
5.4	Cords, chains and electrical cables in toys	N/A
5.5	Liquid filled toys	N/A
5.6	Speed limitation of electrically-driven ride-on toys	N/A
5.7	Glass and porcelain	N/A
5.8	Shape and size of certain toys	N/A
5.9	Toys comprising monofilament fibres	N/A
5.10	Small balls.....	N/A
5.11	Play figures.....	N/A
5.12	Hemispheric shaped toys.....	N/A
5.13	Suction cups.....	N/A
5.14	Straps intended to be worn fully or partially around the neck.....	N/A
5.15	Sledges with cords for pulling.....	N/A
6	Packaging	N/A
7	Warnings, markings and instructions for use	
7.1	General	Pass
7.2	Toys not intended for children under 36 months	Pass
7.3	Latex Balloons	N/A
7.4	Aquatic toys	N/A
7.5	Functional Toys	N/A
7.6	Hazardous sharp functional edges and points	N/A

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<u>Clause</u>	<u>Description</u>	<u>Result</u>
7.7	Projectile toys.....	<u>N/A</u>
7.8	Imitation protective masks and helmets	<u>N/A</u>
7.9	Toy kites	<u>N/A</u>
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	<u>N/A</u>
7.11	Toys otherwise intended to be strung across a cradle, cot, or perambulator	<u>N/A</u>
7.12	Liquid-filled teethingers	<u>N/A</u>
7.13	Percussion caps specifically designed for use in toys	<u>N/A</u>
7.14	Acoustics	<u>N/A</u>
7.15	Toy bicycles	<u>N/A</u>
7.16	Toys intended to bear the mass of a child	<u>N/A</u>
7.17	Toys comprising monofilament fibres	<u>N/A</u>
7.18	Toy scooters.....	<u>N/A</u>
7.19	Rocking horses and similar toys.....	<u>N/A</u>
7.20	Magnetic/electrical experimental sets.....	<u>N/A</u>
7.21	Toys with electrical cables exceeding 300mm in length.....	<u>N/A</u>
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months.....	<u>N/A</u>
7.23	Toys intended to be attached to a cradle, cot or perambulator.....	<u>N/A</u>
7.24	Sledges with cords for pulling.....	<u>N/A</u>
7.25	Flying toys.....	<u>N/A</u>
7.26	Improvised projectiles.....	<u>N/A</u>

N/A = Not Applicable

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Test Results:

2) Flammability Test:

AS SPECIFIED IN EUROPEAN STANDARD ON SAFETY OF TOYS EN71 PART 2: 2020

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	Requirements	
4.1	General requirements	<u>Pass</u>
4.2	Toys to be worn on the head.....	<u>N/A</u>
4.3	Toy disguise costumes and toys intended to be worn by a child in play.....	<u>N/A</u>
4.4	Toys intended to be entered by a child.....	<u>N/A</u>
4.5	Soft-filled toys.....	<u>N/A</u>

N/A = Not Applicable

3) 2009/48/EC – Toy Safety Directives Label Assessment

Summary table:

	Observation Result	Location
Cleaning instruction	Not applicable	--
CE- marking	Present	Packaging
Importer's name & address	Present	Packaging
Manufacturer's name & address	Present	Packaging
Product identification code	Present	Packaging

Note:

It is drawn to your attention that the name and address of manufacturer and importer in EEC country, toy's type, batch, serial, model number or other element allowing the identification and the advice statement for keeping relevant information together with CE-marking should appear as specified Directive 2009/48/EC.



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Test Results:

4) Migration of certain elements

Test Method: Samples were extracted in diluted hydrochloric acid in accordance with EN71-3: 2019+A1: 2021, the analysis was performed by ICP-OES.

Test Item	Test Result(mg/kg)					MDL (mg/kg)
	1	2	3	4	5	
Aluminum (Al)	ND	ND	ND	ND	ND	2
Antimony (Sb)	ND	ND	ND	ND	ND	2
Arsenic (As)	ND	ND	ND	ND	ND	2
Barium (Ba)	ND	ND	ND	ND	ND	2
Boron (B)	ND	ND	ND	ND	ND	2
Cadmium (Cd)	ND	ND	ND	ND	ND	2
Chromium (Cr ³⁺) #△★	ND	ND	ND	ND	ND	0.2
Chromium (Cr ⁶⁺) #△★	ND	ND	ND	ND	ND	0.02
Cobalt (Co)	ND	ND	ND	ND	ND	2
Copper (Cu)	ND	ND	ND	ND	ND	2
Lead (Pb)	ND	ND	ND	ND	ND	2
Manganese (Mn)	ND	ND	ND	ND	ND	2
Mercury (Hg)	ND	ND	ND	ND	ND	2
Nickel (Ni)	ND	ND	ND	ND	ND	2
Selenium (Se)	ND	ND	ND	ND	ND	2
Strontium (Sr)	ND	ND	ND	ND	ND	2
Tin (Sn)	ND	ND	ND	ND	ND	2
Organic Tin*	ND	ND	ND	ND	ND	2
Zinc (Zn)	ND	ND	ND	ND	ND	2

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Test Results:

Test Item	Test Result(mg/kg)				MDL (mg/kg)
	6	7	8	9	
Aluminum (Al)	ND	ND	ND	ND	2
Antimony (Sb)	ND	ND	ND	ND	2
Arsenic (As)	ND	ND	ND	ND	2
Barium (Ba)	ND	ND	ND	ND	2
Boron (B)	ND	ND	ND	ND	2
Cadmium (Cd)	ND	ND	ND	ND	2
Chromium (Cr ³⁺) #△★	ND	ND	ND	ND	0.2
Chromium (Cr ⁶⁺) #△★	ND	ND	ND	ND	0.02
Cobalt (Co)	ND	ND	ND	ND	2
Copper (Cu)	ND	ND	33	ND	2
Lead (Pb)	ND	ND	ND	ND	2
Manganese (Mn)	ND	ND	ND	ND	2
Mercury (Hg)	ND	ND	ND	ND	2
Nickel (Ni)	ND	ND	ND	ND	2
Selenium (Se)	ND	ND	ND	ND	2
Strontium (Sr)	ND	ND	ND	ND	2
Tin (Sn)	ND	ND	13	ND	2
Organic Tin*	ND	ND	See remark 1	ND	2
Zinc (Zn)	ND	11	ND	ND	2

- Note: 1. mg/kg = part per million = ppm ND = Not Detected (less than MDL) MDL = Method Detection Limit
- #Soluble Chromium (III) and Soluble Chromium (VI) were reported as Soluble Total Chromium, further confirmation test will be required when Total Chromium is detected.
 - *Soluble Organic Tin was reported as Soluble Tin, further confirmation test will be required when Soluble Tin is detected.
 - All the materials tested belong to scraped-off toy material by identifying.
 - △ The test about this project was completed in EMTEK (Guangzhou) Co., Ltd. by subcontracting.
 - ★ : The test about this project was not within the scope of CNAS accreditations.

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Remark 1: Organic tin content(selected)

Test Method: Samples were extracted in diluted hydrochloric acid in accordance with EN 71-3: 2019+A1: 2021, the analysis was performed by GC-MS.

Test Item	Test Result (mg/kg)
MeT	<0.1
DMT	<0.1
BuT	<0.1
DBT	<0.1
TBT	<0.1
TeBT	<0.1
MOT	<0.1
DOT	<0.1
DProT	<0.1
DPhT	<0.1
TPhT	<0.1
SUM*	<0.1

Note: 1, mg/kg = part per million = ppm

2, All above organic tin test results are expressed as TBT

3, * Only those organic tin compounds which present over 0.1ppm (expressed as TBT) are taken into account while calculating the sum of organic tin contents.

4. All the materials tested belong to scraped-off toy material by identifying.

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Requirement of migration of certain elements content according to EN71-3: 2019+A1: 2021:

Parameter	Dry, brittle, powder-like or pliable toy material (mg/kg)	Liquid or sticky toy material (mg/kg)	Scraped-off toy material (mg/kg)
Aluminum	2250	560	28130
Antimony	45	11.3	560
Arsenic	3.8	0.9	47
Barium	1500	375	18750
Boron	1200	300	15000
Cadmium	1.3	0.3	17
Chromium (III)	37.5	9.4	460
Chromium Cr(VI)	0.02	0.005	0.053
Cobalt	10.5	2.6	130
Copper	622.5	156	7700
Lead	2	0.5	23
Manganese	1200	300	15000
Mercury	7.5	1.9	94
Nickel	75	18.8	930
Selenium	37.5	9.4	460
Strontium	4500	1125	56000
Tin	15000	3750	180000
Organic tin	0.9	0.2	12
Zinc	3750	938	46000

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Tested Materials:

No.	Description
1	Black coating on plastic
2	Transparent hard plastic
3	Green hard plastic
4	Sky blue hard plastic
5	Yellow hard plastic
6	Black hard plastic
7	Black soft plastic
8	Red soft plastic
9	Natural wood

Remark: The tested parts were designated by client.

Declaration: Report EDG2201130135C00101R was repealed and replaced by Report EDG2201130135C00101RM1.

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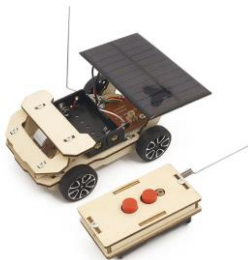
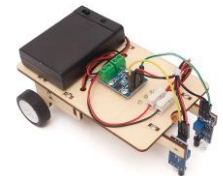
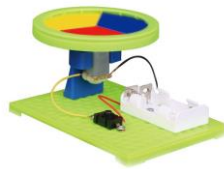
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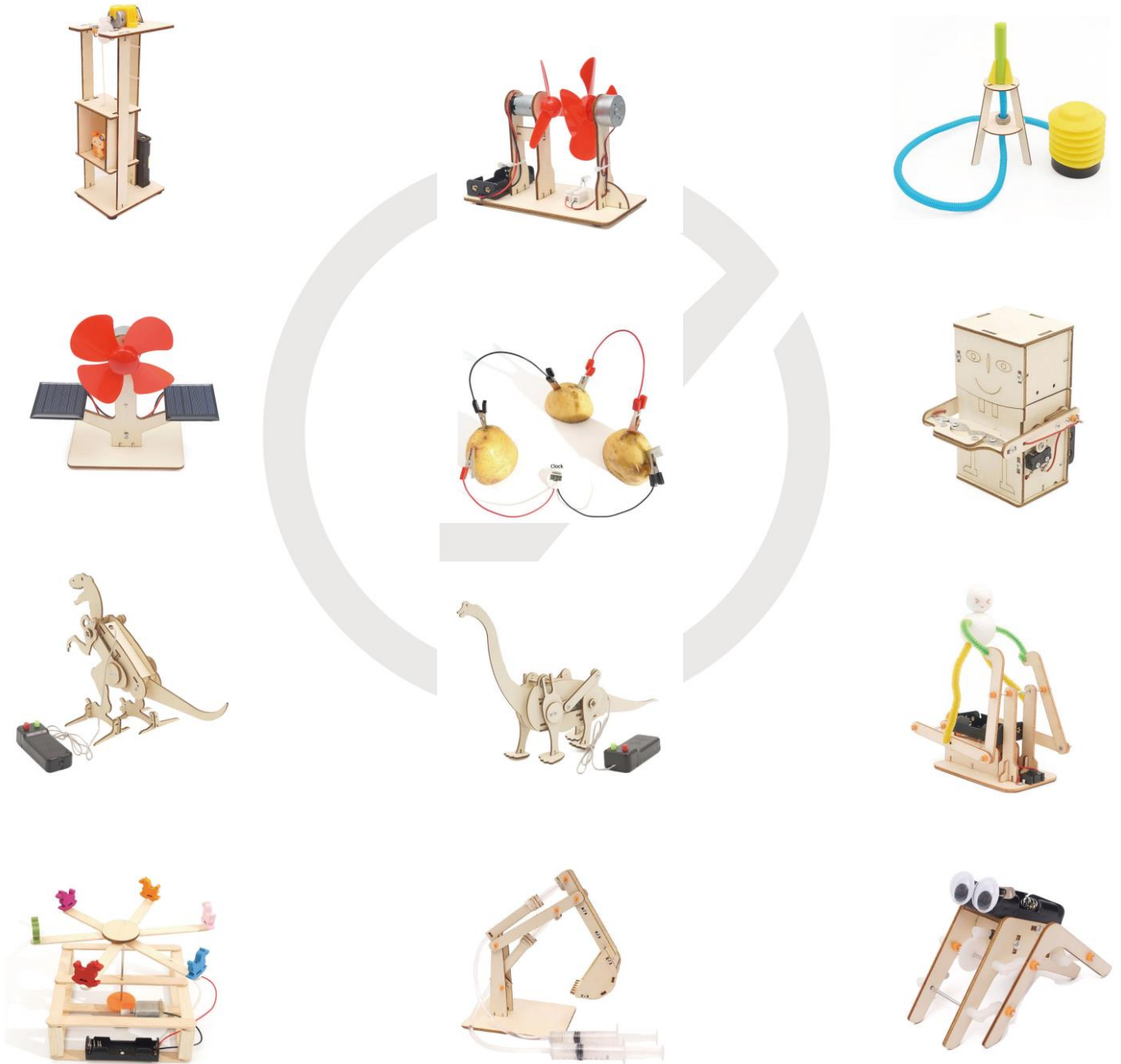
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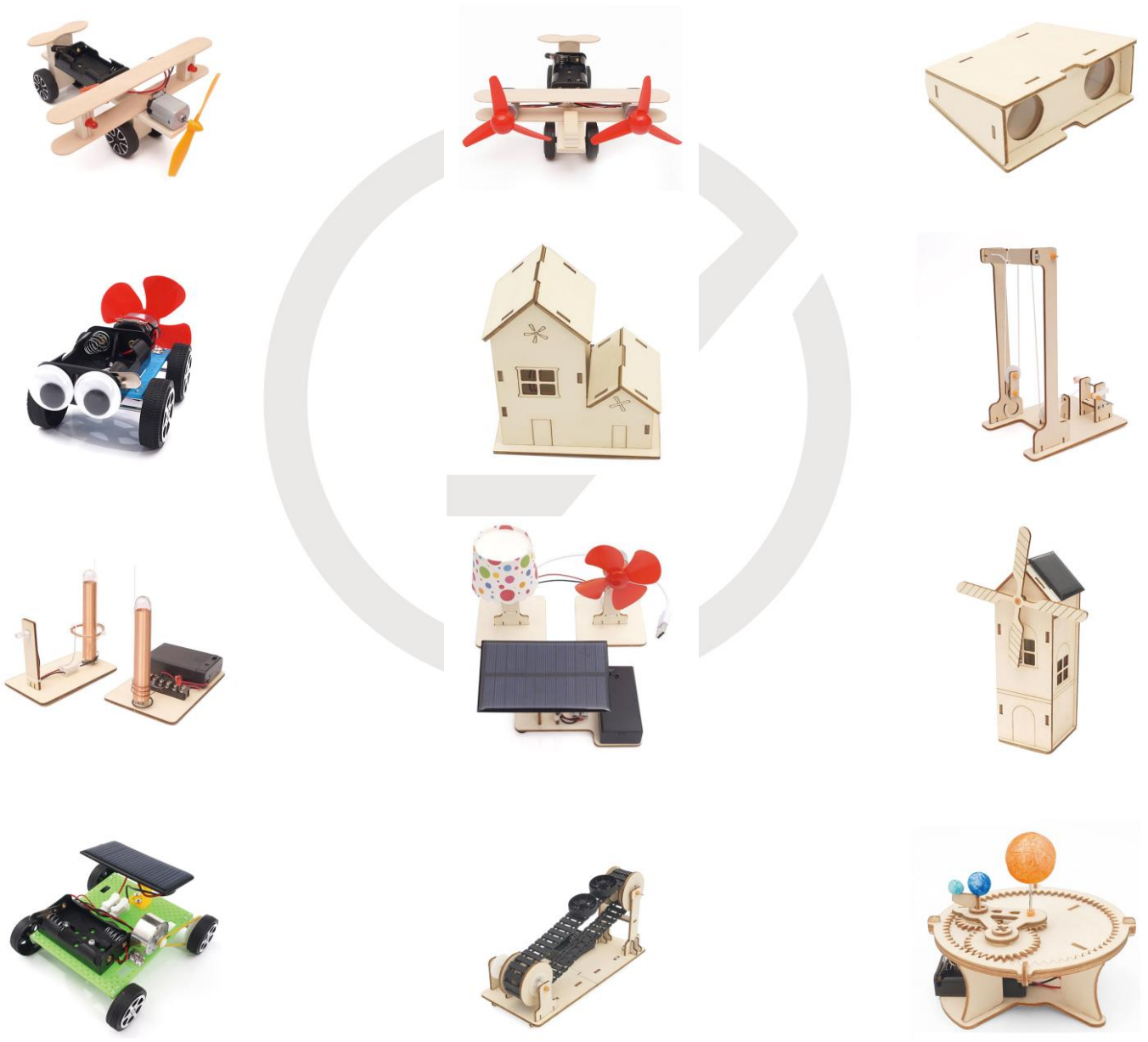
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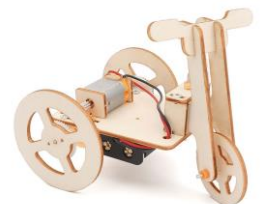
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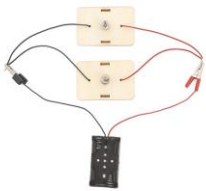
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*** End of Report ***

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声明 Statement

- 1.本检测报告首页所列信息中除样品来源、接样日期、检测日期、检测结果和检测结论外，均由委托方提供，委托方对样品的代表性和资料的真实性负责，本实验室不承担任何相关责任。
The information as listed on the first page of this test report was all provided by the client except the sample from, date received, test period, test results and test conclusion. The client shall be responsible for the representativeness of sample and authenticity of materials, for which EMTEK shall bear no responsibilities.
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- 6.其它声明请查阅报告页脚及书面报告末页。
For other statements, please refer to the footer of the report.

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签发测试报告条款 Conditions of Issuance of Test Reports

1. 东莞市信测科技有限公司 (以下简称[本公司])为提供符合下述条款的测试和报告, 而接受有关样品和货品。本公司基于下述条款提供服务, 下述条款为本公司与申请服务的个人, 企业或公司 (以下简称[客户])的协议。
All samples and goods are accepted by the EMTEK(Dongguan) Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").
2. 由此测试申请所发出的任何报告 (以下简称[报告]), 本公司会严格为客户保密。未经本公司的书面同意, 报告的整体或部分不得复制, 也不得用于广告或授权的其他用途。然而, 客户可以将本公司印制的报告或认可的副本, 向其客户、供货商或直接相关的其他人出示或提交。除非相关政府部门、法律或法规要求, 否则未经客户同意, 本公司不得将报告内容向任何第三方讨论或披露。
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The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
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Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. 如因使用本公司中心任何报告内的资料, 或任何传播信息所描述与之有关的测试或研究导致的任何损失或损害, 本公司概不负责。
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7. 若需要在法院审理程序或者仲裁过程中使用测试报告, 客户必须在提交测试样品前将该意图告知本公司。
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8. 该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的, 检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限, 数据和信息将被处理掉。任何情况下, 本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害, 本公司在任何情况下也不必承担任何损害, 包括 (但不限于) 补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权 (包括疏忽)、产品责任或其他原因的惩罚性损害。
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