

Client Name: Jiangsu DINGS' Intelligent Control Technology Co., Ltd
Client Address: No. 2850 Luheng Road, Economic Development Zone, Changzhou, Jiangsu, 213025 China.

Sample Name: Stepper Lead Screw Linear Actuator/Stepper Ball Screw Linear Actuator/Linear Module/Gripper

Tested Basic Model No.: 11E2216R4-100SSSN-SZ

Tested Extended Model No.: 11C2110K4-050SMSN-100SZ/ 11K2110A4-200SMSN-170SZ/ 11N2110R4-135SMSN-180SZ/11E2110B524-157RSN-030SZ/DLM150-11E2105A4-CTB-001SZ/DMEG06-11N2110R4-YJ

Client Ref. Information: E/N/C/K/BSIDL/DLM/DSL/DWM/DLG/DMEG

The above sample(s) and information were provided by the client.

SGS Job No.: SHP25-042834

Sample Receiving Date: Dec 24, 2025

Verification Period: Dec 24, 2025 ~ Jan 04, 2026

Verification Requested: With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.

Verification Method(s): Please refer to next page(s).

Verification Result(s): Please refer to next page(s).

Test Result Summary:

Test Items	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd.

Alice Sun

Alice Sun

Approved Signatory

Scan to see the report



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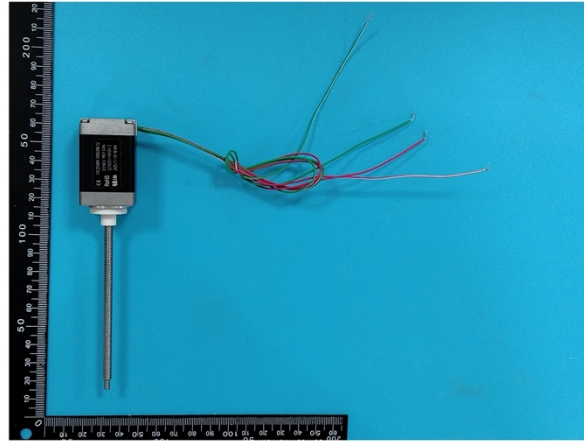
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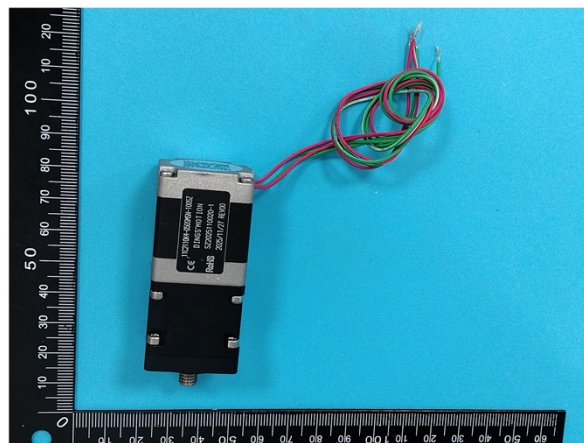
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Photo of Submitted Sample



11E2216R4-100SSSN-SZ



11C2110K4-050SMSN-100SZ



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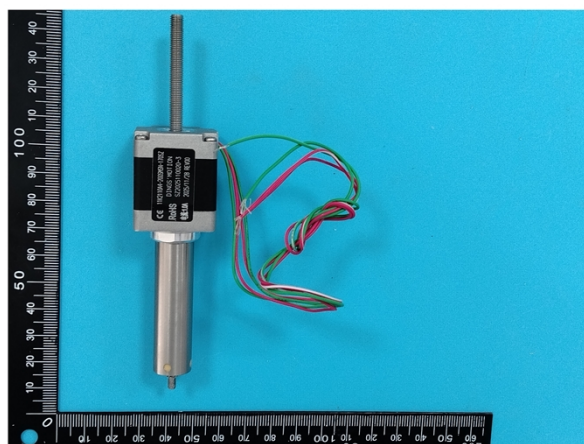
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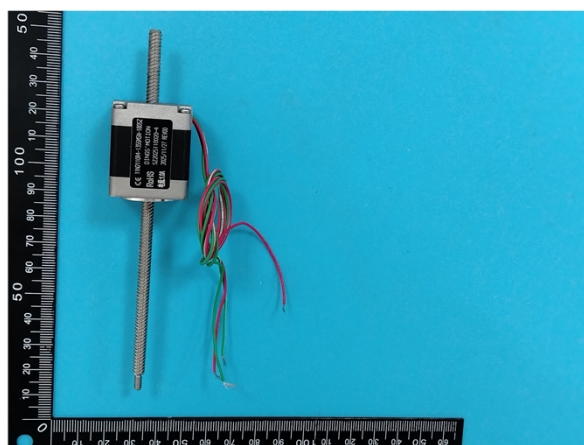
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11K2110A4-200SMN-170SZ



11N2110R4-135SMN-180SZ



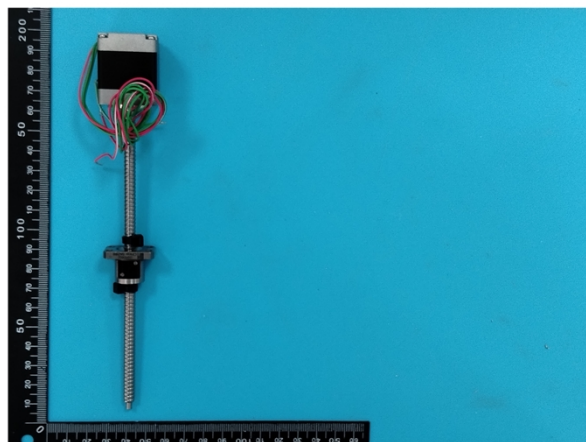
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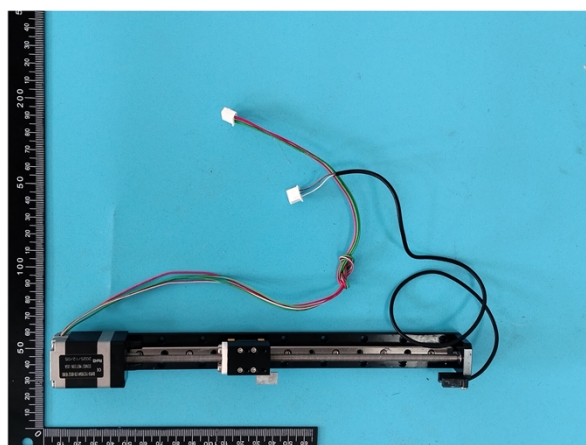
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11E2110B524-157RSN-030SZ



DLM150-11E2105A4-CTB-001SZ



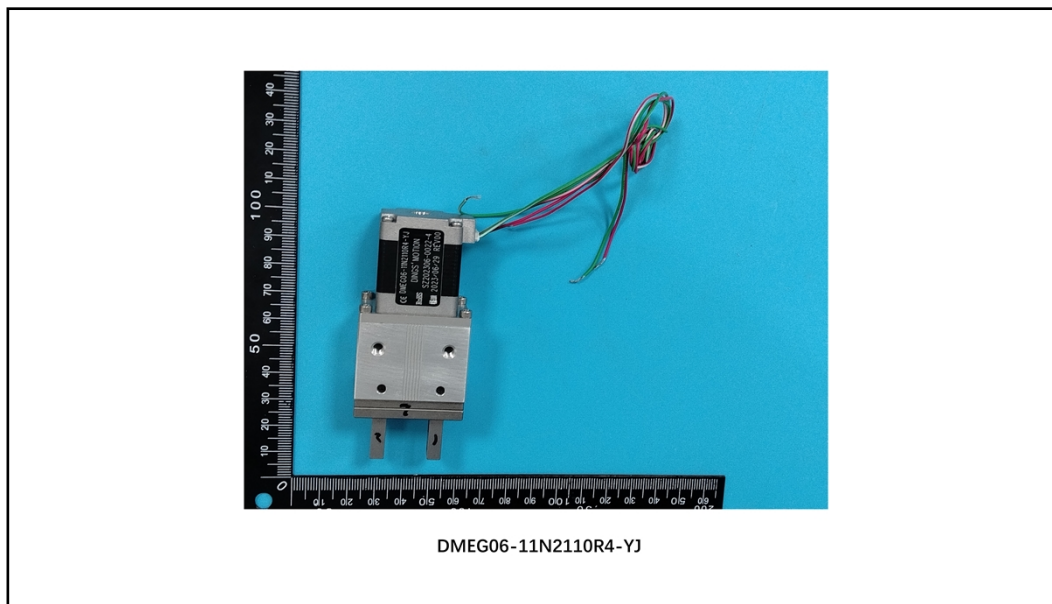
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Verification Method(s):

1. With reference to IEC 62321-2:2021, disassembly and disjointment were performed for the submitted samples.
2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report.
 - (1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy.
 - (2) Wet chemical test method: With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-12:2023, IEC 62321-6:2015 and IEC62321-8:2017 , analyzed by ICP-OES,UV-Vis and GC-MS.



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Verification Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	TAO25-0122473-0001.C001	Silvery metal
SN2	A2	TAO25-0122473-0001.C002	Beige plastic
SN3	A3	TAO25-0122473-0001.C003	Black/white plastic(label)
SN4	A4	TAO25-0122473-0001.C004	Black metal
SN5	A5	TAO25-0122473-0001.C005	Silvery metal
SN6	A6	TAO25-0122473-0001.C006	Green/white plastic(jacket)
SN7	A7	TAO25-0122473-0001.C007	Green plastic(jacket)
SN8	A8	TAO25-0122473-0001.C008	Red plastic(jacket)
SN9	A9	TAO25-0122473-0001.C009	Red/white plastic(jacket)
SN10	A10	TAO25-0122473-0001.C010	White plastic
SN11	A11	TAO25-0122473-0001.C011	Silvery metal(soldering tin)
SN12	A12	TAO25-0122473-0001.C012	Green PCB
SN13	A13	TAO25-0122473-0001.C013	Silvery metal(screw)
SN14	A14	TAO25-0122473-0001.C014	White plastic
SN15	A15	TAO25-0122473-0001.C015	Gray plastic(label)
SN16	A16	TAO25-0122473-0001.C016	Silvery metal
SN17	A17	TAO25-0122473-0001.C017	Silvery metal
SN18	A18	TAO25-0122473-0001.C018	Silvery metal
SN19	A19	TAO25-0122473-0001.C019	Silvery metal
SN20	A20	TAO25-0122473-0001.C020	Silvery metal(steel ball)
SN21	A21	TAO25-0122473-0001.C021	Yellow metal
SN22	A22	TAO25-0122473-0001.C022	Silvery metal
SN23	B1	TAO25-0122473-0002.C001	Silvery metal
SN24	B2	TAO25-0122473-0002.C002	White plastic
SN25	B3	TAO25-0122473-0002.C003	Black metal
SN26	B4	TAO25-0122473-0002.C004	Silvery metal(screw)
SN27	C1	TAO25-0122473-0003.C001	Silvery metal
SN28	C2	TAO25-0122473-0003.C002	Brown solid
SN29	D1	TAO25-0122473-0004.C001	Silvery metal
SN30	E1	TAO25-0122473-0005.C001	Silvery metal
SN31	E2	TAO25-0122473-0005.C002	Silvery metal(screw)
SN32	E3	TAO25-0122473-0005.C003	Black metal
SN33	E4	TAO25-0122473-0005.C004	Black plastic
SN34	E5	TAO25-0122473-0005.C005	Silvery metal(steel ball)
SN35	F1	TAO25-0122473-0006.C001	White plastic
SN36	F2	TAO25-0122473-0006.C002	White plastic
SN37	F3	TAO25-0122473-0006.C003	Black plastic(jacket)
SN38	F4	TAO25-0122473-0006.C004	Black metal
SN39	F5	TAO25-0122473-0006.C005	Transparent plastic
SN40	F6	TAO25-0122473-0006.C006	Silvery metal
SN41	F7	TAO25-0122473-0006.C007	Silvery metal
SN42	F8	TAO25-0122473-0006.C008	Silvery metal(screw)
SN43	F9	TAO25-0122473-0006.C009	Silvery metal(steel ball)
SN44	F10	TAO25-0122473-0006.C010	Black plastic
SN45	F11	TAO25-0122473-0006.C011	Beige plastic
SN46	F12	TAO25-0122473-0006.C012	Black plastic
SN47	F13	TAO25-0122473-0006.C013	Red plastic
SN48	F14	TAO25-0122473-0006.C014	Black metal



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SN ID	Sample No.	SGS Sample ID	Description
SN49	F15	TAO25-0122473-0006.C015	Yellow plastic
SN50	F16	TAO25-0122473-0006.C016	Silvery metal
SN51	F17	TAO25-0122473-0006.C017	Blue plastic(jacket)
SN52	F18	TAO25-0122473-0006.C018	Brown plastic(jacket)
SN53	F19	TAO25-0122473-0006.C019	Black plastic(jacket)
SN54	F20	TAO25-0122473-0006.C020	White plastic(jacket)
SN55	G1	TAO25-0122473-0007.C001	Green PCB
SN56	G2	TAO25-0122473-0007.C002	Silvery metal(soldering tin)
SN57	G3	TAO25-0122473-0007.C003	Beige plastic
SN58	G4	TAO25-0122473-0007.C004	White plastic
SN59	G5	TAO25-0122473-0007.C005	Brown solid
SN60	G6	TAO25-0122473-0007.C006	Silvery metal(steel ball)
SN61	G7	TAO25-0122473-0007.C007	Silvery metal



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Verification Result(s):

In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified. (Unless otherwise specified, the unit is mg/kg).

Test Item(s)	A1	A2	A3	A4	A5	A6	A7	A8
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	ND	BL	BL	ND	ND	BL	BL	BL
PBB	---	BL	BL	---	---	BL	BL	BL
PBDE	---	BL	BL	---	---	BL	BL	BL
DEHP	---	BL	ND	---	---	ND	ND	210
BBP	---	BL	ND	---	---	ND	ND	ND
DBP	---	BL	ND	---	---	ND	ND	ND
DIBP	---	BL	ND	---	---	ND	ND	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A9	A10	A11	A12	A13	A14	A15	A16
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	ND	BL	BL	ND
PBB	BL	BL	---	ND	---	BL	BL	---
PBDE	BL	BL	---	ND	---	BL	BL	---
DEHP	370	BL	---	ND	---	ND	ND	---
BBP	ND	BL	---	ND	---	ND	ND	---
DBP	ND	BL	---	ND	---	ND	ND	---
DIBP	ND	BL	---	ND	---	ND	ND	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A17	A18	A19	A20	A21	A22	B1	B2
Pb	BL	BL	BL	BL	19622▲	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	ND	ND	ND	ND	BL	ND	ND	BL
PBB	---	---	---	---	---	---	---	BL
PBDE	---	---	---	---	---	---	---	BL
DEHP	---	---	---	---	---	---	---	BL
BBP	---	---	---	---	---	---	---	BL
DBP	---	---	---	---	---	---	---	BL
DIBP	---	---	---	---	---	---	---	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	B3	B4	C1	C2	D1	E1	E2	E3
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	ND	ND	ND	BL	ND	ND	ND	BL



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Test Item(s)	B3	B4	C1	C2	D1	E1	E2	E3
PBB	---	---	---	BL	---	---	---	---
PBDE	---	---	---	BL	---	---	---	---
DEHP	---	---	---	BL	---	---	---	---
BBP	---	---	---	BL	---	---	---	---
DBP	---	---	---	BL	---	---	---	---
DIBP	---	---	---	BL	---	---	---	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	E4	E5	F1	F2	F3	F4	F5	F6
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	ND	BL	BL	BL	ND	BL	ND
PBB	BL	---	BL	BL	BL	---	BL	---
PBDE	BL	---	BL	BL	BL	---	BL	---
DEHP	BL	---	BL	BL	ND	---	BL	---
BBP	BL	---	BL	BL	ND	---	BL	---
DBP	BL	---	BL	BL	ND	---	BL	---
DIBP	BL	---	BL	BL	ND	---	BL	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	F7	F8	F9	F10	F11	F12	F13	F14
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	ND	ND	ND	BL	BL	BL	BL	ND
PBB	---	---	---	BL	BL	ND	ND	---
PBDE	---	---	---	BL	BL	ND	ND	---
DEHP	---	---	---	BL	BL	ND	ND	---
BBP	---	---	---	BL	BL	ND	ND	---
DBP	---	---	---	BL	BL	ND	ND	---
DIBP	---	---	---	BL	BL	ND	ND	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	F15	F16	F17	F18	F19	F20	G1	G2
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	ND	BL	BL	BL	BL	BL	BL
PBB	BL	---	BL	BL	BL	BL	ND	---
PBDE	BL	---	BL	BL	BL	BL	ND	---
DEHP	BL	---	ND	ND	ND	340	ND	---
BBP	BL	---	ND	ND	ND	ND	ND	---
DBP	BL	---	ND	ND	ND	ND	ND	---
DIBP	BL	---	ND	ND	ND	ND	ND	---



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Test Item(s)	F15	F16	F17	F18	F19	F20	G1	G2
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	G3	G4	G5	G6	G7
Pb	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	ND	ND
PBB	ND	BL	BL	---	---
PBDE	ND	BL	BL	---	---
DEHP	ND	BL	BL	---	---
BBP	ND	BL	BL	---	---
DBP	ND	BL	BL	---	---
DIBP	ND	BL	BL	---	---
Conclusion	PASS	PASS	PASS	PASS	PASS



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Notes:

(1) Interpretation of screening results by X-ray fluorescence spectrometry (XRF):

(a) Screening limits in mg/kg for regulated elements in various matrices according to IEC 62321-3-1:2013 Annex A as below table.

Element	Polymers	Metals	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	Not applicable	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(b) If the maximum allowed level restricts PBB/PBDE and Cr(VI) rather than Br and Cr, the exceptions are the XRF determinations of Br and Cr. If the quantitative results for the elements Br and/or Cr are higher than the limit (for Br calculated based on the stoichiometry of Br in the most common congeners of PBB/PBDE), the sample is "inconclusive".

(c) Results are obtained by EDXRF for primary screening, LOD = Limit of Detection, BL = Below Limit, OL = Over Limit, IN (The symbol X marks the region) = Inconclusive, where further investigation is necessary, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBB/PBDE) are recommended to be performed.

(d) The EDXRF screening test for elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

(2) Screening results of Phthalates (PHTH) below the limits are shown as "BL". Further chemical testing by GC-MS is to be performed if the results exceed limits.

Test Items	CAS No.
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7
Butyl benzyl phthalate (BBP)	85-68-7
Dibutyl phthalate (DBP)	84-74-2
Diisobutyl phthalate (DIBP)	84-69-5

(3) Interpretation of results by chemical tests:

(a) mg/kg = 0.0001%, MDL = Method detection Limit, ND = Not Detected (<MDL), --- = Not Applicable.

(b) Unit and MDL in wet chemical test

Test Items	Pb	Hg	Cd	DEHP	BBP	DBP	DIBP
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	10	10	10	100	100	100	100

The MDL for single compound of PBB and PBDE is 100 mg/kg,

MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg.

MDL of Cr(VI) for metal sample is 0.10 µg/cm².

(c) ▼ = Metal sample

a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).

b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating

c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive-unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.



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- (4) Restricted substances and maximum concentration values tolerated by weight in homogeneous materials under RoHS Directive: Cd: 0.01%, Pb/Hg/Cr(VI)/PBB/PBDE/DEHP/BBP/DBP/DIBP: 0.1%. The limit is quoted from RoHS Directive (EU) 2015/863.
- (5) IEC 62321 series is equivalent to EN 62321 series.
- (6) ▲According to the declaration from the client, Lead (Pb) in No.A21 is exempted by EU RoHS directive 2011/65/EU based on [ANNEX III 6(c)]: Copper alloy containing up to 4 % lead by weight.
More information about exemption can be found via the following link:
<https://rohs.sgsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20%28EN%29.pdf>

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



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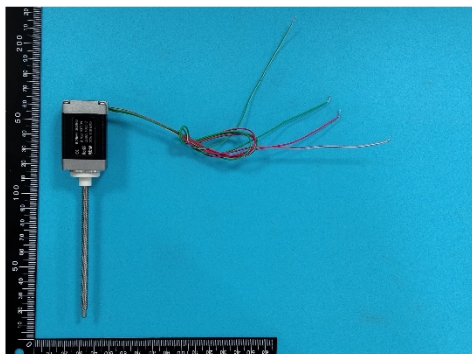
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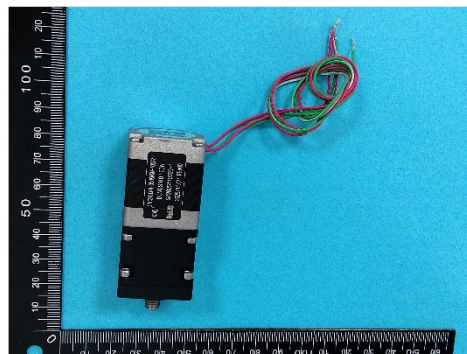
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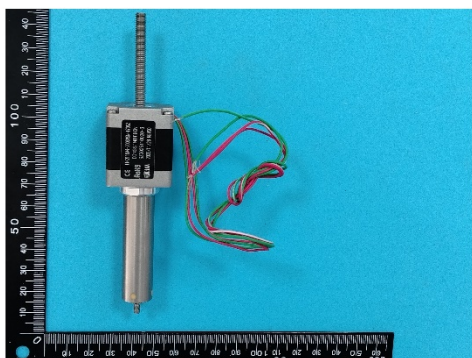
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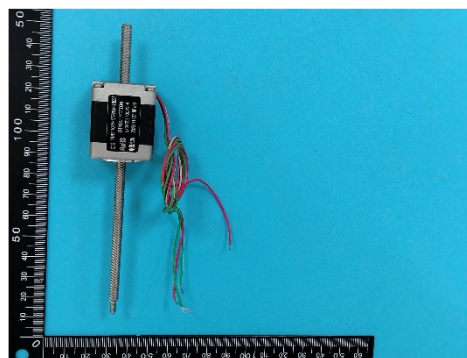
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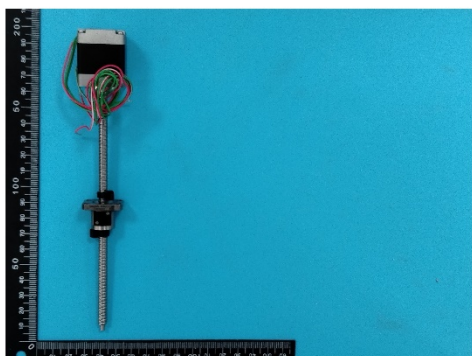
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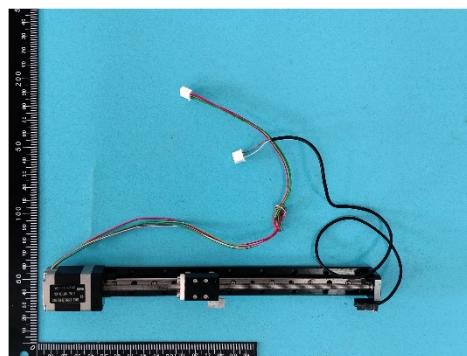
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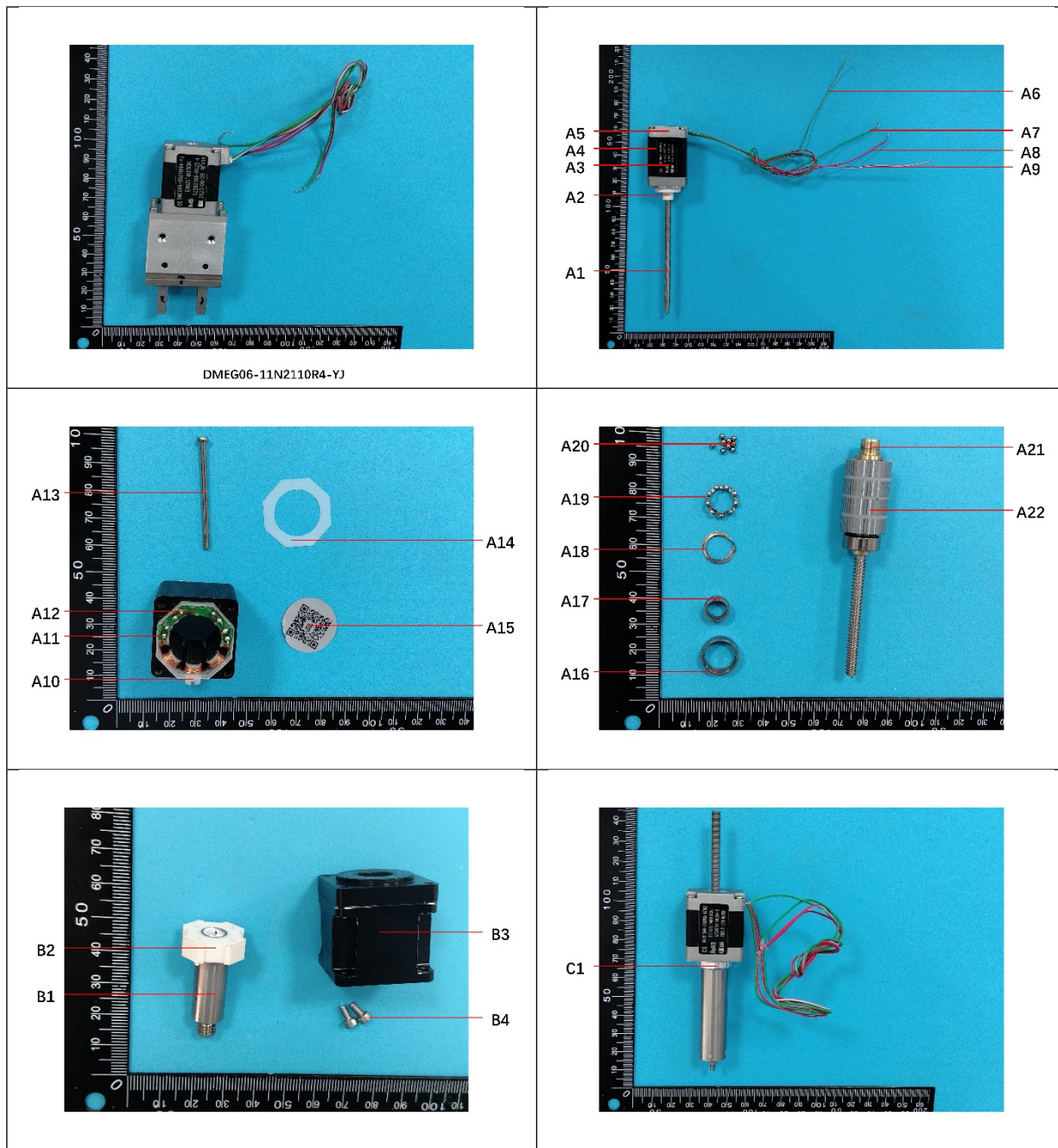
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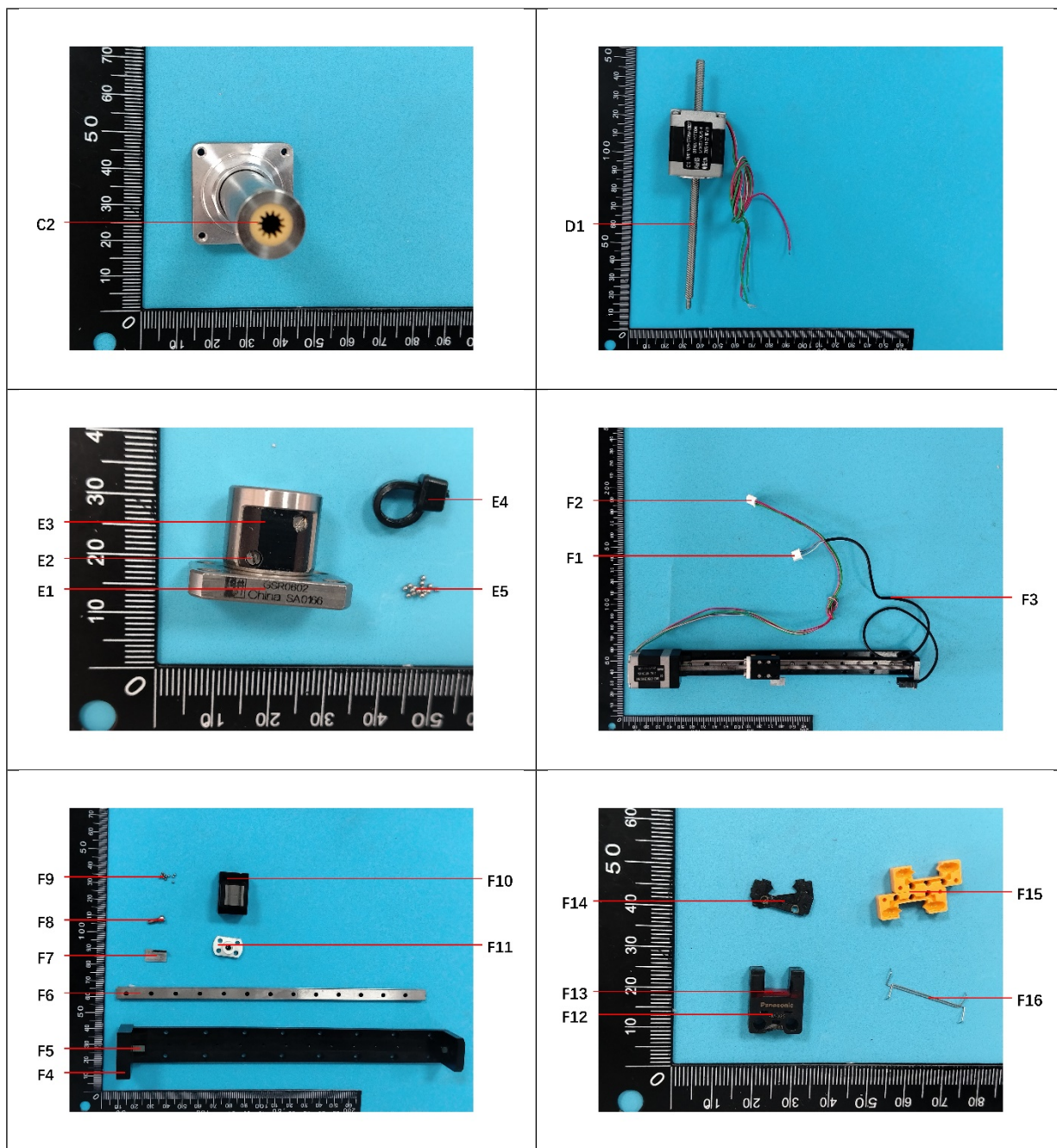
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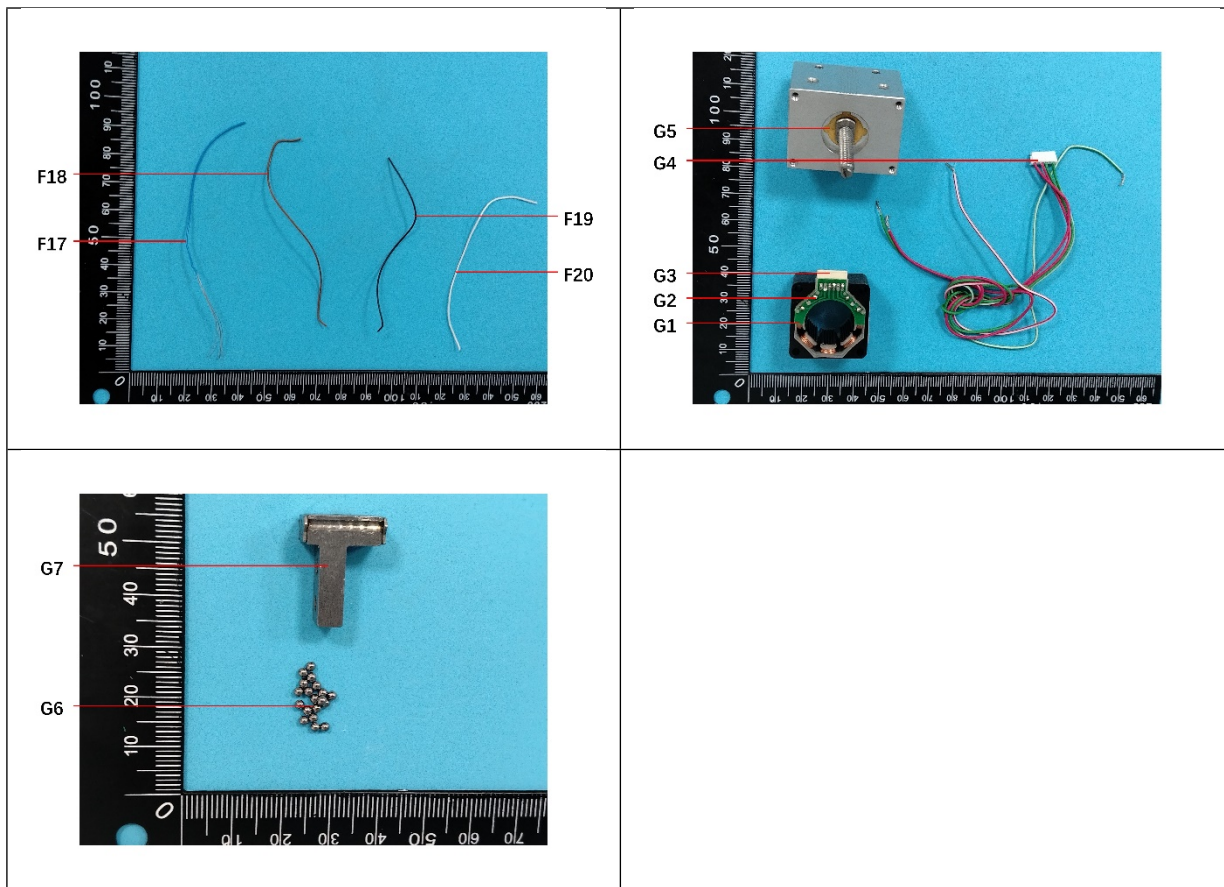
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