

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

Sample Name: Hybrid Hollow Shaft Stepper Motor, Hybrid Rotary Stepper Motor  
Tested Basic Model No.: 23HS2045-4D-300  
Client Ref. Information: HS/H/P/N/W

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

SGS Job No.: SHP25-041310  
Sample Receiving Date: Dec 12, 2025  
Verification Period: Dec 12, 2025 ~ Dec 17, 2025  
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

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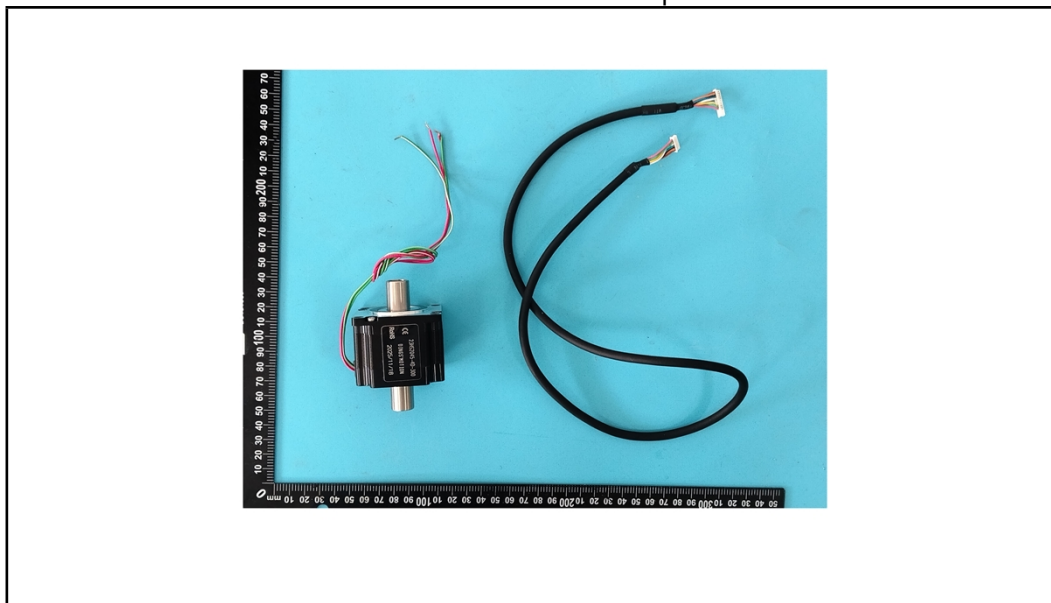
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Photo of Submitted Sample



## 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	TAO25-0117947-0001.C001	Black/white plastic(label)
SN2	A2	TAO25-0117947-0001.C002	Black metal
SN3	A3	TAO25-0117947-0001.C003	Silvery metal
SN4	A4	TAO25-0117947-0001.C004	Silvery metal
SN5	A5	TAO25-0117947-0001.C005	Silvery metal
SN6	A6	TAO25-0117947-0001.C006	Silvery metal
SN7	A7	TAO25-0117947-0001.C007	Copper enamelled wire
SN8	A8	TAO25-0117947-0001.C008	Black metal
SN9	A9	TAO25-0117947-0001.C009	White plastic
SN10	A10	TAO25-0117947-0001.C010	White plastic
SN11	A11	TAO25-0117947-0001.C011	Pink/White plastic(jacket)
SN12	A12	TAO25-0117947-0001.C012	Pink plastic(jacket)
SN13	A13	TAO25-0117947-0001.C013	Green plastic(jacket)
SN14	A14	TAO25-0117947-0001.C014	Green/white plastic(jacket)
SN15	A15	TAO25-0117947-0001.C015	Black rubber
SN16	A16	TAO25-0117947-0001.C016	White fabric
SN17	A17	TAO25-0117947-0001.C017	Black plastic(jacket)
SN18	A18	TAO25-0117947-0001.C018	Black plastic(pyrocondensation tube)
SN19	A19	TAO25-0117947-0001.C019	White plastic
SN20	A20	TAO25-0117947-0001.C020	White plastic
SN21	A21	TAO25-0117947-0001.C021	Black plastic(jacket)
SN22	A22	TAO25-0117947-0001.C022	White plastic(jacket)
SN23	A23	TAO25-0117947-0001.C023	Yellow plastic(jacket)
SN24	A24	TAO25-0117947-0001.C024	Blue plastic(jacket)
SN25	A25	TAO25-0117947-0001.C025	Green plastic(jacket)
SN26	A26	TAO25-0117947-0001.C026	Brown plastic(jacket)
SN27	A27	TAO25-0117947-0001.C027	Orange plastic(jacket)
SN28	A28	TAO25-0117947-0001.C028	Pink plastic(jacket)
SN29	A29	TAO25-0117947-0001.C029	Silvery metal
SN30	A30	TAO25-0117947-0001.C030	Silvery metal
SN31	A31	TAO25-0117947-0001.C031	Silvery metal
SN32	A32	TAO25-0117947-0001.C032	Silvery metal
SN33	A33	TAO25-0117947-0001.C033	Silvery metal
SN34	A34	TAO25-0117947-0001.C034	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)▼	BL	ND	ND	ND	ND	BL	BL	BL
PBB	BL	---	---	---	---	---	BL	---
PBDE	BL	---	---	---	---	---	BL	---
DEHP	BL	---	---	---	---	---	BL	---
BBP	BL	---	---	---	---	---	BL	---
DBP	BL	---	---	---	---	---	BL	---
DIBP	BL	---	---	---	---	---	BL	---
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	BL	BL	BL	BL
PBB	BL	BL	BL	BL	BL	BL	BL	BL
PBDE	BL	BL	BL	BL	BL	BL	BL	BL
DEHP	BL	BL	BL	BL	BL	BL	BL	BL
BBP	BL	BL	BL	BL	BL	BL	BL	BL
DBP	BL	BL	BL	BL	BL	BL	BL	BL
DIBP	BL	BL	BL	BL	BL	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A17	A18	A19	A20	A21	A22	A23	A24
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	BL	BL	BL	BL
PBB	BL	BL	BL	BL	BL	BL	BL	BL
PBDE	BL	BL	BL	BL	BL	BL	BL	BL
DEHP	BL	BL	BL	BL	BL	BL	BL	BL
BBP	BL	BL	BL	BL	BL	BL	BL	BL
DBP	BL	BL	BL	BL	BL	BL	BL	BL
DIBP	BL	BL	BL	BL	BL	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A25	A26	A27	A28	A29	A30	A31	A32
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	ND	ND	ND



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Test Item(s)	A25	A26	A27	A28	A29	A30	A31	A32
PBB	BL	BL	BL	BL	---	---	---	---
PBDE	BL	BL	BL	BL	---	---	---	---
DEHP	BL	BL	BL	BL	---	---	---	---
BBP	BL	BL	BL	BL	---	---	---	---
DBP	BL	BL	BL	BL	---	---	---	---
DIBP	BL	BL	BL	BL	---	---	---	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A33	A34
Pb	BL	BL
Hg	BL	BL
Cd	BL	BL
Cr(VI)▼	BL	ND
PBB	---	---
PBDE	---	---
DEHP	---	---
BBP	---	---
DBP	---	---
DIBP	---	---
Conclusion	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.

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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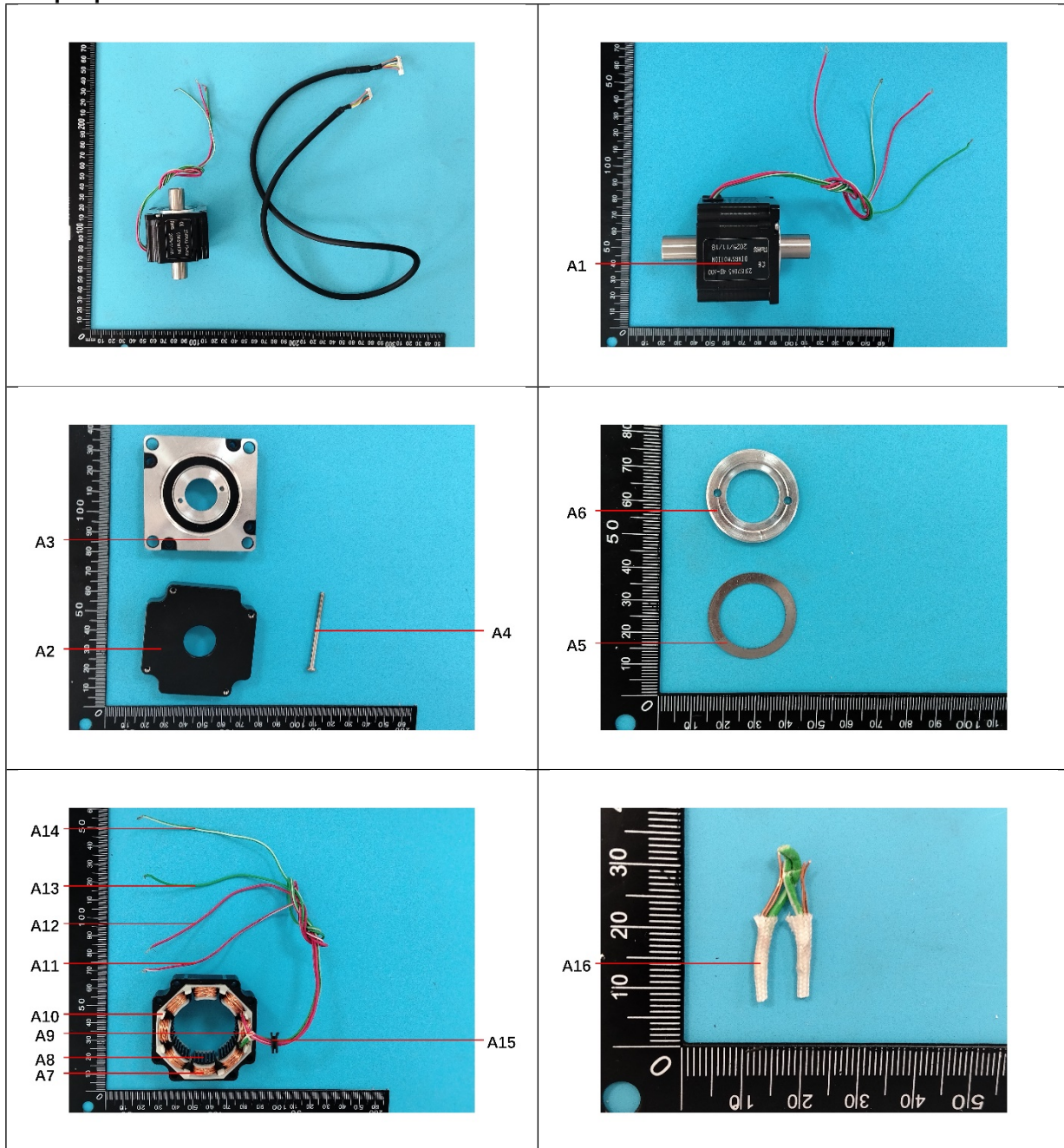
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Sample photos:



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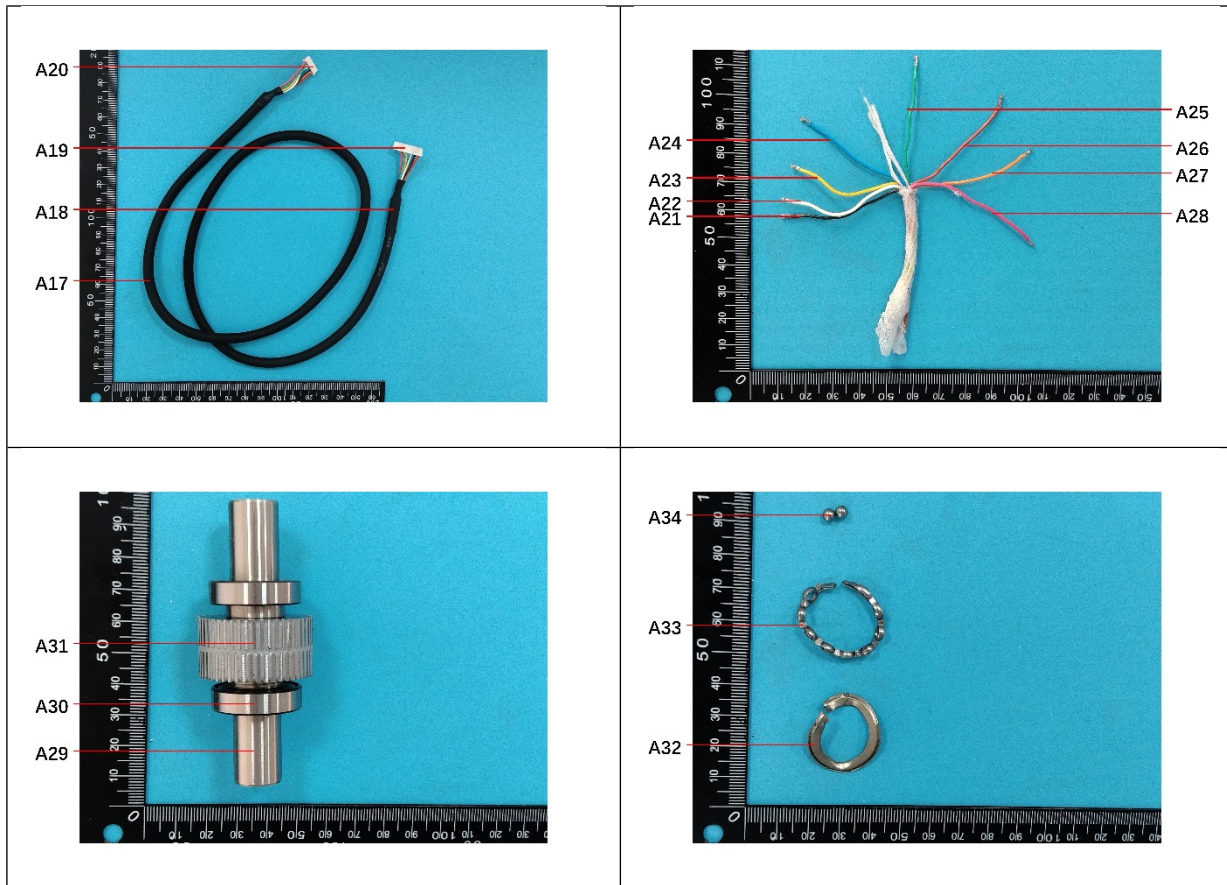
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