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Client: SHENGZHOU SHENGHUA MACHINERY TECHNOLOGY CO., LTD.

Contact Information: No.7 Dragon Road, Huangze Industrial Area, Shengzhou City, 312400

Zhejiang P.R. China

Identification/ Control Box SHD50

Model No(s): Column SHA310-X1-X2; SHA320-X1-X2; SHA210-X1-X2; SHA230-X1-

X2;

SHA311-X1-X2; SHA321-X1-X2; SHA211-X1-X2; SHA231-X1-X2

(X1=400-800; X2=300-700)

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2022-06-08

Testing Period: 2022-06-08 to 2022-06-17

Place of testing: Chemical laboratory Shanghai

Test Specification: Test result:

Screening Test by XRF Spectroscopy PASS

According to RoHS (recast): Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, 2011/65/EU Annex II and its amendment.

For and on behalf of

2022-06-29

TÜV Rheinland (Shanghai) Co., Ltd.

Ryan Chen / Assistant Manager

Date Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.

This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

'Decision Rule" document announced in our website (https://www.tuv.com/landingpage/en/qm-gcn/) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.



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Material List:

Item: Control Box SHD50

Column SHA310-X1-X2; SHA320-X1-X2; SHA210-X1-X2; SHA230-X1-X2;

SHA311-X1-X2; SHA321-X1-X2; SHA211-X1-X2; SHA231-X1-X2

(X1=400-800; X2=300-700)

Material No.	Material	Color	Location
M001	Metal	silver	refer to photo
M002	Metal	silver	refer to photo
M003	Coating	white	refer to photo
M004	Plastic	black	refer to photo
M005	Plastic	black	refer to photo
M006	Plastic	black	refer to photo
M007	Plastic	black	refer to photo
M008	Metal	silver	refer to photo
M009	Metal	copper	refer to photo
M010	Plastic	blue	refer to photo
M011	Plastic	brown	refer to photo
M012	Plastic	black	refer to photo
M013	Plastic	black	refer to photo
M014	Plastic	black	refer to photo
M015	Plastic	white	refer to photo
M016	Metal	silver	refer to photo
M017	Plastic	blue	refer to photo
M018	Plastic	green/yellow	refer to photo
M019	Plastic	white	refer to photo
M020	Metal	golden	refer to photo
M021	Metal	silver	refer to photo
M022	Plastic	white	refer to photo
M023	Plastic	yellow	refer to photo
M024	Plastic	red	refer to photo
M025	Plastic	blue	refer to photo
M026	Plastic	green	refer to photo
M027	Plastic	brown	refer to photo



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M028	Plastic	black	refer to photo
M029	Plastic	brown	refer to photo
M030	Plastic	white	refer to photo
M031	Plastic	black	refer to photo
M032	Plastic	green	refer to photo
M033	Solder	silver	refer to photo
M034	Electronic components	-	refer to photo
M035	Electronic components	-	refer to photo
M036	PCB board	green	refer to photo
M037	Plastic	transparent	refer to photo
M038	Plastic	black	refer to photo
M039	Plastic	black	refer to photo
M040	Plastic	black	refer to photo
M041	Plastic	white	refer to photo
M042	Plastic	black	refer to photo
M043	Metal	silver	refer to photo
M044	Metal	silver	refer to photo
M045	Plastic	black	refer to photo
M046	Electronic components	-	refer to photo
M047	Electronic components	-	refer to photo
M048	Electronic components	-	refer to photo
M049	Electronic components	-	refer to photo
M050	Electronic components	-	refer to photo
M051	Electronic components	-	refer to photo
M052	Electronic components	-	refer to photo
M053	Plastic	black	refer to photo
M054	Plastic	white	refer to photo
M055	Plastic	black	refer to photo
M056	Metal	silver	refer to photo
M057	PCB board	green	refer to photo
M058	Solder	silver	refer to photo
M059	Metal	silver	refer to photo



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M060	Metal	silver	refer to photo
M061	Plastic	white	refer to photo
M062	Metal	black	refer to photo
M063	Metal	black	refer to photo
M064	Plastic	white	refer to photo
M065	Plastic	black	refer to photo
M066	Plastic	black	refer to photo
M067	Plastic	black	refer to 244380256a 001 M052
M068	Plastic	transparent	refer to photo
M069	Plastic	white	refer to photo
M070	Plastic	white	refer to photo
M071	Metal	silver	refer to photo
M072	Metal	silver	refer to photo
M073	Metal	silver	refer to photo
M074	Metal	silver	refer to photo
M075	Metal	silver	refer to photo
M076	Metal	silver	refer to photo
M077	Magnet	black	refer to photo
M078	Metal	silver	refer to photo
M079	Metal	copper	refer to photo
M080	Metal	silver	refer to photo
M081	Metal	silver	refer to photo
M082	Metal	silver	refer to photo
M083	Metal	copper	refer to photo
M084	Solder	silver	refer to photo
M085	PCB board	green	refer to photo
M086	Plastic	red	refer to photo
M087	Plastic	black	refer to photo
M088	Plastic	pink	refer to photo
M089	Plastic	white	refer to photo
M090	Plastic	black	refer to photo
M091	Electronic components	-	refer to photo



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M092	Plastic	white	refer to photo
M093	Metal	black	refer to photo
M094	Metal	black	refer to photo
M095	Metal	silver	refer to photo
M096	Metal	silver	refer to photo
M097	Metal	silver	refer to photo
M098	Metal	silver	refer to photo
M099	Metal	silver	refer to photo
M100	Metal	silver	refer to photo
M101	Metal	silver	refer to photo



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1.Screening Test by XRF spectroscopy

Test Method: Cadmium, Lead, Mercury, Chromium, Bromine

-- With reference to IEC 62321-3-1:2013

Test Result:

Material No.	Cd	Cr	Pb	Hg	Br
M001	BL	d*1	BL	BL	n.a.
M002	BL	d*1	BL	BL	n.a.
M003	BL	BL	BL	BL	BL
M004	BL	BL	BL	BL	BL
M005	BL	BL	BL	BL	BL
M006	BL	BL	BL	BL	BL
M007	BL	BL	BL	BL	d*1
M008	BL	BL	d*1	BL	n.a.
M009	BL	BL	BL	BL	n.a.
M010	BL	BL	BL	BL	BL
M011	BL	BL	BL	BL	BL
M012	BL	BL	BL	BL	BL
M013	BL	BL	BL	BL	BL
M014	BL	BL	BL	BL	BL
M015	BL	BL	BL	BL	d*1
M016	BL	BL	BL	BL	n.a.
M017	BL	BL	BL	BL	BL
M018	BL	BL	BL	BL	BL
M019	BL	BL	BL	BL	d*1
M020	BL	BL	BL	BL	n.a.
M021	BL	BL	BL	BL	n.a.
M022	BL	BL	BL	BL	BL
M023	BL	BL	BL	BL	BL
M024	BL	BL	BL	BL	BL
M025	BL	BL	BL	BL	BL
M026	BL	BL	BL	BL	BL
M027	BL	BL	BL	BL	BL
M028	BL	BL	BL	BL	BL
M029	BL	BL	BL	BL	BL
M030	BL	BL	BL	BL	BL
M031	BL	BL	BL	BL	BL
M032	BL	BL	BL	BL	BL
M033	BL	BL	BL	BL	n.a.
M034	BL	BL	BL	BL	BL
M035	BL	BL	BL	BL	d*1
M036	BL	BL	BL	BL	d*1
M037	BL	BL	BL	BL	BL



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M038 BL BL BL BL BL BL BL B						
M040	M038	BL	BL	BL	BL	BL
M041 BL BL BL BL BL BL BL B	M039	BL	BL	BL	BL	BL
M042 BL BL BL BL BL BL M043 BL M14 BL BL M14 BL BL M14 M14 BL BL M14 M14 BL BL M14 M14 BL BL M14 M	M040	BL	BL	BL	BL	BL
M043 BL d*1 BL BL n.a.	M041	BL	BL	BL	BL	BL
M044 BL d*1 BL BL n.a. M045 BL BL BL BL BL d*1 M046 BL	M042	BL	BL	BL	BL	BL
M045 BL BL BL BL BL d*1 M046 BL BL BL BL BL BL BL B	M043	BL	d*1	BL	BL	n.a.
M046 BL B	M044	BL	d*1	BL	BL	n.a.
M047 BL Mana <	M045	BL	BL	BL	BL	d*1
M048 BL B	M046	BL	BL	BL	BL	d*1
M049 BL B	M047	BL	BL	BL	BL	BL
M050 BL B	M048	BL	BL	BL	BL	n.a.
M051 BL B	M049	BL	BL	BL	BL	BL
M052 BL B	M050	BL	BL	BL	BL	BL
M053 BL M011 M056 BL <	M051	BL	BL	BL	BL	BL
M054 BL M1 M1 M1 M2 M3 M	M052	BL	BL	BL	BL	BL
M055 BL BL BL BL BL d*1 M056 BL BL BL BL BL n.a. M057 BL BL BL BL BL d*1 M058 BL BL BL BL BL n.a. M059 BL BL BL BL BL n.a. M060 BL BL BL BL BL n.a. M060 BL BL <td>M053</td> <td>BL</td> <td>BL</td> <td>BL</td> <td>BL</td> <td>d*1</td>	M053	BL	BL	BL	BL	d*1
M056 BL BL BL BL BL BL d*1 M057 BL BL BL BL BL d*1 M058 BL BL BL BL BL n.a. M059 BL BL BL BL BL n.a. M060 BL	M054	BL	BL	BL	BL	BL
M057 BL BL BL BL BL d*1 M058 BL BL BL BL n.a. M059 BL BL BL BL n.a. M060 BL BL BL BL BL n.a. M061 BL	M055	BL	BL	BL	BL	d*1
M058 BL BL BL BL n.a. M059 BL d*1 BL BL n.a. M060 BL BL BL BL n.a. M061 BL	M056	BL	BL	BL	BL	n.a.
M059 BL d*1 BL BL n.a. M060 BL BL BL BL n.a. M061 BL BL BL BL BL BL M062 BL	M057	BL	BL	BL	BL	d*1
M060 BL B	M058	BL	BL	BL	BL	n.a.
M061 BL B	M059	BL	d*1	BL	BL	n.a.
M062 BL AL BL BL BL AL BL BL AL BL B	M060	BL	BL	BL	BL	n.a.
M063 BL MD AD A	M061	BL	BL	BL	BL	BL
M064 BL MD AD A	M062	BL	BL	BL	BL	BL
M065 BL MD AL A	M063	BL	BL	BL	BL	BL
M066 BL MD M	M064	BL	BL	BL	BL	BL
M067 BL MD M	M065	BL	BL	BL	BL	d*1
M068 BL MD M	M066	BL	BL	BL	BL	BL
M069 BL MD M	M067	BL	BL	BL	BL	BL
M070 BL BL BL BL BL BL BL BL BL RL R	M068	BL	BL	BL	BL	BL
M071 BL BL BL BL n.a. M072 BL d*1 BL BL n.a. M073 BL d*1 BL BL n.a. M074 BL d*1 BL BL n.a. M075 BL d*1 BL BL n.a. M076 BL d*1 BL BL n.a. M077 BL BL BL BL n.a. M078 BL d*1 BL BL n.a. M079 BL BL BL BL n.a.	M069	BL	BL	BL	BL	BL
M072 BL d*1 BL BL n.a. M073 BL d*1 BL BL n.a. M074 BL d*1 BL BL n.a. M075 BL d*1 BL BL n.a. M076 BL d*1 BL BL n.a. M077 BL BL BL BL n.a. M078 BL d*1 BL BL n.a. M079 BL BL BL BL n.a.	M070	BL	BL	BL	BL	BL
M073 BL d*1 BL BL n.a. M074 BL d*1 BL BL n.a. M075 BL d*1 BL BL n.a. M076 BL d*1 BL BL n.a. M077 BL BL BL BL n.a. M078 BL d*1 BL BL n.a. M079 BL BL BL BL n.a.	M071	BL	BL	BL	BL	n.a.
M074 BL d*1 BL BL n.a. M075 BL d*1 BL BL n.a. M076 BL d*1 BL BL n.a. M077 BL BL BL BL n.a. M078 BL d*1 BL BL n.a. M079 BL BL BL BL n.a.	M072	BL	d*1	BL	BL	n.a.
M075 BL d*1 BL BL n.a. M076 BL d*1 BL BL n.a. M077 BL BL BL BL n.a. M078 BL d*1 BL BL n.a. M079 BL BL BL BL n.a.	M073	BL	d*1	BL	BL	n.a.
M076 BL d*1 BL BL n.a. M077 BL BL BL BL n.a. M078 BL d*1 BL BL n.a. M079 BL BL BL BL n.a.	M074	BL	d*1	BL	BL	n.a.
M077 BL BL BL BL n.a. M078 BL d*1 BL BL n.a. M079 BL BL BL BL n.a.	M075	BL	d*1	BL	BL	n.a.
M078 BL d*1 BL BL n.a. M079 BL BL BL BL n.a.	M076	BL	d*1	BL	BL	n.a.
M079 BL BL BL n.a.	M077	BL	BL	BL	BL	n.a.
	M078	BL	d*1	BL	BL	n.a.
M080 BL d*1 BL BL n.a.	M079	BL	BL	BL	BL	n.a.
	M080	BL	d*1	BL	BL	n.a.

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M081	BL	d*1	BL	BL	n.a.
M082	BL	d*1	BL	BL	n.a.
M083	BL	BL	BL	BL	n.a.
M084	BL	BL	BL	BL	n.a.
M085	BL	BL	BL	BL	d*1
M086	BL	BL	BL	BL	BL
M087	BL	BL	BL	BL	BL
M088	BL	BL	BL	BL	BL
M089	BL	BL	BL	BL	BL
M090	BL	BL	BL	BL	d*1
M091	BL	BL	BL	BL	BL
M092	BL	BL	BL	BL	BL
M093	BL	d*1	BL	BL	n.a.
M094	BL	d*1	BL	BL	n.a.
M095	BL	d*1	BL	BL	n.a.
M096	BL	d*1	BL	BL	n.a.
M097	BL	d*1	BL	BL	n.a.
M098	BL	d*1	BL	BL	n.a.
M099	BL	d*1	BL	BL	n.a.
M100	BL	d*1	BL	BL	n.a.
M101	BL	d*1	BL	BL	n.a.

Abbreviation: Pb = Lead

Cd Cadmium = Hg Mercury = Cr Chromium = Br **Bromine** = Not appliable n.a. = BL Below limit = OL Over limit = d. Detected



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Remark:

- (*1) The screening result was detected in the inconclusive region or over limits, thus the further wet chemistry tests are suggested.
- (*2) Component(s)/ materials(s) with an area of less than 2 mm x 2 mm will not be selected for testing according to RoHS Directive 2011/65/EU due to technical reason. For the test sample does not have detail materials information provided by client, visually identical materials (e.g. wire insulation, solder points, etc.) will be considered as the same material. Solder points on a printing circuit board will be examined several times based on optical anomalies or discoloration of the solder point(s) unless the solder point(s) is obviously generated automatically during production.

All other materials will be sampled and tested at one test point representatively.

XRF Screening limits for different matrices :

	Concentration (%)						
Material	Cd	Cr	Pb	Hg	Br		
Polymeric	BL≤0.006 <x<0.014≤ OL</x<0.014≤ 	BL≤0.064 <x< th=""><th>BL≤0.067<x<0.133≤ OL</x<0.133≤ </th><th>BL≤0.066<x< 0.134≤OL</x< </th><th>BL≤0.029<x< th=""></x<></th></x<>	BL≤0.067 <x<0.133≤ OL</x<0.133≤ 	BL≤0.066 <x< 0.134≤OL</x< 	BL≤0.029 <x< th=""></x<>		
Metallic	BL≤0.006 <x<0.014≤ OL</x<0.014≤ 	BL≤0.064 <x< th=""><th>BL≤0.067<x<0.133≤ OL</x<0.133≤ </th><th>BL≤0.066<x< 0.134≤OL</x< </th><th>n.a.</th></x<>	BL≤0.067 <x<0.133≤ OL</x<0.133≤ 	BL≤0.066 <x< 0.134≤OL</x< 	n.a.		
Composite materials	BL≤0.004 <x<0.016≤ OL</x<0.016≤ 	BL≤0.044 <x< th=""><th>BL≤0.047<x<0.153≤ OL</x<0.153≤ </th><th>BL≤0.046<x< 0.154≤OL</x< </th><th>BL≤0.024<x< th=""></x<></th></x<>	BL≤0.047 <x<0.153≤ OL</x<0.153≤ 	BL≤0.046 <x< 0.154≤OL</x< 	BL≤0.024 <x< th=""></x<>		

Remark: The symbol "X" marks the region where further investigation is necessary.



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Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE)

Test Method: Total Cadmium, Lead, Mercury, Chromium

- Ref. to IEC 62321-4:2013+AMD1:2017 and IEC 62321-5:2013

Chromium (VI)

- For Metal material - Ref. to IEC 62321-7-1:2015

- For Plastic or Electronic material - Ref. to IEC 62321-7-2:2017

- For Leather material - Ref. to EN ISO 17075-1:2017

PBBs, PBDEs - Ref. to IEC 62321-6:2015

Test Result:

	Cd	Cr(VI)	Pb	Hg	PBBs (*)	PBDEs (*)
Maximum Permissible Limit (%)	0.01	0.1	0.1	0.1	0.1	0.1

	(%)							
Material No.	Cd	Cr^	Pb	Hg	PBBs (*)	PBDEs (*)		
waterial No.			RL ((%)				
	0.001	0.001	0.001	0.001	0.01	0.01		
M007	n.a.	n.a.	n.a.	n.a.	< RL	< RL		
M008	n.a.	n.a.	3.33 6(c)	n.a.	n.a.	n.a.		
M015	n.a.	n.a.	n.a.	n.a.	< RL	< RL		
M019	n.a.	n.a.	n.a.	n.a.	< RL	< RL		
M035	n.a.	n.a.	n.a.	n.a.	< RL	< RL		
M036	n.a.	n.a.	n.a.	n.a.	< RL	< RL		
M045	n.a.	n.a.	n.a.	n.a.	< RL	< RL		
M046	n.a.	n.a.	n.a.	n.a.	< RL	< RL		
M053	n.a.	n.a.	n.a.	n.a.	< RL	< RL		
M055	n.a.	n.a.	n.a.	n.a.	< RL	< RL		
M057	n.a.	n.a.	n.a.	n.a.	< RL	< RL		
M065	n.a.	n.a.	n.a.	n.a.	< RL	< RL		
M085	n.a.	n.a.	n.a.	n.a.	< RL	< RL		
M090	n.a.	n.a.	n.a.	n.a.	< RL	< RL		
M093	n.a.	n.a.	n.a.	n.a.	< RL	< RL		
M094	n.a.	n.a.	n.a.	n.a.	< RL	< RL		
M095	n.a.	n.a.	n.a.	n.a.	< RL	< RL		
M096	n.a.	n.a.	n.a.	n.a.	< RL	< RL		



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M097	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M098	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M099	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M100	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M101	n.a.	n.a.	n.a.	n.a.	< RL	< RL

Material No.	Hexavalent Chromium Content (μg/cm²) (*1) RL: 0.10 μg/cm²		
M001	Negative		
M002	Negative		
M043	Negative		
M044	Negative		
M059	Negative		
M072	Negative		
M073	Negative		
M074	Negative		
M075	Negative		
M076	Negative		
M078	Negative		
M080	Negative		
M081	Negative		
M082	Negative		

Abbreviation: Pb = Lead

Cd = Cadmium
Hg = Mercury
Cr = Chromium
Cr (VI) = Chromium (VI)

PBBs = Total Polybrominated Biphenyls PBDEs = Total Polybrominated Diphenyl Ethers

< = Less thanRL = Reporting Limitn.a. = Not Applicable

^ = The total Chromium have been determined

% = Percentage



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Remark:

(*1) The total chromium content in Metal sample was found to be exceeded the maximum permissible limit (0.1%). Thus, the Chromium (VI) content in surface layer have been confirmed with reference to IEC 62321-7-1:2015 Annex.

	Chromium (VI) concentration	Qualitative result		
Negative	<0.1µg/cm²	The sample is negative (-ve) for Cr(VI). The Cr(VI) concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating		
Inconclusive ≥0.1µg/cm² and ≤0.13 µg/cm²		The result is considered to be inconclusive. Unavoidable coating variations may influence the determination. Recommendation: if additional samples are available, perform a total of 3 trials to increase sampling surface area. Use the averaged result of the 3 trails for the final determination.		
Positive	>0.13 μg/cm²	The sample is positive (+ve) for Cr(VI). Concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).		

6(c) Copper alloy containing up to 4 % lead by weight



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BBP, DBP, DEHP, DIBP content Test Method: IEC 62321-8:2017

Test Result:

	BBP	DBP	DEHP	DIBP
Maximum permissible Limit (%)	0.1	0.1	0.1	0.1

	Material No.	(%)				
Test No.		BBP	DBP	DEHP	DIBP	
		RL (%)				
		0.005	0.005	0.005	0.005	
T001	M003	< RL	< RL	< RL	< RL	
T002	M004 + M005 + M006	< RL	< RL	< RL	< RL	
T003	M010 + M011 + M012	< RL	< RL	< RL	< RL	
T004	M013 + M014 + M017	< RL	< RL	< RL	< RL	
T005	M018 + M023 + M024	< RL	< RL	< RL	< RL	
T006	M025 + M026 + M027	< RL	< RL	< RL	< RL	
T007	M029 + M030 + M031	< RL	< RL	< RL	< RL	
T008	M032 + M038 + M040	< RL	< RL	< RL	< RL	
T009	M066 + M067 + M086	< RL	< RL	< RL	< RL	
T010	M087 + M088	< RL	< RL	< RL	< RL	

Abbreviation: BBP= Benzylbutyl phthalate

DBP= Dibutyl phthalate

DEHP= Bis(2-ethylhexyl) phthalate

DIBP= Diisobutyl phthalate

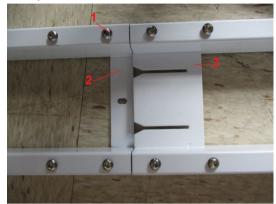
< = less than

RL = Reporting Limit N.A. = Not Applicable

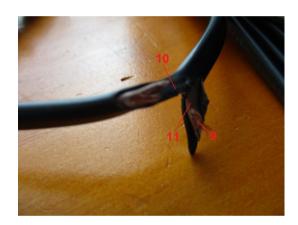
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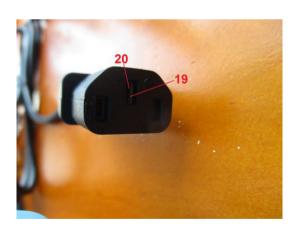






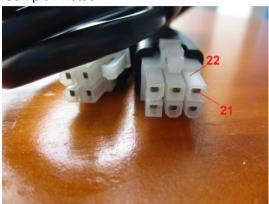


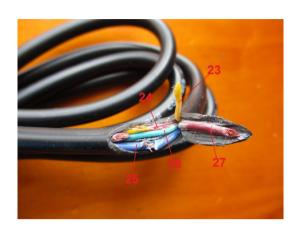




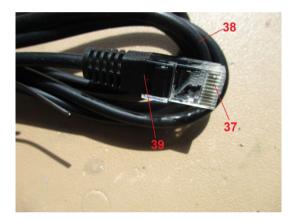


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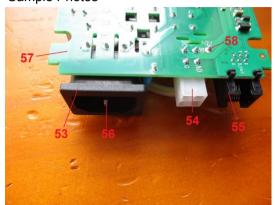


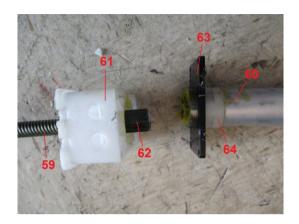






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General Terms and Conditions of Business of TÜV Rheinland in Greater China

These General Terms and Condisions of Business of TÜV Rheinland in Greater China ("CTCE") is made between the client and one or more member entitles of TÜV Rheinland in Terter State ("CTCE") is made between the client and one or more member entitles of TÜV Rheinland in Terter State ("China hered" China hered refers to Mainland China. Hong Kong and Talwan. The client hereof includes ("China hered") concludes the contract of the repulse of a day laws. (In a natural person capable to form legally binding contracts under the applicable laws who concludes the contract not for the purpose of a day laws ("China hered") contracts and capable to form legally binding contracts under the applicable law. The following terms and conditions apply to agreed services including consultancy services, information, deliveries and similar services as well as a molitary services and other secondary challenges of contract performance.

coagainors provided within the scope of contract performance.

Any standard terms and conditions of the client of any nature shall not apply and shall hereby be expressly excluded. No standard contractual terms and conditions of the client shall form part of the contract even if TU Rheinland does not explicitly object to them. A shall slot apply to future contracts with the client without TUV Rheinland having to refer to them separately in each individual care.

Unless otherwise agreed, all quotations submitted by TÜV Rheinland can be changed by TÜV Rheinland without notice prior to its acceptance and confirmation by the other party.

The contract shall come into effect for the agreed terms upon the quotation letter of TDV. Rheinland or a separate contractual document being signed by both contracting parties, or upon the works requested by the client being carried out by TDV. Rheinland. If the client instructs TDV. Rheinland without receiving a quotation from TDV. Rheinland, quotation, TDV. Rheinland is, in its sole discretion, entitled to accept the order by giving written notice of such acceptance (including notice sent with electronic means) or by performing the requested productions of the contraction of the contrac

services.
The contract term starts upon the coming into effect of the contract in accordance with article 3.1 and shall continue for the term agreed in the contract.
If the contract provides for an extension of the contract term, the contract term will be extended by the term provided for in the contract unless terminated in writing by either party with a three-month notice prior to the end of the contractual term.

Scope of services

The scope and type of the services to be provided by TÜV Rheinland shall be specified in the contractually agreed service scope of TÜV Rheinland by both parties. If no such separate service scope of TÜV Rheinland by both parties. If no such separate service scope of TÜV Rheinland of service scope of TÜV Rheinland of service to be provided. Unless otherwise agreed, services beyond the scope of the service description (e.g. checking the correctness and functionality of parts, products, processes, installations, organizations not listed in the service description, as well as the intended use and application of such jare not work in particular, or responsibility is assumed for the design, electric of materials, construction or intended use of an examined The agreed services of plant, unless this leapness) sealed in the order. The agreed services the services sealed in the order. The agreed services is entitled to determine, in its sole discretion, the method and nature of the assessment unless otherwise agreed in writing or if mandatory provisions require a specific procedure to be followed.

TOV Rheinland is entitled to determine, in it is now assessment unless otherwise agreed in writing of it mandatory provisions require a specific procedure to be followed.

The provision of the provision of the provision of the provision of any gusrantee of the Correctness (proving plant of the provision of the accuracy or the accuracy or

in accordance with regulations, unless these questions are expressly covered by the contract. In the case of impection work. TVV Rehelland shall not be responsible for the accuracy or checking of the safety programmes or safety regulations on which the inspections are based, unless otherwise expressly agreed in writing.

If mandatory legal regulations and standards or official requirements for the agreed service scope change after conclusion of the contract, which a written notice to the client, TVV Rehelland shall be entitled to additional remuneration for resulting additional expenses. The services to be provided by TVV Rehelland shall be entitled to additional remuneration for resulting additional expenses. The services to be provided by TVV Rehelland under the contract or agreed exclusively with the client. A contract of third parties with the services of TVV Rehelland, as well as making reports, etc.) is not part of the agreed services. This also applies if the client passes on work results - in full or in extracts - to third parties in accordance with clause 11.4.

5.1

Performance periodicidates
The contractingly agent periodicidates of performance are based on estimates of the work invoked which are prepared in line with the details provided by the client. They shall only be binding if being confirmed as binding by TUV Rheinland in writing.
If binding periodic of performance have been agreed, these periods shall not commence until the client has submitted all required documents to TUV Rheinland.
If binding periodicidates of performance have been agreed, these periodicidates of performance not caused by TUV Rheinland.
If the periodicidates of performance not caused by TUV Rheinland, the client has soft of the contraction of agreed periodicidates of performance not caused by TUV Rheinland is returned to the contraction of tallide the client has not done so in time and, in performance of the service as specified in the contract.

If the performance of TUV Rheinland is delayed due to unforeseeable circumstances such as force majeure, strikes, business disruptions, governmental regulations, transport obstacles, etc., TUV Rheinland is entitled to postpore performance for a reasonable period of time which required to resume performance.

If the client is obliged to comply with legal, officially prescribed and/or by the accreditor prescribed deathles, it is the client's responsibility in this respect unless TUV Rheinland segments of the middle person performance of the winds prescribed deathles, it is the client's responsibility in this respect unless TUV Rheinland expressly agreed in writing specifically stating that ensuring the deadlines is the contractual obligation of TUV Rheinland congested.

The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in good time and at no cost to $T\bar{U}V$ Rheinland.

be provised in good limit and at his cost of 10 of Rheinland.

Design documents, supplies, auditing staff, etc. necessary for performance of the services shall be made available free of charge by the client. Moreover, collaborative action of the client must be undertaken in accordance with legal provisions, standards, safety regulations and accident prevention instructions. And the client represents and warrants or

The product, service or management system to be certified complies with applicable laws and regulations; and

It doesn't have any illegal and dishonest behaviours or is not included in the list of Enterprises with Serious Illegal and Dishonest Acts of People's Republic of China.

If the client breaches the aforesaid representations and warranties, TÜV Rheinland is entitled to i) immediately terminate the contract/order without prior notice; and ii) withdraw the issued testing report/certificates if any.

The client shall bear any additional cost incurred on account of work having to be redone or being delayed as a result of late, incorrect or incomplete information provided by or lack of proper cooperation from the cli

If the scope of performance is not laid down in writing when the order is placed, invoicing shall be based on costs actually incurred. If no price is agreed in writing, invoicing shall be made in accordance with the price list of TUV Rheinland valid at the time of performance. Unless otherwise agreed, work shall be invoiced according to the progress of the work. If the execution of an order extends over more than one month and the value of the contract or the agreed fixed price exceeds \$2,500.00 or equivalent value in local currency. TUV Rheinland may demand payments on account or in installments.

All invoice amounts shall be due for payment within 30 days of the invoice date without deduction on receipt of the invoice. No discounts and rebates shall be granted. Payments shall be made to the bank account of TÜV Rheinland as indicated on the invoice, sating the invoice and client numbers and client numbers and client numbers are entitled to client deduction from the state of the payment of the payment of the country where TÜV Rheinland is located. At the same time, TÜV Rheinland shale he right to claim further damages. Should the client of default in payment of the invoice despite being granted a reasonable grace period, TÜV Rheinland shall be entitled to cancel the contract, which was the certificate, claim damages for new-entimance and related to charge the promises of the contract designs, claim of payment, commencement of insolvency proceedings against the client's assets or cases in which the commencement of insolvency proceedings against the client's assets or cases in which the commencement of insolvency proceedings against the client's assets or cases in which the commencement of insolvency proceedings against the client's assets or cases in which the commencement of insolvency proceedings has been disnisted due to lack of assets.

s. ns to the invoices of TÜV Rheinland shall be submitted in writing within two weeks of

Objections to the invoices of TÜV Rheinland shall be submitted in writing within two weeks of receiped of the invoices.

TÜV Rheinland shall be entitled to demand appropriate advance payments.

TÜV Rheinland shall be entitled to fraise its fees at the beginning of a month if overheads and/or purchase costs have increased. In this case, TÜV Rheinland shall notify the client in writing of the rise in fees. This notification shall be issued one month prior to the date on which the rise in fees shall come into effect (period of notice of changes in fees). If the rise in fees remains under 5% per contractual year, the client shall not have the right to terminate the contract. If the rise in fees exceeds 5% per contractual year, the client shall be entitled to terminate the contractual by the vide of the period of notice of changes in fees. If the contract terminate the contractual by the vide of the period of notice of changes in fees. If the contract is the period of notice of changes in fees. If the contract is the period of notice of changes in fees. If the contract is the contract of the period of notice of changes in fees. If the contract is not the period of notice of changes in fees.

Acceptance of work

Any part of the work result ordered which is complete in itself may be presented by $T\bar{U}V$ Rheinland for acceptance as an instalment. The client shall be obliged to accept it

immediately. If acceptance is required or contractually agreed in an individual case, this shall be deemed to have taken place two (2) weeks after completion and handover of the work, unless the client refuses acceptance within this period stating at least one fundmental breach of contract by TIM Publicians. berinland.

ent is not entitled to refuse acceptance due to insignificant breach of contract by TÜV

The client is not entitled to refuse acceptance due to insignificant breach of contract by TUV remeinland.
The control of the

Confidentiality

For the purpose of these terms and conditions, "confidential information," means all know-how, trade secrets, documents, images, drawings, expertise, information, data, test results, reports, samples, project documents, princing and financial information, customer and supplier information, and marketing techniques and materials, techniques and techn

biddle count accreditation bodies or third parties that are involved in the performance of the contract, must be treated by the receiving party with the same level of confidentiality as the receiving party uses to protect its own confidential information, but never with a lesser level of confidentiality than that which is reasonably required.

The protection of the confidentiality than that which is reasonably required. The receiving party uses to protect its own confidential information received from the disclosing party coly to those of its employees who need this information to perform the services required for the contract. The receiving party undestables to oblige these employees to observe the same level of services party confidentiality clause. Information for which the receiving party can turnish proof that: it was generably whom at the time of disclosure or has become general knowledge without violation of this confidentiality clause by the receiving party, or which is confidentiality clause by the receiving party or the receiving party can be provided by the disclosure by the disclosure by the disclosure party, sharp party developed it itself, irrespective of disclosure by the disclosing party, sharp her receiving party can be party developed it itself, irrespective of disclosure by the disclosing party, sharp and the party can be considered to the receiving party or the receiving party can be considered to the considered party can be considered to the considered t

10.5 a)

b) c)

the receiving party already possessed this information prior to disclosure by the disclosing party or party or the receiving party developed it itself, irrespective of disclosure by the disclosing party, shall not be deemed to constitute "confidential information" as defined in this confidential prior to be deemed to constitute "confidential information" as defined in this confidential prior party. The receiving party hereby agrees to immediately (of termal confidential information party, the disclosing party, to destroy all confidential the disclosing party, and/or (i) on request by the disclosing party, to destroy all confidential the disclosing party in writing, at any time if so requested by the disclosing party but at the disclosing party with reflect the disclosing party but at the disclosing party in writing, at any time if so requested by the disclosing party but at the disclosing party with reflect the disclosing party but at the disclosing party but at the disclosing party but at the disclosing party that the disclosing party to writing at any time if so requested by the disclosing party but at the disclosing party but at

10.7

Copyrights and rights of use, publications

11.1

Copyrights and rights of use, publications
TUV Rheinland shall retain all exclusive copyrights in the reports, expert reports/opinions, test
reports/results, results, acclusions, presentations etc. prepared by TUV Rheinland, unless
otherwise agreed by the parties in a separate agreement. As the owner of the copyrights, TUV
use ("right out great test her right to use the work results for individual or all types of
The client receives a simple, unlimited, non-transferable, non-sublicensable right of use to the
contents of the work results produced within the scope of the contract, unless otherwise
agreed by the parties in a separate agreement. The client may only use such reports, expert
the scope of the contract for the contractally agreed purpose.
The transfer of right of use of the generated work results regulated in clause 11.2. of the GTGB
is subject to full geyment of the remunestion agreed in showed TUV Rheinland basis on the
work results in full unless TUV Rheinland has given its prior written consent to the partial
passing on of work results.
Any publication or duplication of the work results for advertising purposes or any further use of
introduction of TUV Rheinland need the prior written approval of TUV Rheinland here
the price of the second results.
The consent of TUV Rheinland client is colleged to stop the transfer or the work results to refer the second produced the second part of the remove the prior written approval of TUV Rheinland to pulse the second part of the work results immediately at its own expense and, as far as possible, to withdraw publication.

The consent of TUV Rheinland to pulselation or duplication of the work results immediately at his own expense and, as far as possible, to withdraw publication.

The consent of TUV Rheinland to pulselation or duplication of the work results immediately at his own expense and, as far as possible, to withdraw publication.

11.6

Liability of TÜV Rheinland

Liability of TÜV Rheinland
Irrespective of the legal basis, to the fullest exent permitted by applicable law, in the event of a
breach of contractual obligations or tort, the liability of TÜV Rheinland for all damages, losses
and reimbursement of expenses caused by TÜV Rheinland, its legal representatives and/or
employees shall be limited bit; (i) in the case of a contract with a faed overall fee, three times
entry the case of a contract expressly charged on a time and
material basis, a maximum of 2000 Euro or equivalent amount in local currency, and (vi) in
the case of a framework agreement that provides for the possibility of placing individual orders,
three times of the fee for the individual order under which the damages or losses have
cocurred. Notwithstanding the above, in the event that the total and accumulated islability
calculated according to the foreign provision rescreeds 25 Million Euro or equivalent amount
on
the limitation of liability according to active 12 the second contract
and shall not exceed the said 2.5 Million Euro or equivalent amount in local currency.
The limitation of liability according to active 12 th above shall not apply to damages and
various agents. Such limitation shall not apply to damages for a person seeth, physical
injury of times.

vicarious agents. Such limitation shall not apply to damages for a person's death, physical injury of illness, and a fundamental breach of context, TVD Rehalend will be liable even where minor negligence is involved. For this purpose, a "fundamental breach" is breach of a material contractual obligation, the performance of which permits the due performance of the contract. Any claim for damages resonably foreseen as a possible consequence of such other of contract at the damages resonably foreseen as a possible consequence of such breach of contract at section of the contract at the contract of the clean of the contract of the contract of the clean of the contract

contract to the client.
The limitation periods for claims for damages shall be based on statutory provisions.
None of the provisions of this article 12 changes the burden of proof to the disadvantage of the

13.1

When passing on the services provided by TÜV Rheinland or parts thereof to third parties in Greater China or other regions, the client must comply with the respectively applicable regulations of national and international export control to the performance of a contract with the client is subject to the proviso that there are no obstacles to performance due to national or international foreign trade legislations or embarges and/or with immediate effect and the client shall compensate for the losses incured thereof by TÜV Rheinland.

The elient understands and agrees that TÜV Rheinland processes personal data (including but not limited to personal information) of the client and its related parties (including but not limited to the supplier of the client) for the purpose of fulfilling is contract. The client confirms that it has obtained the prior consent of the data subject, which entities TÜV Rheinland to access, use, or process the personal data that the client collected or processed by itself and data. TÜV Rheinland will use and process the data is accordance with the relevant legal basis. If any personal data has to be disclosed or transferred to any third party or any overseas party outside of the district in which the personal data was collected, the client also confirms that it has obtained the prior consent of the data subject. TÜV Rheinland will care you chose-border associative related to the district in which the personal data was collected, the client also confirms that it has obtained the prior consent of the data subject. TÜV Rheinland will explore the confirmation of the data subject. TÜV Rheinland will subject to the client also confirms that it has obtained the prior consent of the data subject. TÜV Rheinland will subject to the confirmation of the data subject. TÜV Rheinland will subject to the confirmation of the co

Retention of test material and documentation

The test samples submitted by the client to TUV Rheinland for testing will be scrapped following testing or will be returned to the client at the client's expense. The only exceptions are test samples, which are placed in storage on the basis of statutory regulations or of another Charges apply if the test samples are stored at the premises of TUV Rheinland. The cost of placing a test sample into storage will be disclosed to the client in the quotation. It reference samples or documentations are given to the client to be placed in storage at their premises, the reference samples or documentations must be made available to TUV references, the reference samples or documentations are given to the client to be placed in storage at their premises, the reference samples or documentations are given to the client to be placed in storage at their premises, the reference samples or documentation are given to the control of the cont 15.4

16.1

Termination of the contract

Notwithstanding clause 3.3 of the GTCB, TÜV Rheinland and the client are entitled to terminate the contract in its entirely or, in the case of services combined in one contract, each of the combined parts of the contract individually and independently of the continuation of the remaining services with six (6) mortifier notice to the end of the contractually agreed term. The combined is not to the contract of the contraction of the remaining services with six (6) mortifier notice to the end of the contraction agreed term. The combined is not to the contract of the contrac

17.2

withdrawn (for example during the performance of monitoring audis). Clause 16.3 applies accordingly.

Force Majeure

*Terore Nejeure' means the occurrence of an event or circumstance that prevents or impedes a Party from performing one or more of its contractual obligations under the contract, I and to a party from performing one or more of its contractual obligations under the contract, I and to the contract, and (c) that the effects of the impediment could not reasonably have been coverage and (b) that it conclusion of the contract, and (c) that the effects of the impediment could not reasonably have been overaged to the contract, and (c) that the effects of the impediment could not reasonably have been avoided or overcome by the efficied Party, contract the efficiency of t

18. 18.1.

Hardship
The Parlies are bound to perform their contractual duties even if events have rendered performance more onerous than could reasonably have been anticipated at the time of the Notwithstanding paragraph 1 of this Clause, where a Party proves that:

The continued performance of its contractual duties has become excessively onerous due to an event beyond its reasonable control which it could not reasonably have been expected to have taken into account at the time of the continuation of the contract, and that attacked the control of the control of the contract, and that are also make the control of the control 18.3.

19.3

agreement of the other Party.

Partial invalidity, written form, place of jurisdiction and dispute resolution.

All amendments and supplements must be in writing in order to be effective. This also applies to amendments and supplements to this clause 171.

It also applies to amendments and supplements to this clause 171.

Description of the property of the propert