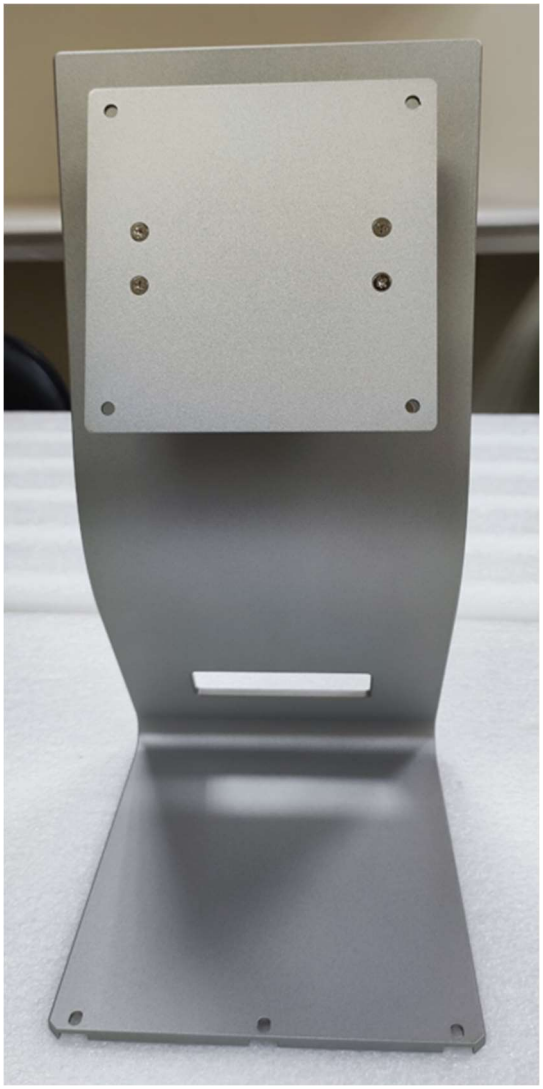
*注意事項

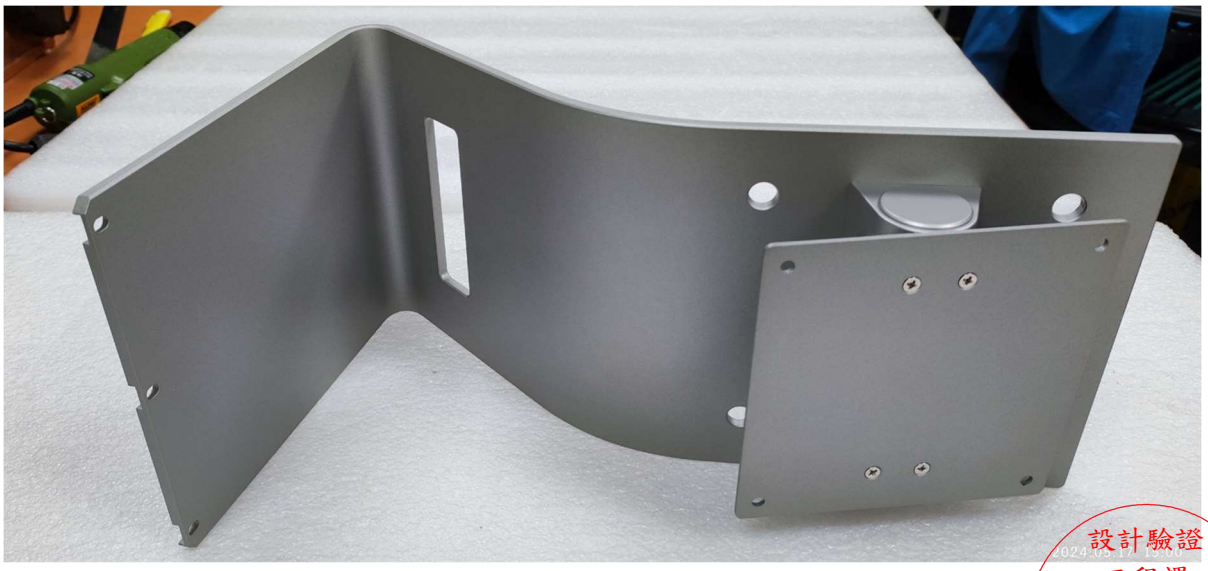
角度尺寸 100°(+1.5°/-0),

檢驗尺寸可寬放至 100°(+1.5°/-0.5°).





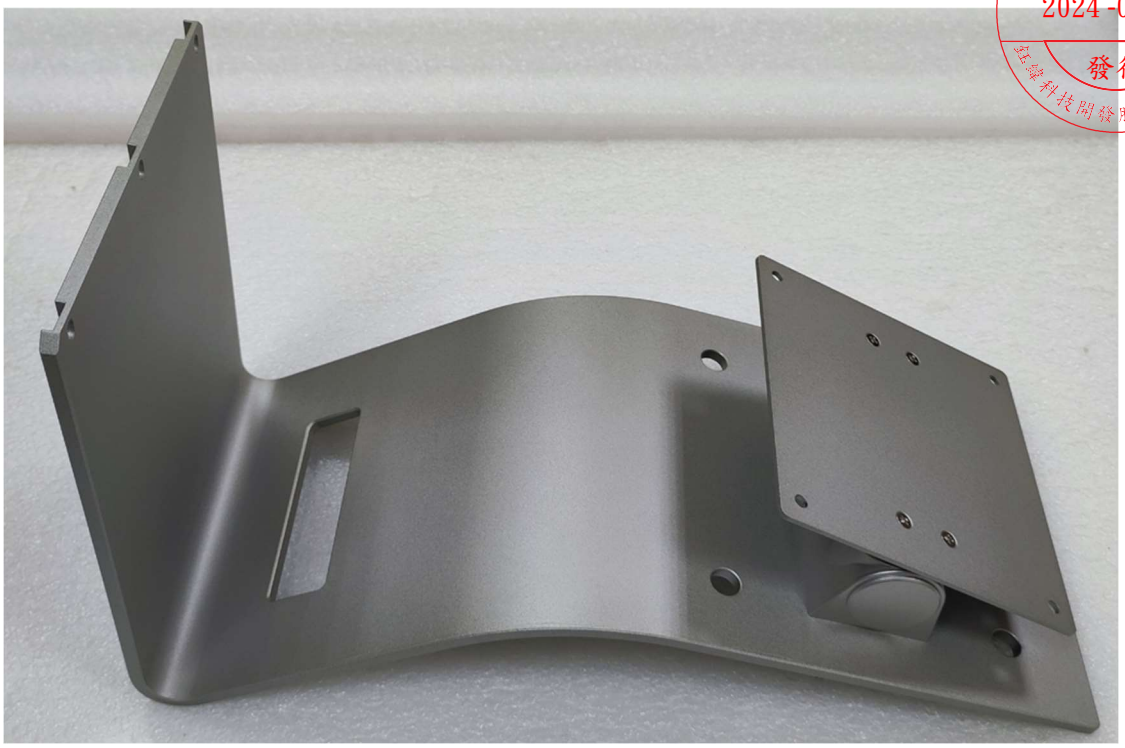




設計驗證
工程課
2024-05-17
發行
旺緯科技開發股份有限公司







設計驗證
工程課
2024-05-17
發行
鈺緯科技開發股份有限公司

雄業實業股份有限公司

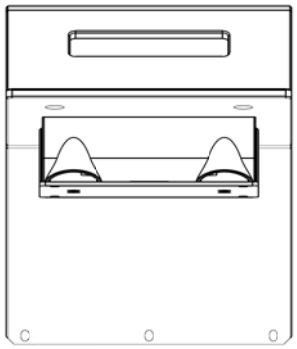
樣 品 承 認 書

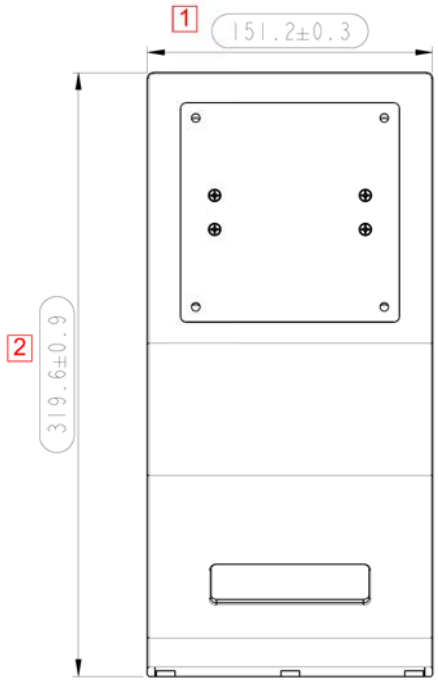


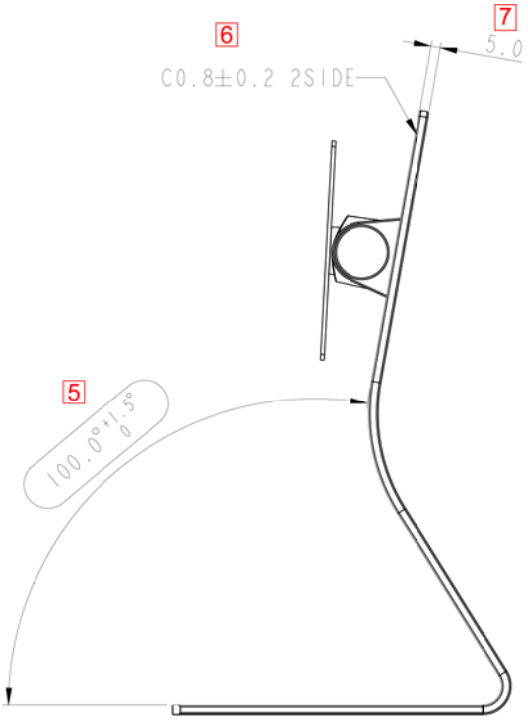
客　　戶：	鈺緯科技
料　　號：	2AAD4640034(M3128)
品　　名：	STAND SUB ASSY
日　　期：	113/5/15
送樣數量：	3　　PCS

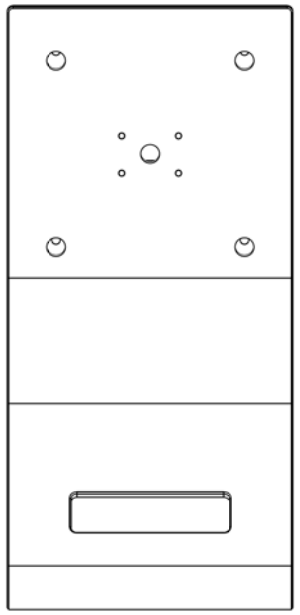


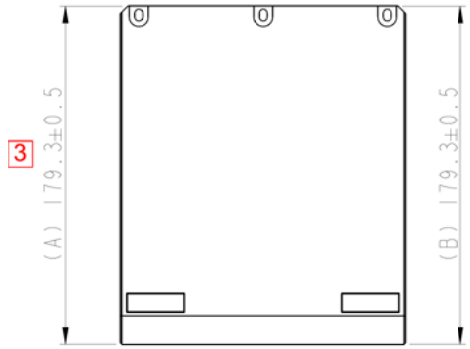
REV.	DATE	DESCRIPTION	BY	APVD
C	22/02/07	RELEASE FOR PRODUCTION	Jay Hsu	











A-B or B-A≦0.3mm

設計驗證
工程課
2024-05-17
發行
鈺緯科技開發股份有限公司

NOTE:
1. SPECIFY THE TILT ANGLES AS: 3°(+2°/-3°) AND 20°(+3°).
2. IQC INSPECTION DOCUMEMNT NO.: QWI-013, QWI-018, QWI-020 , QWI-023 , QWI-024.

RANGE OF DIMENSION	TOLERANCE CLASS DESIGNATION f	m	c
UP TO 30	±0.10	±0.20	±0.50
ABOVE 30-120	±0.15	±0.30	±0.80
ABOVE 120-315	±0.20	±0.50	±1.20
ABOVE 315-1000	±0.30	±0.80	±2.00
ANGLE ±1° (±1.75/100)			

THIRD ANGLE PROJECTION

UNITS: mm | SCALE: 1/1 | SHEET: 1 OF 2 | MODEL NO.: GUP2732CMI

MATERIAL: | TREATMENT: SEE NOTES

DSGD by	Jay Hsu	2019-10-17
CHK by	-	-
APVD by		
APVD NO.:	(M3128)	

3D FILE NAME: PHP27_BASE_2AAD4640034

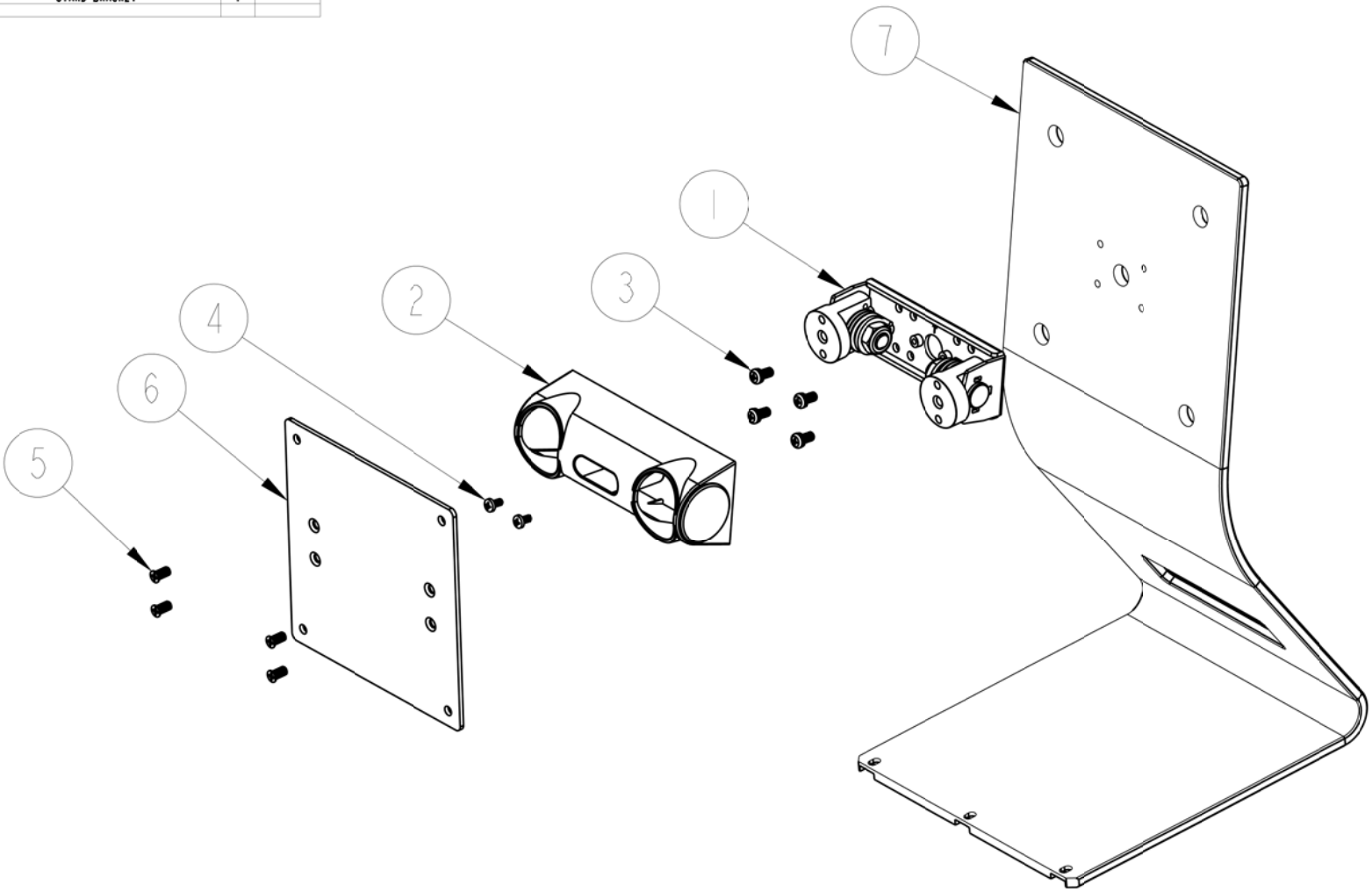
PART NAME: STAND SUB ASSY

PART NO.: 2AAD4640034 REV. 0

DMA Laboratories ,Ltd.

Index	Part No	Description	Q'ty	NOTE
1	3MD464ME050	HINGE	1	
2	3MD332PA050	Stand HINGE COVER	1	
3	3GSP4008P15	SCREW (M4*8,PAN,W/SP-WSR,Ni)	4	
4	3GSW3006B15	SCREW (M3*6,BIND,Ni)	2	
5	3GST4008X15	SCREW (M4*8,FLAT 110°,Ni,NYLOK)	4	
6	3MD332ME050	VESA PLATE	1	
7	3MD464ME04A	STAND BRACKET	1	

REV.	DATE	DESCRIPTION	BY	APVD
0	22/02/07	RELEASE FOR PRODUCTION	Jay Hsu	-



設計驗證
工程課
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廷鏵科技開發股份有限公司

RANGE OF DIMENSION	TOLERANCE CLASS DESIGNATION f	V m	c
UP TO 30	±0.10	±0.20	±0.50
ABOVE 30~120	±0.15	±0.30	±0.80
ABOVE 120~315	±0.20	±0.50	±1.20
ABOVE 315~1000	±0.30	±0.80	±2.00
ANGLE ±1° (±1.75/100)			

THIRD ANGLE PROJECTION

UNITS:mm | SCALE: 1/1 | SHEET: 2 OF 2 | MODEL NO.:

MATERIAL: | TREATMENT:

DSGD by Jay Hsu 2019-10-17

CHK by

APVD by

APVD No.: (M3128)

3D FILE NAME: PHP27_BASE_2AAD4640034

PART NAME: STAND SUB ASSY

PART NO.: 2AAD4640034 REV. 0

DMA Laboratories ,Ltd.

Test Result	

DIVA FAI DATA SHEET

Part Number : 2AAD4640034 (M3128)		Supplier : 雄業		Date: 2024/5/15	
Part Description : STAND SUB ASSY				Cavity / Tool # :	
Revision : 0		Material Spec: SPCC T=5.0mm		Inspector: 李宥廷	

MOI-Method of inspection abbreviation: HG = Height gauge, MIC = Micrometer, DC = Dial Caliper, P = Protractor, OC = Optical Comparator, CG = Checking Gauge, CMM = Coordinate Measuring Machine, OMM = Optical Coordinate Measuring Machine, HT = Hardness Trester, TG = Thickness Gauge, VIS = V D

OTHER:

DRAWING SPECIFICATIONS						INSPECTION RESULTS							INSPECTION ANALYSIS					
						Sample Number							% Tolerance		Alert/Rej		Supplier	RD Engineering
ITEM	LOCATION	NOMINAL	+TOL	-TOL	Method	1	2	3	1	2	3	Mean	UPPER	LOWER	HIGH	LOW	Remarks	Disposition
1	C2	151.20	0.30	0.30		151.300	151.200	151.240	0.100	0.000	0.040	151.247	33%	0%				
2	D2	319.60	0.90	0.90		320.180	319.660	320.000	0.580	0.060	0.400	319.947	64%	0%				
3	G3	179.30	0.50	0.50		179.340	179.400	179.520	0.040	0.100	0.220	179.420	44%	0%				
4	G4	179.30	0.50	0.50		179.400	179.340	179.500	0.100	0.040	0.200	179.413	40%	0%				
5	E5	100.00	1.50	0.00		100.200	100.600	100.300	0.200	0.600	0.300	100.367	40%					
6	C6	0.80	0.20	0.20		0.770	0.780	0.780	-0.030	-0.020	-0.020	0.777	0%	15%				
7	C7	5.00	0.20	0.20		5.020	4.980	5.000	0.020	-0.020	0.000	5.000	10%	10%				
		以下空白																

Instructions:
1.Inspector mest fillout the yellow area.
2. The table will automatically calculate the data in green area.

雄業實業股份有限公司

■ 組立
□ 沖壓

製程作業標準書

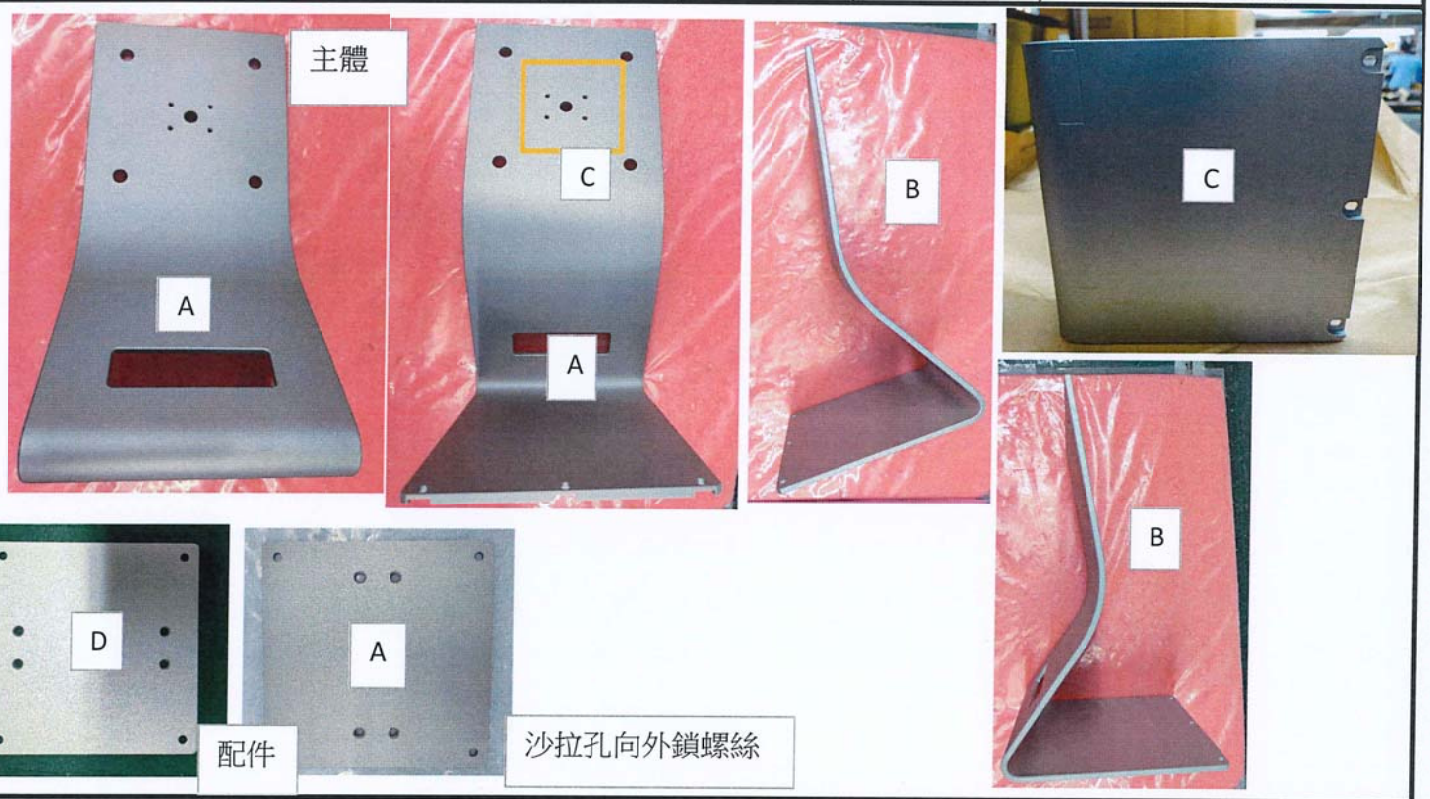
文件編號: PA-SOP-2AAD4640034

客戶	鈺緯	機種		料號	2AAD4640034 (M3128)		品名	STAND SUB 組立
工段		作業別	外觀檢查	機台編號		噸數	材質	SPCC*5.0

使用工具 / 機台設定		零組件 / 數量	
1		1	
2		2	
3		3	
4		4	

工序	內容
1	3MD464ME04A-主體 (酸洗板)
2	3MD332ME050-配件 (SECC)
3	烤漆-全烤 岳是L腳架銀織紋
4	
5	
6	
7	
8	
9	
10	

作業重點	
1	刮傷小於0.15MM不計 大於0.15-0.25MM一邊一個全部2個
2	汙點小於0.35不計 大於0.5mm一邊一個全部2個
3	烤漆異物小於0.5允許一個
4	由於C級面在底部與背部遮蓋處故
5	刮傷部分:無感刮傷＜5公分可
6	有感刮傷<2公分(不露底材)可壓傷<1mm顆粒雜質<0.7



不良履歷			
1	112.8.18客訴2AAD3320034HINGE組裝反向	4	
2		5	
3		6	

113. 3. 13 發行章

核准	張緒杰	審核		製表	李祺媗

製表日期	版本	修定內容
113.3.11	A0	新訂

雄業實業股份有限公司

■組立
□沖壓

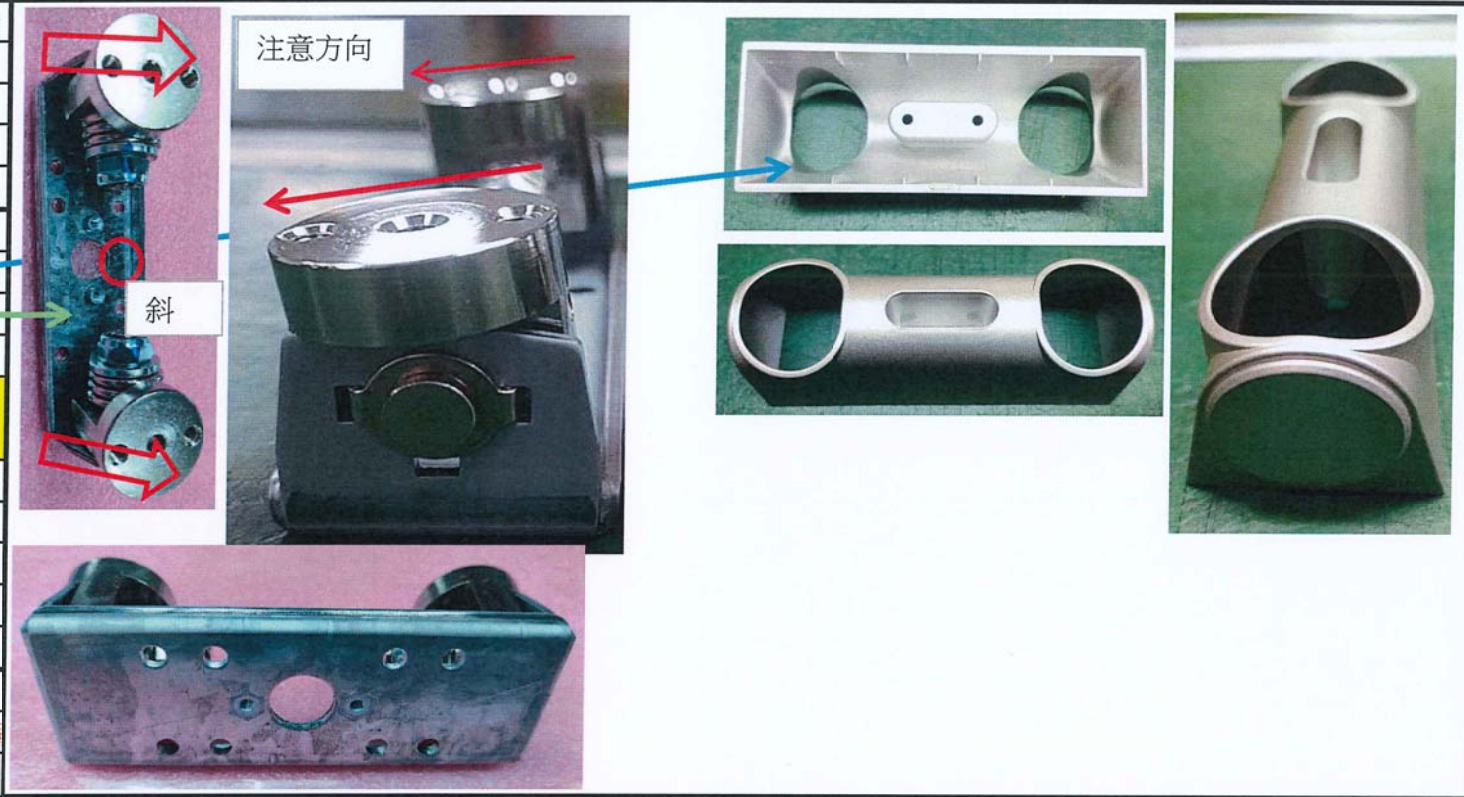
製程作業標準書

頁次：2/6
文件編號: PA-SOP-2AAD4640034

客戶	鈺緯	機種		料號	2AAD4640034 (M3128)	品名	STAND SUB 組立
工段		作業別	外觀檢查	機台編號		噸數		材質	SPCC*5.0

使用工具 / 機台設定		零組件 / 數量	
1		1	
2		2	
3		3	
4		4	

工序內容	
1	鈺緯客供料-3MD332PA050
2	鈺緯客供料-3MD464ME050
3	
4	客供(如有不良集中拿給生管他會退給客戶)
5	
6	
7	
8	
9	
10	



作業重點	
1	刮傷小於0.15MM不計 大於0.15-0.25MM一邊一個全部2個
2	汙點小於0.35不計 大於0.5mm一邊一個全部2個
3	烤漆異物小於0.5允許一個
4	由於C級面在底部與背部遮蓋處故
5	刮傷部分:無感刮傷＜5公分可
6	有感刮傷<2公分(不露底材)可壓傷<1mm顆粒雜質<0.7

不良履歷			
1	112.8.18客訴2AAD3320034HINGE組裝反向	4	
2		5	
3		6	

113. 3. 13 發行章

核准	張緒杰	審核		製表	李祺媗

製表日期	版本	修定內容
113.3.11	A0	新訂

雄業實業股份有限公司

■組立
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製程作業標準書

頁次：3/6
文件編號: PA-SOP-2AAD4640034

客戶	鈺緯	機種		料號	2AAD4640034(M3128)			品名	STAND SUB 組立
工段		作業別	鎖配件	機台編號		噸數		材質	SPCC*5.0

使用工具 / 機台設定		零組件 / 數量	
1		1	
2		2	
3		3	
4		4	

工序	內容
1	平頭螺絲3GSY4008X15 -M4*8L 鍍鎳 *4
2	圓頭螺絲3GSM3006B15-M3*6L 鍍鎳 *2
3	圓頭螺絲3GSP4008P15 -M4*8L 鍍鎳雙華司 *4
4	鈺緯客供料-3MD332PA050 組裝注意方向
5	
6	
7	
8	
9	
10	

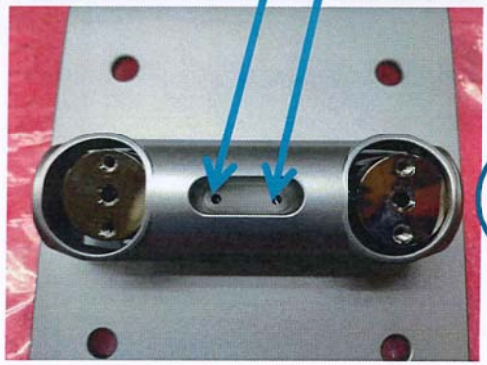
作業重點	
1	不可漏鎖 鎖歪
2	
3	
4	
5	
6	

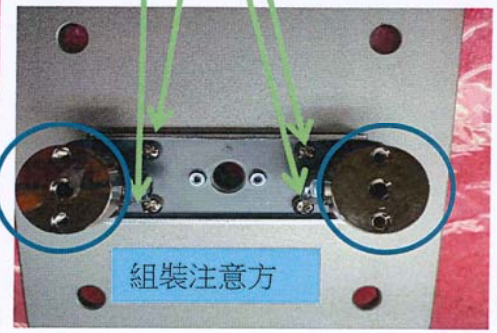












不良履歷			
1	112.8.18客訴2AAD3320034HINGE組裝反向	4	
2		5	
3		6	

113. 3. 13 發行章

核准	張緒杰	審核		製表	李祺媗

製表日期	版本	修定內容
113.3.11	A0	新訂

雄業實業股份有限公司

■ 組立
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製程作業標準書

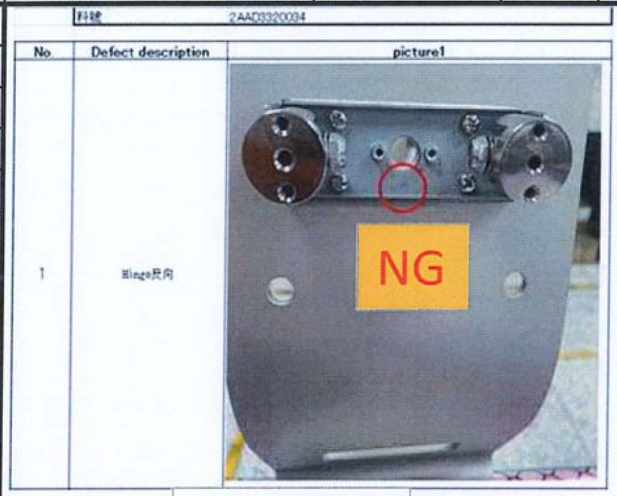
頁次：4/6
文件編號: PA-SOP-2AAD4640034

客戶	鈺緯	機種		料號	2AAD4640034(M3128)	品名	STAND SUB 組立
工段		作業別	外觀檢查	機台編號		噸數		材質	SPCC*5.0

使用工具 / 機台設定		零組件 / 數量	
1		1	
2		2	
3		3	
4		4	

工序內容	
1	檢查外觀 配件是否有鎖緊
2	鈺緯客供料-3MD332ME060組裝注意方向
3	
4	
5	
6	
7	
8	
9	
10	

作業重點	
1	刮傷小於0.15MM不計 大於0.15-0.25MM一邊一個全部2個
2	汙點小於0.35不計 大於0.5mm一邊一個全部2個
3	烤漆異物小於0.5允許一個
4	由於C級面在底部與背部遮蓋處故
5	刮傷部分:無感刮傷＜5公分可
6	有感刮傷<2公分(不露底材)可壓傷<1mm顆粒雜質<0.7











不良履歷			
1	112.8.18客訴2AAD3320034HINGE組裝反向	4	
2		5	
3		6	

核准	張緯杰	審核		製表	李祺媗

製表日期	版本	修定內容
113.3.11	A0	新訂

雄業實業股份有限公司 文管中心 113.3.13 發行章

雄業實業股份有限公司

■組立
□沖壓

製程作業標準書

文件編號: PA-SOP-2AAD4640034

客戶	鈺緯	機種		料號	2AAD4640034 (M3128)	品名	STAND SUB 組立
工段		作業別	包裝組立鎖螺絲包內外層	機台編號		噸數		材質	SPCC*5.0

使用工具/機台設定		零組件/數量	
1		1	
2		2	
3		3	
4		4	

工序內容	
1	外包:300*500*30mm
2	內包:PE袋:12*22*0.08
3	
4	
5	
6	
7	
8	
9	
10	

作業重點	
1	請小心輕放不可撞傷
2	
3	
4	
5	
6	







不良履歷			
1	112.8.18客訴2AAD3320034HINGE組裝反向	4	
2		5	
3		6	

核准	張緒杰	審核		製表	李祺媗

製表日期	版本	修定內容
113.3.11	A0	新訂

雄業實業股份有限公司 文管中心 113. 3. 13 發行章

雄業實業股份有限公司

■組立
□沖壓

製程作業標準書

文件編號: PA-SOP-2AAD4640034

客戶	鈺緯	機種		料號	2AAD4640034 (M3128)	品名	STAND SUB 組立
工段		作業別	包裝	機台編號		噸數	材質	SPCC*5.0

使用工具 / 機台設定		零組件 / 數量	
1		1	430*345*185mm (專用)
2		2	隔板*4
3		3	
4		4	



工序內容	
1	物件中間一定要用隔板分開
2	角一定要用隔板隔開避免撞擊
3	兩側也需要放隔板保護
4	一板只可放5層,棧板不可超過107CM
5	3PCS/箱
6	
7	
8	
9	
10	

作業重點	
1	小心輕放 不可短少
2	
3	
4	
5	
6	

不良履歷			
1	112.8.18客訴2AAD3320034HINGE組裝反向	4	
2		5	
3		6	

雄業股份有限公司 文管中心 113.3.13 發行章

核准	張緯杰	審核		製表	李祺媗

製表日期	版本	修定內容
113.3.11	A0	新訂

雄業實業股份有限公司

■組立
□沖壓

製程作業標準書

文件編號: PA-SOP-2AAD4640034

頁次：

客戶	鈺緯	機種		料號	2AAD4640034 (M3128)	品名	STAND SUB 組立
工段		作業別	斜角器量測	機台編號	噸數	材質	SPCC*5.0

使用工具 / 機台設定		零組件 / 數量	
1		1	
2		2	
3		3	
4		4	

工序	內容
1	按ZERO歸0
2	吸在料件底部平面處
3	移到斜面量測位
4	直接判定顯示值落在78~81度即可
5	
6	
7	
8	
9	
10	

作業重點	
1	
2	
3	
4	
5	
6	



按ZERO歸0



在料件上按ZERO歸



不良履歷			
1	112.8.18客訴2AAD3320034HINGE組裝反向	4	
2		5	
3		6	

113.3.13 發行章

核准	張緒杰	審核		製表	李祺媗

製表日期	版本	修定內容
113.3.11	A0	新訂

CHINASTEEL 中鋼公司

安全資料表(SDS)

一、物品與廠商資料

物品名稱：冷軋鋼捲(Cold Rolled Steel Coils & Sheets)	
物品編號：	
製造商或供應商名稱、地址及電話：中國鋼鐵股份有限公司 812 高雄市小港區中鋼路 1 號	
緊急聯絡電話：(07)802-1111	傳真電話：(07)8051292

二、危害辨識資料

重要物理性及化學性危害與效應	1.與強酸接觸會起反應產生可燃性氫氣。 2.銲接或加熱會產生氧化鐵燻煙。

三、成分辨識資料

純物質：

物品中（英）文名稱：鋼(STEEL)			
同義名稱：			
化學文摘社登記號碼(CAS.NO.)：			
鐵 Iron	7439-89-6	錳 Manganese	7439-96-5
碳 Carbon	7440-44-0		
危害物質成分(成分百分比)：鐵>96%			

危害物質成分之中（英）文名稱	濃度或濃度範圍(成分百分比)	危害物質分類及圖式
鐵(Fe)	>96%	
碳(C)	<1.5%	
錳(Mn)	<1.5%	

表面處理(Surface Treatments):本產品表面塗佈之物質包括下列作為防鏽處理之化學物質及特定產品專用金屬成分

危害物質成分之中（英）文名稱	濃度或濃度範圍(成分百分比)	危害物質分類及圖式
礦物油(Mineral Oil)	200~1500 g/m2	
合成酸酯(Synthetic Ester)	<200 g/m2	

四、急救措施

不同暴露途徑之急救方法：

- 吸入：本產品形態食入之可能性相當低。
- 眼睛接觸：立即將眼皮撐開，用大量水沖洗 15 分鐘。本產品形態進入眼睛之可能性相當低。
- 皮膚接觸：立即用肥皂和水清洗，本產品形態造成刺激皮膚之可能性相當低。

五、滅火措施

適用滅火劑：使用適合週遭火災之滅火器。

滅火時可能遭遇之特殊危害：1.此物若以大塊型式存在時，不可燃。
2.若以微細粉末存在時，遇火源有引起爆炸的危險。
3.本產品若熔化或燃燒，則會產生毒性或刺激性蒸汽，請使用個人呼吸防護器具。

六、洩漏處理方法

本產品為固體狀不適用。

七、安全處置與儲存方法

一般使用：本產品邊緣為尖銳薄片或捲片，進行各項作業必須使用個人防護器具，所有員工必須接受訓練以安全地進行各項作業。

儲存建議：建議儲存於可防止實體破壞、濕氣、直接日曬之場所。

八、暴露預防措施

重要成分	化學文摘社登記號碼 CAS NO.	重量比例 (%)	暴露限制	
			OSHA PEL	ACGIH TLV
鐵 Iron	7439-89-6	96	未建立	未建立
表面處理(Surface Treatments):本產品表面塗佈之物質包括下列作為防鏽處理之化學物質及特定產品專用金屬成分				
礦物油 (Mineral Oil)	--	200~1500 g/m^2	未建立	未建立
合成酸酯 (Synthetic Ester)	--	<200 g/m^2	未建立	未建立

工程控制：

1. 在進行燃燒、銅鑄、切割、研磨、打光、銲接或其他機械加工時，應使用機械通裝置。
2. 若在進行機械加工時，有產生粉塵或微粒狀物質，建議採用局部及一般通風裝置以預防過多的危害物質暴露。

個人防護設備：

眼睛防護：在進行本產品作業時請穿戴化學安全護目鏡。

呼吸防護：如需符合暴露標準 在進行切割、研磨、打光或銲接等機械加工作業時，應使用自攜式呼吸防護具。

皮膚防護：1.使用皮革或防割傷手套以免被尖銳薄片或捲片割傷。
2.使用防滲透手套以免被皮膚接觸表面油污。

身體防護：1.連身式防護衣。
2.工作鞋。
3.工作區要有淋浴/沖眼設備。

衛生措施： 1.工作場所嚴禁飲用、抽煙或飲食。
2.處理此物後，須徹底洗手。

九、物理及化學性質

物質狀態：固體	形狀：薄片或捲片
顏色：金屬性灰色	氣味：無味
pH 值：不適用	閃火點：不適用
熔解溫度：1535℃	
自燃溫度：不適用	爆炸界限：不適用
密度：7.5 - 8.0（水=1）	溶解度：不溶於水
熔點/凝固點：不適用	揮發速率：不適用
易燃性(固態、氣態）：不適用	分配係數(正辛醇/水）：不適用

十、安定性及反應性

安定性：正常狀況下安定
應避免之狀況：濕氣及腐蝕性物質會氧化本物質
應避免之物質：酸類、A 類及 B 類爆炸物、強性氧化物、腐蝕劑
危害分解物：引燃或熔解可能會產生有產生毒性或刺激性蒸汽

十一、毒性資料

急毒性(Acute Effects)：

鐵(Iron) LD50(測試動物暴露途徑)：30 g/kg(大鼠，吞食)

過度暴露效應(Symptoms of Overexposure)：

鐵(Iron Oxide)：過度暴露或重覆暴露於高濃度狀況下，可能造成塵肺病 pneumoconiosis，吸入氧化鐵可能會刺激眼睛、鼻子及喉嚨。
矽(Silicon)：主要為厭惡性粉塵(Nuisance Dust)，可能會刺激眼睛及黏液薄膜(Mucous Membranes)，本產品型態無此危害。

十二、生態資料

現有資料無影響生態之考量

十三、廢棄處置方法

廢棄處置方法：
1.參考相關法規處理。
2.相關法規可能會限制金屬性廢棄物之處置。
3.建議採取回收金屬性廢棄物。

十四、運送資料

無特殊運送方法

十五、法規資料

適用法規：
職業安全衛生設施規則
危害性化學品標識及通識規則
勞工作業環境空氣中有害物容許濃度標準
事業廢棄物貯存清除處理方法及設施標準

十六、其他資料

參考文獻		
製表者單位	名稱：中國鋼鐵股份有限公司	
	地址/電話：812 高雄市小港區中鋼路 1 號，Tel：(07)8021111	
製 表 人	職稱：工 程 師	姓名（簽章）：胡哲源
製表日期	2022.01.05	
備 註	1. 本安全資料表僅供參考，中國鋼鐵股份有限公司對使用本資料不承擔任何法律責任或提供任何保證。 2. 本安全資料表之提供是基於對本產品的安全及健康危害相關資訊之最佳瞭解，以安全地進行本產品之各項作業及處理。 3. 每位進行本產品之各項作業及處理之人員應先閱讀本安全資料表，瞭解如何進行本產品之各項作業及處理；也應考量本產品與其他製造廠商產品可能之應用。	

吸防護具。 皮膚防護：1.使用皮革或防割傷手套以免被尖銳薄片或捲片割傷。 2.使用防滲透手套以免被皮膚接觸表面油污。 身體防護：1.連身式防護衣。 2.工作鞋。 3. 工作區要有淋浴/沖眼設備。
衛生措施： 1.工作場所嚴禁飲用、抽煙或飲食。 2.處理此物後，須徹底洗手。

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物質狀態：固體	形狀：薄片或捲片
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pH 值：不適用	閃火點：不適用
熔解溫度：1535℃	
自燃溫度：不適用	爆炸界限：不適用
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事業廢棄物貯存清除處理方法及設施標準

安全資料表(SDS)

十六、其他資料

參考文獻		
製表者單位	名稱：中國鋼鐵股份有限公司	
	地址/電話：812 高雄市小港區中鋼路 1 號，Tel：(07)8021111	
製 表 人	職稱：工 程 師	姓名（簽章）：趙彥儒
製表日期	2020.01.13	
備　　註	1. 本安全資料表僅供參考，中國鋼鐵股份有限公司對使用本資料不承擔任何法律責任或提供任何保證。 2. 本安全資料表之提供是基於對本產品的安全及健康危害相關資訊之最佳瞭解，以安全地進行本產品之各項作業及處理。 3. 每位進行本產品之各項作業及處理之人員應先閱讀本安全資料表，瞭解如何進行本產品之各項作業及處理；也應考量本產品與其他製造廠商產品可能之應用。	

簽名有效
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測試報告
Test Report

號碼(No.): ETR23306756　　日期(Date): 06-Apr-2023　　

聖龍金屬表面處理有限公司 (GREAT DRAGON METAL ELECTROPLATING CO., LTD.)
新北市五股區民義路一段240號 (NO. 240, SEC. 1, MINYI RD., WUGU DISTRICT, NEW TAIPEI CITY, TAIWAN)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as)：

送樣廠商(Sample Submitted By)	:	聖龍金屬表面處理有限公司 (GREAT DRAGON METAL ELECTROPLATING CO., LTD.)
樣品名稱(Sample Name)	:	鐵片鍍鎳鉻鍍層

==========

收件日(Sample Receiving Date)	:	27-Mar-2023
測試期間(Testing Period)	:	27-Mar-2023 to 06-Apr-2023

測試需求(Test Requested) :
(1) 依據客戶指定，參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP。 (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)
(2) 其他測試項目請見下一頁。 (Please refer to next pages for the other item(s).)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages.)

結　論(Conclusion) :
(1) 根據客戶所選擇的部位測試，其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP的測試結果符合RoHS 2011/65/EU Annex II暨其修訂指令(EU) 2015/863之限值要求。 (Based on the performed tests on selected part of submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.)

Troy Chang / Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

CHECK REPORT
PIN CODE: D98B7923

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測試報告
Test Report

聖龍金屬表面處理有限公司 (GREAT DRAGON METAL ELECTROPLATING CO., LTD.)
新北市五股區民義路一段240號 (NO. 240, SEC. 1, MINYI RD., WUGU DISTRICT, NEW TAIPEI CITY, TAIWAN)

測試部位敘述 (Test Part Description)

No.1 : 銀色金屬片鍍層 (PLATING LAYER OF SILVER COLORED METAL SHEET)
No.2 : 銀色金屬片 (含鍍層) (SILVER COLORED METAL SHEET (INCLUDING THE PLATING LAYER))

測試結果 (Test Results)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)		限值 (Limit)
				No.1	No.2	
鎘 (Cd) (Cadmium (Cd))	酸洗脫鍍層，參考IEC 62321-5: 2013，以感應耦合電漿發射光譜儀分析。(IEC 62321-5: 2013 application of modified digestion by surface etching, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	---	100
鉛 (Pb) (Lead (Pb))		mg/kg	2	n.d.	---	1000
汞 (Hg) (Mercury (Hg))	酸洗脫鍍層，參考IEC 62321-4: 2013+AMD1: 2017，以感應耦合電漿發射光譜儀分析。(IEC 62321-4: 2013+AMD1: 2017 application of modified digestion by surface etching, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	---	1000
六價鉻 (Hexavalent Chromium) Cr(VI) (#2)	參考IEC 62321-7-1: 2015，以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-1: 2015, analysis was performed by UV-VIS.)	μg/cm²	0.1	n.d.	---	-

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新北市五股區民義路一段240號 (NO. 240, SEC. 1, MINYI RD., WUGU DISTRICT, NEW TAIPEI CITY, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)		限值 (Limit)
				No.1	No.2	
一溴聯苯 (Monobromobiphenyl)	參考IEC 62321-6: 2015，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	mg/kg	5	---	n.d.	-
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	---	n.d.	-
三溴聯苯 (Tribromobiphenyl)		mg/kg	5	---	n.d.	-
四溴聯苯 (Tetrabromobiphenyl)		mg/kg	5	---	n.d.	-
五溴聯苯 (Pentabromobiphenyl)		mg/kg	5	---	n.d.	-
六溴聯苯 (Hexabromobiphenyl)		mg/kg	5	---	n.d.	-
七溴聯苯 (Heptabromobiphenyl)		mg/kg	5	---	n.d.	-
八溴聯苯 (Octabromobiphenyl)		mg/kg	5	---	n.d.	-
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5	---	n.d.	-
十溴聯苯 (Decabromobiphenyl)		mg/kg	5	---	n.d.	-
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	---	n.d.	-
一溴聯苯醚 (Monobromodiphenyl ether)		mg/kg	5	---	n.d.	-
二溴聯苯醚 (Dibromodiphenyl ether)		mg/kg	5	---	n.d.	-
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	---	n.d.	-
四溴聯苯醚 (Tetrabromodiphenyl ether)		mg/kg	5	---	n.d.	-
五溴聯苯醚 (Pentabromodiphenyl ether)		mg/kg	5	---	n.d.	-
六溴聯苯醚 (Hexabromodiphenyl ether)		mg/kg	5	---	n.d.	-
七溴聯苯醚 (Heptabromodiphenyl ether)		mg/kg	5	---	n.d.	-
八溴聯苯醚 (Octabromodiphenyl ether)		mg/kg	5	---	n.d.	-
九溴聯苯醚 (Nonabromodiphenyl ether)		mg/kg	5	---	n.d.	-
十溴聯苯醚 (Decabromodiphenyl ether)		mg/kg	5	---	n.d.	-
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	---	n.d.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)		限值 (Limit)
				No.1	No.2	
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP))	參考IEC 62321-8: 2017，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	---	n.d.	-
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP))		mg/kg	50	---	n.d.	-
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))		mg/kg	50	---	n.d.	-
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP))		mg/kg	50	---	n.d.	-
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8)	參考BS EN 14582: 2016，以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	---	n.d.	-
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1)		mg/kg	50	---	n.d.	-
溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2)		mg/kg	50	---	n.d.	-
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	---	n.d.	-
全氟辛烷磺酸及其鹽類 (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	參考US EPA 3550C: 2007，以液相層析串聯質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by LC/MS/MS.)	μg/m²	0.5	n.d.	---	-
全氟辛酸及其鹽類 (PFOA and its salts) (CAS No.: 335-67-1 and its salts)	參考US EPA 3550C: 2007，以液相層析串聯質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by LC/MS/MS.)	μg/m²	0.5	n.d.	---	-

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聖龍金屬表面處理有限公司 (GREAT DRAGON METAL ELECTROPLATING CO., LTD.)
新北市五股區民義路一段240號 (NO. 240, SEC. 1, MINYI RD., WUGU DISTRICT, NEW TAIPEI CITY, TAIWAN)

備註(Note)：

1. mg/kg = ppm；0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit (方法偵測極限值)
3. n.d. = Not Detected (未檢出)；小於MDL / Less than MDL
4. "-" = Not Regulated (無規格值)
5. "---" = Not Conducted (未測試項目)
6. 全氟辛烷磺酸及其鹽類包含等物質 (PFOS and its salts including)：
   CAS No.: 1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7, 91036-71-4, 4021-47-0 and others.
7. 全氟辛酸及其鹽類包含等物質 (PFOA and its salts including)：
   CAS No.: 335-67-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 3825-26-1 and others.
8. (#2) =
   a. 當六價鉻結果大於0.13 μg/cm²，表示樣品表層含有六價鉻。(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. 當六價鉻結果為n.d. (濃度小於0.10 μg/cm²)，表示表層不含六價鉻。(The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 μg/cm²). The coating is considered a non-Cr(VI) based coating)
   c. 當六價鉻結果介於 0.10 及 0.13 μg/cm² 時，無法確定塗層是否含有六價鉻。(The result between 0.10 μg/cm² and 0.13 μg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.)
9. 除非另有說明，參照ILAC-G8:09/2019，採用簡單二元(w=0)允收規則進行符合性判定；根據此規則，符合性結果之判定係以測試結果與限值做比較。(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. According to this rule, the judgement of conformity is based on the comparing test results with limits.)

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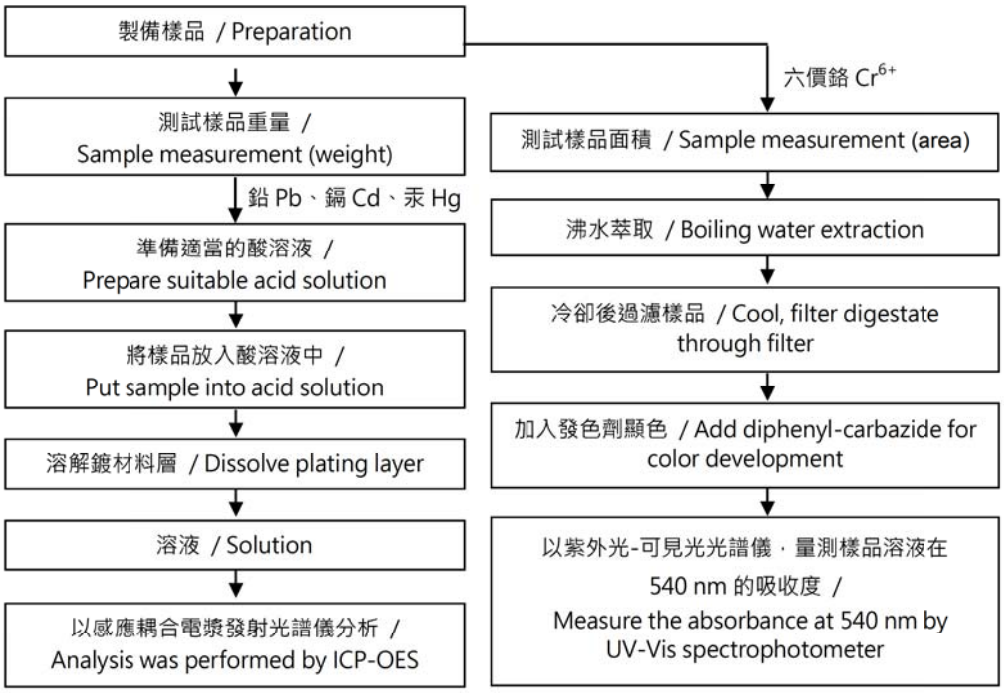
新北市五股區民義路一段240號 (NO. 240, SEC. 1, MINYI RD., WUGU DISTRICT, NEW TAIPEI CITY, TAIWAN)

鍍層重金屬測試流程圖 / Flow chart of stripping method for metal analysis

根據以下的流程圖之條件，樣品之外部鍍層已完全溶解。(六價鉻測試方法除外) / The plating layer of samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)



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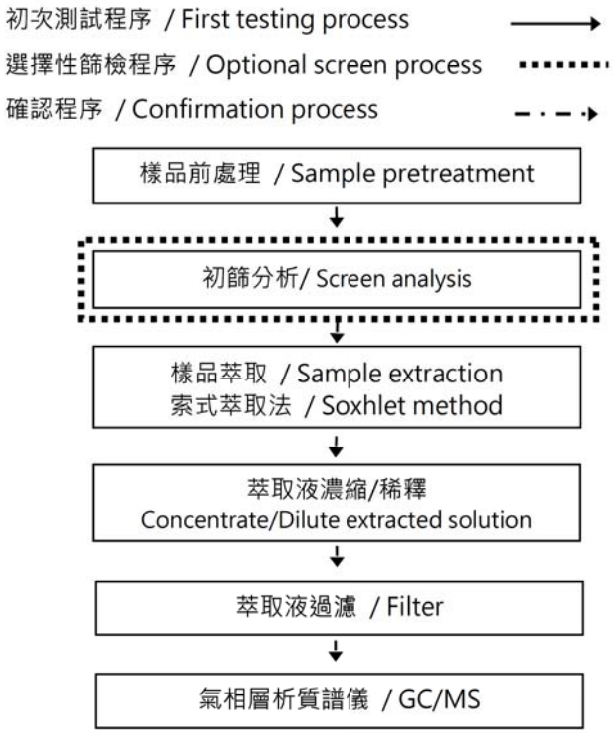
多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



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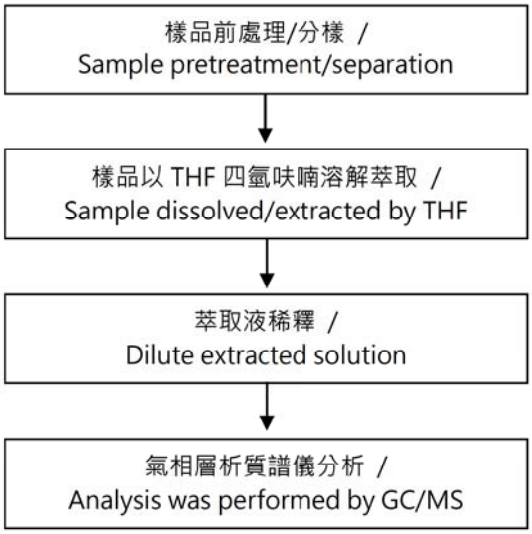
可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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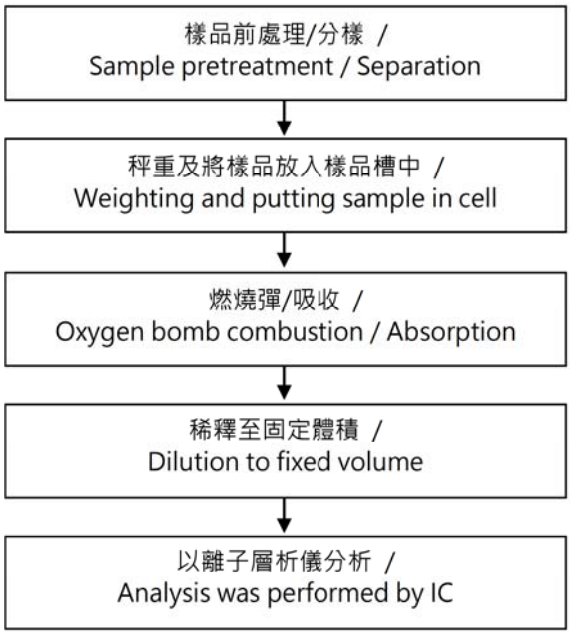
鹵素分析流程圖 / Analytical flow chart - Halogen



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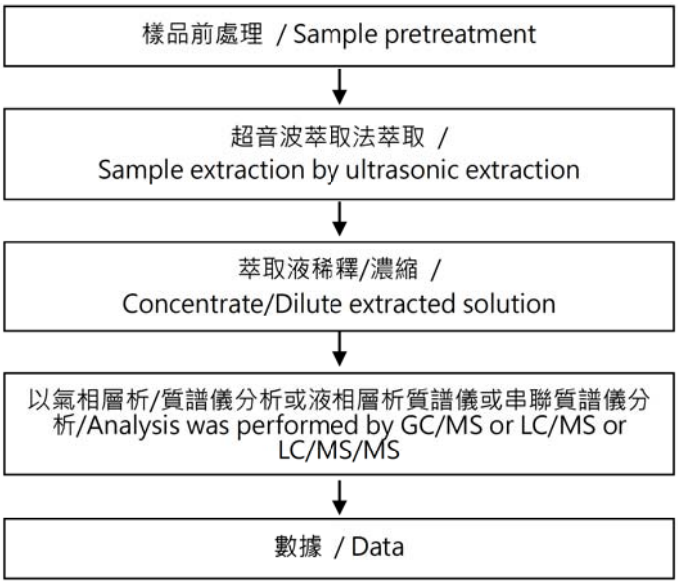
新北市五股區民義路一段240號 (NO. 240, SEC. 1, MINYI RD., WUGU DISTRICT, NEW TAIPEI CITY, TAIWAN)

全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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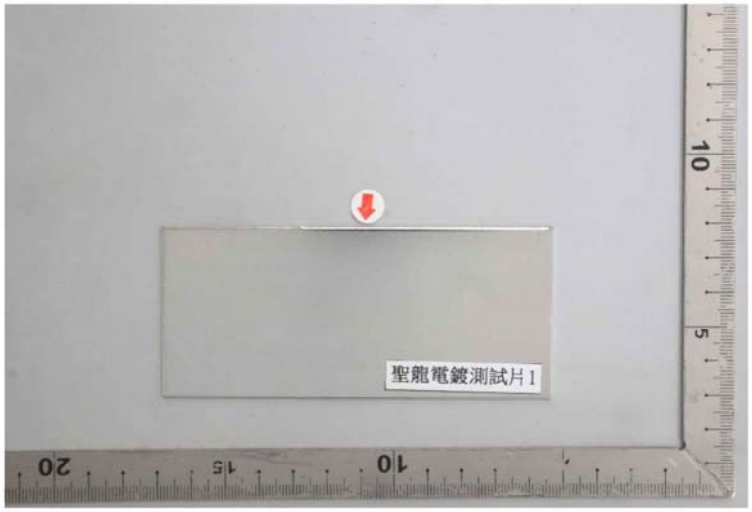
測試報告
Test Report

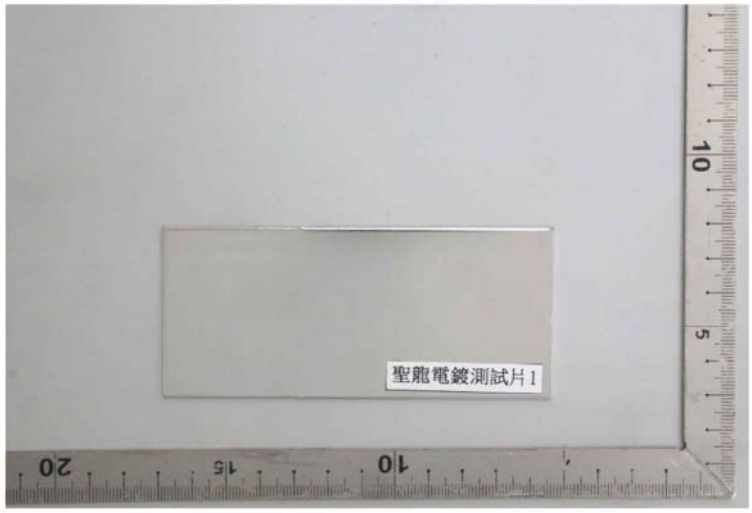
聖龍金屬表面處理有限公司 (GREAT DRAGON METAL ELECTROPLATING CO., LTD.)
新北市五股區民義路一段240號 (NO. 240, SEC. 1, MINYI RD., WUGU DISTRICT, NEW TAIPEI CITY, TAIWAN)

* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位. *
(The tested sample / part is marked by an arrow if it's shown on the photo.)

ETR23306756 NO.1



ETR23306756 NO.2



** 報告結尾 (End of Report) **

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