



PANTHER T & H INDUSTRY CO., LTD.

FLOOR 11-4, No. 186, SEC. 2, DONG SHIN ROAD,
TAICHUNG, TAIWAN, R.O.C.

E-mail : frances@ms8.hinet.net & pantheo@ms43.hinet.net

TEL: 886-4-24731513
24732092

FAX: 886-4-24726831
24736832
24711092

2024/04/01

MILL TEST CERTIFICATE

CUSTOMER :	HUSASMIDJAN LTD		
DESCRIPTION :	A4 (316) STAINLESS STEEL TORX OVAL HEAD CHIPBOARD SCREW, PARTIAL THREADED PASSIVATED		
ORDER NO :	IP476226-2		
PI NO. :	PO-202311192		
INVOICE NO. :	IN-202404041		
HEAT NO. :	6U254		
PART NO. :	5611245		
DIMENSION :	4 x 40/24 T20		
INSPECTION ITEM	STANDARD	ACTUAL	REMARK
Head Diameter	7.64 - 8.00	7.67 - 7.83	
Recess Penetration Gaging Depth	1.60 - 1.90	1.64 - 1.81	
Major Diameter	3.70 - 4.00	3.82 - 3.93	
Length	38.75 - 40.00	39.17 - 39.58	
Thread Length	24.00	23.73 - 24.24	
Torsional Strength(kg-cm)	20 kg-cm MIN	23.75 - 24.26	
Appearance	Passivated	ACCEPT	
JUDGE	ACCEPT		
Q. C. CHIEF	TED YANG	INSPECTOR	JANEHUANG

PANTHER T&H INDUSTRY CO., LTD.

Ted Yang



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MILL TEST CERTIFICATE

CUSTOMER :	HUSASMIDJAN LTD		
DESCRIPTION :	A4 (316) STAINLESS STEEL TORX DOUBLE FLAT HEAD CHIPBOARD SCREW, PARTIAL THREADED WITH 4 NIBS UNDER HEAD PASSIVATED		
ORDER NO :	IP476226-2		
PI NO. :	PO-202311192		
INVOICE NO. :	IN-202404041		
HEAT NO. :	6U254		
PART NO. :	5611310		
DIMENSION :	4 x 40/24 T20		
INSPECTION ITEM	STANDARD	ACTUAL	REMARK
Head Diameter	7.64 - 8.00	7.68 - 7.84	
Recess Penetration Gaging Depth	1.60 - 1.90	1.69 - 1.77	
Major Diameter	3.70 - 4.00	3.81 - 3.89	
Length	38.75 - 40.00	39.33 - 39.68	
Thread Length	24.00	23.42 - 24.27	
Torsional Strength(kg-cm)	20 kg-cm MIN	24.26 - 24.67	
Appearance	Passivated	ACCEPT	
JUDGE	ACCEPT		
Q. C. CHIEF	TED YANG	INSPECTOR	JANEHUANG

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ORDER NO :	IP476226-2		
PI NO. :	PO-202311192		
INVOICE NO. :	IN-202404041		
HEAT NO. :	6U254		
PART NO. :	5611311		
DIMENSION :	4 x 45/27 T20		
INSPECTION ITEM	STANDARD	ACTUAL	REMARK
Head Diameter	7.64 - 8.00	7.74 - 7.89	
Recess Penetration Gaging Depth	1.60 - 1.90	1.63 - 1.71	
Major Diameter	3.70 - 4.00	3.81 - 3.96	
Length	43.75 - 45.00	43.91 - 44.51	
Thread Length	27.00	26.42 - 27.09	
Torsional Strength(kg-cm)	20 kg-cm MIN	24.37 - 25.08	
Appearance	Passivated	ACCEPT	
JUDGE	ACCEPT		
Q. C. CHIEF	TED YANG	INSPECTOR	JANEHUANG

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ORDER NO :	IP476226-2		
PI NO. :	PO-202311192		
INVOICE NO. :	IN-202404041		
HEAT NO. :	6U254		
PART NO. :	5611312		
DIMENSION :	4 x 50/30 T20		
INSPECTION ITEM	STANDARD	ACTUAL	REMARK
Head Diameter	7.64 - 8.00	7.68 - 7.73	
Recess Penetration Gaging Depth	1.60 - 1.90	1.73 - 1.79	
Major Diameter	3.70 - 4.00	3.83 - 3.88	
Length	48.75 - 50.00	49.17 - 49.82	
Thread Length	30.00	29.21 - 29.68	
Torsional Strength(kg-cm)	20 kg-cm MIN	24.67 - 25.28	
Appearance	Passivated	ACCEPT	
JUDGE	ACCEPT		
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ORDER NO :	IP476226-2		
PI NO. :	PO-202311192		
INVOICE NO. :	IN-202404041		
HEAT NO. :	6U254		
PART NO. :	5611313		
DIMENSION :	4 x 60/36 T20		
INSPECTION ITEM	STANDARD	ACTUAL	REMARK
Head Diameter	7.64 - 8.00	7.71 - 7.85	
Recess Penetration Gaging Depth	1.60 - 1.90	1.64 - 1.83	
Major Diameter	3.70 - 4.00	3.88 - 3.97	
Length	58.50 - 60.00	59.09 - 59.71	
Thread Length	36.00	35.28 - 36.33	
Torsional Strength(kg-cm)	20 kg-cm MIN	24.37 - 24.98	
Appearance	Passivated	ACCEPT	
JUDGE	ACCEPT		
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ORDER NO :	IP476226-2		
PI NO. :	PO-202311192		
INVOICE NO. :	IN-202404041		
HEAT NO. :	6U254		
PART NO. :	5611317		
DIMENSION :	4.5 x 45/27 T20		
INSPECTION ITEM	STANDARD	ACTUAL	REMARK
Head Diameter	8.64 - 9.00	8.69 - 8.82	
Recess Penetration Gaging Depth	1.60 - 1.90	1.67 - 1.79	
Major Diameter	4.20 - 4.50	4.26 - 4.36	
Length	43.75 - 45.00	43.79 - 44.28	
Thread Length	27.00	27.12 - 27.49	
Torsional Strength(kg-cm)	26 kg-cm MIN	30.79 - 31.50	
Appearance	Passivated	ACCEPT	
JUDGE	ACCEPT		
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ORDER NO :	IP476226-2		
PI NO. :	PO-202311192		
INVOICE NO. :	IN-202404041		
HEAT NO. :	6U254		
PART NO. :	5611318		
DIMENSION :	4.5 x 50/30 T20		
INSPECTION ITEM	STANDARD	ACTUAL	REMARK
Head Diameter	8.64 - 9.00	8.73 - 8.91	
Recess Penetration Gaging Depth	1.60 - 1.90	1.71 - 1.84	
Major Diameter	4.20 - 4.50	4.33 - 4.41	
Length	48.75 - 50.00	49.18 - 49.69	
Thread Length	27.00	29.26 - 30.37	
Torsional Strength(kg-cm)	26 kg-cm MIN	30.59 - 31.40	
Appearance	Passivated	ACCEPT	
JUDGE	ACCEPT		
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ORDER NO :	IP476226-2		
PI NO. :	PO-202311192		
INVOICE NO. :	IN-202404041		
HEAT NO. :	6U254		
PART NO. :	5611319		
DIMENSION :	4.5 x 60/36 T20		
INSPECTION ITEM	STANDARD	ACTUAL	REMARK
Head Diameter	8.64 - 9.00	8.72 - 8.84	
Recess Penetration Gaging Depth	1.60 - 1.90	1.73 - 1.80	
Major Diameter	4.20 - 4.50	4.29 - 4.35	
Length	58.50 - 60.00	58.75 - 59.31	
Thread Length	36.00	36.07 - 36.83	
Torsional Strength(kg-cm)	26 kg-cm MIN	30.79 - 31.40	
Appearance	Passivated	ACCEPT	
JUDGE	ACCEPT		
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ORDER NO :	IP476226-2		
PI NO. :	PO-202311192		
INVOICE NO. :	IN-202404041		
HEAT NO. :	6U254		
PART NO. :	5611320		
DIMENSION :	5 x 30/18 T25		
INSPECTION ITEM	STANDARD	ACTUAL	REMARK
Head Diameter	9.64 - 10.00	9.67 - 9.79	
Recess Penetration Gaging Depth	1.90 - 2.20	2.02 - 2.16	
Major Diameter	4.70 - 5.00	4.75 - 4.84	
Length	28.95 - 30.00	29.19 - 29.78	
Thread Length	18.00	17.46 - 18.17	
Torsional Strength(kg-cm)	33 kg-cm MIN	43.43 - 43.84	
Appearance	Passivated	ACCEPT	
JUDGE	ACCEPT		
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ORDER NO :	IP476226-2		
PI NO. :	PO-202311192		
INVOICE NO. :	IN-202404041		
HEAT NO. :	6U254		
PART NO. :	5611322		
DIMENSION :	5 x 40/24 T25		
INSPECTION ITEM	STANDARD	ACTUAL	REMARK
Head Diameter	9.64 - 10.00	9.69 - 9.78	
Recess Penetration Gaging Depth	1.90 - 2.20	1.96 - 2.11	
Major Diameter	4.70 - 5.00	4.73 - 4.79	
Length	38.75 - 40.00	38.81 - 39.48	
Thread Length	24.00	23.39 - 24.23	
Torsional Strength(kg-cm)	33 kg-cm MIN	43.64 - 44.45	
Appearance	Passivated	ACCEPT	
JUDGE	ACCEPT		
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ORDER NO :	IP476226-2		
PI NO. :	PO-202311192		
INVOICE NO. :	IN-202404041		
HEAT NO. :	6U255		
PART NO. :	5611324		
DIMENSION :	5 x 50/30 T25		
INSPECTION ITEM	STANDARD	ACTUAL	REMARK
Head Diameter	9.64 - 10.00	9.69 - 9.82	
Recess Penetration Gaging Depth	1.90 - 2.20	1.97 - 2.03	
Major Diameter	4.70 - 5.00	4.76 - 4.87	
Length	48.75 - 50.00	49.07 - 49.63	
Thread Length	30.00	29.74 - 30.32	
Torsional Strength(kg-cm)	33 kg-cm MIN	43.84 - 44.35	
Appearance	Passivated	ACCEPT	
JUDGE	ACCEPT		
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ORDER NO :	IP476226-2		
PI NO. :	PO-202311192		
INVOICE NO. :	IN-202404041		
HEAT NO. :	6U255		
PART NO. :	5611325		
DIMENSION :	5 x 60/36 T25		
INSPECTION ITEM	STANDARD	ACTUAL	REMARK
Head Diameter	9.64 - 10.00	9.67 - 9.79	
Recess Penetration Gaging Depth	1.90 - 2.20	1.95 - 2.12	
Major Diameter	4.70 - 5.00	4.76 - 4.89	
Length	58.50 - 60.00	59.19 - 59.68	
Thread Length	36.00	35.26 - 36.22	
Torsional Strength(kg-cm)	33 kg-cm MIN	43.54 - 44.05	
Appearance	Passivated	ACCEPT	
JUDGE	ACCEPT		
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ORDER NO :	IP476226-2		
PI NO. :	PO-202311192		
INVOICE NO. :	IN-202404041		
HEAT NO. :	6U255		
PART NO. :	5611326		
DIMENSION :	5 x 70/42 T25		
INSPECTION ITEM	STANDARD	ACTUAL	REMARK
Head Diameter	9.64 - 10.00	9.69 - 9.76	
Recess Penetration Gaging Depth	1.90 - 2.20	1.99 - 2.13	
Major Diameter	4.70 - 5.00	4.74 - 4.81	
Length	68.50 - 70.00	68.79 - 69.48	
Thread Length	42.00	41.37 - 43.97	
Torsional Strength(kg-cm)	33 kg-cm MIN	43.64 - 44.15	
Appearance	Passivated	ACCEPT	
JUDGE	ACCEPT		
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ORDER NO :	IP476226-2		
PI NO. :	PO-202311192		
INVOICE NO. :	IN-202404041		
HEAT NO. :	6U255		
PART NO. :	5611327		
DIMENSION :	5 x 80/48 T25		
INSPECTION ITEM	STANDARD	ACTUAL	REMARK
Head Diameter	9.64 - 10.00	9.73 - 9.89	
Recess Penetration Gaging Depth	1.90 - 2.20	1.98 - 2.07	
Major Diameter	4.70 - 5.00	4.78 - 4.91	
Length	78.50 - 80.00	79.07 - 79.63	
Thread Length	48.00	47.31 - 47.92	
Torsional Strength(kg-cm)	33 kg-cm MIN	43.94 - 44.56	
Appearance	Passivated	ACCEPT	
JUDGE	ACCEPT		
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ORDER NO :	IP476226-2		
PI NO. :	PO-202311192		
INVOICE NO. :	IN-202404041		
HEAT NO. :	6U255		
PART NO. :	5611331		
DIMENSION :	6 x 80/48 T25		
INSPECTION ITEM	STANDARD	ACTUAL	REMARK
Head Diameter	11.60 - 12.00	11.68 - 11.77	
Recess Penetration Gaging Depth	2.10 - 2.50	2.19 - 2.31	
Major Diameter	5.70 - 6.00	5.72 - 5.84	
Length	78.50 - 80.00	79.19 - 79.68	
Thread Length	48.00	47.26 - 47.83	
Torsional Strength(kg-cm)	60 kg-cm MIN	74.46 - 75.15	
Appearance	Passivated	ACCEPT	
JUDGE	ACCEPT		
Q. C. CHIEF	TED YANG	INSPECTOR	JANEHUANG

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ORDER NO :	IP476226-2		
PI NO. :	PO-202311192		
INVOICE NO. :	IN-202404041		
HEAT NO. :	6U255		
PART NO. :	5611333		
DIMENSION :	6 x 100/60 T25		
INSPECTION ITEM	STANDARD	ACTUAL	REMARK
Head Diameter	11.60 - 12.00	11.62 - 11.78	
Recess Penetration Gaging Depth	2.10 - 2.50	2.21 - 2.37	
Major Diameter	5.70 - 6.00	5.73 - 5.78	
Length	98.25 - 100.00	98.36 - 98.69	
Thread Length	60.00	59.55 - 60.24	
Torsional Strength(kg-cm)	60 kg-cm MIN	74.13 - 74.74	
Appearance	Passivated	ACCEPT	
JUDGE	ACCEPT		
Q. C. CHIEF	TED YANG	INSPECTOR	JANEHUANG

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Ted Yang



PANTHER T & H INDUSTRY CO., LTD.

FLOOR 11-4, No. 186, SEC. 2, DONG SHIN ROAD,
TAICHUNG, TAIWAN, R.O.C.

E-mail : frances@ms8.hinet.net & pantheo@ms43.hinet.net

TEL: 886-4-24731513
24732092

FAX: 886-4-24726831
24736832
24711092

2024/04/01

MILL TEST CERTIFICATE

CUSTOMER :	HUSASMIDJAN LTD		
DESCRIPTION :	A4 (316) STAINLESS STEEL TORX DOUBLE FLAT HEAD CHIPBOARD SCREW, PARTIAL THREADED WITH 4 NIBS UNDER HEAD PASSIVATED		
ORDER NO :	IP476226-2		
PI NO. :	PO-202311192		
INVOICE NO. :	IN-202404041		
HEAT NO. :	6U255		
PART NO. :	5611334		
DIMENSION :	6 x 120/70 T25		
INSPECTION ITEM	STANDARD	ACTUAL	REMARK
Head Diameter	11.60 - 12.00	11.64 - 11.86	
Recess Penetration Gaging Depth	2.10 - 2.50	2.27 - 2.38	
Major Diameter	5.70 - 6.00	5.74 - 5.79	
Length	118.25 - 120.00	118.39 - 119.15	
Thread Length	70.00	69.37 - 69.79	
Torsional Strength(kg-cm)	60 kg-cm MIN	74.43 - 75.05	
Appearance	Passivated	ACCEPT	
JUDGE	ACCEPT		
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CUSTOMER :	HUSASMIDJAN LTD		
DESCRIPTION :	A4 (316) STAINLESS STEEL TORX DOUBLE FLAT HEAD CHIPBOARD SCREW, PARTIAL THREADED WITH 4 NIBS UNDER HEAD PASSIVATED		
ORDER NO :	IP476226-2		
PI NO. :	PO-202311192		
INVOICE NO. :	IN-202404041		
HEAT NO. :	6U255		
PART NO. :	5611340		
DIMENSION :	5 x 90/54 T25		
INSPECTION ITEM	STANDARD	ACTUAL	REMARK
Head Diameter	9.64 - 10.00	9.73 - 9.89	
Recess Penetration Gaging Depth	1.90 - 2.20	1.99 - 2.12	
Major Diameter	4.70 - 5.00	4.76 - 4.91	
Length	88.25 - 90.00	89.09 - 89.72	
Thread Length	54.00	53.31 - 53.92	
Torsional Strength(kg-cm)	33 kg-cm MIN	43.64 - 44.35	
Appearance	Passivated	ACCEPT	
JUDGE	ACCEPT		
Q. C. CHIEF	TED YANG	INSPECTOR	JANEHUANG

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MILL TEST CERTIFICATE

CUSTOMER :	HUSASMIDJAN LTD		
DESCRIPTION :	A4 (316) STAINLESS STEEL TORX DOUBLE FLAT HEAD CHIPBOARD SCREW, PARTIAL THREADED WITH 4 NIBS UNDER HEAD PASSIVATED		
ORDER NO :	IP476226-2		
PI NO. :	PO-202311192		
INVOICE NO. :	IN-202404041		
HEAT NO. :	6U255		
PART NO. :	5611341		
DIMENSION :	5 x 100/60 T25		
INSPECTION ITEM	STANDARD	ACTUAL	REMARK
Head Diameter	9.64 - 10.00	9.80 - 9.97	
Recess Penetration Gaging Depth	1.90 - 2.20	2.03 - 2.15	
Major Diameter	4.70 - 5.00	4.79 - 4.93	
Length	98.25 - 100.00	98.41 - 99.57	
Thread Length	60.00	59.72 - 60.24	
Torsional Strength(kg-cm)	33 kg-cm MIN	43.64 - 44.35	
Appearance	Passivated	ACCEPT	
JUDGE	ACCEPT		
Q. C. CHIEF	TED YANG	INSPECTOR	JANEHUANG

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MILL TEST CERTIFICATE

CUSTOMER :	HUSASMIDJAN LTD		
DESCRIPTION :	A4 (316) STAINLESS STEEL TORX DOUBLE FLAT HEAD CHIPBOARD SCREW, PARTIAL THREADED WITH 4 NIBS UNDER HEAD PASSIVATED		
ORDER NO :	IP476226-2		
PI NO. :	PO-202311192		
INVOICE NO. :	IN-202404041		
HEAT NO. :	6U255		
PART NO. :	5611345		
DIMENSION :	4.5 x 70/42 T20		
INSPECTION ITEM	STANDARD	ACTUAL	REMARK
Head Diameter	8.64 - 9.00	8.68 - 8.79	
Recess Penetration Gaging Depth	1.60 - 1.90	1.69 - 1.76	
Major Diameter	4.20 - 4.50	4.41 - 4.47	
Length	68.50 - 70.00	68.66 - 69.28	
Thread Length	42.00	41.43 - 42.87	
Torsional Strength(kg-cm)	26 kg-cm MIN	30.59 - 31.20	
Appearance	Passivated	ACCEPT	
JUDGE	ACCEPT		
Q. C. CHIEF	TED YANG	INSPECTOR	JANEHUANG

PANTHER T&H INDUSTRY CO., LTD.

Ted Yang



INSPECTION CERTIFICATE

WALSH LHWVA CORP.
 總公司：11047 臺北市松山區松智路152號
 HEAD OFFICE：25F., No.1, Songzhi Rd., Xinyi Dist., Taipei City 11047, Taiwan (R.O.C.)
 製造地：73743 臺南市鹽水區井水里溪州路3-10號
 YENSHUI PLANT：NO.3-10, SHI JIU LIAU, CHIN SEHEI LI, YENSHUI DIST.,
 TAINAN CITY, 73743, TAIWAN, R.O.C.
 TEL：886-65320911 FAX：886-6533076

CUSTOMER : CO-WIN FASTENERS INDUSTRIAL VIETNAM JOINT STOCK CO.
 ORDER NO.: 11109A026/
 COMMODITY: Stainless Steel Wire Rod
 STEEL GRADE: SUS 316Cu
 CERTIFICATE NO: A2303080127
 DOC No.:
 SUPPLY CONDITION: HRP
 DATE OF ISSUE: 2023/03/08

Heat No	Thick (mm)	Qty	Wt (kg)	Chemical Composition(wt%)											Mechanical Property		
				C x1000	Si x100	Mn x100	P x1000	S x1000	Ni x100	Cr x100	Mo x100	Cu x100	TSS	N/mm ²			
Spec	Min			40	100	200	45	15	1000	1650	200	300					
	Max																
6U254	5.50	101	15324	21	31	74	29	0.1	1051	1663	203	308					501
6U255	5.50	14	21476	23	30	77	29	0.2	1065	1663	200	311					502
Total:			24	36800													

ORIGINAL

This inspection certificate is issued according to EN 10204 2:2

Remark: Micro structure:good.
 Microstructure free from continuous grain boundary carbide precipitation as per ASTM A262 practice A.

- We hereby certify that material described herein has been manufactured and tested with satisfactory results in accordance with requirement of the above material specification.
- We certify that the material is free from mercury and radiation contamination. Qualification No. of Taiwan Atomic Energy Committee:136
- The Above Testing Results Relate Only To The Items Tested.
- No welding repaired

SUPPLY CONDITION:

- A:Annealed
- B:Shot Blasted
- C:As Casted
- E:Reeled/Skin Pass
- H:Precipitation Hardening
- HR:Hot Rolled
- I:Straightened
- K:Cut Edge
- L:Polished
- M:Cold Rolled
- P:Pickled
- S:Shaved
- V:Still
- W:Cut
- X:Temper
- CD:Cold Draw
- CG:Centerless Ground
- PL:Turned or Peeled

We have the following certifications

- 1.IATF 16949:2016 & ISO9001:2015 Quality Management System
- 2.ISO/IEC 17025:2017 Laboratory Management System
- 3.PED & AD2000-Merkblatt W0/W2/W10
- 4.DNV - LR - ABS Classification Society certification
- 5.ISO14001:2015 Environment Management System
- 6.ISO45001:2018 & TOSHMS Certificate
- 7.EN 10088-5:2009 CPR certification

TEST METHOD :
 CHEMICAL-ASTM E1806, E1086, E1019

Quality Assurance Responsible Personnel