



210002349425



(2020)国认监认字(134)号



中国认可
国际互认
检测
TESTING
CNAS L0454

Report No. T14-B370-21-326

Special Equipment Type Test Report (Lift)

Category of equipment: Lift major component

Type of equipment: Lift machine

Name of product: Lift traction machine

Model of product: HYW400L

Applicant: Yan Cheng Heyang Drive Technology Co., Ltd.

Manufacturer: Yan Cheng Heyang Drive Technology Co., Ltd.

Category of type test: First test

Test date: 2021-12-13

NETEC Inspection and Testing (Beijing) Co., Ltd.
National Elevator Inspection and Testing Center

NOTICE

1. Type test report is based on the *TSG T7007—2016 Regulation for type tests of lifts*.
2. *NETEC Inspection and Testing (Beijing) Co., Ltd.* is the impersonal entity of *National Elevator Inspection and Testing Center*, the abbreviation and logo of *NETEC Inspection and Testing (Beijing) Co., Ltd. (National Elevator Inspection and Testing Center)* both are NETEC.
3. Type test report is invalid without signatures of test, verification, approval, without approval certificate of type test institute number or issue date, without stamping the Test Report Specialized Stamp or paging seal.
4. Each type test certificate (hereinafter referred to as the certificate) issued by NETEC is corresponding to at least one type test report with the test conclusion is certificated.
5. Certificate is invalid without stamping the *Test Report Specialized Stamp* or issue date.
6. All contents of the test report and certificate issued by NETEC shall be printed out by computer except for the signature of the person in charge. Handwriting or any alteration is invalid, and any partial copy is also invalid.
7. Type test report is only valid for the sample. Applicant is responsible for the authenticity of the information and technical documents of the sample.
8. Different opinions about type test conclusion should be reported to NETEC in writing within 15 workdays since receiving of type test report or certificate.
9. Paper version of the test report and certificate issued by NETEC in triplicate, NETEC files one, applicant keeps the other two.
10. Type test report and certificate should be subject to the Chinese version, while the English version is for reference only.

NETEC Contact

Add: 61 Jinguang Ave., Guangyang District, Langfang, Hebei 065000, P.R.China

Tel: +86 316 2311414, +86 316 2632627 Fax: +86 316 2057334

Email: netec@chinaelevator.org

[Http://www.netec-china.com](http://www.netec-china.com)

Contents

Lift type test report	Page 1
1 Technical parameters and configuration of the sample.....	Page 2
2 Check the technical documents	Page 4
3 Check and test the sample	Page 4
4 Sample photo	Page 6
5 Change information of type test report	Page 6



Category of equipment	Lift major component		
Type of equipment	Lift machine		
Name of product	Lift traction machine	Model of product	HYW400L
Product number	2004550	Manufacturing date	2021-11-07
Unified social credit code of applicant		91320902MA1Y1MQY9L	
Applicant	Yan Cheng Heyang Drive Technology Co., Ltd.		
Registered address of applicant	Building 3 (28), No. 8, Environmental Protection Avenue, Environmental Protection Industrial Park, Yancheng, Jiangsu		
Manufacturer	Yan Cheng Heyang Drive Technology Co., Ltd.		
Registered address of manufacturer	Building 3 (28), No. 8, Environmental Protection Avenue, Environmental Protection Industrial Park, Yancheng, Jiangsu		
Manufacturing address	No. 8 Environmental Protection Avenue, Environmental Protection Industrial Park, Tinghu District, Yancheng, Jiangsu		
Test place	NETEC		
Receiving date	2021-11-29	Sample No.	Y2021-1116
Sample state	No abnormal	Category of type test	First test
Test date	2021-12-13		
Test condition	Ambient temperature: 19.3℃~20.1℃, relative humidity: 20%~30%, supply voltage: AC 389V		
Test basis	TSG T7007—2016 Regulation for type tests of lifts GB 7588—2003+XG1—2015 EN 81-20:2014, EN 81-50:2014		
Test conclusion	The type test is certificated.		
Note	Issue date of the Chinese version: 2021-12-28		
Reported by:	杨国栋	Approval certificate of type test institute No. TS7610014—2025 Issue date of the English version:2022-06-23	
Verified by:	苏建		
Issued by:	李利		

1 Technical parameters and configuration of the sample

Name of product		Lift traction machine
Model of product		HYW400L
Rated speed		5.00m/s
Rated output torque		1110N·m
Allowed radial load of traction sheave shaft		6000kg
Applicable environment		Indoor
Structure type of traction machine		Horizontal type, no reduction gear, the output shaft is supported in two points, cantilever type
Centerline height of output shaft (without gear reducer)		285mm
Manual emergency operating device		Brake release wrench + hand winding wheel
Explosion protection grade		/
Explosion protection type		/
Motor	Model	HYW400L
	Structure type	Three phase AC permanent magnet synchronous inner rotor
	Rated power	27.8kW
	Rated rotate speed	239r/min
	Rated voltage	AC380V
	Rated current	61A
	Rated frequency	63.7Hz
	Insulation grade	F
	Duty	S5-40%
	Protection degree	IP41
	Mode of overload protection	Over-heat protection
	Starts per day	240 F/h
	Manufacturer	Yan Cheng Heyang Drive Technology Co., Ltd.
	Explosion proof sign	/

1 Technical parameters and configuration of the sample (continued)

Gear reducer	Structure type	/
	Reduction gear ratio	/
	Reduction step	/
	Center distance	/
	Shaft angle	/
	Lubricating oil	/
	Transmission interface material mark	/
Traction sheave	Number of grooves	8
	Type of grooves	Semicircular groove with cut
	Diameter of ropes	10 mm
	Heat treatment	/
	Pitch diameter of traction sheave	400 mm
	Mode of wrapping	Single-wrap
Brake	Model	HEB-K1
	Action position	Traction sheave
	Structure type	2 sets, drum type without brake arm
	Insulation grade	F
	Rated voltage	DC 110V
	Diameter of brake disc	525mm
	Explosion protection marking	/
	Model of monitor switch	SS-5
Applicable driving system	Speed control mode	AC variable frequency control
	Speed-controller	Frequency inverter
	Feedback device of speed	Rotary encoder

2 Check the technical documents

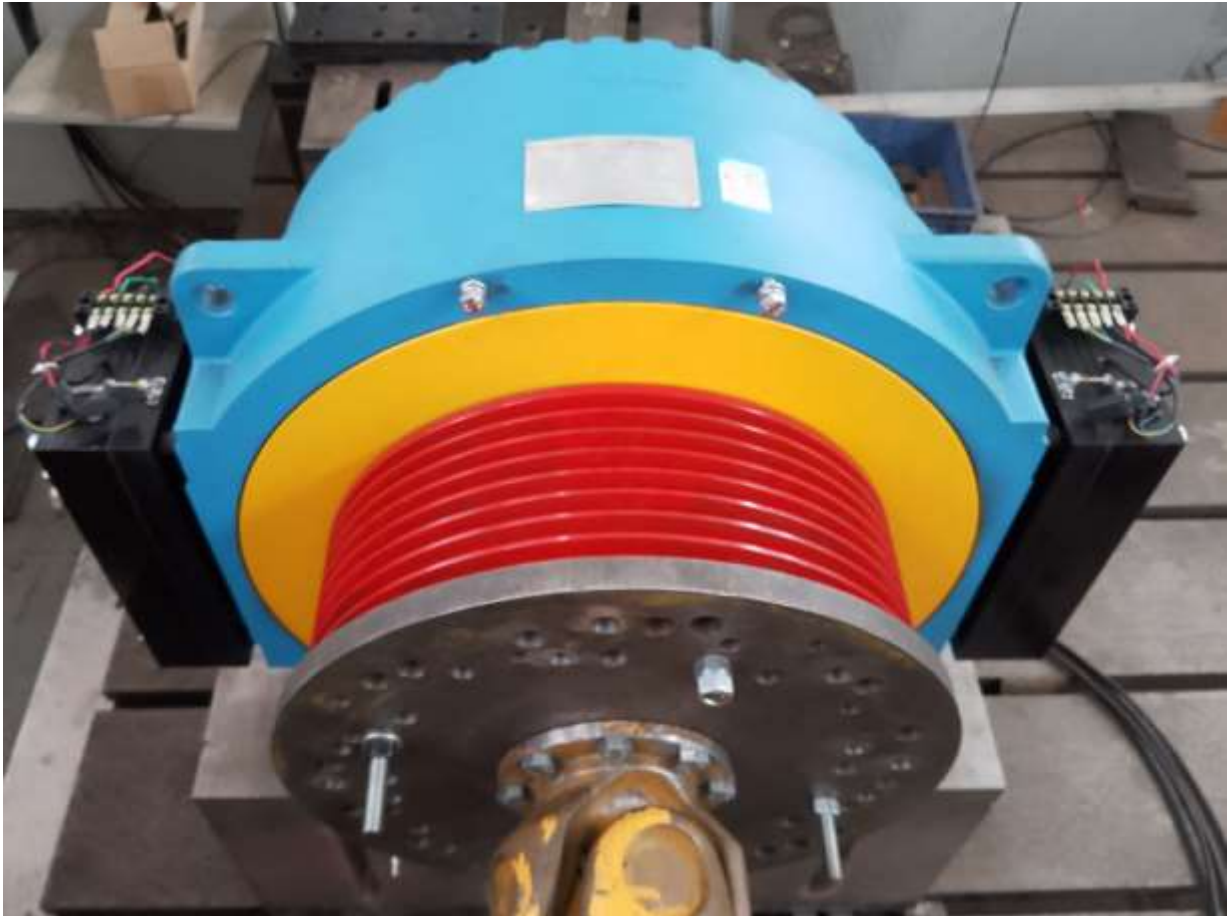
No.	Items No.	Check items	Check results	Conclusion
1	Y5.1	Conformity certificate document and relative technical documents	Comply with requirements	Pass
2	Y5.2	Calculation files	Comply with requirements	Pass
3	Y5.3	Main design drawings	Comply with requirements	Pass

3 Check and test the sample

No.	Items No.	Check and test items	Check and test results	Conclusion
1	Y6.1.1	Insulation resistance of stator winding	Comply with requirements	Pass
2	Y6.1.2	Withstand voltage test	Comply with requirements	Pass
3	Y6.2.1	Mode of the braking system	Comply with requirements	Pass
4	Y6.2.2	The braking system installed in two sets	Comply with requirements	Pass
5	Y6.2.3	Braking pressure of the braking system	Comply with requirements	Pass
6	Y6.2.4	Braking torque	Comply with requirements	Pass
7	Y6.2.5	Starting and releasing voltage of electromagnet brake	Rated voltage: DC 110 V Activating voltage: DC 66.6 V, 60.5%U _{-rated} Comply with requirements	Pass
			Maximum release voltage: DC 22.3 V, 20.3%U _{-rated} Comply with requirements	
			Minimum release voltage: DC 20.6 V, 18.7%U _{-rated} Comply with requirements	
8	Y6.2.6	Delay-time of activating of the brake	Comply with requirements	Pass
9	Y6.2.7	Withstand voltage test of brake coil	Comply with requirements	Pass
10	Y6.2.8	Requirements for the belt transmission	/	/
11	Y6.2.9	Reliability test	Comply with requirements	Pass

No.	Items No.	Check and test items	Check and test results	Conclusion
12	Y6.2.10	Brake noise	Noise dB(A): Front: 60.6 Back: 58.7 Left: 58.6 Right: 59.2 Upside: 59.3 Background: 40.1 Comply with requirements	Pass
13	Y6.3.1	Working surface run-out in normal direction of the surface	Comply with requirements	Pass
14	Y6.3.2	Working surface run-out in radial direction of the pitch-circle	Comply with requirements	Pass
15	Y6.3.3	Hardness of the groove	Hardness HB: 1) 249 2) 256 3) 255 4) 257 Deviation: 10 Comply with requirements	Pass
16	Y6.4	Gear reducer	/	/
17	Y6.5.1	Temperature rise	Motor stator winding temperature rise: 75.1 K Brake coil temperature rise: 56.6 K Comply with requirements	Pass
18	Y6.5.2	Running noise of the lift machine	Noise dB(A): Front: 58.7 Back: 58.9 Left: 59.6 Right: 59.8 Upside: 57.3 Background: 40.1 Comply with requirements	Pass
19	Y6.5.3	Torque vibration of the lift machine	Comply with requirements	Pass
20	Y6.5.4	Speed	Rated speed: 5.00 m/s Running speed: 5.022 m/s 100.4% V_{rated} Comply with requirements	Pass
21	Y6.5.5	Appearance	Comply with requirements	Pass
22	Y6.5.6	Nameplate of the lift machine	Comply with requirements	Pass

4 Sample photo



5 Change information of type test report

When the name or address of the applicant and the overseas manufacturer changed, the applicant should submit the change application and the corresponding supporting information to NETEC. After confirmation, NETEC should indicate the change on the attached page “Change information of type test report”, take back the original type test certificate and issue a new one.
