



Scan and Verify



中国认可
国际互认
检测
TESTING
CNAS L0454

Report No. T14-B370-26-040

Special Equipment Type Test Report (Lift)

Category of equipment:	Lift major component
Type of equipment:	Driving machine
Name of product:	Lift traction machine
Model of product:	WYT-K
Applicant:	Shenyang Bluelight Drive Technology Co., Ltd.
Manufacturer:	Shenyang Bluelight Drive Technology Co., Ltd.
Category of type test:	First test
Test date:	2026-07-19

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

NOTICE

1. Type test report is based on the Regulation for Type Tests of Lifts (TSG T7007—2022).
2. The legal entity of the National Elevator Inspection and Testing Center is NETEC Inspection and Testing (Beijing) Co., Ltd. The abbreviation of NETEC Inspection and Testing (Beijing) Co., Ltd. and National Elevator Inspection and Testing Center are both “NETEC”.
3. The test report is invalid without the signatures of the testing, reviewing and approving personnel, the approval certificate number of the type testing institution, the issue date, the "Test Report Specialized Stamp of NETEC Inspection and Testing (Beijing) Co., Ltd." or the cross-page 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 a qualified test conclusion.
5. Certificate is invalid without the issue date, the "Test Report Specialized Stamp of NETEC Inspection and Testing (Beijing) Co., Ltd." or the cross-page seal for multi-page attachments.
6. All contents of the test report and certificate issued by NETEC shall be computer-printed, except for the signatures of the responsible personnel. Any handwriting, alteration or partial copy of the report is also invalid.
7. The type test report is only valid for the sample. The applicant is responsible for the authenticity of the sample and relevant technical documents.
8. Any objection to the test report shall be submitted to NETEC in writing within 15 working days from the date of receipt of the test report and certificate.
9. NETEC issues either a paper version or an electronic version of the test report (one type only) based on the applicant's selection. The paper version is issued in triplicate, with one copy retained by NETEC and the other kept by the applicant; the electronic version has the equal legal effect as the paper version.
10. The Chinese version of the type test report and certificate shall prevail, while the English version is for reference only.

Contact Information

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

Tel: +86 316 2311414, +86 15932603366

Email: netec@bicm.com.cn

[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 5
3 Check and test the sample	Page 5
4 Commission test items by the applicant.....	Page 7
5 Sample photo	Page 7
6 Change information of type test report	Page 7

Category of equipment	Lift major component		
Type of equipment	Driving machine		
Name of product	Lift traction machine		
Model of product	WYT-K		
Product number	S25070016	Manufacturing date	2026-03-05
Unified social credit code of applicant		91210112715754447D	
Applicant	Shenyang Bluelight Drive Technology Co., Ltd.		
Address of applicant	NO.37 Shiji Road, Hunnan New District, Shenyang, China		
Unified social credit code of manufacturer		91210112715754447D	
Manufacturer	Shenyang Bluelight Drive Technology Co., Ltd.		
Address of manufacturer	NO.37 Shiji Road, Hunnan New District, Shenyang, China		
Manufacturing address	NO.37 Shiji Road, Hunnan New District, Shenyang, China		
Test place	NETEC Laboratory		
Receiving date	2026-03-20	Sample number	Y2026-0306
Sample state	No abnormality observed	Category of type test	First test
Test date	2026-07-19		
Test condition	Ambient temperature: 29.3 °C~31.5 °C, relative humidity: 61%~63%, supply voltage: AC 380 V		
Test basis	Regulation for Type Test of Lifts (TSG T7007—2022) GB/T 7588.1—2020, GB/T 7588.2—2020 EN 81-20:2020, EN 81-50:2020		
Test conclusion	The type test is certificated.		
Note	Issue date of the Chinese version: 2026-08-04		
Reported by: 王红格		Approval certificate of type test institute No. TS7610014—2029 Issue date of the English version: 2026-08-06	
Verified by: 苏力史			
Issued by: 叶大建			

1 Technical parameters and configuration of the sample

Name of product		Lift traction machine
Model of product		WYT-K
Structure type of driving machine		Horizontal type, gearless, driving sheave is supported in two ends, the output shaft is supported in two points
Rated speed		5.00 m/s
Rated output torque		375 N·m
Allowed radial load of driving sheave shaft		5000 kg
Centerline height of output shaft (applicable to machine without gear reducer)		165 mm
Manual emergency operation device		Electric release
Minimum angle between fixed bottom and horizontal plane (applicable to machine with drum type brake and tilting arrangement)		/
Motor	Model	WYT-KN2.5J7
	Structure type	Three-phase AC permanent magnet synchronous inner rotor
	Rated power	33 kW
	Rated rotate speed	841 r/min
	Rated voltage	AC 380 V
	Rated current	72.4 A
	Rated frequency	70.1 Hz
	Insulation grade	F
	Duty	S5 40%
	Protection degree	IP41
	Mode of overload protection	Over-heat protection
	Starts per hour	240 F/h
	Explosion protection type	/
	Explosion protection grade	/
	Manufacturer	Shenyang Bluelight Drive Technology Co., Ltd.

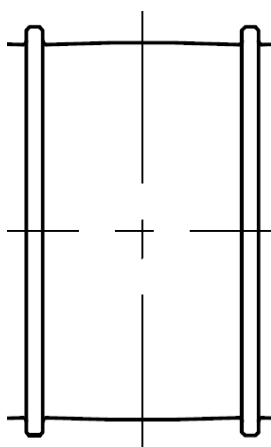
1 Technical parameters and configuration of the sample (continued)

Gear reducer	Structure type	/
	Reduction gear ratio	/
	Reduction steps	/
	Center (cone) distance	/
	Shaft angle	/
	Specifications of lubricating oil	/
	Material of transmission interface	/
Driving sheave	Number of suspension mean	7
	Type of grooves/ Shape of traction surface	Drum shaped, see attached figure
	Diameter of suspension mean	/
	Heat treatment	Quenching and tempering
	Pitch diameter	116.8 mm
	Mode of wrapping	Single-wrap
	Material of traction surface (applicable to coated belt)	Material name: Alloy structural steel Grade: 40Cr
	Material mark of traction surface coating or plating (applicable to coated belt)	Coating material name: Chromium Grade: Cr
	Hardness range of traction surface (applicable to coated belt)	220 HBW~280 HBW
	Applicable coated belt model	43KN
	Applicable coated belt width	30 mm
	Applicable coated belt thickness	3.3 mm
	Material of outer coating for coated belt	Thermoplastic polyurethane elastomer (TPU)

1 Technical parameters and configuration of the sample (continued)

Brake	Model	BLS
	Action position	Traction sheave shaft
	Numbers and structure type	2 sets, disc type
	Insulation grade	F
	Rated working voltage of electromagnet	DC 110 V
	Diameter of brake sheave or inner and outer diameter of friction part of brake disc	Inside diameter: 185 mm Outside diameter: 224 mm
	Explosion protection type	/
	Explosion protection grade	/
	Rated working pressure of hydraulic brake release device	/
	Rated sustaining voltage/current of electromagnet	DC 110 V
Applicable driving system	Speed control mode	VVVF
	Type of speed controller	Frequency inverter
	Type of speed feedback device	Rotary encoder

Attached figure:



Schematic figure of traction surface shape

2 Check the technical documents

No.	Items No.	Check items	Check results	Conclusion
1	X5.1	Conformity certificate document and relative technical documents	Comply with requirements	Pass
2	X5.2	Calculation documents	Comply with requirements	Pass
3	X5.3	Major 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	X6.1.1	Insulation resistance of stator winding	Comply with requirements	Pass
2	X6.1.2	Withstand voltage test of motor	Comply with requirements	Pass
3	X6.2.1	Type of the braking system	Comply with requirements	Pass
4	X6.2.2	All mechanical components of the brake installed at least in two sets	Comply with requirements	Pass
5	X6.2.3	Braking pressure of the braking system	Comply with requirements	Pass
6	X6.2.4	Braking torque of lift machine	Comply with requirements	Pass
7	X6.2.5	Activating and releasing voltage of electromagnet brake	Rated voltage: DC 110 V Activating voltage: DC 63 V, 57.3%U _{-rated} Comply with requirements	Pass
			Maximum releasing voltage: DC 38 V, 34.5%U _{-rated} Comply with requirements	
			Minimum releasing voltage: DC 36 V, 32.7%U _{-rated} Comply with requirements	
8	X6.2.6	Response time of activating of the brake of lift machine	Comply with requirements	Pass
9	X6.2.7	Withstand voltage test of brake coil	Comply with requirements	Pass
10	X6.2.8	Requirements for the belt transmission	/	/

No.	Items No.	Check and test items	Check and test results	Conclusion
11	X6.2.9	Reliability test of brake	With test report Comply with requirements	Pass
12	X6.2.10	Brake noise of lift machine	Noise dB(A): Front: 59.0 Back: 58.2 Left: 58.5 Right: 58.8 Upside: 57.7 Background: 43.1 Comply with requirements	Pass
13	X6.2.11	Manually release the brake	Comply with requirements	Pass
14	X6.3.1	Working surface run-out in normal direction of the surface of the traction sheave	Comply with requirements	Pass
15	X6.3.2	The pitch diameter difference of each groove of the traction sheave	Comply with requirements	Pass
16	X6.3.3	Hardness of the grooves of the traction sheave of the machine	Hardness HBW: 1) 233 2) 230 3) 236 4) 226 Deviation HBW: 10 Comply with requirements	Pass
17	X6.4	Gear reducer	/	/
18	X6.5.1	Temperature rise	Motor stator winding temperature rise: 88.2 K Brake coil temperature rise: 54.9 K Comply with requirements	Pass
19	X6.5.2	Running noise of the driving machine	Noise dB(A): Front: 61.0 Back: 62.2 Left: 61.7 Right: 60.9 Upside: 61.3 Background: 43.1 Comply with requirements	Pass
20	X6.5.3	Vibration speed with no load of the lift machine for traction lift	Comply with requirements	Pass
21	X6.5.4	Speed	Rated speed v_{rated} : 5.00 m/s Running speed: 5.142 m/s 102.8% V_{rated} Comply with requirements	Pass
22	X6.5.5	Appearance	Comply with requirements	Pass

No.	Items No.	Check and test items	Check and test results	Conclusion
23	X6.5.6	Nameplate of the driving machine	Comply with requirements	Pass
24	X6.5.7	Outdoor environment requirements	/	/
25	X6.5.8	Explosion proof environment requirements	/	/

4 Commission test items by the applicant

No.	Items No.	Test contents and requirements	Test results	Conclusion
1	GB/T 7588.1— 2020 §5.9.2.2.2.6	The brake pad shall be incombustible. Near the brake, there should be warning information about the replacement of brake pads after wear (such as inspection methods, replacement conditions, etc.).	Comply with requirements	Pass

5 Sample photo



6 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.
