



## Certificate concerning the examination of conformity

<b>Certificate no.:</b>	KP 288
<b>Certification body:</b>	TÜV SÜD Industrie Service GmbH Zertifizierungsstelle für Produkte der Fördertechnik Westendstraße 199, 80686 München – Germany
<b>Applicant/ Certificate holder:</b>	Shenyang Bluelight Drive technology Co.Ltd No.37 Shiji Road, Hunnan New District, 110179, Shenyang, China.
<b>Date of application:</b>	2012-03-18
<b>Manufacturer:</b>	Shenyang Bluelight Drive technology Co.Ltd No.37 Shiji Road, Hunnan New District, 110179, Shenyang, China.
<b>Product:</b>	Traction Machine for lifts
<b>Type:</b>	WYT-T
<b>Test laboratory:</b>	TÜV SÜD Industrie Service GmbH Zertifizierungsstelle für Produkte der Fördertechnik Westendstraße 199, 80686 München – Germany
<b>Date and number of the test report:</b>	2013-06-28 KP 288
<b>Test specifications:</b>	- Directive 95/16/EC – Annex I - Standard EN 81-1:1998+A3:2009
<b>Result:</b>	The traction machine fulfils the safety requirements of the specifications and the scope of application stated in the test report. This statement is valid as long as all the traction machines are in full compliance with the sample of this examination of conformity and there is no change of the requirements in the specifications referring to traction machines.
<b>Validity:</b>	This certificate is valid until 2018-06-27
<b>Date of issue:</b>	2013-06-28

Certification body for lifts and cranes

*C. Rührmeyer*  
Christian Rührmeyer





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## Test Report

No. KP 288

**Applicant / Customer:** Shenyang Bluelight Drive technology Co.Ltd  
No.37 Shiji Road, Hunnan New District, 110179,  
Shenyang, China.

**Manufacturer:** Shenyang Bluelight Drive technology Co.Ltd  
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**Date of application:** 2013-03-18

**Test Laboratory:** TÜV SÜD Industrie Service GmbH  
Prüflaboratorium für Produkte der Fördertechnik  
Westendstr. 199  
80686 München - Germany

**Product:** Traction machine for lifts

**Type:** WYT-T

**Testing order:** Examination of conformity with specifications

**Specifications:**

- Directive 95/16/EC of 29th of June 1995
- Standard EN 81-1:1998+A3:2009

**Kind of examination:**

- Examination on correspondence with the specifications
- Function test

**Test result:** The carried out tests have shown, that design, manufacturing and the measured values were in compliance with the specifications.

**Place and date of examination:** Shenyang, 2013-03-20

Date: 2013-06-28

Our reference:  
TÜV SÜD / IS/RE-LCC / WP

Document:  
PB\_KP288\_130628.doc

This document consists of  
5 Pages.  
Page 1 of 5

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The test results refer exclusively  
to the units under test.





## 1. Main Specifications and Configuration

### Type: WYT-T

Rated Turning:	192 rpm
Rated speed:	2.0 m/s
Traction ratio:	2:1
Diameter of the Traction sheave:	400 mm
Rated output Torque:	765 Nm
Braking Torque:	2 * 956 Nm
Maximum radial load of traction sheave:	34.34 kN
Mode of wrapping:	Single
Rated Voltage:	AC 380 V / AC 220V
Rated current:	32.7 A / 60.5 A
Frequency:	32 Hz
Rated power:	15.4 kW
Efficiency of the Traction machine:	92.3 %
Isolation class:	F
Protection class:	IP 41

## 2. Generally

The comparison will be done in table form with the following legend:

<b>X:</b>	fulfilled
<b>XX:</b>	shall be fulfilled in installation at jobsite
<b>O:</b>	not relevant in this case
<b>F:</b>	not fulfilled

The result of the test report is based on the documentation shown under point 4.

## 3. Considered items

No.	No. of Sub-clause in standard EN 81-1: 1998+A3:2009	WYT-T	Conclusion
1	<b>9.2.1</b> The ratio between the pitch diameter (D) of sheaves, pulleys or drums and the nominal diameter (d) of the suspension ropes shall be at least 40, regardless of the number of strands.	X	X
2	<b>9.7.1</b> For traction sheaves, pulleys and sprockets, provisions shall be made according to table 2 to avoid a) bodily injury b) the ropes leaving the pulleys (traction sheaves), if slack c) the introduction of objects between ropes and traction sheaves.	XX	XX
3	<b>12.2.2</b> Use may be made of belts for coupling the motor or motors to the component on which the electro-mechanical brake operates. In this case a minimum of two belts shall be used	O	O



4	<b>12.4.1.1</b> The lift shall be provided with a braking system, which operates automatically : a) in the event of loss of the mains power supply b) in the event of the loss of the supply to control circuits	x	x
5	<b>12.4.2.1</b> This brake on its own shall be capable of stopping the machine when the car is travelling downward at rated speed and with the rated load plus 25 %. In these conditions the retardation of the car shall not exceed that resulting from operation of the safety gear or stopping on the buffer.  All the mechanical components of the brake which take part in the application of the braking action on the drum or disk shall be installed in two sets. If one of the components is not working a sufficient braking effort to slow down the car, travelling downwards at rated speed and with rated load shall continue to be exercised. Any solenoid plunger is considered to be a mechanical part, any solenoid coil is not.	x	x
6	<b>12.4.2.2</b> The component on which the brake operates shall be coupled to the traction sheave or drum or sprocket by direct and positive mechanical means.	x	x
7	<b>12.4.2.3</b> To hold off the brake, in normal operation, shall require a continuous flow of current.	x	x
8	<b>12.4.2.4</b> Any machine fitted with a manual emergency operating device ( <b>12.5.1</b> ) shall be capable of having the brake released by hand and require a constant effort to keep the brake open.	x	x
9	<b>12.4.2.5</b> The brake shoe or pad pressure shall be exerted by guided compression springs or weights.	x	x
10	<b>12.4.2.6</b> Band brakes shall not be used.	0	0
11	<b>12.4.2.7</b> Brake linings shall be incombustible.	x	x
12	<b>12.5.1</b> If the manual effort required to move the car in the upward direction with its rated load does not exceed 400 N the machine shall be provided with a manual means of emergency operation allowing the car to be moved to a landing with the aid of a smooth, spoke less wheel.	Emergency electrical operation	Emergency electrical operation
13	<b>12.5.1.1</b> If the wheel is removable, it shall be located in an easily accessible place in the machine room. It shall be suitably marked if there is any risk of confusion as to the machine for which	x	x



	<p>it is intended.</p> <p>An electric safety device in conformity with <b>14.1.2</b> shall be actuated when the wheel is put on the machine at the latest.</p>		
14	<p><b>12.6</b> The speed of the lift car, half loaded, in downward motion, in mid-travel, excluding all acceleration and retardation periods, shall not exceed the rated speed by more than 5 %, when the supply is at its rated frequency, and the motor voltage is equal to the rated voltage of the equipment.</p> <p>This tolerance is also applicable for the speed in the case of :</p> <p>a) levelling (<b>14.2.1.2 b</b>) ;          b) re- levelling (<b>14.2.1.2 c</b>) ;          c) inspection operation (<b>14.2.1.3 d</b>) ;          d) emergency electrical operation (<b>14.2.1.4. e</b>) ;          e) docking operation (<b>14.2.1.5 c</b>).</p>	XX	XX
15	<p><b>12.11</b> Effective protection shall be provided for accessible rotating parts, which may be dangerous, in particular :</p> <p>a) keys and screws in the shafts ;          b) tapes, chains, belts ;          c) gears, sprockets ;          d) projecting motor shafts ;          e) fly-ball type over speed governors.</p> <p>Exception is made for traction sheaves with protections according to <b>9.7</b>, hand winding wheels, brake drums and any similar smooth, round parts. Such parts shall be painted yellow, at least in part.</p>	XX	XX
16	<p><b>15.4.3.1</b> The direction of movement of the car shall be clearly indicated on the machine, close to the hand winding wheel.</p>	XX	XX

#### 4. Summary

The traction machine fulfils the safety requirements of the specifications and the scope of application stated in the test report. This statement is valid as long as all the traction machines are in full compliance with the sample of this examination of conformity and there is no change of the requirements in the specifications referring to traction machines.



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## 5. Documents on which the test report is based

- |U1| Approval drawing no. WYT-TA.0 (1 page) with certification stamp dated 2013-06-28
- |U2| Detailed drawing (11 pages) with TÜV SÜD stamp dated 2013-05-31
- |U3| Analysis of the host base of WYT-T series (3 Pages)
- |U4| Application of traction machine from Shenyang Bluelight dated 2013-03-18

Prüflaboratorium für Produkte der Fördertechnik  
Prüfbereich Aufzüge und Sicherheitsbauteile

A blue ink signature of Gerold Jilg, consisting of stylized initials 'GJ'.

Gerold Jilg

The expert

A black ink signature of Wang Peng, featuring a horizontal line followed by a stylized 'W' and 'P'.

Wang Peng