



Industrie Service

# Certificate

## Concerning the examination of conformity

**Certificate No.:** KP 263

**Certification body:** TÜV SÜD Industrie Service GmbH  
Zertifizierungsstelle für Produkte der  
Fördertechnik, Westendstr. 199  
80686 München - Germany

**Applicant/  
Certificate Holder:** Pioneer Lift and Crane Co., Ltd.  
44, 46 Soi Ekachai 64/2, Bangbon, Bangbon  
Bangkok 10150, Thailand

**Date of application:** 2012-12-01

**Manufacturer:** Pioneer Lift and Crane Co., Ltd.  
44, 46 Soi Ekachai 64/2, Bangbon, Bangbon  
Bangkok 10150, Thailand

**Product:** Moving Walk

**Type:** SM-Series

**Scope of application:** Max. Length 100 m, depending on:  
- Inclination (0° / 6° / 12°),  
- Rated speed (0.5 / 0.65 / 0.75 m/s)  
- Pallet width (800 mm / 1000 mm / 1400 mm)

**Test laboratory:** TÜV SÜD Industrie Service GmbH  
Prüflaboratorium für Produkte der Fördertechnik  
Prüfbereich Aufzüge und Sicherheitsbauteile  
Westendstraße 199, 80686 München - Germany

**Date and  
number of test report:** 2013-02-05  
KP 263

**Test specifications:** - 2006/42/EC, Annex I  
- EN115-1:2008+A1:2010

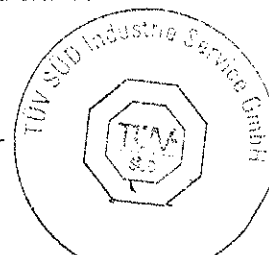
**Validity:** This certificate is valid until 2018-02-09

**Result:** The moving walk SM -Series fulfils the requirements of  
the test specification for the respective scope of  
application stated in the annex, page 1 of this certificate,  
keeping the mentioned conditions.

**Date of issue:** 2013-02-10

Certification body for lifts and cranes

*C. Rührmeyer*  
Christian Rührmeyer



**Annex to the Type-examination certificate  
No. KP 263 dated 2013-02-10**

**1. Scope of application:**

The SM-series moving walk is a self-designed moving walk, meeting the requirement of EN 115-1:2008+A1:2010 and can be installed in the indoor and outdoor environment.

The scope of application of the moving walk is given in the table below:

Moving walk type:	SM-Series
Length: L (Sin- gle drive)	Angle of inclination $\alpha = 0^\circ$ : $L \leq 100$ m Angle of inclination $\alpha \leq 6^\circ$ : $L \leq 60$ m Angle of inclination $6^\circ \leq \alpha \leq 12^\circ$ : $L \leq 45$ m
Pallet width:	800 mm, 1000 mm, 1400 mm
Speed:	0.5 m/s, 0.65 m/s, 0.75 m/s

**2. Conditions**

- 2.1 The moving walk must not be installed at locations with explosive atmosphere.
- 2.2 The environmental temperature for the moving walk should be ensured between  $-4^\circ\text{C}$  and  $40^\circ\text{C}$ .
- 2.3 One copy of the operating manual including a maintenance manual must be kept at the operation area.

**3. Remarks**

- 3.1 In cases involving changes of or deviations from the inspected moving walk which are not included in the certificate KP 263, the notified body must either subject the moving walk to individual tests as per chapter 7.3.3 of standard EN 115-1:2008+A1:2010.
- 3.2 The accompanying documents in chapter 7.4 of standard EN 115-1:2008+A1:2010 should always be provided by the manufacturer.
- 3.3 The requirements of the EC Member States must be observed (e.g. ventilation, building interfaces, fire protection), when the moving walk is being installed in a building.
- 3.4 The following documents must be enclosed with the technical documentation of each moving walk:
  - a) Certificate concerning the examination of conformity no. KP 263 dated 2013-02-10.
  - b) Approval drawing no.:ESC12-4572-1000-02 with certification stamp dated: 2013-02-10.
  - c) Electrical schematic diagram no.:EC1601 (with 9 pages) dated: 2009-07-29.
- 3.5 The certificate concerning the examination of conformity may only be used in connection with the pertinent Annex.



**Annex to the Type-examination certificate  
No. KP 263 dated 2013-02-10**

**1. Scope of application:**

The SM-series moving walk is a self-designed moving walk, meeting the requirement of EN 115-1:2008+A1:2010 and can be installed in the indoor and outdoor environment.

The scope of application of the moving walk is given in the table below:

Moving walk type:	SM-Series
Length: L (Single drive)	Angle of inclination $\alpha = 0^\circ$ : $L \leq 100$ m Angle of inclination $\alpha \leq 6^\circ$ : $L \leq 60$ m Angle of inclination $6^\circ \leq \alpha \leq 12^\circ$ : $L \leq 45$ m
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Speed:	0.5 m/s, 0.65 m/s, 0.75 m/s

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- 3.5 The certificate concerning the examination of conformity may only be used in connection with the pertinent Annex.



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## Test Report

No. KP 263

Choose certainty.  
Add value.

**Applicant / Customer:** Pioneer Lift and Crane Co., Ltd.  
44, 46 Soi Ekachai 64/2, Bangbon, Bangkok  
Bangkok 10150, Thailand

**Manufacturer:** Pioneer Lift and Crane Co., Ltd.  
44, 46 Soi Ekachai 64/2, Bangbon, Bangkok  
Bangkok 10150, Thailand

**Date of application:** 2012-12-01

**Our Order No:** 248218568

**Test Laboratory:** TÜV SÜD Industrie Service GmbH  
Zentralbereich Fördertechnik-Sonderbauten  
Abteilung Aufzüge und Sicherheitsbauteile  
Westendstrasse 199  
80686 München - Germany

Date: 2013-02-05

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

Document:  
PB\_KP 263\_SM-  
Series\_130205\_en.doc

**Product and Type:** Moving walk, Type: SM series

This document consists of  
5 Pages.  
Page 1 of 5

**Scope of Application:** Max. Length 100 m, depending on:  
- Inclination (0° / 6° / 12°),  
- Rated speed (0.5 / 0.65 / 0.75 m/s)  
- Pallet width (800 / 1000 / 1400 mm)

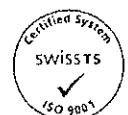
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TÜV SÜD Industrie Service GmbH.

**Specifications:** ➤ Machinery Directive 2006/42/EC  
➤ Standard EN115-1:2008+A1:2010

**Kinde of examination:** Performance of a Conformity Type-examination of  
one type of moving walk according Machinery  
Directive 2006/42/EC  
➤ Examination on correspondence with the  
specifications  
➤ Function tests

The test results refer exclusively  
to the units under test.

**Place and  
date of examination:** Bangkok, 2013-01-29



Headquarters: Munich  
Trade Register Munich HRB 96 869  
VAT ID No. DE129484218  
Information pursuant to Section 2(1)  
DL-InfoV (Germany) at  
[www.tuev-sued.com/imprint](http://www.tuev-sued.com/imprint)

Supervisory Board:  
Karsten Xander (Chairman)  
Board of Management:  
Ferdinand Neuwieser (CEO),  
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Telefon: +49 89 5791-3395  
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TUV®

TÜV SÜD Industrie Service GmbH  
Niederlassung München  
Abteilung Fördertechnik  
Westendstrasse 199  
80686 Munich  
Germany

## 1 Description of the moving walk:

The moving walk SM Series is a self-designed moving walk for indoor and outdoor application.

The type examination was performed on a prototype moving walk with length of 26.38 m, at the inclination of 12° speed of 0.65 m/s in the testing workshop of manufacturer – Pioneer lift & Crane, Bangkok.

The controller, inverter and the driving machine was placed in a drive station of the moving walk in the upper head.

### 1.1 Technical data:

The scope of application of the moving walk MT Series is given in the table below:

Moving walk type:	SM-Series
Length: L (Single drive)	Angle of inclination $\alpha = 0^\circ$ : $L \leq 100$ m Angle of inclination $\alpha \leq 6^\circ$ : $L \leq 60$ m Angle of inclination $6^\circ \leq \alpha \leq 12^\circ$ : $L \leq 45$ m
Pallet width:	800 mm, 1000 mm, 1400 mm
Speed:	0.5 m/s, 0.65 m/s, 0.75 m/s

### 1.2 List of main components

- 1.2.1 Truss
- 1.2.2 Transition and drive unit
- 1.2.3 Track system
- 1.2.4 Braking system
- 1.2.5 Pallet, pallet chain and comb
- 1.2.6 Balustrade
- 1.2.7 Electrical System (including safety contacts)

## 2 Test report based on the documents:

- |U1| Approval drawing ESC 30-4572-1000-02 with certification stamp
- |U2| Product description of the manufacturer
- |U3| Measurements of the principal dimensions according to EN115-1:2008+A1:2010.
- |U4| Electric diagram no: EC1601 (with 9 pages) dated 2009-07-29
- |U5| Calculations of the mechanical components (Pallet chain, Driving chain, Belt strength Roller shaft, Truss, and braking distances)
- |U6| Tests and the strength Certificates of the components required according to Art. 6.2 of EN115-1:2008+A1:2010



- |U7| Manuals for maintenance and operation instructions
- |U8| Declaration of conformities (According to EMC Directive, Low Voltage Directive and Machinery Directive 2006/42/EC) dated 2013-01-16.
- |U9| Application of the applicant for the certificate of Conformity dated 2012-12-01.
- |U10| Agreement for certification of conformity dated 2012-12-21.

### **3 Testing procedure**

#### 3.1 Requirements of the Specification:

The applied conformity checking procedure is given in Chapter 6. Methods to be used to verify conformity to the requirements out of EN115-1:2008+A1:2010.

#### 3.2 Examinations in detail:

- 3.2.1 Check of necessary documents like calculation, test reports and all certificates.
- 3.2.2 Carry out the measurement to show the stated measurable parameters have been met.
- 3.2.2 Carry out the test to show the moving walk works as intended including the electric safety devices.
- 3.2.3 Carry out the visual inspection to check the marking required satisfies the requirement.
- 3.2.4 Comparison of the technical documents with the moving walk

### **4 Examination of the moving walk according to Chapter 6 of the harmonized standard EN115-1:2008+A1:2010**

#### 4.1 Place of examination:

Pioneer Lift & Crane Co., Ltd. 44, 46 Soi Ekachai 64/2, Bangbon, Bangkok 10150, Thailand

#### 4.2 Date of examination:

2013-01-29

#### 4.3 Participants: Participants on behalf of the manufacturer:

- Mr. Wisedenchai Nattawat, Pioneer Lift and Crane Co., Ltd

Participant on behalf of the testing laboratory:

- Mr. Peng Wang, TÜV SÜD China / Jiangsu TUV Product Service Ltd.  
Shanghai Branch

### **5 Findings**

#### 5.1 Check of necessary documents like calculation, testing report and all certificates.

The submitted documents meet generally the requirements of the specifications.

#### 5.2 Carry out the measurement to show the stated measurable parameters have been met.

The measured parameters meet the requirement of scope of application and the conditions in chapter 6 of the standard EN 115-1:2008+A1:2010.

- 5.3 Carry out the test to show the moving walk works as intended including the electric safety devices.

The test shows the moving walk works as intended.

- 5.4 Carry out the visual inspection to check the marking required satisfies the requirement.  
The visual inspection shows no deviation to the test requirement.

- 5.5 Comparison of the technical documents with the type tested moving walk.  
The execution of the tested moving walk corresponds to the documentation.

## 6 Test result

The moving walk fulfils the scope of application and the conditions in chapter 6 of the standard EN 115-1:2008+A1:2010.

The execution of installation of the moving walk is covered by the national building regulations and therefore is not subject of this type-examination.

## 7 Conditions

- 7.1 The moving walk must not be installed at locations with explosive atmosphere.
- 7.2 The environmental temperature for the moving walk should be ensured between -4°C and 40°C.
- 7.3 One copy of the operating manual including a maintenance manual must be kept at the operation area.

## 8 Remarks

- 8.1 In cases involving changes of or deviations from the inspected moving walk which are not included in the certificate KP 263, the notified body must either subject the moving walk to individual tests as per chapter 7.3.3 of standard EN 115-1:2008+A1:2010.
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Industrie Service

8.5 The certificate concerning the examination of conformity may only be used in connection with the pertinent Annex. This enclosure shall be updated and re-edited following the information of the certificate holder.

Prüflaboratorium für Produkte der Fördertechnik  
Prüfbereich Maschinen der Fördertechnik

A handwritten signature in black ink, appearing to be 'G. Jilg'.

Gerold Jilg

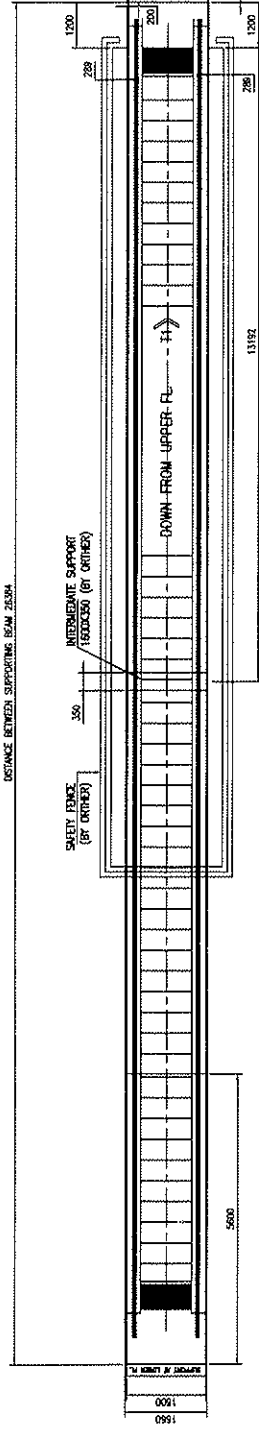
The expert

A handwritten signature in black ink, appearing to be 'Peng Wang'.

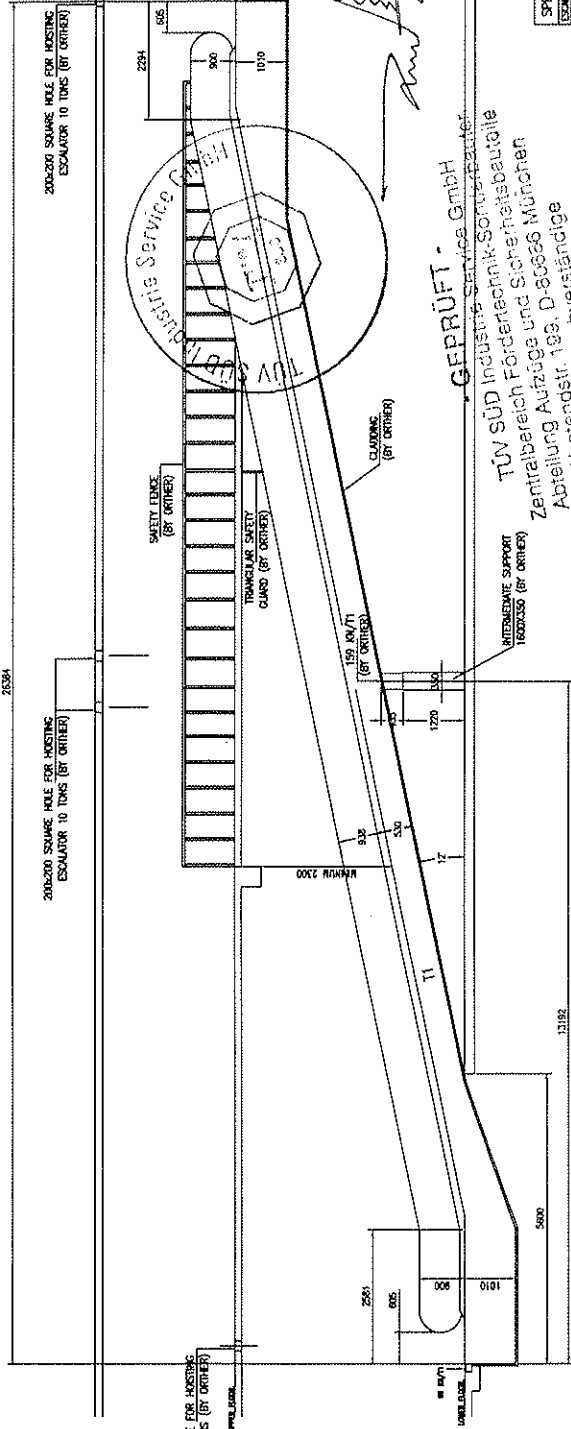
Peng Wang



AVAILABLE FINISHES	
WALKWAY PANEL	POURED CONCRETE WITH POLISHED FINISH
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PLAN VIEW AT MOVING WALK



ELEVATION OF MOVING WALK



FRONT VIEW OF MOVING WALK

SPECIFICATION OF MOVING WALK	
MAX. LOAD	10 TONS
TRAVEL SPEED	0.30 m/min
TRAVEL DIRECTION	UPPER FLAKE
FLOOR HT.	1.10 m
FLOOR SPACING	1.10 m
POWER SOURCE	11.0 kW
POWER CAPACITY	11.0 kW
POWER SUPPLY	10 kW

MOVING WALK LAYOUT	
TITLE	MOVING WALK LAYOUT
DATE	10. FEB. 2013
DRAWING NO.	ESC12-4572-1000-02

GEPRÜFT -  
 TÜV SÜD Industrie Service GmbH  
 TÜV SÜD Technische Service GmbH  
 Zentralbereich Förder- und Sicherheitsbauteile  
 Abteilung Aufzüge und Sicherheitsbauteile  
 Westendstr. 199, D-80666 München  
 Der Sachverständige  
 10. FEB. 2013

APPROVED BY		CHECKED BY	
SCALE	1:50 / 1:100	DATE	20-01-13
DRAWN BY	CHAISRI	DATE	20-01-13
DATE	20-01-13	DATE	20-01-13