



Type Test Certificate for Special Equipment (Lifts)

Certificate No. TSX F38002220220064

Applicant: ZheJiang MATO Drive Equipment Co.,Ltd.

Registered address of applicant: No. 188, Yanghua road, Nanxun Town, Nanxun District, Huzhou City, Zhejiang Province

Manufacturer: ZheJiang MATO Drive Equipment Co.,Ltd.

Registered address of manufacturer: No. 188, Yanghua road, Nanxun Town, Nanxun District, Huzhou City, Zhejiang Province

Category of equipment: Lift safety protection component

Type of equipment: Unintended car movement protection

Name of product: Unintended car movement protection

Model of product: MEKB

Type test report No.: ETC22F380064

After type test, it is confirmed that the product complies with the requirements of TSG T7007-2022 *Regulation for Type Test of Lifts*、GB/T 7588.1-2020、GB/T 7588.2-2020、ISO 8100-1:2019、ISO 8100-2:2019、EN 81-20:2014 (EN 81-20:2020)、EN 81-50:2014 (EN 81-50:2020) .

Applicable product model(s) of the certificate: MEKB

See appendix for applicable product parameters and configuration of the certificate.

(Stamp of organ)

Issue date: 2022-11-29

Revision date: 2024-03-01

Revalidation date: before 2026-11-29

Shanghai Jiao Tong University Elevator Test Center

Note:

1. The applicant has responsibilities to ensure that the products conform to the requirements of the safety technical specifications and relative standards, and to ensure that the quality and safety performance of products are consistent with the tested sample mentioned above.
2. This certificate is not applicable to product manufactured after the revalidation date.
3. If this certificate is revised, the validity period of the certificate remains unchanged.

Appendix

Applicable Product Parameters and Configuration

| | | | | | |
|--|---|---|---------------|--|--|
| Range of system mass | 3370~10030(kg) | Range of the rated load | 1600~3000(kg) | | |
| Type of stopping element | Brakes of PM motor | Drive mode of applicable lift | Traction | | |
| Acting position | Traction sheave | | | | |
| Operation tripping mode | Acting when power supply loss | | | | |
| Highest speed anticipated before car deceleration occurs | 1.37m/s | Response time | ≤200ms | | |
| Test speed for final inspection | 0.25m/s | Response time of detection | ≤100ms | | |
| Applicable tripping device | | | / | | |
| Stopping distance(The car moving distance shall not exceed 0.8m) | | | ≤0.11m | | |
| Stopping distance(The car moving distance shall not exceed 1.0m) | | | ≤0.12m | | |
| Stopping distance(The car moving distance shall not exceed 1.2m) | | | ≤0.13m | | |
| Stopping element acting on | car or counterweight | Type of gripping (braking) element | / | Material of gripping (braking) element | / |
| | | Quantity of gripping (braking) elements | / | Dimension of rubbing surface of gripping (braking) element | /mm |
| | | Blade machining method of applicable guide rail | / | Blade lubrication condition of applicable guide rail | / |
| | | Type of elastic element | / | Material type of applicable guide rail | / |
| | suspension rope or compensation rope system | Reset mode | / | Type of elastic element | / |
| | | Type of friction element | / | Material of friction element | / |
| | traction sheave or traction sheave shaft only supported in two points | Structural type | Block | Quantity | 2 |
| | | Material of friction element | Non-asbestos | Type of elastic element | Cylindrical helical compression spring |

Note to attached table:

1. When the parameter or configuration listed in the attached table has been changed, the type test must be done again.
2. The test traction ratio is 2:1, when used in other ratio, the range of factual system mass and factual rated load can be calculated by following formula :

Factual system mass = testing system mass × factual ratio ÷ testing ratio;

Factual rated load = testing rated load × factual ratio ÷ testing ratio.

3. The method used to finally inspection trigger stopping component under the test speed: Moving the empty car in up direction, after the sensor leaves door zone, unintended car movement protection means (stopping subsystem) is triggered and the car will stop; Measure the distance between the top surface of car sill and landing door sill (leveling location). After minusing the corresponding door length (upper), the value is the movement distance under test speed. It will not exceed the value allowable.

Revision Description:

Revision of Type Test Certificate

| No. | Item | Original description | Revised description | Revision date |
|-----|------------------------------------|--|---|---------------|
| 1 | Registered address of applicant | Workshop 4, No. 188, Yanghua Village, Nanxun Town, Nanxun District, Huzhou City, Zhejiang Province | No. 188, Yanghua road, Nanxun Town, Nanxun District, Huzhou City, Zhejiang Province | 2024-03-01 |
| 2 | Registered address of manufacturer | Workshop 4, No. 188, Yanghua Village, Nanxun Town, Nanxun District, Huzhou City, Zhejiang Province | No. 188, Yanghua road, Nanxun Town, Nanxun District, Huzhou City, Zhejiang Province | 2024-03-01 |