

### ***I.Problem----Handrail gets very hot during working***

- 1.Handrail Tension force is too tight or too loose, or tangential guide shifts;
- 2.The connection terminals of guide devices are not smooth, and guide devices are not at same horizontal level;
- 3.Friction force of handrail drive wheel is too tight or too loose, drive wheel is not in the center of the handrail;
- 4.There is friction at handrail entry switch device

Getting hot can be improved if above causes solved perfectly. Since handrail works by friction, so it will get hot more or less.

### ***II.Problem----Handrail falls off during working***

- 1.Wrong handrail model selected, the handrail mouth is too big, not suitable, or rubber lost its performance due to handrail's long time working, in this case, handrail need to be replaced.
- 2.Handrail will get loose&longer after long time working, in this case, need to tension the handrail again.
- 3.Wings of friction wheel wear out and get loose, need to replace friction wheel
- 4.Handrail pressure rollers wear out and get loose.

Since handrail works by many related components, so it is necessary to

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troubleshoot one by one when it comes off

### ***III.Problem---Handrail sliding layer wears out and steel wire bares***

1.There are gaps onto the friction wheel, which will damage the sliding layer due to friction

2.Friction wheel and handrail pressure rollers are not at same accelerated speed, which will damage handrail surface&sliding layer.

3.Newel chain roller assembly is damaged, and it does not rotate normally when handrail runs around the curve sections, which will make the sliding layer bear a lot friction and damage handrail. So the selection of newel chain is very important.

4.Friction ratio of handrail sliding layer material is not big enough, which will make handrail& handrail slide and get hot, as a result, sliding layer will be damaged

### ***IV.Problem---There is scratch or crack on surface of handrail, or handrail is heavily damaged.***

1.Bearing of handrail pressure roller is damaged, and it does not move synchronously or even does not move at all. As a result, it will hurt handrail because of direct touch friction from handrail pressure roller towards

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handrail

2. Handrail entry is damaged. Some escalators equipped with brush entry, but does not change aging brush very timely. Some escalators with rubber entry without brush, when the rubber gets crack due to aging and zone of fracture will appear, in this case, handrail surface will get crack due to its friction towards the zone of fracture
3. Outer factors cause handrail surface crack if there is friction at handrail entry.

#### ***V. Problem---Handrail mouth get damaged or fluffs***

1. Handrail mouth get damaged because of long term continuous working together with other related spare parts
2. The job-site should timely troubleshoot whether there are thorns at the welding connections of handrail guide rail once handrail fluffs.
3. Handrail sways because of its oversize mouth, which will damage itself.

#### ***VI. Problem---There are bubbles at handrail surface***

1. Handrail wearing layers are not combined closely, so it get layered and swollen. The wearing layers are not pressed firmly and gas is not evacuated completely during production.

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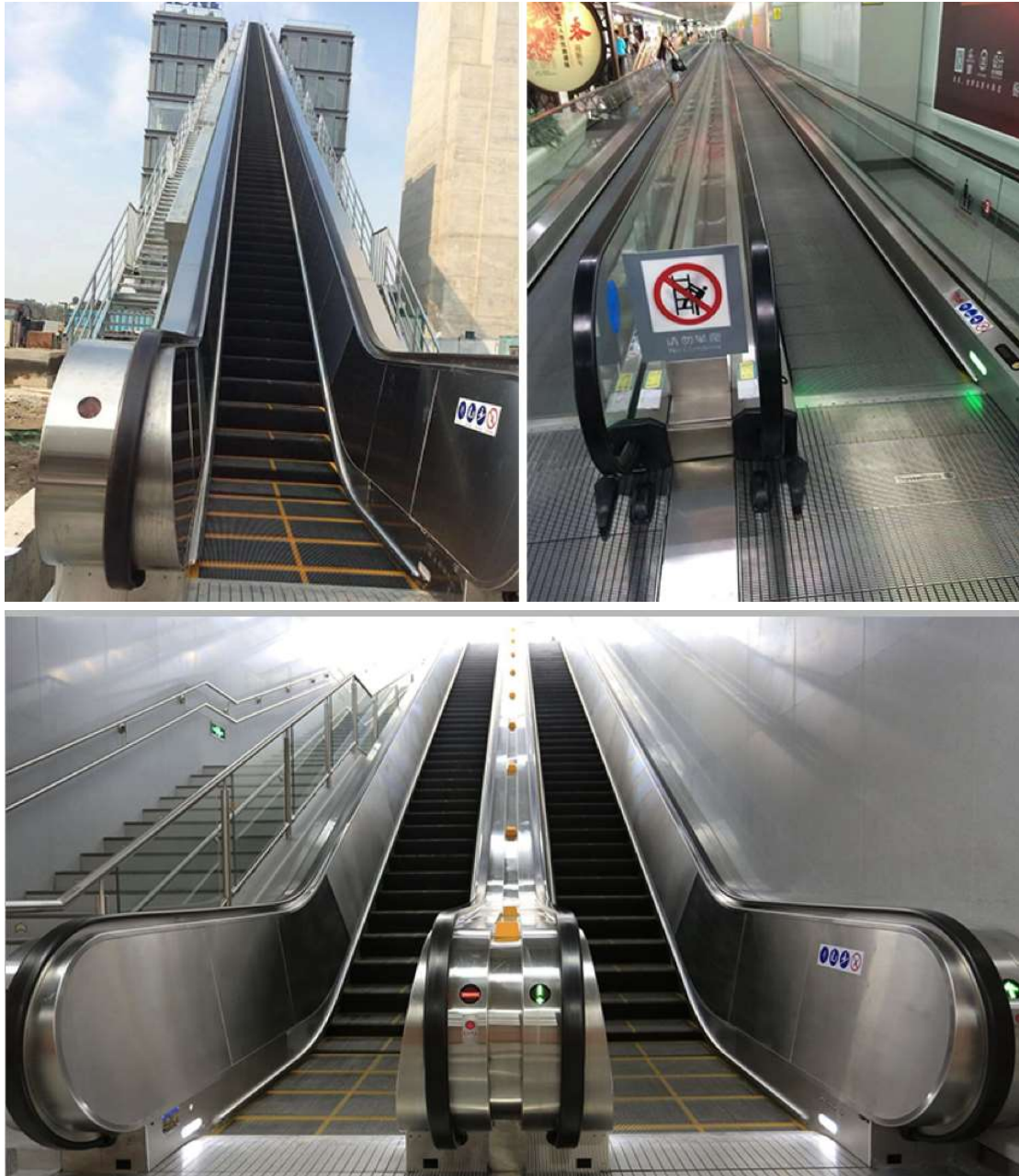
- 2.The pressure of thermosetting vulcanization towards handrail is not well-distributed, so the gas cannot be evacuated completely.
- 3.The heating of thermosetting vulcanization towards handrail is not well-distributed, so the bearing layers cannot be pressed firmly.
- 4.Working handrail will get bubbles if there is oil pollution onto its surface, which will influence the rubber handrail's performance.
5. Linear drive handrail will easily get hot and make wearing layers split and get bubbles

**Many thanks for watching, and welcome to study and improve professional skills together!!!**

You will be given two years quality assurance about our handrail, if it breaks down within two years, we promise to send you a brand-new handrail to you for free(Except wrong model selected and under very bad usage condition)

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