

# Prevention of Trapping Hazard of Tail Lifts



These Guidance Notes are prepared by the  
Occupational Safety and Health Branch  
of the Labour Department

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Guidance Notes on

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Prevention of  
Trapping Hazard of Tail Lifts

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# 1. Introduction

- 1.1 Unsafe operation of tail lifts can cause trapping injuries or even death.** Lorry owners and proprietors/employers responsible for the loading/unloading or checking of goods shall take proper safety measures for the use of tail lifts, which include conducting risk assessments, identifying the associated hazards and devising safety control measures and work procedures. Workers using tail lifts shall also take note of the safety measures set out in these Guidance Notes.



- 1.2** These Guidance Notes provide practical guidance on the safe use and operation of tail lifts. They do not modify or supplement in any way the legal effect and interpretation of any laws including the Factories and Industrial Undertakings Ordinance, Chapter 59, the Occupational Safety and Health Ordinance, Chapter 509 and subsidiary legislation made under those Ordinances. **Reference will be made to these Guidance Notes when the Labour Department enforces the Ordinances.** The provisions of the Ordinances and any regulations or Codes issued thereunder will prevail over these Guidance Notes in the event of any inconsistency.

## 2. Engineering Control Measures

- 2.1 The design, construction and installation of tail lifts should conform to British Standard BS EN 1756-1 or to equivalent national/international standards or provisions.

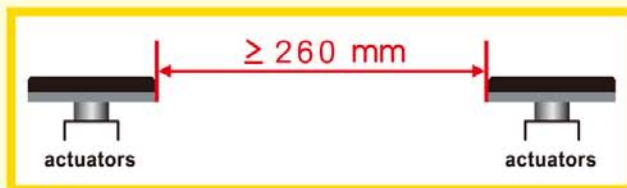


- 2.2 The tail lift should be equipped with a two-hand control device which conforms to British Standard BS EN 574 or to equivalent national/international standards or provisions. If one or both of the actuators (e.g. control buttons) are disengaged, the tail lift will stop its operation immediately.



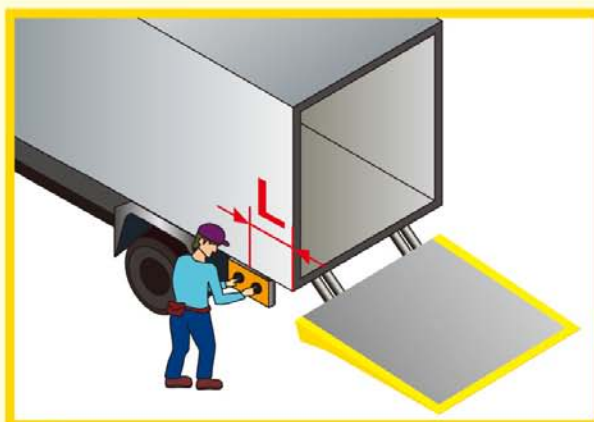
two-hand control device

- 2.3 The span of the edges of the actuators of the two-hand control device should not be less than 260 mm (see Figure 1).



**Figure 1: Span of the actuators of the two-hand control device**

- 2.4 The two-hand control device should be installed with its centre line at a distance of between 300 mm and 600 mm from the rear end of the lorry body (see "L" in Figure 2) with due regard to operational needs.



**Figure 2: Location of the two-hand control device**

- 2.5 The two-hand control device should only be installed, altered, modified, maintained and repaired by its manufacturer or agent.



- 2.6 Suitable audio and visual warning devices, such as buzzers, flashing lamps, etc., should be installed to alert workers to the trapping hazard created by the operation of tail lifts.

flashing lamps



buzzers





- 2.7 The tail lift should be equipped with an effective locking device to prevent it from accidental opening.



effective locking device



- 2.8 An effective foot protector should be installed to protect workers engaged in the loading/unloading or checking of goods against foot entrapment in the gap between the tail lift and the lorry compartment as the tail lift is ascending.



- 2.9 An effective tripping device should be installed at the rear end of the lorry body or on the tail lift to stop the operation of the tail lift immediately upon detection of any access to the dangerous trapping zone, so as to prevent any persons from being trapped.
- 2.10 The whole process of opening and closing of tail lifts should be maintained at a slow and even speed.

### 3. Administrative Control Measures

- 3.1 The tail lift, including its safety devices, should be regularly inspected by a competent person and properly maintained to ensure its safe and effective operation. Relevant records should be kept properly for reference purpose.



- 3.2 No one is allowed to go near the closing nip between the tail lift and the rear end of the lorry body when the tail lift is in operation.



- 3.3 The tail lift should be kept at its fully opened or closed position, unless loading or unloading is in progress. If inspection to the lorry compartment is required, the tail lift should be kept fully opened and remain stationary throughout the process.



- 3.4 An effective communication system should be established among the workers engaged in the loading/unloading or checking of goods, the tail lift operator and the lorry driver.



- 3.5 Warning notices should be posted in prominent positions to alert workers to the trapping hazard.



- 3.6 All the workers involved shall be provided with the necessary safety information, instruction, training and supervision.



## 4. Notes to Workers

- 4.1 Workers should take note of the safety measures set out in these Guidance Notes for the proper use of tail lifts.
- 4.2 No one is allowed to go near the closing nip between the tail lift and the rear end of the lorry body when the tail lift is in operation.
- 4.3 If inspection to the lorry compartment is required, the tail lift should be kept fully opened and remain stationary throughout the process.
- 4.4 Effective communication should be maintained among the workers engaged in the loading/unloading or checking of goods, the tail lift operator and the lorry driver.
- 4.5 In case the tail lift, including its safety devices, is found to be not functioning properly, the operation should be stopped at once and the proprietors/employers should be informed accordingly.

## 5. Other Hazards Arising from the Use of Tail Lifts

- 5.1 Apart from trapping hazard, there are other hazards arising from the operation of tail lifts, including workers falling from the tail lift or being hit by goods falling from the tail lift platform, etc. Lorry owners and proprietors/employers responsible for the loading/unloading of goods should therefore provide relevant safety measures and suitable protective devices, such as guard-rails and toe-boards, to eliminate the hazards and ensure the safety and health of workers at work.
- 5.2 Lorry owners and proprietors/employers responsible for the loading/unloading or checking of goods are also reminded to observe other government departments' requirements, such as Transport Department's regulations and guidelines. The tail lift should not be operated in such condition to cause danger to other road users. Pedestrians and other drivers should be alerted/guided during the operation of the tail lift.



## 6. References

- (i) BS EN 1756-1:2001+A1:2008 Tail lifts - Platform lifts for mounting on wheeled vehicles - Safety requirements - Part 1: Tail lifts for goods
- (ii) BS EN 574:1996+A1:2008 Safety of machinery - Two-hand control devices - Functional aspects - Principles for design

# Enquiries

If you wish to enquire about these Guidance Notes or require advice on occupational safety and health matters, please contact the Occupational Safety and Health Branch of the Labour Department through:

Telephone: 2559 2297 (auto-recording service available outside office hours)

Fax : 2915 1410

E-mail : [enquiry@labour.gov.hk](mailto:enquiry@labour.gov.hk)

Information on the services offered by the Labour Department and on major labour legislation is also available on our website at <http://www.labour.gov.hk>.

For details on the services offered by the Occupational Safety and Health Council, please call 2739 9000.

# Complaints

If you have any complaints about unsafe workplaces and work practice, please call the Labour Department's occupational safety and health complaint hotline at 2542 2172. All complaints will be treated in the strictest confidence.







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