

KES

Equipment Specification for Emergency Stop

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Contents

1. Scope of Application
 2. Equipment Type
 3. Equipment Function
 4. Equipment Specification
- Appendix



1. Scope of application

This standard shall be applied to specification of emergency stop equipment setting up to stop the machine and equipment (Stop driving instantly) not to break out any accidents for operator and matter of machine occurring on working of machine equipment.

2. Equipment type

The type of emergency stop equipment shall follow Table 1. type (specification).

Table 1.

Type	Designation
Push button	Emergency stop button device
Pull loop	Emergency stop loop device

Therefore, safety plug specification shall be specified by related attachment.

3. Equipment function

The function of emergency stop device shall be the all stop of the machine equipment.

But, in case of applying the structure standard such as press and etc, follow the law.

Therefore, the function on the specific machine equipment (Ex : Plastic molding machine, Robot, Torley-conveyor, assembly-conveyor, and etc.) shall follow agreement for the persons concerned with each part of ordering, preparations, application, preservation, and security. (Called as persons concerned below)

- Remarks**
1. All the stop shall be the stop power breaking, preparing operation using following the electric circuit of power, alarm, preparing input/ output sequence, interface.
 2. The electric contact of push button switch, limit switch shall ordinary close contact.
 3. In case of emergency stop, the equipment shall be the structure without delay

of operation starting because of contact, vibration, and etc.

4. In case of emergency stop is release, and driving is return, follow the movement operating (Sequence) of machine, equipment. Therefore, if the machinery of multi-station is generally discouraging, it shall be the circuit making possible working regularly (Follow the operation rules of 5.14 multi-station machinery in TES E 100.) such as alarming call the attention to operator, and etc.

4. Equipment specification

4.1 Emergency stop button equipment

Emergency stop button equipment shall be set up by the standard as follow 4.1.1, 4.1.2.

4.1.1 Button switch type

The button switch of emergency stop equipment shall the push button (Red color) with mushroom shape, push lock reset type, and more than 40 mm for button diameter. But, there are many case of necessity using less than 40 mm because the security of lathe space is impossible, and the persons concerned shall discuss about the type.

And, in case of using the type of setting without push lock, it shall be set up by discussing between the persons concerned.

Remarks All stop button switch setting operating parts shall be contained.

4.1.2 Setting up of button switch

The button switch of emergency stop equipment shall be fixed by thread joint, and the other method on some place, and shall be set up by the standard as follow (1) ~ (4).

- (1) The nameplate terminology of button switch shall be 'emergency stop'.
- (2) The button switch can setup every main, additional operating party of machinery. But, the simple setting by button switch box shall be excepted from application.