Particular requirements for muting

- Muting means that the two-hand control device can be disengaged without interrupting the work cycle (e.g. at the opening stroke if no risk of injury is possible).
- Only be possible when there is no risk of injury (while crushing or shearing risks are not present).
- In the presence of a fault in the muting function it shall not be possible to start the next stroke.

Particular requirements for pre-selectable two hand control operation

- No unexpected false start/auto restart caused by plugging or unplugging a two-hand control device?
- No unexpected false start/auto restart caused by pre-selecting two-hand control devices?
- The press shall operate only after all pre-selected two-hand control devices have been plugged in or attached?

Particular requirements for pluggable two-hand control devices

- No emergency stop shall be incorporated at any pluggable two-hand control devices.
- The two-hand control device shall be only possible to be used at the side of the operator (consider the length of the cable).
- The minimum distance must always be considered (constructive measures, for example distancing ring, etc.)
The position of the two-hand control device must be selected in such a way that an actuation is not possible as long as a part of the body is inside the hazardous zone!

**Particular requirements for mobile two-hand control devices:**
- The control actuating devices must be stable in case of normal use.
- When two-hand control devices are mounted on enclosures on stands, the stands shall be provided with means for avoiding a change of the position during operation (for example heavy stand support, lockable rolls, etc).
- Measures must be taken in order to maintain and monitor the required minimum distance between the two-hand control devices and the hazardous zone (e.g. fixed mounting, distancing ring)

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**List of types of two-hand control devices and minimum safety requirements**

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*) If a type I two-hand control device has been selected it has to be identified if the characteristics of a synchronous actuation and the re-creation of the starting signal can be ignored. In this case it is of special importance that the risk assessment has been made very carefully.

**Checklist for two-hand control devices**

**General**
- Follow-up movement, minimum distance at the press: indicated?
- Required minimum distance: considered?
- Is the dangerous zone visible?
- Two-hand control device: difficult to defeat (arrangement of the control elements according to EN 574)?
- Connection cable and connecting plug?
- Interruption of the stroke if a push-button is released?
- Device release monitoring (according the specified type/level)?
- Does the two-hand control device correspond to the required type according to EN 574?