

Title:	Gate Risks	ID:	
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Q:

I'm particularly interested in the risk analysis, especially as it pertains to the door mechanism at the back. I've looked at it, and it would appear that if something (like a hand or finger gets inserted in there, that there is no way to release the door). Is the motor strong enough to do any severe injury? Is this a concern? I realize that this is not meant for human access, but it is conceivable someone doing maintenance could get into this situation. Are there changes you are planning to this design?

A:

The Gate was always the first thing people addressed. The risk originating from the Gate can be considered as low because

1. The Gate is not accessed by the user in standard use.
2. The force of the Gate cannot cause severe injuries for
 - 2.1 Its torque is limited
 - 2.2 It we re-open when it stops half way
 - 2.3 The force is much less than e. g. the force of a car window (..where you are more likely to be caught)
 - 2.4 The thickness of the Gate is larger than the thickness of a car window, causing less pressure
3. The New Gate that you will get in the future uses an even smaller motor than the "old" Gate that we have been using in the cytomat

By the way, for applications where the Gate is intended for human access we equip it with a safety switch.