

APPLICATION

Ball Press



SERV TRAYVOU
INTERVERROUILLAGE



Trapped Key
Interlocks



INDUSTRY



Many end-user from the recycling sector are contacting us in order to safeguard their ball press equipment. On average 40 to 60 human actions are needed to clear, clean and maintain the equipment. The ball press is a high power equipment where human error can lead to serious injuries. Therefore, end-users require a simple, reliable and robust safety solution.

STI defined a mechanical trapped key solution :

Step A. The operator shuts down the power (or the electrical control depending on the choosen solution) which will result in releasing **KA** key from the main isolation lock.

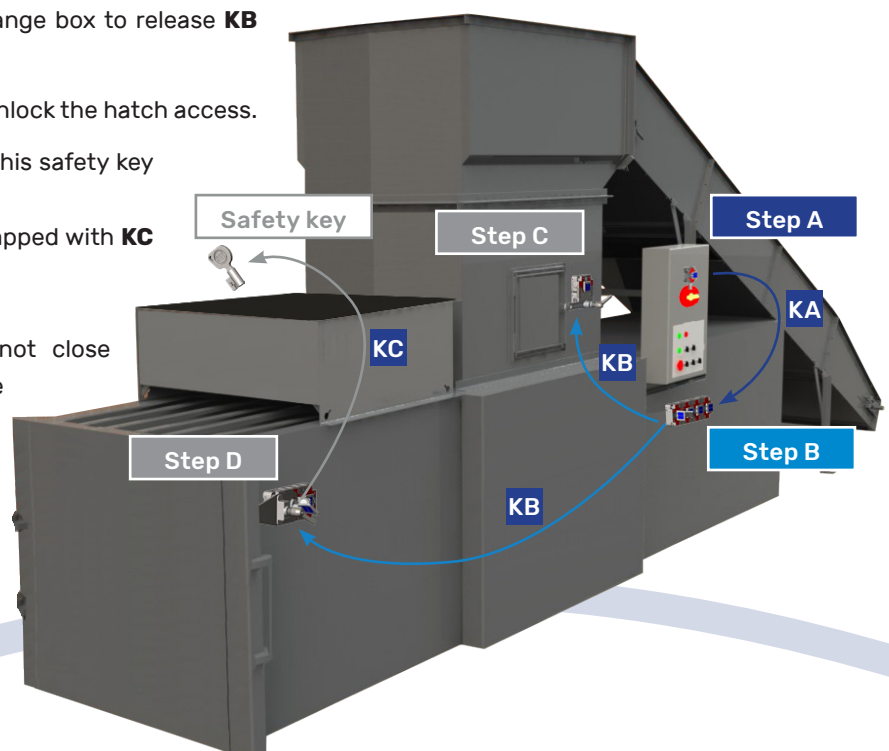
Step B. He turns & traps **KA** key in the exchange box to release **KB** access key(s)

Step C. The operator turns & traps **KB** key to unlock the hatch access.

Step D. To open the door, operator must take his safety key (**KC**) then turn the latch to open the door.

While all door locks are still opened and **KB** trapped with **KC** free, it is not possible to restart the ball press.

The moveable guards (hatches/doors) cannot close by themselves, only a voluntary action of the operator allows to lock the access points.





Our solution is simple, electricals-free & maintenance-free. It eliminates any risk of human error by forcing the operator to respect every step of a procedure without any alternative. The easy installation and use has convinced our customers.

Isolation

Power off the machine (or break off electrical circuit) to release the KA key **KA** from the main switch.



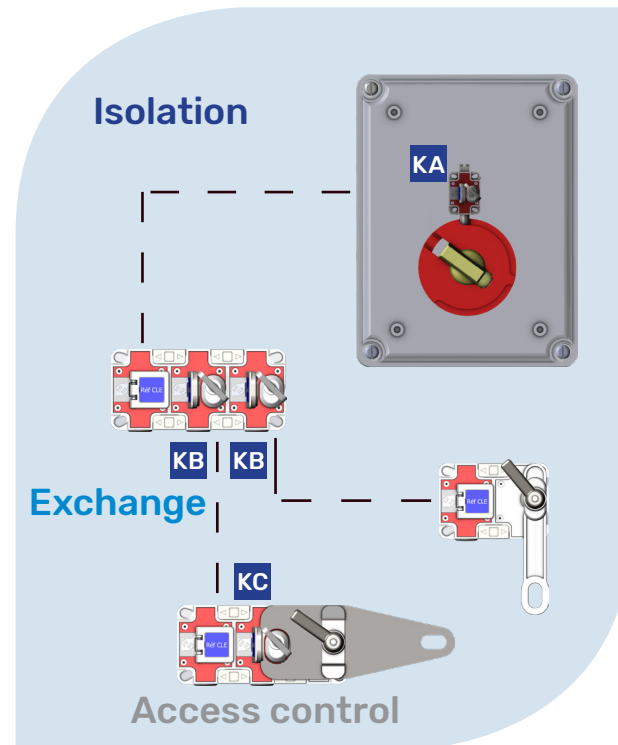
Key switch

Exchange

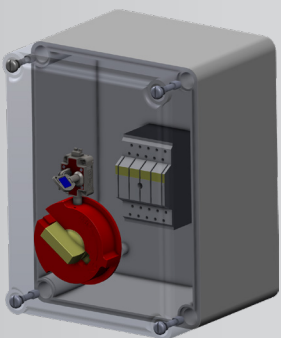
KA is taken to the key exchange box to release the access points keys (**KB**).

Access control

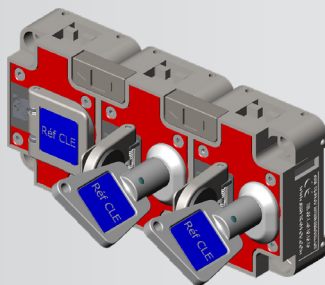
The **KB** keys allow to open the different access points. As long as they are opened, **KB** are trapped in the access locks. In full-body areas, operator is forced to release & take his safety key (**KC**) with him. This will ensure he won't be locked-up and someone accidentally restarts the machine while he's inside.



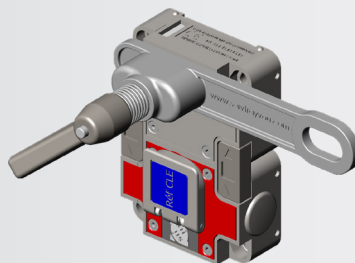
Products



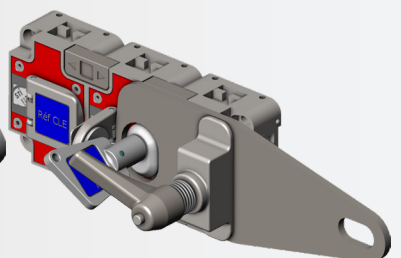
IVC Disconnecter



NX Exchange box



Access lock
NX
1 key



NX T-latch Access lock with
safety key
1 key + 1 safety key



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