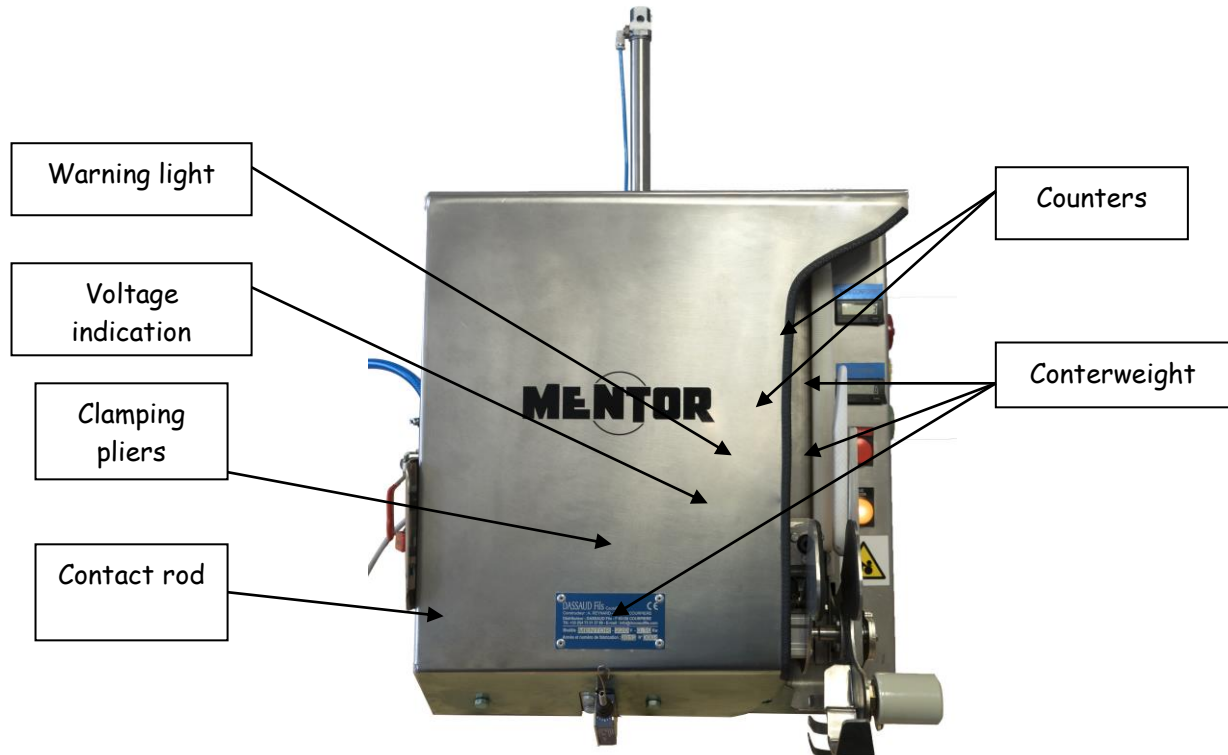


**MENTOR
CUTTING POWER CONTROL DEVICE**



Kinematics

- The device test one knife at a time
- The inspection cycle lasts approximately 15 seconds (including knife placement and removal).
- Three levels of cutting effort control :
 - Green counterweight for optimal sharpening or honing quality: cutting effort generated < 2 Kg
 - Yellow counterweight for satisfactory honing quality during use: cutting effort generated < 3 Kg
 - Red counterweight to check after use whether knife operators have exceeded the 4 kg tolerance threshold, beyond which they begin to experience significant discomfort.
- The foam strip advances automatically (3 to 4 mm per cycle).
Note : This foam behaves similarly to meat when cyut, allowing for reproducible tests.
- When the foam strip is nearly used up, the red warning light blinks, and the operator must insert a new strip.
- Any cutting effort exceeding the predetermined value will trigger the red warning light, wich will remain on until the next test.

Operating principle

- The operator inserts the knife handle into the clamp, positioning the blade's cutting edge on the rubber support.
- The operator starts the automatic cycle using the contact rod..
- The automation system clamps the handle, advance the foam, and performs the cutting test.
- The device records the number of compliant and non-compliant knives using two counters.
- At the end of the cycle, the clamp opens automatically, allowing the operator to remove the knife and replace it with a new one.
- Manual reset of the counters.