

## TE-01 Glove Cut Resistance Tester

### Purpose:

Apparatus is intended for cut resistance testing of protective gloves, safety, protective and occupational footwear and other products.

**Apparatus is made according to the requirements and apply for the tests according to the following standards:**

**EN 388; c. 6.2** Protective gloves against mechanical risks – Blade cut resistance  
**EN ISO 20344; c. 6.14** Personal protective equipment – Test methods for footwear – Determination of resistance of upper to cutting

### Description of the device:

The device consists of frame with the main switch unit, control unit with alpha numerical LC display, stand for accommodation the test specimen carrier and control specimen carrier, mechanism with a circular blade, holder of circular blade mechanism in the upper position, test specimen carrier (5 slots) and control specimen carrier (6 slots).

**Dimension:** (L) 500 x (W) 300 x (H) 250 mm;

**Weight:** 21 kg;

**Power supply:** 230 V ~ 50 Hz; 25 W



### Operating principle:

Test specimen and control specimen are cut by a counter-rotating circular blade with a diameter of  $(45 \pm 0,5)$  mm, a thickness of  $(0,3 \pm 0,03)$  mm, total cutting angle of  $30^\circ$  to  $35^\circ$  and hardness of 700 HV to 720 HV which moves with an alternating motion of 50 mm under a specified load of  $(5 \pm 0,5)$  N with counter that counts down 1/10 cycle of motion with a resulting sinusoidal cutting speed of the blade at  $(8 \pm 2)$  cm/s.