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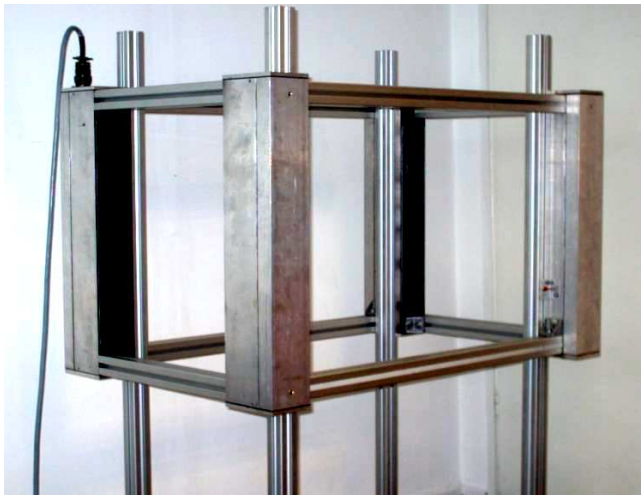
PHOTOOPTIC GATES TO MEASURE THE VELOCITY AND RATE OF FIRE

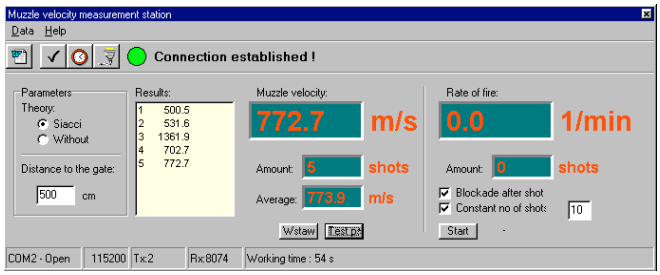


Photooptic gates are used to measure the velocity of flying bullets. There are many horizontal photooptic barriers built in the frame of the gate. A bullet flying through the target causes disruption of one or more lines, which can be detected by frame's aceptance photoelements.

An accurate measurement of time between bullet's flying throung the first gate and later on – through the second one, at fixed base (the distance) allows to calculate the average velocity on this stretch.

On the basis of a given distance from the barrel, software automatically calculates measured velocity of a bullet as a muzzle velocity, using Siacci method or 1934 theory.

Additionally, the rate of fire and statistic parameters of gunshots are calculated.



DATA SHEET

Accuracy of velocity measurement :	0.1%
Range of measured velocities:	30 ÷ 1500m/s
Range of measured calibres*:	7 ÷ 60mm
Size of active window**:	446x600mm
Size of frame:	665 x 830mm
Measurement base:	1000 ÷ 1500mm
Range of temperature***:	0 ÷ 70°C

* Optionally, we make gates for calibres higher than 4.5mm.
** Range of active field can be changed.
*** -35 ÷ +80°C on request.