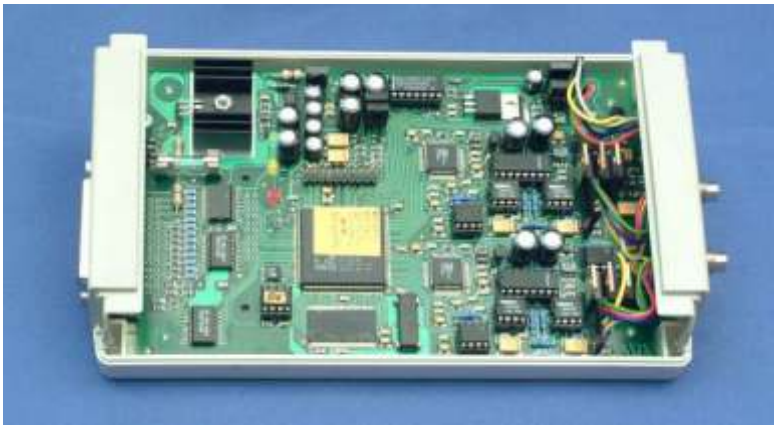
WAWEON

Warp and Weft Tension Meter

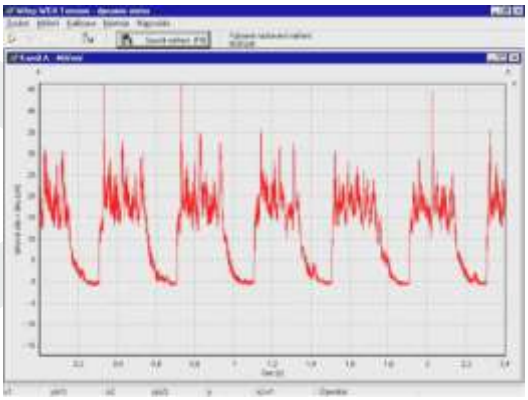
This portable measuring equipment serves with excellent warp and weft sensors for dynamic measurement of tension forces. Measuring electronic and sensors has been developed in VÚTS,a.s..



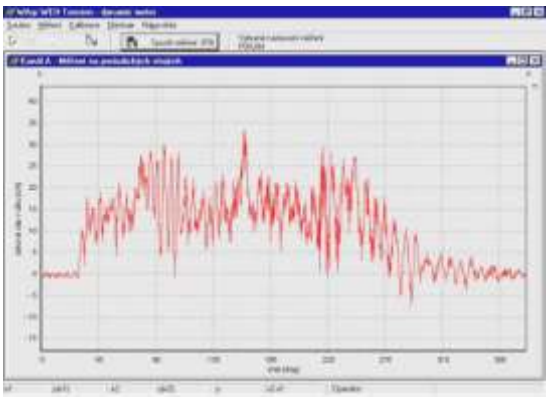
GENERAL CHARACTERISTIC

- easy connection to common personal computer through USB port
- two input channels allowed connection of two sensors
- electronic is powered by line adapter 230 V/28 V AC 50 Hz or 110 V/28 V AC 60 Hz (on request)
- wide range of graphic outputs
- measurement of periodical and non-periodical processes
- special measuring modes for weaving looms
- diagrams with time base in seconds or degrees (turning of loom's main shaft)
- statistical functions for data evaluation
- measured data can be saved, plotted or reopened for comparison with new measurement
- modern structure of measuring electronic with programmable gate array allows some additional changes by development status
- PC software has been created in Borland Delphi
- software control is simple and user friendly, contains instruction manual

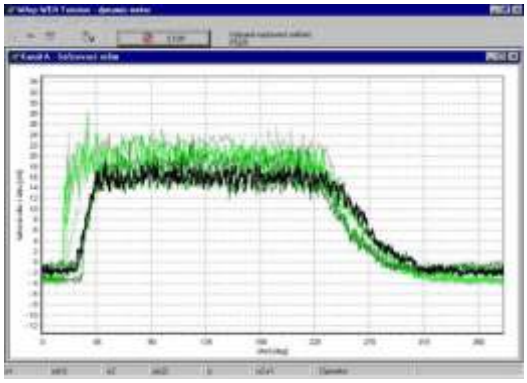
WAWEON enables to choose five basic measuring modes, but it is possible to realize some software changes by customer request. Diagrams shown below were measured on laboratory stand with pneumatic weft insertion:



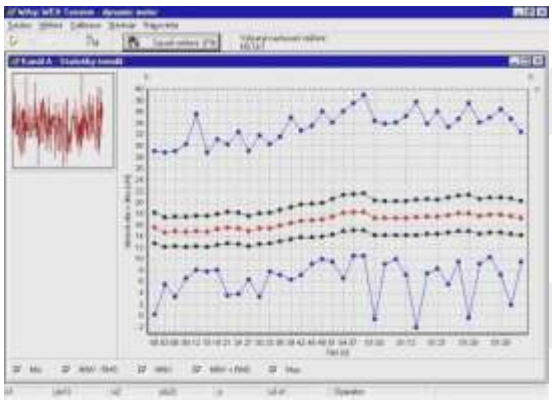
Measurement of non-periodical tension force time waveform.



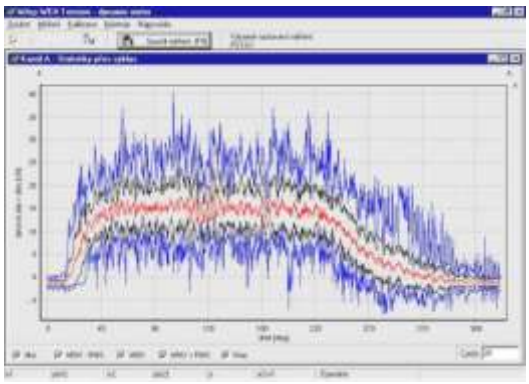
Periodical tension force in one or two periods range (turning from 0 to 360 deg or 0 to 720 deg of loom's main shaft).



Tension force waveform changing during machine adjustment 10 periods in different shades of waveform colour.



Time development of non-periodical tension force represented by mean value, mean value standard deviation, maximum and minimum values. This measurement is suitable for measuring of long-term trends of tension force.



Calculation of statistics from selectable number of machine's periods. (red mean value of tension force, black mean value standard deviation, blue minimum and maximum values of tension force)

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