

# Systems for Testing Properties of Hard Coal for coking



## The DF-7 DILATOMETER

according to ISO 349, DIN 739, ISO 8264 Standards

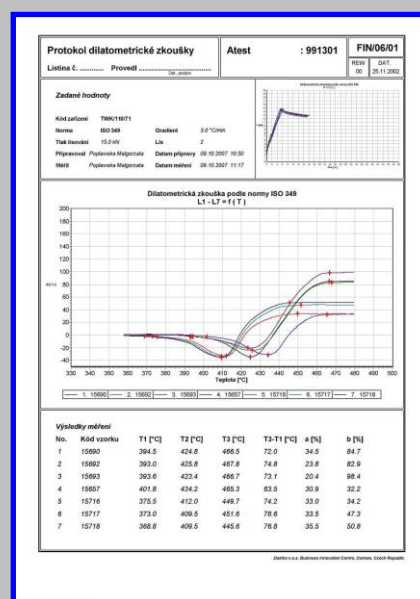
### Characteristics of the DF-7 system

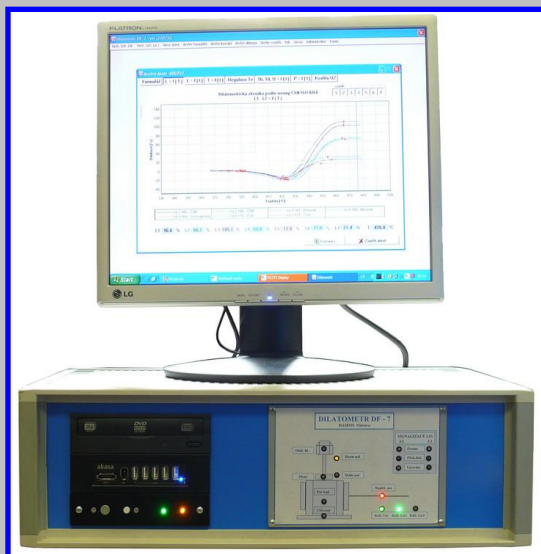
- ⇒ High productivity of measurement
- ⇒ One measuring cycle = seven samples measured at once
- ⇒ Contactless measuring of measuring pistons movement (dilatation)
- ⇒ Fully automated performance
- ⇒ One measuring cycle lasts for approx. 120 minutes



### Control software for the test

- ⇒ Course of the test controlled by an industrial computer
- ⇒ Communication via "menu"
- ⇒ Respecting of user requirements
- ⇒ Precise digital control of furnace unit
- ⇒ Registration of all activities performed by the dilatometer
- ⇒ Adjustment and monitoring of safety limits
- ⇒ Complete archiving of measured data
- ⇒ Viewing of archived information





## Real time monitoring

- ⇒ Real time monitoring of complete measuring process
- ⇒ Compensation of equipment's own dilatation
- ⇒ Auto-diagnostics of the equipment
- ⇒ Digital regulation of temperature
- ⇒ Measurement of temperature of each dilatation measuring tube
- ⇒ Computer control of the pressing force within the range 0 to 15 kN

## Manufacturing of test briquette using controlled pressing

- ⇒ Computer controlled pressing according to ISO 8264 Standard
- ⇒ Homogenisation of coal sample by controlled mixing
- ⇒ Measuring of the pressing strength by electric strain gauge
- ⇒ Pressing strength / time chart included in the test report
- ⇒ Colour print of the test report



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