



Break Force Device **BFT-150**

The ampoule break force test device BFT-150 is a proven and high-performance test device for measuring the break force of glass ampoules. The ampoules are mechanically broken and the required force is measured using a strain gauge sensor.

The required break force can be displayed and printed out in Kilopond, Newton or Libs from the device (stand alone). Alternatively, the measured values can be forwarded to the MES system MRS-Win (network solution).

The ampoule break force test device BFT-150 meets the requirements of the pharmaceutical industry for regular and documented sampling and complies with the relevant quality and certification systems such as ISO 9187-1 and 2, ISO 15378, ISO 9001, ISO 14001 etc.

Description of hardware and performance

Ampoule type: 1 – 30 ml
 Max. lift: max. 120 mm
 Search speed: ca. 10 mm/sec.
 Feed speed: Norm 10 mm/min Speed choice 2 – 60 mm/min
 Number of tests: 1 – 199
 Indication: LCD Display with 2 x 16 sign with 20 keys
 Key board: with 20 keys

Support for ampoules DIN, changeable:
 1 + 2 ml,
 3 ml, 5 ml, 10 ml
 20 – 30 ml

Force cell: DMS max. 150 N
 Force range: 15 – 150 N
 Accuracy: 1 N Resolution:0,1 N

Technical specifications

Interface: RS-232

Interface printing available for:
 client, date- time, user number, job number, line number, tolerance min. and max., test number and test value (min and max), average value and standard deviation.

Power: 220 – 240 V, 50/60 Hz

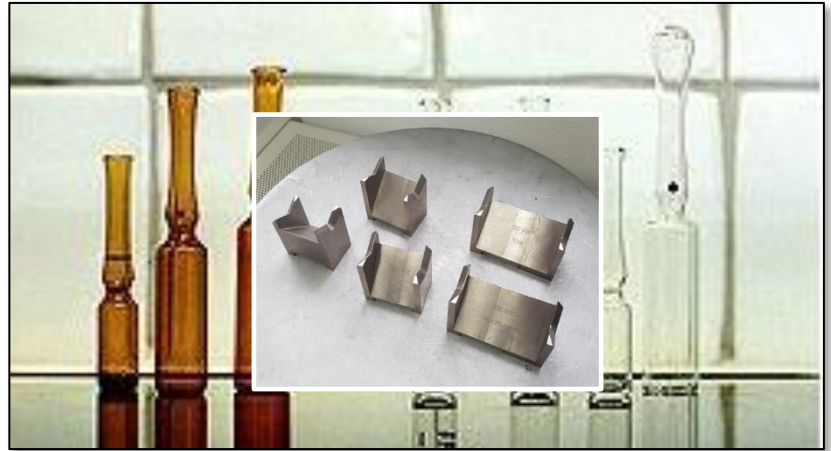
Dimensions: W 300 x H 260 x D 360 mm

Please note that some features are optional even if not specially mentioned. Modifications are without prior notice. Status: 2020-09-17-F

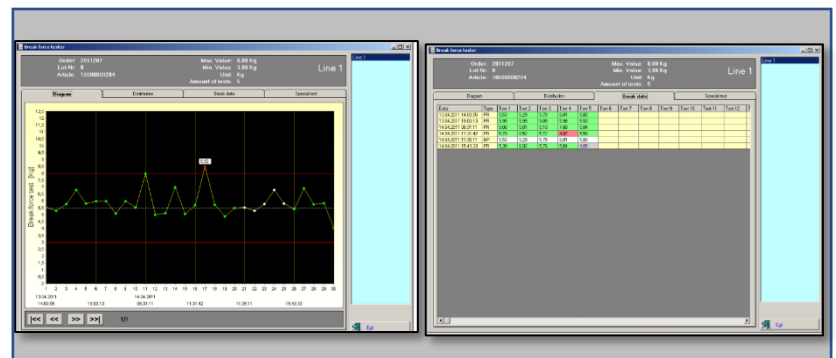
Next to the **BreakForceTester (BFT)** following solutions are offered in addition*.

- ✓ **MRS22 HotEnd Control (HEC)**
- ✓ **OPC + RingControl**
- ✓ **PrintControl**
- ✓ **FirstPiece Compensation (FPC)**
- ✓ **OPC Cutter System**
- ✓ **MES-System MRS-Win**

*As complete provider of Hot- and ColdEnd inspection plus networking system, there is only one data interface for all data from the complete ampoule production line. **The signal exchange between all participants creates a maximum of data transparency.**



There are suitable matrices for different ampoule lengths, which guarantee a defined and controlled breaking of the ampoules



Every sample is recorded digitally and forwarded to the MES system MRS-Win to be documented and analyzed. Following data are available:

- Date / Time
- Type of break force test (PR -> normal test, NP -> Retest)
- Break force values (green -> good, red -> bad, white -> Retest)
- User identification
- Device code

Interfaces to other MES Systems are also possible