Test&Motion
Application Module

BA 23

Bending test according to EN 14488-5

Version 1.0 (State 20.05.2016)

DOLI Elektronik GmbH

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Contents:

1 Introduction

Dear customer, thank you for choosing a product of **DOLI Elektronik GmbH**. **Test&Motion** is a modern application for the operating systems Microsoft Windows XP/7/8/10©.

This manual does not deal with the **Test&Motion software** in general but with the application module BA 23 in particular. Hence, it is recommended to read the **Test&Motion** application manual in order to get familiar with the software. Please follow the demands and safety hints listed in the manual!

1.1 Symbols

The different symbols in this manual will allow you to find your way more easily.

Table 1: Symbols and their meaning.

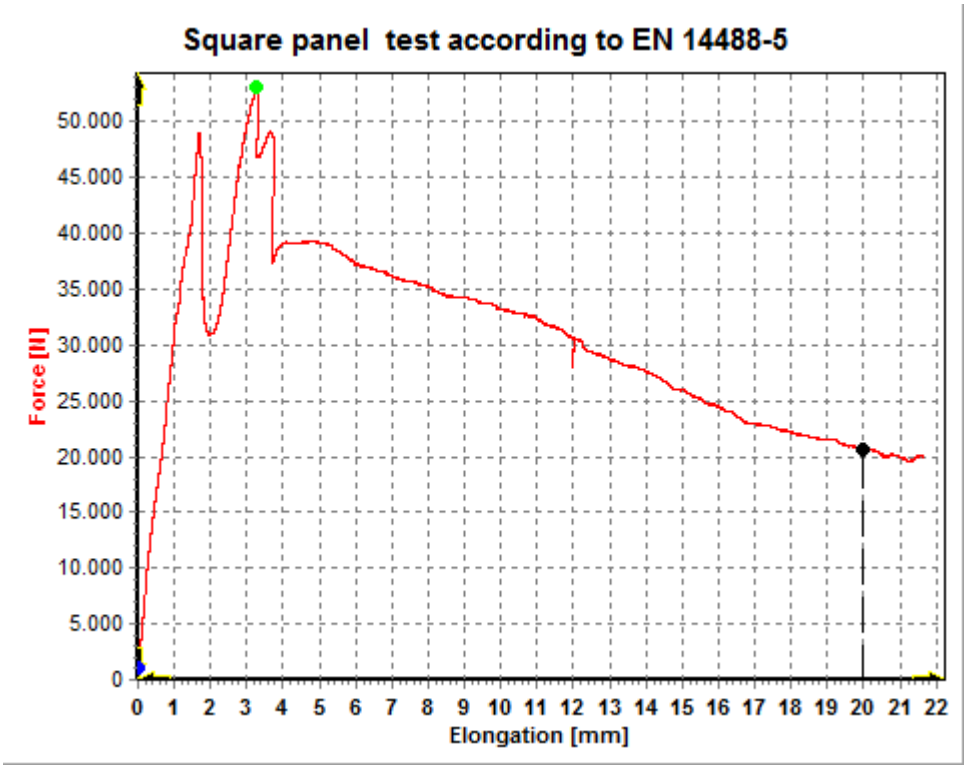
Symbol	Meaning
	**Safety Instructions:** **In order to avoid interruptions in the work flow as well as damages to man and machine, follow the safety instructions at all cost.**
	**Job/work instructions:** **Instructive part of the document with precise work instructions.** **Here you are asked to do something.**
	**Information:** **General information and descriptions of working procedures, etc.**
	**Note:** **Important note for the operation, the function or for the working procedures.**
	**Tip:** **Gives tips for easy handling of the Test&Motion Software, the EDCs or the testing instrument.**

2 BA 23 - Bending test according to EN 14488-5

2.1 Field of application

Testing sprayed concrete. Determination of energy absorption capacity of fibre reinforced slab specimens.

2.2 Test graphic BA 23



2.3 Input values for test BA 23

Table 1: Input values for test BA 23

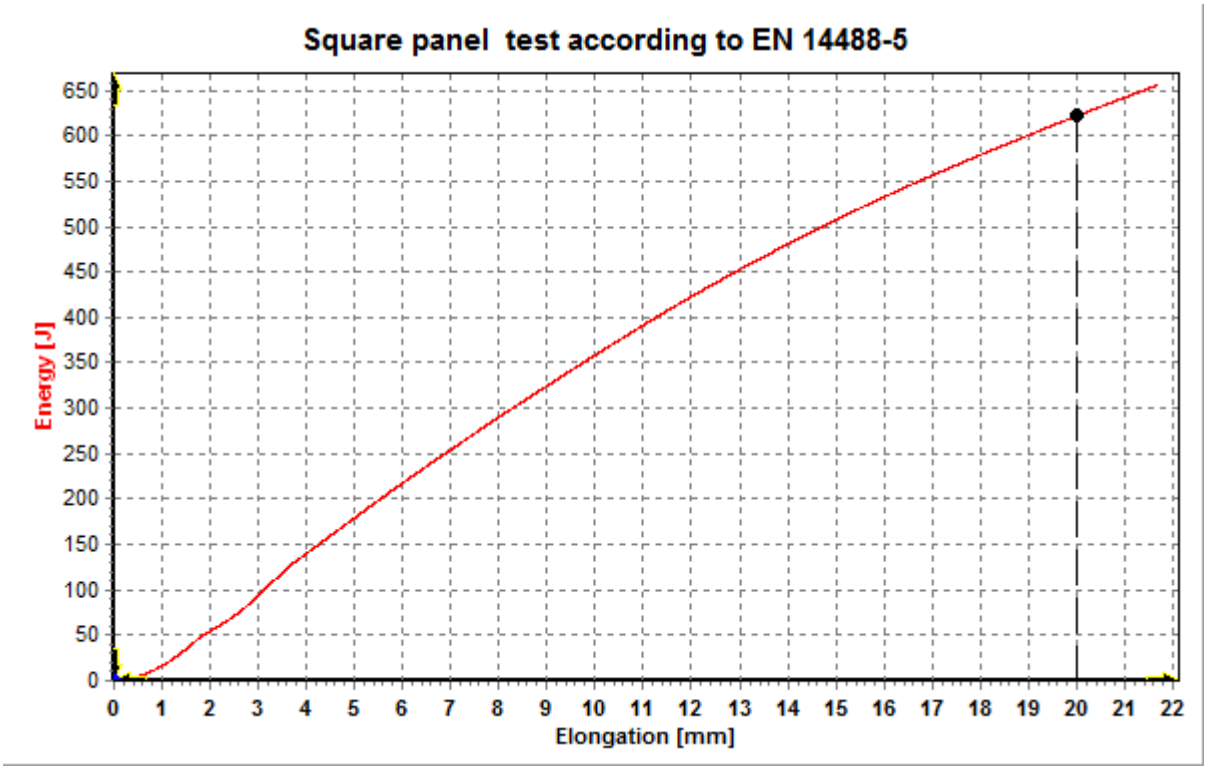
Parameter	Meaning	Dimension
L1	Deflection for calculation of energy absorption	[mm]

2.4 Results BA 23

Table 2: Results of test BA 23

Result	Meaning	Dimension
Fh	Maximum load	[kN]
E_L1	Energy absorption from 0 to L1	[J]

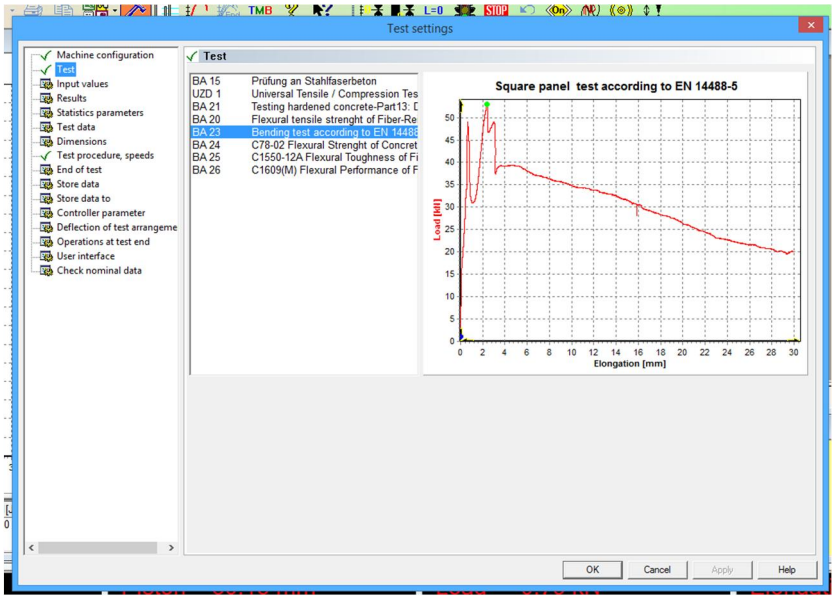
2.5 Hints



3 Carry out test

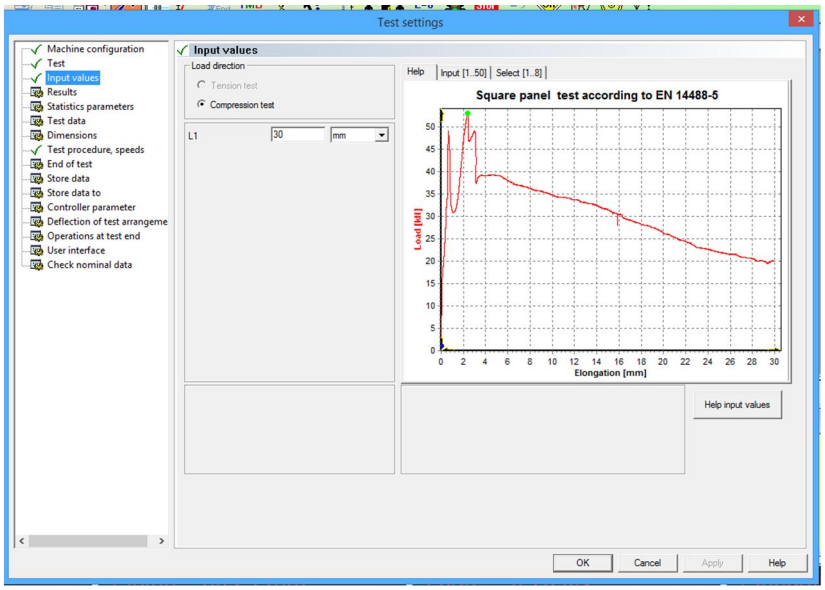
3.1 Selection of basic test

Select test procedure from list of available tests or load a parameter file (SVL) for that test.



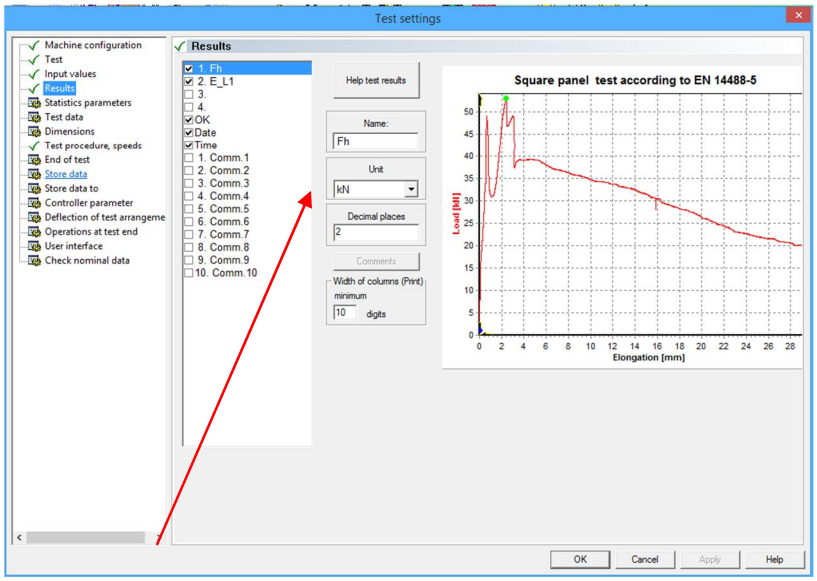
3.2 Enter input data

Here you can enter test data acc. table 1.



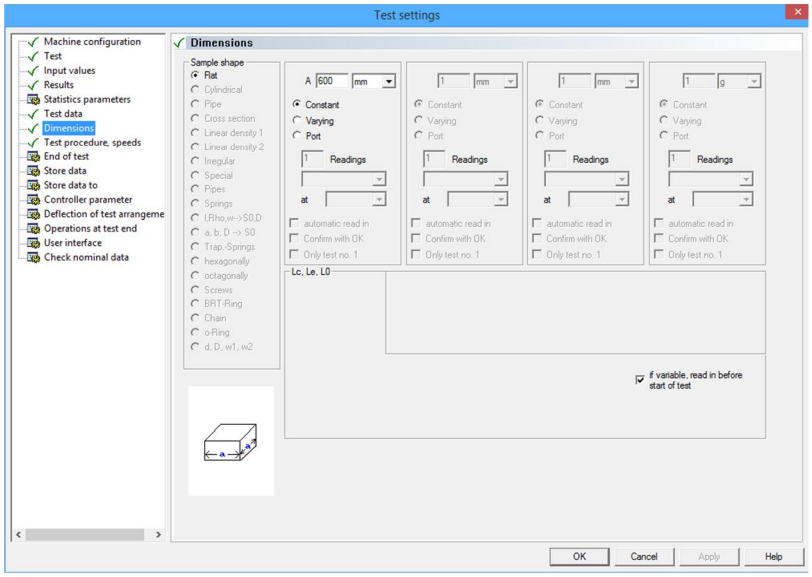
3.3 Define test results

In this dialog you can activate the required test results and define their dimensions and number of digits.



3.4 Enter sample dimensions

Please enter here the values for sample side length (a).

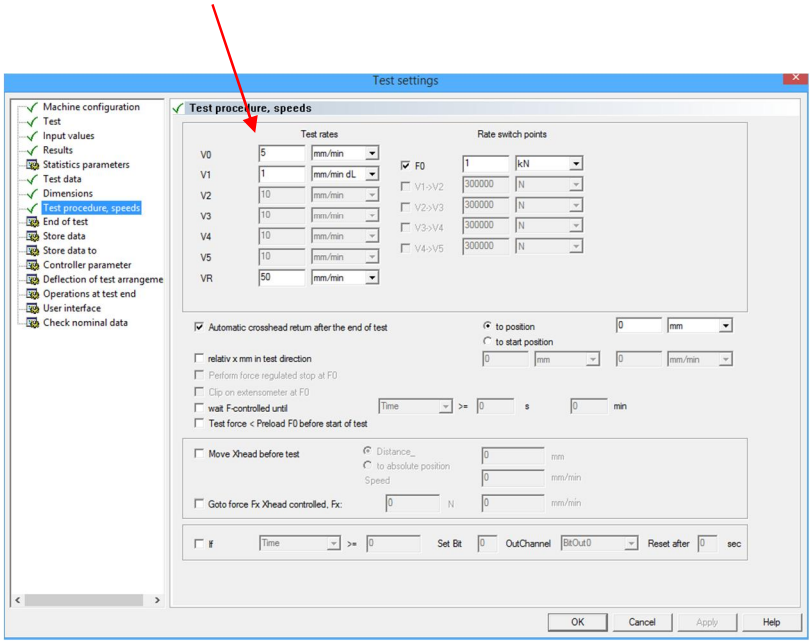


3.5 Enter test speeds

Definition of test speeds and switching points according standard.

We start with speed v0 = 5 mm/min (xhead controlled) until preload 1 kN reached.

After reaching preload we continue with speed v1 = 1 mm/min dL (elongation controlled).



3.6 Definiton of test end criterions

The test will be terminated if elongation = 30 mm is reached. According standard we need 20 mm elongation.