

Armfield's **F1-aBASIC software** is now included as standard with either of the hydraulic benches. The Armfield software is a powerful manual data entry learning package which enhances the educational content and understanding of Armfield's F1 Fluid Mechanics accessories that utilise either of the F1-10 Hydraulics benches.

The software allows the user to manually input data from primary instrumentation and offers a powerful tool for displaying and processing the results.

Software additionally includes the electronic version of the manual for all the modules on test.

Some of the major features include:

Mimic Diagram - a pictorial representation of the equipment with fields to enter measurements from the equipment which displays any calculated variables directly in engineering units.

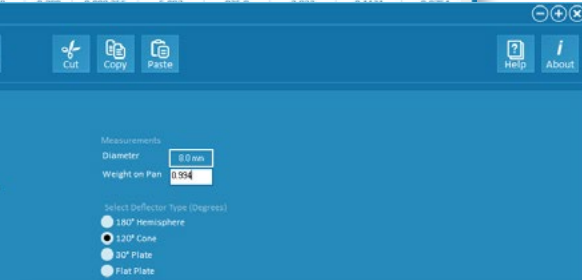
Tabular Display - As the data is entered, it is stored in a spreadsheet format. The table also contains columns for the calculated values.

Graphical Display - When several samples have been recorded, they can be viewed in graphical format. Powerful and flexible graph plotting tools are available in the software allowing the user full choice over what is displayed.

Tabular Display

Nozzle Diameter d [m]	Deflector Type	Volume Collected V [m³]	Time to Collect t [s]	Applied Mass m [kg]	Flow Rate Q _t [m³/s]	Velocity v [m/s]	Velocity Squared v² [m²/s²]	Applied Force W [N]	Slope From Experiment	Slope From Theory
0.008	120° Cone	0.028 000	51.16	0.000	0.000 547	10.888	118.6	0.000	0.0000	0.0794
0.008	120° Cone	0.030 000	51.16	0.895	0.000 586	11.666	136.1	8.780	0.0645	0.0754
0.008	120° Cone	0.028 000	57.44	0.895	0.000 487	9.698	94.0	8.780	0.0934	0.0754
0.008	120° Cone	0.028 000	58.91	0.696	0.000 475	9.456	89.4	6.828	0.0764	0.0754
0.008	120° Cone	0.025 000	59.03	0.696	0.000 434	8.426	71.0	6.828	0.0962	0.0754
0.008	120° Cone	0.020 000	54.94	0.597	0.000 351	6.988	48.8	5.837	0.1199	0.0754
0.008	120° Cone	0.018 000	60.59	0.398	0.000 297	5.91	34.9	3.904	0.1118	0.0754

Mimic Diagram



Graphical Display



Impact of a Jet F1-16