

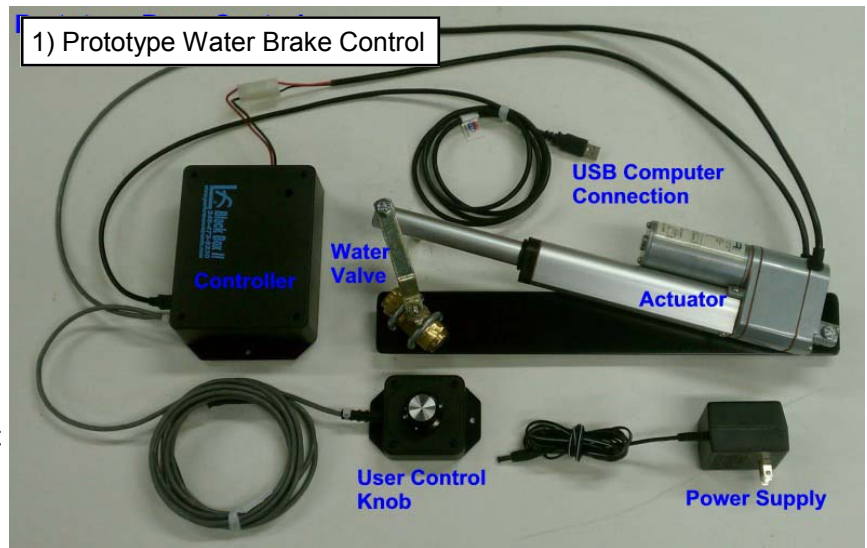
# 2013: Latest News



**Prototype Dyno Controllers** lets you control your water brake or eddy current dyno when dyno testing with our Dyno DataMite USB loggers. These are still prototype, but our feedback is they are very effective. Call for more info for your particular application.

**Dyno DataMite Enterprise Edition** includes several new, advanced features, which include:

- Read and record vehicle OBD2 data while dyno testing. Fig 3.
- Average 2 or more dyno runs together for more reliable comparison graphs of different conditions or modifications.
- Include vehicle coastdown losses after a power test to better estimate flywheel torque and HP.



**Shock Dyno** was developed to handle forces up to 1500 lbs and strokes up to 3 inches. Fig 5. Additional features include

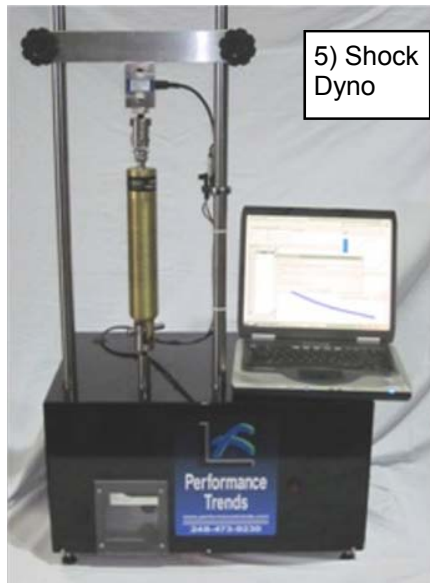
- 1.5HP, 110 VAC motor (ideal for most trailers and generators). 220 VAC also available. Fig 4.
- Up to **3" stroke and 20"/second** shock velocity.
- Handles forces up to **1500 lbs**.
- Optional shock temperature sensor.
- USB computer interface
- Software compatible with Win XP, Vista, Win 7, Win 8.

Advanced Plus version of software also available, which includes reversing motor direction via computer, cycle until a specified shock temperature is reached before testing, graphing results before and during testing, and more advanced graph types.

We've spent a lot of time designing the Shock Dyno to be able to handle the high forces of the high "tie down" shocks popular in circle track racing. We've actually busted a shock during development of the dyno, with no damage to the dyno. Fig 4. We have very high confidence in the durability of our dyno.



**High Force Option** for our Automatic Spring Tester provides forces up to **2500 lbs** with 130 psi air pressure. Fig 6. This option has proven to be very popular in top Drag Racing classes. In fact, one Pro Stock team found a defective spring during testing. This happened during the pre-test "bull



4) Our Shock Dyno is Tough!

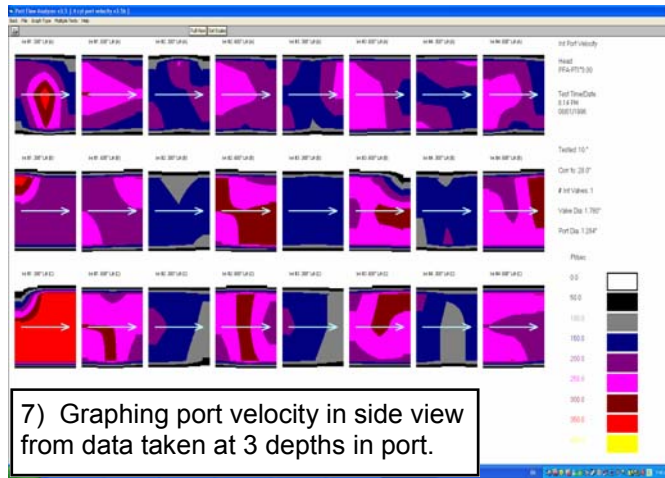
5) Shock Dyno

6) Automatic Spring Tester

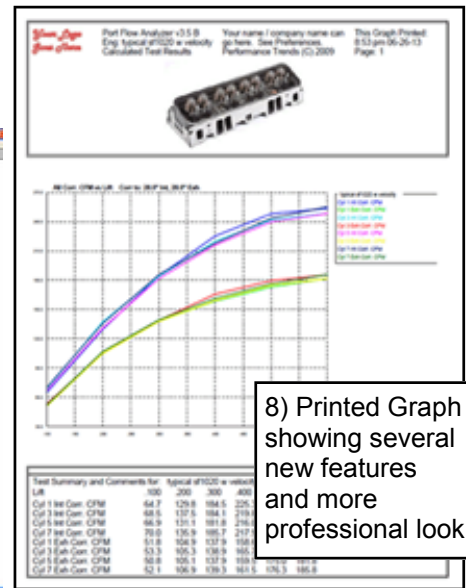
nose” (compress into bind) cycles before the actual data recording test. The spring actually broke during testing from a material defect, which was much better than breaking out on the track.

### Port Flow Analyzer v3.5 B Released

We've added features to our popular flow bench program, including the ability to control flow bench depression (test pressure). In addition, we're adding a more advanced "Head Porter" version, which allows for more advanced types of graphs (Fig 8), and recording many more velocity points for more complete "port mapping", including graphics of how the flow changes as going down the port toward the valve. Fig 7.



7) Graphing port velocity in side view from data taken at 3 depths in port.



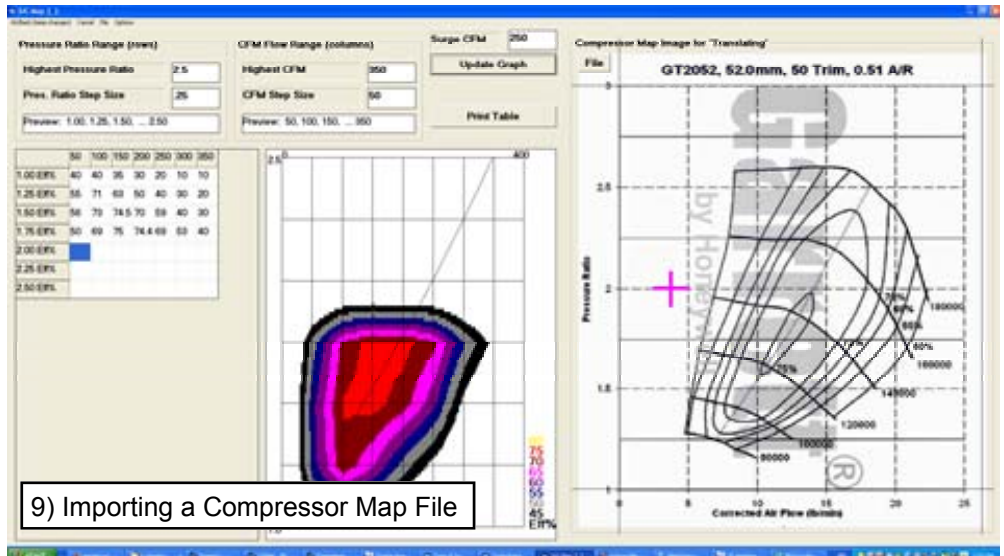
8) Printed Graph showing several new features and more professional look

### Engine Analyzer Pro Enterprise Edition

We've added some new features to the EA Pro Enterprise Edition, the most significant being able to import a turbo compressor map file. Once imported, a cross hair is drawn on the image for each data point you enter in the table. This makes creating map files much easier and more accurate. Fig 9.

### Quick Cam Checker

lets you check timing on your cam quickly and easily, without having to find TDC or set up a degree wheel. Fig 1. Using a smart microprocessor and inexpensive sensors, you can find centerlines while just cranking the engine over. Other data like lift, duration at .050", etc included. Change the pressure sensor to a lift sensor and now you can find timing on an engine stand. No computer needed, but it can send results to free Windows software via USB.



9) Importing a Compressor Map File

### A/F Checker

lets you check the calibration of UEGO A/F sensors in an actual A/F environment of propane and compressed air (or other gasses). Fig 2. This goes way beyond a simple "free air" calibration. You set a certain condition and read the A/F on the checker and see if you're A/F sensor matches it. Analog output also available so you can track the checker's A/F on your logger at same time as the A/F sensor being checked.

Watch our website and get on our newsletter mailing list for info on new products.



1) Cam Checker



2) A/F Checker