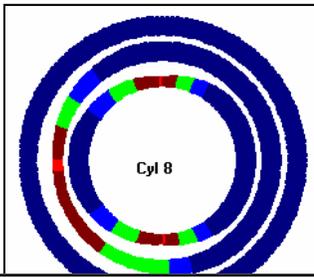


# PRI 2005: Latest News

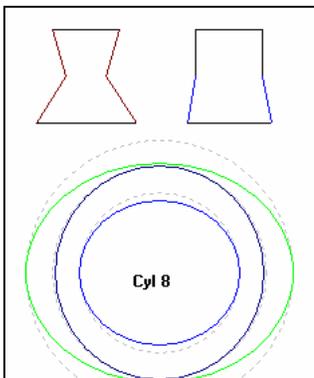


## New and Updated Software

**Engine Build Log Book** was released back in June, 2005. This program is truly a "must have" for any engine builder. It lets you keep track of all those engine build dimensions, part numbers, measurements, and even calculations like clearances, compression ratio, piston-to-valve clearance and much more. Whether its just for a cylinder head, rotating assembly, or machined block, or a complete engine with dyno data, leakdown and compression, the program can adapt to your needs. Customers have made several suggestions for improvements, like allowing for more measurements for individual parts. You can just enter one cylinder bore and piston skirt diameter, and calculate one



Portion of Bore Thickness (sonic check) Graph



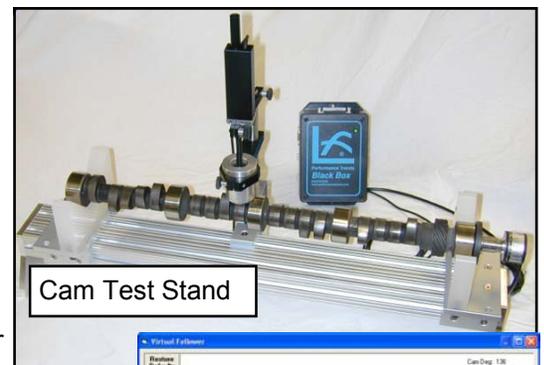
Portion of Bore Out-of-Round and Taper Graph

clearance, or you can enter all bores at different depths and orientations, all piston skirt diameters and calculate max and min clearance for all cylinders.

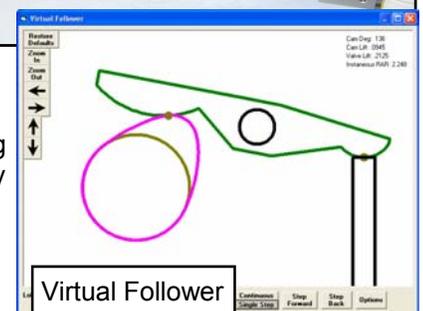
**Cam Analyzer Updates** have been released to take advantage of the new Cam Test Stand. You can accurately measure all 16 lobes on a V-8 cam in 5 minutes. One major new feature (not yet released) is the Virtual Follower, which lets you measure most any cam and then simulate 4 different follower types (2 are OHC types) to get the actual tappet or valve lift curve.

**Circle Track Analyzer v3.5 Update** to our popular v3.2 has been released as a preliminary "beta" version. It includes some new features to automatically find a "balanced" configuration, new options for adjusting corner weights, new graph/report options, new calculations like front tire scrub, Symmetric, Angled 4 Link rear suspension option, and much more.

**Other New and Updated Programs coming** include our new Circle Track Log Book, major updates to Suspension Analyzer v2.0 and Engine Analyzer Pro v3.5. Many of our other programs have had minor updates, most are free as downloads from our website, including: Dyno DataMite, Road Race/Circle Track DataMite (both for our data loggers), Practice Tree, Fuel Injector Calculator, Engine Analyzer, Engine Analyzer



Cam Test Stand



Virtual Follower

Plus, and Drag Racing Analyzer.

# Data Loggers and Sensors

**Black Box II and DataMite II** software has been refined to make recording both faster and more reliable for dyno, flow bench, weather station and valve spring testing. We've also added new sensors for both data loggers, including a new RPM optical sensor and infra red tire temperature sensor.

**A/F Gauge** has been introduced which displays A/F directly on the gauge (no computer needed). It can also be connected to a computer (laptop in a vehicle) to record A/F continuously via the COM serial port or USB port via an adapter with our **FREE software**. The gauge also has a 0-5 and 0-1 volt output for recording with our Black Box and DataMite data loggers, or for EFI controllers. This is truly a versatile instrument, and to top it off, it has just been reduced in price to **\$329** from \$419.

**Thermocouple Recorder** has been introduced which connects to a computer (laptop in a vehicle) to record up to 4 temperatures continuously via the COM serial port or USB port via an adapter with our **FREE software**. Used with our Dual USB adapter and you can **record 8 temperatures**, like exhaust gas temps, for **under \$850** with your type K thermocouples. It can also be used as a thermocouple signal conditioner (amp), to convert 4 0-5 volt channels in a Black Box II or DataMite II to thermocouple channels.

**Circle Track Analyzer v3.5**

Find Front Lat Load Dist: 44.7  
 Current Rear Roll Center Ht: 16.69  
 New Front Lat Load Dist: 50.0  
 New Rear Roll Center Ht: 14.83

Suspension Specs: Type: Symmetric Angled 4 Link

Spring Rates, lb/in	Left: 200	Right: 200
Tire to Centerline, in	30.0	30
Spring to Centerline, in	17	17
Spring Angle, deg	0	0
Spring to Axle, in	0	0
Axle to Front Pivot, in	11.5	19
Axle to Rear Pivot, in	1	0

4 Link Side View: A: 4.5, 17; B: 13.5, 16.5; D: 22, 8; E: 17, 8.5

Find Front/Rear Balance

**A/F Gauge**

Time: 39.4 sec

Start <F1> Stop <F2>

Free A/F Software

Export Data To Notepad

**Thermocouple Data Logger**

Comments let you record details

Free Thermocouple Software

File options let you start New, Save, Rename, Export or Open past tests.

Options let you change scales of graphs or switch to Deg C.

Tabular data can be exported as ASCII data

Thermocouple Recorder

Trace recorder shows trends. Click on a point to highlight that data in table and bar graph above.

