2004, New From Performance Trends

Been a Long Time!

on

It's been about 4 years since our last mass mailing, and a lot has changed. We've got many new products, and most all programs have had major updates. We're now using monthly email newsletters to keep customers informed. Our website, www.performancetrends.com, has brochures and downloadable demos of most all products, user's manuals in PDF format, readme.txt files describing the most recent changes, past email newsletters (click on "What's New"), and much more. To stay informed, send us your email address in an email requesting our newsletter. Also see the back page of this flyer to purchase a Demo CD of all products for \$5.

Also, you can visit our booths 829-831 at the Performance Racing Industry (PRI) trade show in Indianapolis, Dec 9-11. Call 949-499-5413 to make your reservations.

Product Line Summary

Engine Building Tools	
Cam Analyzer v3.2 *	\$ 119.95
Compression Ratio Calculator v2.0 *	29.95
Dyno Data Analyzer v1.1 DOS Engine Analyzer v3.2 *	199.00
Engine Analyzer v3.2 Plus *	109.95
Engine Analyzer 'Pro' v3.3 *	199.00
Fuel Injector Calculator v1.1	469.00 39.95
Port Flow Analyzer v3.0 E Basic *	249.00
Port Flow Analyzer v3.0 E Pro *	449.00
Swirl Meter with direction, average/max/min	749.00
Swirl Meter above + computer analog output	899.00
Valve Spring Testers & Kits (starting at)	499.00
Drag Racing Tools	
4 Link Calculator v2.0 * Drag Racing Analyzer v3.2 *	79.95
Drag Racing Analyzer '9:2' Drag Racing Analyzer 'Pro' v2.0 *	79.95
Drag Racing Analyzer 'Pro' v2.0 –Team Engr. *	229.00
Practice Tree v2.0 Windows *	329.00 39.95
Circle Track/Road Race Tools	39.93
Circle Track Analyzer v3.2 *	149.95
Lap Timer v1.1	69.95
Lap Mileage/Pit Stop Predictor	99.95
Roll Center Calculator v2.0 *	79.95
Suspension Analyzer v1.1 Basic Suspension Analyzer v1.1 Full Vehicle	249.00
Suspension Spring Tester & Kits (starting at)	399.00
Transmission Gear Calculator v2.0 *	799.00
Transmission Gear Calculator v2.0 Plus *	49.95 99.95
Other Programs	99.90
Fuel Economy Calculator v1.1	79.95
Rotating Inertia Calculator v1.1	39.95
Performance Analyzer v1.1 DOS	119.95
Data Loggers	
Black Box Data Logger for Spring Tester,	350.00
Weather Station, Cam Tester, Flow Bench Testing, EZ Flow System (starting at)	
DataMite 4 channel system (starting at) *	FF0 00
DataMite II 30 channel system (starting at) *	559.00 1199.00
EZ Flow Flow Bench Kit (starting at)	899.00
Wide Band UEGO A/F Sensor System	399.00
	555.56

Updates have been released for most all our programs, as shown in the Product Line Summary at the lower left. These updates include 32 bit programming for more compatibility with new operating systems (Windows XP, NT, 2000) and printers. Updates also include many new features and new example parts and files. For many of our smaller programs (under \$70 but also including the 4 Link Calculator), the updates are free by just downloading the latest demo from the website. Type your name the same as the first time and the

same unlock code will unlock it. For other programs, the

now come on CDs, and no longer run on Windows 3.1.

updates will cost from \$20 to \$65. All our Windows programs

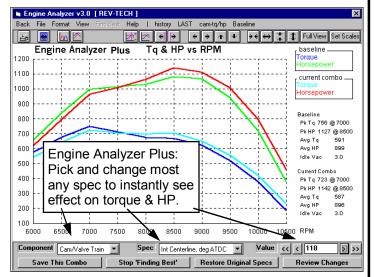
Upgrades are also possible, giving you discounts if you move up to more advanced programs. Some of these upgrade discounts include:

Upgrade from:	То:	For	Save
Engine Analyzer	Eng. Anlzr Plus	\$99	\$90
Engine Analyzer	Eng. Anlzr. Pro	394	\$75
Engine Anlzr. Plus	Eng. Anlzr. Pro	329	140
Roll Center Calc.	Circle Track An.	115	35
Roll Center Calc.	Susp. Anzr.	184	65
Circle Track Anzr.	Susp. Anzr.	184	65
4 Link Calc.	Susp. Anzr. FV	\$334	65
Drag Racing Anzr.	DrgRacAnzr Pro	\$184	45

Call Performance Trends at 248-473-9230 for details.

Major changes

Engine Analyzer There is now a middle range Engine Analyzer, the Plus. It adds 10 major features to the standard version. All versions (std, Plus and Pro) now have many new example parts and complete engine files, new graphing features, time saving features, filing features, several new ease-of-use features, and Auto-Linking to most vehicle programs. Auto-Linking runs a vehicle program with each new Engine Analyzer power curve and displays the vehicle results for the



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*Indicates an update is available, some FREE.

Box 530164, Livonia, MI 48153

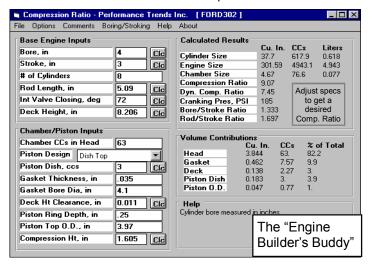
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248-442-7750 (fax)

Performance Trends reserves the right to change or discontinue any product at any time.

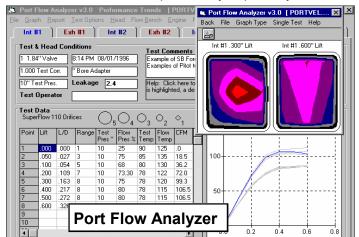
new power curve, either ET and MPH or Lap Times. New, powerful optimize features to automatically find the best cam specs, port volumes, etc are in the new standard and Plus versions (2 methods in Plus).

Engine Building Tools Our popular Compression Ratio Calculator program does many engine building calculations in addition to detailed compression ratio.



Fuel Injector Calculator lets you estimate electronic fuel injector requirements from various engine details.

Our Port Flow Analyzer is probably the most popular flow bench software available, being used by most all Nextel Cup teams, drag race engine builders, and manufacturers like Lotus, Harley Davidson, Mercury Marine, Chrysler, and many more. Port Flow Analyzer links to SuperFlow's ™ FlowCom or our Black Box to computerize your flow bench testing for major gains in accuracy and time savings. It also reads our Swirl Meter/Tumble Fixture, does port velocity maps, analysis with



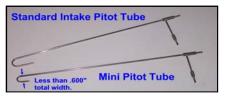
cam profiles, averaging, correcting to most any test pressure, comparison plots and reports, and more. Port Flow Analyzer can also be linked with a special version of our Black Box to build our **EZ Flow flow bench**. Our kit comes with complete plans, some critical machined pieces like a SB Chevy/SB Ford bore adapter, electronics and software for \$899. It gives nearly



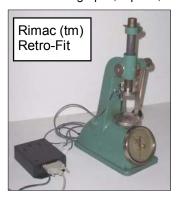
identical results as SuperFlow benches and runs much faster. You can flow a port at 7 lifts in about 2 minutes, with results that repeat within 1 CFM.

Other flow bench tools are available like intake and exhaust Pitot

Tubes, including our Mini Intake. This is the smallest tube we've seen, letting you test small, short ports like Harleys and Briggs.



The Valve Spring Tester is a new product line. The simplest version is just Windows computer software to analyze Power Tech ™ spring tester files for \$249. We have an electronic interface for the Power Tech [™] tester and software for \$549. and electronics and sensors for a Rimac ™ spring tester starting at \$499. Order our complete Valve Spring Tester with electronic load cell, 3" spring height sensor, and Plus version of software for graphs, reports, averaging, and more for \$1599.





Drag Racing Tools have all been updated to 32 bit versions. The **Practice Tree** now has a more realistic screen and options to trigger of external hand or foot switches. All Drag Racing Analyzers will Auto-Link to all the latest versions of Engine Analyzer for automatic determinations of ET and

MPH from engine modifications. The **Drag Race** Analyzer Pro can interface to the Black Box weather station for highly accurate. real time Dial In and Throttle Stop

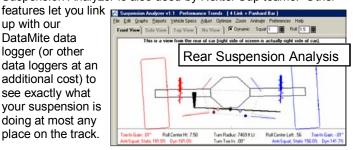
predictions.



The **Team Engineer** version has a very detailed centrifugal clutch library and simulation, and also lets you overlay your data logger data with simulation data.

Circle Track/Road Race Tools have also all been updated to 32 bit versions. New programs include our fully 3 dimensional, Suspension Analyzer. It's available in \$249 Standard (front end only) and \$399 Full Vehicle versions (front and rear suspensions, rocker arm springs, and more). Suspension Analyzer is also used by Nextel Cup teams. Other

up with our DataMite data logger (or other data loggers at an additional cost) to see exactly what your suspension is doing at most any place on the track.



Circle Track Analyzer includes some new features including the Auto-Linking (see Drag Racing Tools above) and virtual scales to let you adjust springs and cross weight change.

We've also added a couple of new programs, Lap/Segment Timer (a detailed, computerized stop watch) and Lap Mileage Pit Stop Predictor (for Busch and Nextel Cup teams who need to keep detailed records on fuel usage and predict how many laps are in the tank.

Our **Trans Gear Calculator** is used by road racers, transmission shops, and chassis builders. It lets you calculate MPH from RPM or RPM from MPH in most any form you can imagine. The Plus version adds even more features.

Our Suspension (Coil) Spring Tester (like Valve Spring Tester) is available a kit for \$799 to computerize a spring tester you already have, or as a complete stand for \$1299.

Coil Spring Tester

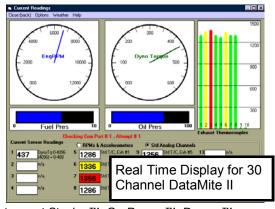
Other Programs Removing weight from a rotating component gives a bigger benefit than the same weight from non-rotating component. The **Rotating Inertia Calculator** lets you check just how large this effect is for various size components with different gear ratios, tire size, etc.

Fuel Economy Calculator is the most detailed program to predict the effect vehicle and engine modifications have on vehicle fuel economy. This program also Auto-Links to our Engine Analyzers to instantly check engine mods for MPG.

Data Loggers are available as either our Black Box or our DataMites. The Black Box applications have been discussed in the previous sections concerning EZ Flow flow bench, spring testers, etc. The DataMites will be discussed here. DataMites come in either a 4 channel or 30 channel version. The 30 channel DataMite II can be configured different ways, with 16 channels available as unused, analog inputs (like pressure, position, RTD temps, A/F, torque, etc), or thermocouple inputs (temperatures). Different software turns the DataMites into different types of data loggers.

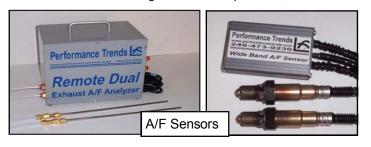
Dyno DataMite

lets you computerize your inertia or brake dyno, either engine or chassis dyno. We've sold over 300 systems worldwide, for home made (custom)



dynos, or to instrument Stuska ™, Go-Power ™, Depac ™, Land & Sea ™, Clayton ™, DynoJet ™ and other lesser known brands. Call us for a quote on your dyno. It's the most productive, time saving investment you ever make.

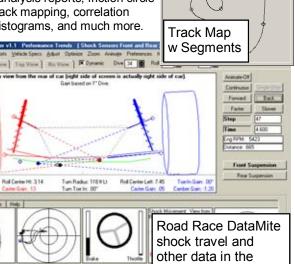
Drag Race DataMite lets you add sensors to your drag race vehicle to record things like A/F, fuel pressure, converter/



clutch/tire slip, EGTs, distance, MPH, transmission and engine temperatures, segment times, and much more. The Pro version of the software also includes a full log book with carb jet recommendations, and commands to send shock sensor data to our 4 Link Calculator or Suspension Analyzer to visualize what the bump steer, roll steer, pinion angle, anti-squat, instant center, and much more are doing during launch and down the track. There are definitely more expensive data loggers, but none more powerful for this type of detailed analysis. The program is also user friendly with automatic zeroing out of start time for easy overlay graphs and reports, segment analysis reports, dual cursors for analysis, time shifting on the graphs, histogram graphs, more.

Road Race/Circle Track DataMite lets you add sensors to your race vehicle to record things like throttle and

brake, shock travel and velocity, lateral and longitudinal Gs, engine readings like the Drag Race version, gear # and gear ratio, converter/clutch/tire slippage, and more. Detailed analysis is available with graphs, reports, segment analysis reports, friction circle graphs, track mapping, correlation reports, histograms, and much more.



Suspension Analyzer for detailed analysis.

New sensors are also available for the DataMite like the Wide Band A/F sensors (single or dual systems). A Remote Sampler can be purchased, great for chassis dynos. A clamp on Inductive Pickup, optical RPM sensors, less expensive pressure sensors, Stuska ™ dyno RPM sensors, and spark timing measurement have also been developed.

Upcoming Products include:

Log Book for Road Race/Circle Track racing and Drag Racing.

Cam Measurement electronics for updating your Cam Dr ™ or a

complete system with stand with a more advanced version of Cam Analyzer software.

As always, we appreciate your feedback on new systems and features you need. The best way to stay up to date is to



get us your email address to start receiving our email Monthly Newsletter. Send an email to requesting the newsletter to feedback@performancetrends.com with your email address.



★ To order a new product, demo CD or update, call 248-473-9230 !

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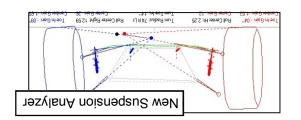
Check Program Update You are Ordering	Disk to Return * (proof of purch)	Cost	Check Progra		Disk to Return * (proof of purch)	Cost	
☐ Cam Analyzer v3.2	CA v2.0	\$ 30	☐ Circle Track /	Analyzer v3.2	CTA v2.0	\$ 30	
□ Drag Racing Analyzer v3.2	DRA v3.0	25	Drag Rac An	yzr Pro v2.0	DR Pro v1.1 DOS	40	
☐ Engine Analyzer v3.2	EA v3.0	35	Engine Analy	zer Plus v3.2	EA+ v3.2	45	
☐ Engine Analyzer Pro v3.3	EA Pro v2.1	65	Engine Analy	zer Plus v3.2	EA+ v3.2	45	
☐ Port Flow Analyzer v3.0 E	PFA v3.0 (A-D)	35	□ Roll Center C	alc v2.0	RCC v1.1	30	
□ Demo CD of All Products	None	5	□ Printed Users	Manuals (ca	ll for details)	??	
Sub Total (add cost of all updat	es ordered, user's ma	ınuals, upo	dating from even olde	r versions, etc	.)		
Michigan residents add 6% sale	es tax (multiply Sub To	otal by .06)				
Shipping (for CDs only: \$2 for	US, \$3 for Canada, \$5	for all oth	ner countries. Call for	shipping for u	iser's manuals)		
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* Disk to Return is the version of the program you are updating from, and is required to prove original ownership. If you have an even older version than what is listed as Disk to Return above, call 248-473-9230 for the price of that update. If you want to upgrade to a bigger program, like from Engine Analyzer v3.0 to Engine Analyzer Plus v3.2, call Performance Trends for details. Also, user manuals come as Adobe Acrobat ™ files for most programs on the CD. However, printed manuals are available. Speed up your orders with Visa, Mastercard, Am Exp or Discover. Fax a photo copy of your old original disk (the Disk to Return listed above) to 248-442-7750 with your credit card #, exp date and your name as it appears on the card, shipping address and phone, or preferably your email address if we have any questions. You can also email the information with a digital image of the disk to feedback@performancetrends.com. Either way, we'll get your order going right away.							
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