

The load opacity test bench for heavy vehicles is a very useful tool in workshops, automotive mechanical technology centers and automobile inspection centers, as it is designed to prevent, locate and investigate possible ignition and injection problems as well as for the improvement of fuel consumption and measurements of vehicle gas emissions under load.

The RY-3200 AH partial flow SMOKEMETER is a device prepared to meet the requirements of the UNE 82503, DIN 57411 and SAE J1677 USA / Canada, ISO 11614 standards.

The mechanics is constituted by a monocoque steel frame that houses four rollers of Ø 350 mm. Of which the front rollers are coated with Tungsten Carbide, to improve the adhesion of the vehicle and avoid the wear of the rollers.

Rollers installed on bearings and an electric brake with high energy absorption. In addition, to facilitate the access and exit of the vehicle, it has a pneumatically actuated locking lifting mechanism.

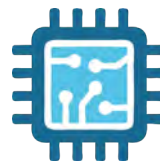
Maximum axle load 16 tn.

Inertia
Mechanics
aprox. 1.160 kg

Max./min. track width 2.680 / 800 mm.

Traction 2WD

Electronics



Best Processors

New high-speed processor
Increase the response and process of each vehicle test



Modular System

All the electronics is expandable. Special design for automotive and technical inspection of vehicles designed by Ryme

ANTES
AHORA

Flash Memory

New memory 4 times faster

ANTES
AHORA

RAM memory

New memory 16 times faster



Standard Equipment

- Bench with load opacity
- Control cabinet
- Test control by using a remote control
- Smoke analyzer module
- Tungsten carbide coated front rollers (2 pcs.)
- Simulation of loads using the electric Foucault brake
- Weather station
- Fan installed on the brake for its cooling
- Central lift system with automatic roller lock for easy vehicle exit

Software

- High precision speed pulse measurement system
- Data acquisition board
- PID control of the electric bank brake. Maintains stable braking torque regardless of possible disturbances
- Sending and processing data and graphics in real time
- Possibility of sending encrypted data to the server using the AES encryption method (Advanced Encryption Standard)
- 100% compatible with management systems and databases
- Assigning permissions to different user levels
- Possibility of assigning the results obtained to a vehicle plate before or after each test
- Customization of the test duration to the minimum and/or maximum time to optimize working time
- Intuitive, simple and fast configuration software
- Graphical and numerical display of results
- Very intuitive control software guided by graphic icons
- Common database (on network as well as in local mode) that's allows us to save all client and vehicle data and have easy access to them to be able to make comparisons between old and new tests.
- Customized advertising on screen
- Database that allows to store cards with customer and vehicle data. All tests are registered and easy to search.
- Translation module through which the user can translate the program into their own language
- Connection RS232



Software



More Productive
Repetition of partial tests



Safer
Ryme application can encrypt data, make them safer



More Intuitive
Incorporation of graphic icons. RYME applications share the same menus..



More Compatible
Compatibility with more than 95% of the database management systems on the market today, ORACLE, SQL SERVER, Postgre, SQLite, etc. OS support for 32 and 64 Bits and with Android, Windows...



Online support
Possibility of remote connection from our technicians with your equipment
Consult conditions



More Reliable & Precise
Improvement in the process of calibrating the main board Allows the adjustment of the weighing and force calibration to very precise values.



Software adaptations

Possibility of analysis and study, under budget, for adaptation to new regulations in any region and/or country

Mechanics



Epoxy Paint

Powder-coated finish ensures optimal and long-lasting protection



Perfect Fit Assembly

Mechanical design using Perfect-Fit, which guarantees the assembly and perfect final finish on all our equipment



High adherence rollers

Roller coating with our own technology, which provides optimal adhesion even in adverse conditions and high durability



Strongest Gearmotors

Tested for durability to ensure optimum performance

Technical Data Dyno

Maximum axle load	16 tn
Track width max. / min.	2.680 / 800 mm.
Roller length	960 mm.
Roller diameter	360 mm.
Distance between centers	504 mm.

Inertia Mechanics aprox.	1.160 Kg
Máx. Test Speed	0 - 300 km./h.
Potencia máx. medible	600 kW. 800 cv.
Tensión Power Supply	400 V. 50 Hz.
Lifting and locking system	Pneumatic

Technical Data Smokemeter RY-3200AH

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Measurement range and Resolution

MEASUREMENT	RANGE	RESOLUTION
N	0-100 %	0,1 %
K	0,00 a 9,99 m -1	0,01 m -1



Dimensions

Bench dimensions	3.785 x 1.012 x 1.000 mm.
Packed bench dimensions	4.050 x 1.100 x 1.200 mm.
Bench weight	2.400 kg
Packed bench weight	2.600 kg

Cabinet dimensions	730 x 600 x 1.800 mm.
Packed cabinet dimensions	900 x 900 x 1.690 mm.
Cabinet weight	120 Kg
Packed cabinet weight	200 Kg

Optional Equipment

	Multi-function wireless device, keyboard, mouse and remote control
GEN-EIN	Computer equipment
GEN-IMP	Printer
GEN-TD	Data display terminal
GEN-STD	Second Data display terminal
	GEN-EST Voltage Stabilizer
	GEN-4WO Free rollers portable for front axle traction vehicle
	Freewheel kit for vehicles with front axle traction
	GEN-VEN Vehicle cooling fan. Features: Threephasic, 5,500 W power, 12,4 A current. Air flow 25,000 m3 / h

BP-PES30	Calibration weight 30 kg.
BP-PAL	Calibration lever
 RY3	R.P.M. and Accessories kit for r.p.m. measurement
 GEN-SSA	Software for sending encrypted and non-encrypted measurements that guarantees the saving of the results of each test and their sending to the management program even in possible power cuts or other...

Optional Cabinets

	PREMIUM CABINET Cabinet only Dimensions: 730 x 600 x 1.800 mm..
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