

The FRL light vehicle brake tester is designed for light vehicles of up to 3,500 kg of MMA, and supports loads of up to 4 Tn. per axle on the road. Its main task is to carry out a quick and efficient verification of the operational status of the braking control on the vehicle, accurately measuring the maximum braking on the front and rear axles, hand brake, as well as the existing ovality in the discs and drums of the braking system.

The equipment has independent motors to drive the rollers. It also incorporates safety systems that detect the presence of the vehicle during the entire test and the loss of wheel adherence at the time of measurement. The indication is independent on each wheel.

A computer takes care of controlling the entire measuring system and machine operation. Control can be by keyboard, mouse or remote control and data display is graphical and numerical and even by needles. The indication is independent on each wheel.

Max load per axle to the step **4 Tn.**

Motor 2x **4,6 Kw.**

Maximum Track Width **2.220 mm.**

Minimum Track Width **855 mm.**

Electronics



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



RAM memory
New memory 16 times faster



Connections
Ethernet (TCP-IP) / RS-232 connection on the main board



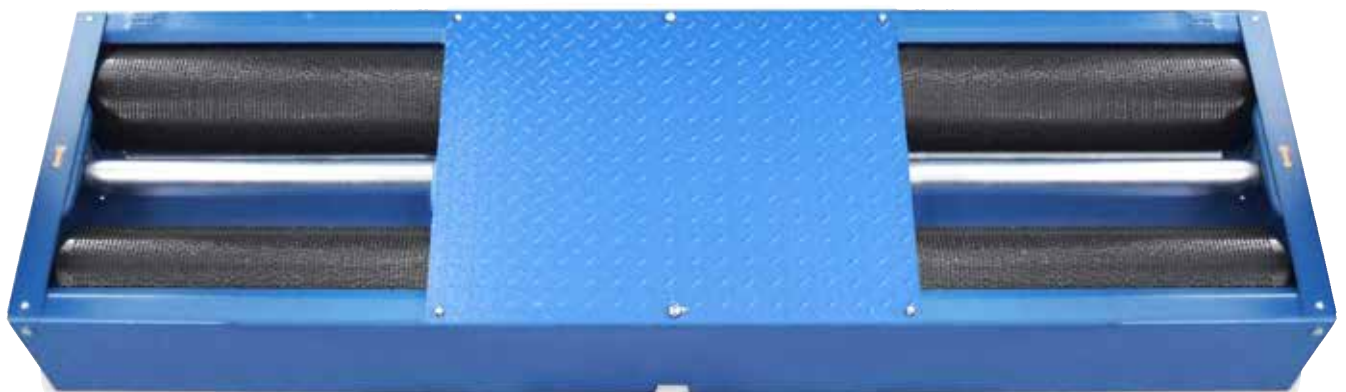
Flash Memory
New memory 4 times faster

Modular System
All electronics are expandable.
Specially designed for automotive and vehicle inspection centers



Standard Equipment

- Brake roller bench
- Control cabinet
- Electronic control & software
- Electric blockage of rollers to facilitate the vehicle entry/exit
- Remote control for test control
- Rollers coated in welded steel or synthetic fiber



Software

- Automatic 4WD vehicle detection
- 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)
- Braking lock difference less than 20 ms
- 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
- Intuitive, simple and fast configuration software
- Graphical and numerical display of results
- Customization of the test duration to the minimum and/or maximum time to optimize working time
- Self test of auto-zero in the beginning of each test
- 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.
- Translation module which the user will be able to translate the program into his own language or modify any sentence or word on it..
- Customized advertising on screen
- Test control by using a remote control
- Carrying out a test for each individual wheel for differential observation per individual wheel
- Automatic slip cut-off: new system for measuring the slip, the safety of the tyre is considerably increased, taking into account the performance of the engine in the lowering of the rolling speed
- Possibility of repetition and independent analysis of each wheel
- Possibility of automatic or manual start and stop
- Strain gauge measurement system
- Measurement display with error less than 1%.
- Manual entry of the vehicle weight
- Communication USB / RS232 / Ethernet (TCP-IP) Protocol
- Calibration software
- Software for automatic operation



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

Maximum load per step	4 Tn
Drive Motors	2 x 4,6 kW
Test Speed	5,7 km / h.
Maximum Track Width	2.220 mm.
Minimum Track Width	855 mm.
Voltage	400 V. 50 Hz. Threephasic
Protection Fuse	3 x 25 A
Thermal Protector	2 x 12,5 A

Roll diameter	202 mm.
Length of the rollers	685 mm.
Useful length of the rollers welded steel / Synthetic fiber	685 mm.
Distance between centers	400 mm.
Friction coefficient	0,9 dry 0,7 wet
Measurement Ranges	0 - 6 kN
Range of measurement	10 N
Measurement indication error	1 %

Dimensions

Bench dimensions	2.320 x 680 x 285 mm.
Packed bench dimensions	2.400 x 800 x 520 mm.
Bench weight	445 Kg
Packed bench weight	495 Kg

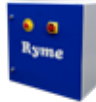
Cabinet dimensions	620 x 510 x 1.660 mm.
Packed cabinet dimensions	800 x 600 x 1.580 mm.
Cabinet weight	55 Kg
Packed cabinet weight	80 Kg

Optional Equipment

		Multi-function wireless device, keyboard, mouse and remote control
	KIT AL	Integration kit side slip aligner
	KIT BSU	Integration kit suspension bench
	GEN-EIN	Computer equipment
	GEN-IMP	Printer
	GEN-TD	Data display terminal
	GEN-STD	Second Data display terminal
	GEN-EST	Voltage Stabilizer
	FRL-SA	Delayed static retarder
	FRL-SA230	Delayed static retarder 230 V.
	GEN-230	Power supply 230 V. Threephasic
	GEN-60HZ	Power supply 60 Hz
	FRL-BAS	Weighing scale for vehicle axles (4 cells)
	FRL-RAS	Access ramps for floor mounting without civil works
	GEN-DPR	Pedal dynamometer with wireless PC communication. Includes wireless receiver and software

	FRM-DMR	Wireless handheld dynamometer
	FRL-4WD	Autoportable set of rollers for 4WD vehicles (4 units)
	FRL KPM	Software and mechanical kit to develop test on motorbikes
	FRL-EPR	Roller covers platform (2 units)
	GEN-PES6	Calibration weight 6 kg
	GEN-PES10	Calibration weight 10 kg
	GEN-PES30	Calibration weight 30 kg
	GEN-PAL2	Calibration lever
	FRL-BOC	Civil work frame
	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...

Other versions

	FRL-KIT	Electronic box with software and mechanical frames Dimensions of the electronic box: 600 x 600 x 210 mm.
---	---------	---

Other Cabinet

	GEN-MC PREMIUM CABINET Cabinet only Dimensions: 730 x 600 x 1.800 mm.		CABINET SCREEN DUPLICATION Cabinet only Dimensions: 720 x 420 x 1.850 mm.
---	---	---	---