

POWER BENCHES

The moped Inertial dynamometer bench is a very useful tool for inspection centers and workshops as it determines the power and torque based on the engine's speed of rotation. It also allows diagnosing the status of the moped speed limiter.

The bench is made up of a monocoque steel frame that houses two 150 mm rollers. mounted on bearings with very low resistance to rotation.

The dynamometer bench, likewise, has a 200 mm inertia simulation wheel. The speed measurement is obtained through an incremental encoder mounted on the axis of the front roller. Locking the rear roller in different positions makes it easy to test for different wheel sizes.

PATENTED

Maximum axle load	250 kg
Max test speed	120 km/h.
Roller wheelbase	360 mm.

We can check the power on scooters, enduros, minibikes, etc ...

Machine with which it is possible to achieve a high inertia value thanks to the triple roller system, two small and one larger connected to each other. Measuring scooters as they behave in reality.

It is essential to have a large mass to be able to simulate the acceleration as it really is, with which we obtain the same results as in road tests.

ADVANTAGES: Small, flat, easy to handle equipment, fast and precise measurements and integrated rollers.

Electronics



Latest generation processor

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

ANTES
AHORA



RAM memory

New memory 16 times faster



Ethernet

Connections

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

ANTES
AHORA

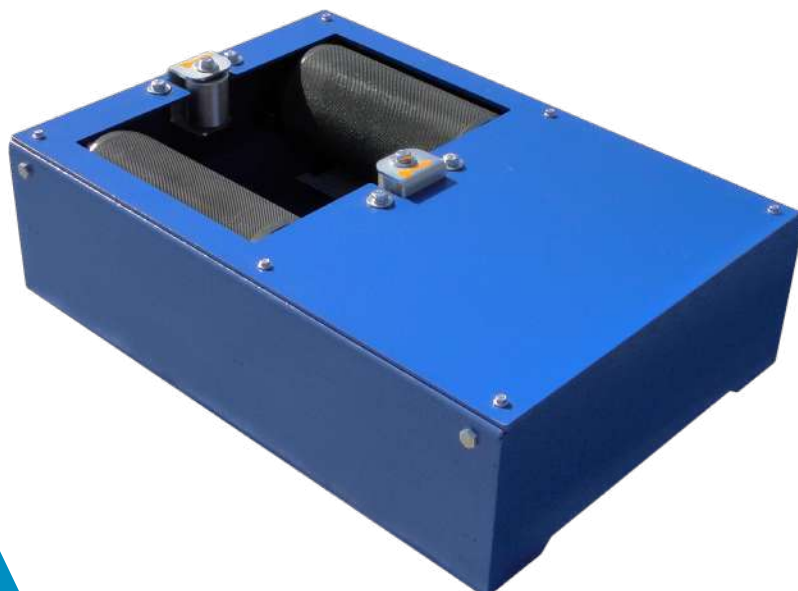


Flash Memory

New memory 4 times faster

Modular System

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



Debido a la continua evolución de nuestros productos, las características técnicas y de diseño podrían estar sujetas a modificaciones, sin previo aviso.

Standard Equipment

- Inertial dynamometer bench
- Control cabinet
- Electronic control & software
- Remote control for test control

Software

- 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
- Measurement of speed, time and space.
- Maximum speed measurement for one minute
- Configurable vehicle parameters
- 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.
- Ethernet communication (TCP-IP protocol).
- 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



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 Garmotors
Tested for durability to ensure optimum performance



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

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.

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Technical Data

Maximum axle load	250 Kg
Maximum test speed	120 km/h
Max. power	25 kw. (34 CV.) Dynamic
Rollers diameter	150 mm.
Length of the rollers	300 mm.
Inertial Roller Diameter	200 mm.
Wheelbase Roller	360 mm.
Roller inertia	282 Kg * cm ²

Dimensions

Bench dimensions	760 x 540 x 220 mm.
Packed bench dimensions	800 x 600 x 400 mm.
Bench weight	150 Kg
Packed bench weight	180 Kg

Cabinet dimensions	720 x 420 x 1.850 mm.
Packed cabinet dimensions	800 x 600 x 1.580 mm.
Cabinet weight	80 Kg
Packed cabinet weight	100 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-STD	Second Data display terminal
	GEN-SRA	Automatic front clamp for wheel fixing

	GEN-SRA	Automatic front clamp for wheel fixing
	GEN-PNS	Pneumatic front wheel clamp 800 x 1.040 x 90 mm.
	BPCIV-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

	BPCIV-KIT	Electronic box with software and mechanical frames Dimensions of the electronic box: 600 x 600 x 300 mm.
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Other Cabinet

	GEN-MC	PREMIUM CABINET Cabinet only Dimensions: 730 x 600 x 1.800 mm.
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The BP-NET Inertial dyno is a very useful tool in automotive Mechanics workshops and technology centers, among others, since it is designed to prevent, locate and investigate possible vehicle problems.

Its function is to determine the power and torque based on the rotational speed of the vehicle's engine graphically and numerically.

Dyno consists of a steel frame monocoque housing four rollers 352 mm. mounted on bearings. The two front rollers are knurled and linked together by a transmission. They present a Friction coefficient Pneumatic-roller of 0.8. The other two rollers are smooth and rotate freely.

The speed measurement is obtained through an incremental encoder mounted on the axis of the front rollers.

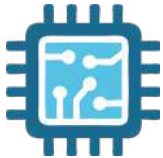
Thanks to the encoder resolution, we have a high reading precision ± 0.1 km / h.

The bench, likewise, has a pneumatically operated lifting mechanism that, together with a brake-lock system for the rollers, facilitates access and exit of the vehicle to the bench. The maximum lifting force of said mechanism is 4,000 Kg on axis at 8 bar pressure.


- Axis maximum static power 260 Kw (1)
 - Maximum power in free acceleration 1,000 Kw (2)
- (1) with use of the brake. (2) without using the brake

Maximum axle load per step	4 tn.
Max test speed	300 km/h.
Max track width / min	2.295 / 795 mm.

Electronics




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Ethernet

ANTES




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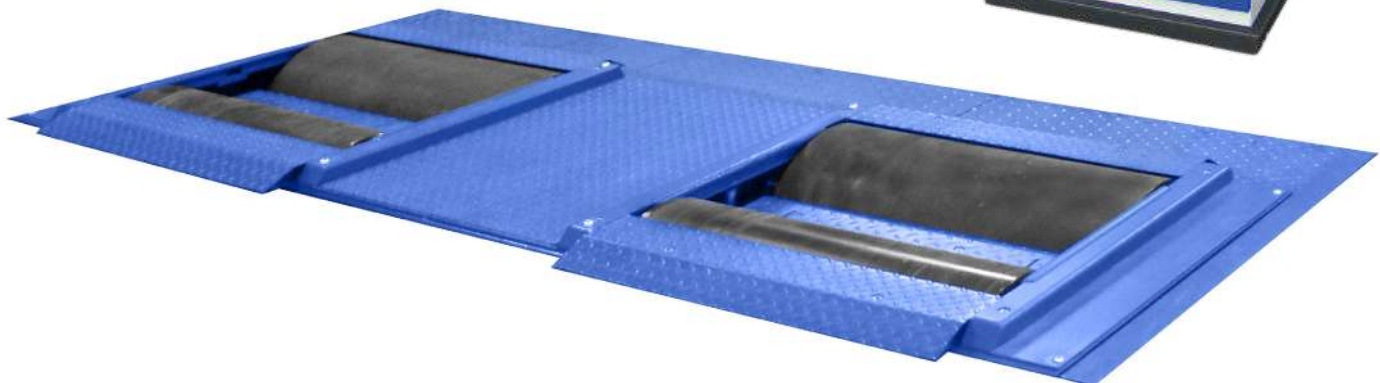
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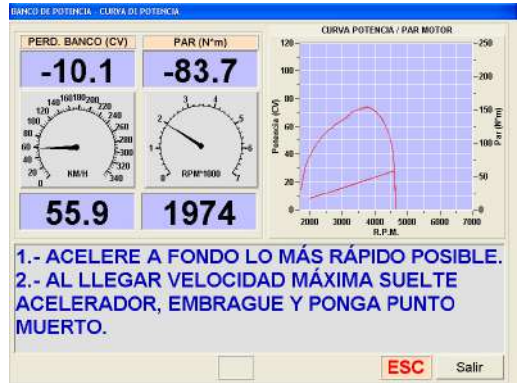
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Standard Equipment

- Bench with knurled rollers with high adherence
- Roller covers platform
- Electronic control & software
- Remote control for test control
- Control cabinet
- R.p.m. with battery and operation with 12v cigarette lighter socket
- Central lift system with automatic roller lock for easy vehicle exit

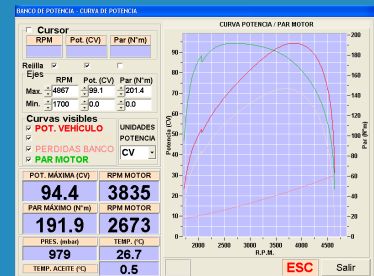
Software

- Retention and possibility of data repetition, until the test of the next vehicle
- Optical and precise pulse measurement system
- Measurement of pressure, ambient temperature and motor temperature
- Maximum power, speed, wheel power, maximum torque and loss power measurement
- Power and torque curves
- 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 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
- Automatic test start at a configurable speed
- Software for automatic operation
- Possibility of comparing tests in the same report
- Connection RS232



POWER CURVE

It allows the Engine Power test to be carried out with the following parameters: Maximum power, speed (r.p.m.), wheel power, maximum torque, speed, power loss and maximum power of the vehicle according to ISO 1585. If the Gas Emission Kit is available, the power curves can be compared with the gas emission curves.



Software



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Repetition of partial tests



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Technical Data

Maximum axle load	4 tn
Track width max. / min.	785 / 2.310 mm.
Test speed	0 - 300 km / h.
Range of measurement	0,1 m.
Roller locking system	Pneumatic
Voltage (Monophase)	230 V - 50 Hz
Roller length	752 mm.
Rollers diameter	352 mm.
Wheelbase Roller	498 m.
Pneumatic supply	8 bares mín.
Connections	USB / RS232

Dimensions

Bench dimensions	2.690 x 1.020 x 465 mm.
Packed bench dimensions	2.750 x 1.030 x 485 mm.
Bench weight	1.250 Kg
Packed bench weight	1.335 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
		
	RY3	R.P.M. and Accessories kit for r.p.m. measurement
	GEN-EOB	EOBD kit, integration with gas equipment and software



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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


Cabinet dimensions	720 x 420 x 1.850 mm.
Packed cabinet dimensions	800 x 600 x 1.580 mm.
Cabinet weight	80 Kg
Packed cabinet weight	100 Kg

	GEN-VEN	Vehicle cooling fan. Features: Threephasic, 5,500 W power, 12,4 A current. Air flow 25,000 m3 / h
	BD-PES30	Calibration weight 30 kg
	BP-PAL	Calibration lever
	BP2W-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

	BP2WD-KIT	Electronic box with software and mechanical frames Dimensions of the electronic box: 600 x 600 x 300 mm.
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Other Cabinet

	GEN-MC	PREMIUM CABINET Cabinet only Dimensions: 730 x 600 x 1.800 mm.
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Debido a la continua evolución de nuestros productos, las características técnicas y de diseño podrían estar sujetas a modificaciones, sin previo aviso.

The BP-NET Inertial dyno is a very useful tool in automotive workshops and technology centers, among others, since it is designed to prevent, locate and investigate possible problems in vehicles up to 3,500 kg of MMA.

Its function is to determine power and torque as a function of the vehicle's engine speed graphically and numerically.

The dyno consists of a steel monocoque frame housing four 352 mm. cylinders mounted on bearings. The two front rollers are knurled and connected to each other by a transmission. They feature a 0.8 friction coefficient Pneumatic-roller. The other two rollers are smooth and rotate freely.

The speed measurement is obtained through an incremental encoder mounted on the front roller shaft.

Given the resolution of the encoder, we have a high reading accuracy, over ± 0.1 km/h.

The bench also has a pneumatically operated lifting mechanism which, together with a brake-locking system for the rollers, makes it easier for the vehicle to enter and exit the bench. The maximum lifting force of this mechanism is 4,000 kg on the axle at 8 bar pressure.

- Axis maximum static power 260 Kw (1)
 - Maximum power in free acceleration 1,000 Kw (2)
- (1) with use of the brake. (2) without using the brake

Maximum axle load per step	4 tn.
Max test speed	300 km/h.
Min track width / max	795 / 2.295 mm.
Vehicle wheelbase	2.295 / 3.300 mm.



Electronics



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RAM memory
New memory 16 times faster



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



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Standard Equipment

- Bench with knurled rollers with high adherence
- Roller covers platform incluidas
- Electronic control & software
- Remote control for test control
- Control cabinet
- Central lift system with automatic roller lock for easy vehicle exit
- Roller lock brake system

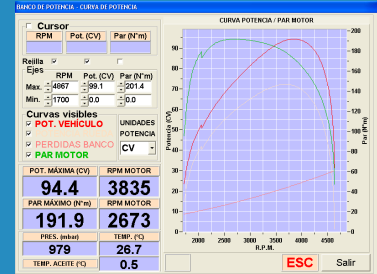
Software

- Optical and precise pulse measurement system
- Measurement of ambient pressure and temperature
- Maximum power, speed, wheel power, maximum torque and loss power measurement
- Power and torque curves
- Possibility of comparing tests in the same report
- Measurement of vehicle power, wheel power and dissipated power with graphical and numerical representation (according to DIN 70020)
- Speedometer test program (speed measurement in km / h)
- Odometer test program
- Automatic calculation of the final transmission ratio
- Color printing of data and measurement curves
- On-screen operation guide
- Storage of tests in RYME database for a pre / post breakdown or repair comparison
- 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
- Retention and possibility of data repetition, until the test of the next vehicle
- Automatic test start at a configurable speed
- Software for automatic operation
- Connection RS232

POWER CURVE

It allows the Engine Power test to be carried out with the following parameters: Maximum power, speed (r.p.m.), wheel power, maximum torque, speed, power loss and maximum power of the vehicle according to ISO 1585.

If the Gas Emission Kit is available, the power curves can be compared with the gas emission curves.



Software



More Productive
Repetition of partial tests



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Tested for durability to ensure optimum performance

Technical Data




Maximum axle load	4 tn
Track width max. / min.	785 / 2.310 mm.
Vehicle wheelbase máx. / mín	3.300 / 2.295 mm.
Test speed	0 - 300 km / h.
Range of measurement	0,1 m.
Roller locking system	Pneumatic
Voltage (Threephasic)	400 V - 50 Hz
Roller length	752 mm.
Rollers diameter	352 mm.
Wheelbase Roller	498 m.
Pneumatic supply	8 bares mín.
Connections	RS232



Dimensions

Bench dimensions	2.690 x 5.700 x 465 mm.
Packed equipment dimensions	3.650 x 1.090 x 1.250 mm. (2 u) 1.400 x 900 x 550 mm. (2 u) 2.400 x 1.100 x 600 mm. (1 u)
Bench weight	3.000 Kg


Packed bench weight	3.150 Kg
Cabinet dimensions	620 x 510 x 1800 mm.
Packed cabinet dimensions	800 x 600 x 1.580 mm.
Cabinet weight	80 Kg
Packed cabinet weight	100 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
	RY3	R.P.M. and Accessories kit for r.p.m. measurement
	GEN-EOB	EOBD kit, integration with gas equipment and software

	GEN-VEN	Vehicle cooling fan. Features: Threephasic, 5,500 W power, 12,4 A current. Air flow 25,000 m3 / h
	BD-PES30	Calibration weight 30 kg
	BP-PAL	Calibration lever
	BP4W-BOC	Civil work frame
	GEN-ENC	Sending encrypted test results
	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

	BP4WD-KIT	Electronic box with software and mechanical frames Dimensions of the electronic box: 600 x 600 x 300 mm.
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Other Cabinet

	GEN-MC	PREMIUM CABINET Cabinet only Dimensions: 730 x 600 x 1.800 mm.
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The BD-NET dynamometer is a very useful tool in workshops and in automotive technology centres, among others, as it is designed to prevent, locate and investigate possible problems in vehicles up to 3,500 MMA.

Its function is to determine power and torque as a function of the vehicle's engine speed graphically and numerically. The dynamometer consists of a steel monocoque frame housing four 352 mm rollers mounted on bearings. The two front rollers are knurled and connected to each other by a transmission. They have a Friction coefficient Pneumatic-roller of 0.8. The other two rollers are smooth and rotate freely.

The Foucault electric brake is mounted on bearings and is mechanically coupled to the axis of the front rollers, being able to tilt on its axis.

The speed measurement is obtained by means of an incremental encoder mounted on the front roller shaft. Given the resolution of the encoder, we have a high reading accuracy, ± 0.1 km/h.

- Axis maximum static power 260 Kw (1)
 - Maximum power in free acceleration 1,000 Kw (2)
- (1) with use of the brake. (2) without using the brake

Maximum axle load	4 tn.
Max test speed	300 km/h.
Track width max. / min.	2.295 / 795 mm.

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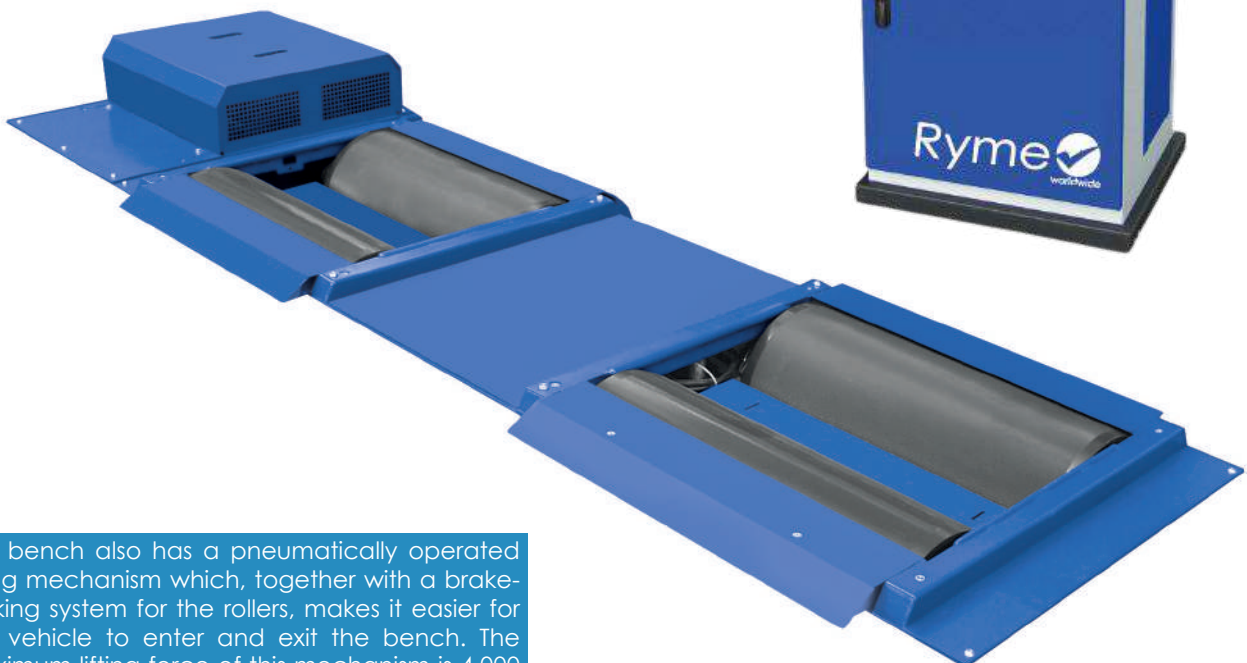


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The bench also has a pneumatically operated lifting mechanism which, together with a brake-locking system for the rollers, makes it easier for the vehicle to enter and exit the bench. The maximum lifting force of this mechanism is 4,000 kg on the axle at 8 bar pressure.

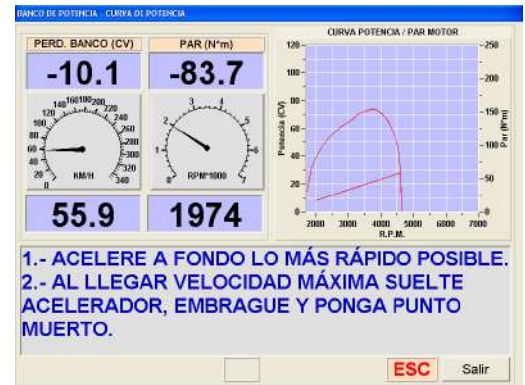
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Standard Equipment

- Bench with knurled rollers with high adherence
- Control cabinet
- Remote control for test control
- Electronic control & software
- Roller covers platform incluidas
- R.p.m. with battery and operation with 12v cigarette lighter socket
- Central lift system with automatic roller lock for easy vehicle exit
- Simulation of loads using the Foucault brake

Software

- Optical and precise pulse measurement system
- Measurement of atmospheric pressure and ambient temperature
- PID control of the electric brake of the equipment. 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
- Possibility of comparing tests in the same report
- Retention and possibility of data repetition, until the test of the next vehicle
- 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
- Graphical and numerical display of results
- Connection RS232



- Measurement of vehicle power, wheel power and power dissipation with graphic and numerical representation (according to DIN 70020)
- Speedometer test program (speed measurement in Km / h)
- Odometer test program
- Constant speed power measurement test
- Power measurement test at constant pulling force
- Power measurement test with constant rise percentages
- Automatic calculation of the final transmission ratio
- Graphical and numerical presentation in color of the measured values
- Color printing of data and measurement curves
- Storage of tests in RYME database for a pre / post breakdown or repair comparison
- On-screen operation guide
- Roller lock brake system

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Technical Data

Maximum axle load	4 tn
Track width max. / min.	785 / 2.310 mm.
Test speed	0 - 300 km / h.
Range of measurement	0,1 m.
Potencia medible	300 Kw - 407 CV.
Roller locking system	Pneumatic

Voltage (Monophase)	400 V - 50 Hz
Roller length	752 mm.
Rollers diameter	352 mm.
Wheelbase Roller	498 m.
Pneumatic supply	8 bares mín.
Connections	RS232

Test with brakes

0-100 Km / h.: It allows obtaining the time it takes to reach 100 Km / h. starting from a stopped vehicle.

0-1,000 m: Measures the time it takes for the vehicle to travel the first 1,000 m.

Constant force: Allows the control and storage of the power values of up to 10 samples under constant load conditions (e.g. 1 KN, 2 KN, etc.).

Constant speed: Allows the control and storage of up to 10 samples of the power values measured under different constant speed conditions.

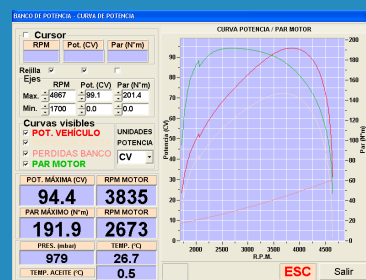
Road: Allows the control and storage of up to 10 samples of the power values measured in different road conditions marked by the value in% of uphill slopes (e.g. 1%, 2%, etc.).

Database: Allows the storage of all previous tests including customer and vehicle data, allowing comparison between the different tests and tests stored on different dates.

POWER CURVE

It allows the Engine Power test to be carried out with the following parameters: Maximum power, speed (r.p.m.), wheel power, maximum torque, speed, power loss and maximum power of the vehicle according to ISO 1585.

If the Gas Emission Kit is available, the power curves can be compared with the gas emission curves.









Dimensions

Bench dimensions	3.415 x 1.020 x 600 mm.
Packed bench dimensions	3.470 x 1.030 x 630 mm.
Bench weight	1.650 kg


Packed bench weight	1.700 kg
Cabinet dimensions	520 x 510 x 1.860 mm.
Packed cabinet dimensions	850 x 760 x 1.600 mm.
Cabinet weight	100 kg
Packed cabinet weight	120 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
	Voltage Stabilizer
GEN-EST	Voltage Stabilizer
	R.P.M. and Accessories kit for r.p.m. measurement
RY3	R.P.M. and Accessories kit for r.p.m. measurement

	GEN-EOB	EOBD kit, integration with gas equipment and software
	GEN-VEN	Vehicle cooling fan. Features: Threephasic, 5,500 W power, 12,4 A current. Air flow 25,000 m3 / h
	BD-PES30	Calibration weight 30 kg
	BD-PAL	Calibration lever
	BD2W-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

	BD2WD-KIT	Electronic box with software and mechanical frames Dimensions of the electronic box: 600 x 600 x 300 mm.
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Other Cabinet

	GEN-MC	PREMIUM CABINET Cabinet only Dimensions: 730 x 600 x 1.800 mm.
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Debido a la continua evolución de nuestros productos, las características técnicas y de diseño podrían estar sujetas a modificaciones, sin previo aviso.

The BD-NET dynamometer is a very useful tool in workshops and in automotive technology centres, among others, as it is designed to prevent, locate and investigate possible problems in vehicles.

Its function is to determine power and torque as a function of the vehicle's engine speed graphically and numerically. The dynamometer consists of a steel monocoque frame housing four 352 mm rollers mounted on bearings. The two front rollers are knurled and connected to each other by a transmission. They have a friction coefficient of 0.8 pneumatic roller. The other two rollers are smooth and rotate freely.

The Foucault electric brake is mounted on bearings and is mechanically coupled to the axis of the front rollers, being able to tilt on its axis.

The speed measurement is obtained through an incremental encoder mounted on the axis of the front rollers. Given the encoder resolution, we have a high reading precision, greater than ± 0.1 km / h.


The bench, likewise, has a pneumatically operated lifting mechanism that, together with a brake-lock system for the rollers, facilitates access and exit of the vehicle to the bench. The maximum lifting force of said mechanism is 4,000 Kg on axis at 8 bar pressure.

Maximum axle load	4 tn.
Max test speed	300 km/h.
Min track width / max	795 / 2.295 mm.
Vehicle wheelbase	2.300 / 3.300 mm.


- Axis maximum static power 260 Kw (1)
 - Maximum power in free acceleration 1,000 Kw (2)
- (1) with use of the brake. (2) without using the brake




Electronics




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





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

ANTES 


AHORA 

RAM memory
New memory 16 times faster

ANTES 

AHORA 

Flash Memory
New memory 4 times faster



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



Debido a la continua evolución de nuestros productos, las características técnicas y de diseño podrían estar sujetas a modificaciones, sin previo aviso.

Standard Equipment

- Bench with knurled rollers with high adherence
- Control cabinet
- Remote control for test control
- R.p.m. with battery and operation with 12v cigarette lighter socket
- Electronic control & software
- Roller covers platform included
- Central lift system with automatic roller lock for easy vehicle exit
- Simulation of loads using the electric Foucault brake

Software

- Optical and precise pulse measurement system
- Measurement of atmospheric pressure and ambient temperature
- 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
- Possibility of comparing tests in the same report
- Retention and possibility of data repetition, until the test of the next vehicle
- 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
- Graphical and numerical display of results
- Connection RS232

- Measurement of vehicle power, wheel power and power dissipation with graphic and numerical representation (according to DIN 70020)
- Speedometer test program (speed measurement in Km / h)
- Odometer test program
- Constant speed power measurement test
- Power measurement test at constant pulling force
- Power measurement test with constant rise percentages
- Automatic calculation of the final transmission ratio
- Graphical and numerical presentation in color of the measured values
- Color printing of data and measurement curves
- Storage of tests in RYME database for a pre / post breakdown or repair comparison
- On-screen operation guide
- Roller lock brake system

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 axle load	4 tn	Voltage (Threephasic)	400 V - 50 Hz
Track width max. / min.	2.310 / 785 mm.	Roller length	752 mm.
Test speed	0 - 300 km / h.	Rollers diameter	352 mm.
Range of measurement	0,1 m.	Wheelbase Roller	498 m.
Potencia medible	300 Kw - 407 CV.	Pneumatic supply	8 bares mín.
Roller locking system	Pneumatic	Connections	RS232

Test with brakes

0-100 Km / h.: It allows obtaining the time it takes to reach 100 Km / h. starting from a stopped vehicle.

0-1,000 m: Measures the time it takes for the vehicle to travel the first 1,000 m.

Constant force: Allows the control and storage of the power values of up to 10 samples under constant load conditions (e.g. 1 KN, 2 KN, etc.).

Constant speed: Allows the control and storage of up to 10 samples of the power values measured under different constant speed conditions.



Road: Allows the control and storage of up to 10 samples of the power values measured in different road conditions marked by the value in% of uphill slopes (e.g. 1%, 2%, etc.).

Database: Allows the storage of all previous tests including customer and vehicle data, allowing comparison between the different tests and tests stored on different dates.

Dimensions

Bench dimensions	3.415 x 5.700 x 600 mm.
Packed equipment dimensions	3.650 x 1.090 x 1.250 mm. (2 u) 1.400 x 900 x 550 mm. (2 u) 2.400 x 1.100 x 600 mm. (1 u)
Bench weight	4.000 Kg
Packed bench weight	4.150 Kg

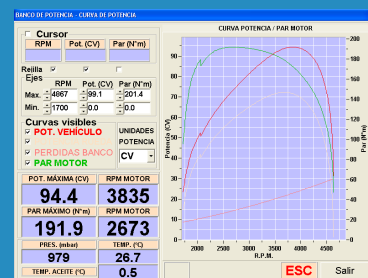
Optional Equipment

GEN-EIN	Computer equipment
GEN-IMP	Printer
GEN-TD	Data display terminal
GEN-STD	Second Data display terminal
GEN-EST	Voltage Stabilizer
 RY3	R.P.M. and Accessories kit for r.p.m. measurement
 GEN-EOB	EOBD kit, integration with gas equipment and software



POWER CURVE

It allows the Engine Power test to be carried out with the following parameters: Maximum power, speed (r.p.m.), wheel power, maximum torque, speed, power loss and maximum power of the vehicle according to ISO 1585.

If the Gas Emission Kit is available, the power curves can be compared with the gas emission curves.




Cabinet dimensions	680 x 570 x 1.360 mm.
Packed cabinet dimensions	850 x 760 x 1.600 mm.
Cabinet weight	120 Kg
Packed cabinet weight	150 Kg

 GEN-VEN	Vehicle cooling fan. Features: Threephasic, 5,500 W power, 12.4 A current. Air flow 25,000 m ³ / h
BD-PES30	Calibration weight 30 kg
BD-PAL	Calibration lever
BP4W-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...

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