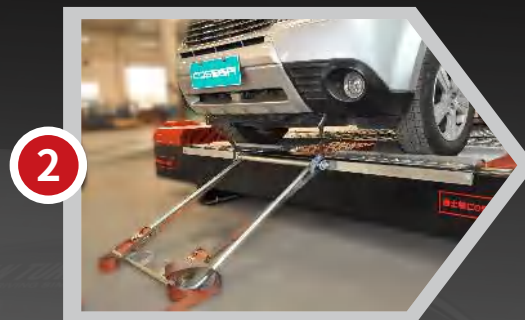


COSBER

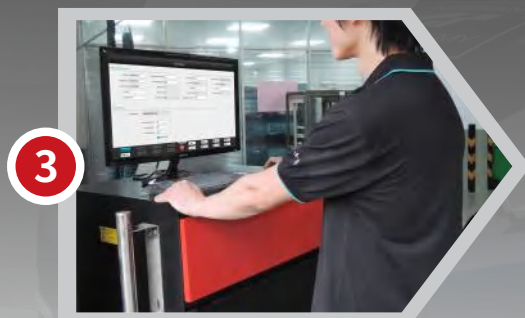
► Quick Dyno your car in 6 steps



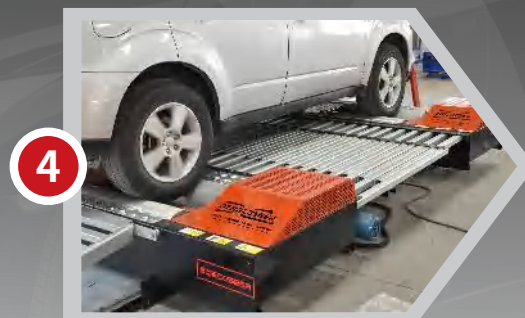
Drive your car on Dyno



Well anchor the car



Enter car data & choose testing items




Calibrate the Speed Vs RPM



Full throttle power sweep test



Display & print out of result graph

**DYNOCOSBER**   
**Chassis Dynamometer**  
**Ease your work with Dyno!**



**COSBER**  
COSBER TECHNOLOGY CO., LTD.

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WhatsApp Contact

**DYNOCOSBER**  
PERFORMANCE POWER TESTER



## Dynocosber Chassis Dynamometer



COSBER is a leading manufacturer of chassis dynamometers and testing equipment since 1999. With years of experience in developing and manufacturing vehicle testing equipment for the Chinese and international markets, COSBER established its DYNOCOSBER division to offer high-performance dynamometers for the car racing and tuning market.

We understand that car tuning can be a troublesome and endless task. Therefore, we adhere to a simple industrial idea: to offer excellent dynos at affordable costs, enabling our customers to become powerful players in their business.

Our dynos are designed for high-performance cars' power testing. The maximum testing power is up to **2000 HP** with a highest loaded speed of **250 km/h**. No matter if the car is a front-wheel drive, rear-wheel drive, or all-wheel drive, it is no problem to dyno your car with ease.



### ► Main Functions Of Dynocosber's Chassis Dynamometer

- 1. International standard power absorbing test:**  
The most strict but time consuming method for chassis power test.
- 2. Quick Power test:**  
Power sweep for your car by one-key operation, full rang of power graph.
- 3. Steady speed:**  
Keep a target speed in order to perfect the tuning of ECU.
- 4. Simulation of Road drive:**  
Setting of different kind of load modes for dyno driving.
- 5. Speedometer Calibration:**  
High precision Roller and Sensors are used to verify your wheel speed.
- 6. Car power-driven diagnosis:**  
Various dyno sensors are adopted to help analyzing working conditions.

### Enhance gradually your technical level

*The most advanced and  
valuable tool in car tuning*

### Building a professional image for customers

*Show your professional  
performance in precise figures*

### OUR DYNO CONTRIBUTE TO YOUR WORKSHOP!

### Saving much time and energy

*Whole day of road test  
can be replaced by 30 minutes  
of easy dyno works*

### Safer & More Reliable

*No more worry about  
over-speed running,  
as it's not on road,  
but on a Dyno!*



## Special Features Of DynoCosber's Dyno

### Why choose Dynocosber ? We have 8 advantages for you

#### ► Low Inertia Dual Rollers

Dynocosber is of low inertia dual rollers design, which could complete load test with high performance eddy current retarder: Dual low inertia rollers have advantages of safe and low inertia resistance, comparing with big roller or heavy inertia dyno. Our dyno has more sensibility in power. Equipped with our rollers with inertia of only 300kg and load controlled by precise eddy current retarder, it is able to reflect every torque change from 1n/m to 1200n/m. Dual rollers are well acknowledged as the most convenient chassis dyno design for: drive up, tie down, quick power test and drive out. Those processes can be done in a few minutes and ease lots of dyno works.

#### ► Groove Shape Surface

Professional groove shaping with solid chrome coating for our rollers' surface, this industrial process is excellent to maintain grasp friction to wheels even with over 1000 horsepower, and it is no harm for the tyres of your car! It's different to some others Dyno using simply knurled surface or sand blast roller, where there is not enough friction for tyres and easy to be worn out. Our Groove Shape surface rollers can keep brand new even after years of use.

#### ► Full Options And Ready To Use

Our 4WD dyno need space of only 4x5 meters and installation time less than 4 hours. A 2WD model with its bench wheels, it can even be moved by one person. All of our dynos have the option to on-ground installation, and No air nor water are required, all you need is the electric supply with 16A fuse. We delivery our dyno with full-ripped of necessary equipments, including Industrial computer & large LCD monitor, Handheld remote controller, Steel ramps, Cooling fans, Safe straps, and Ground anchor etc. There is no more additional cost such as lift, compressor air or fans. Our dyno is ready to use immediately after delivery.

#### ► Screen Record Function

There are many factors may have influence on the test result, so it is necessary to full time monitor the test process for analysis.



#### ► Maintenance Free Design

DYNOCOSBER is use Maintenance free design, high liability parts and no quick-wear components, all are destined to minimize the operation Charges and Cost for you. Our dyno has also high efficient in consumption, for a continuously 10 minutes power test only need 0.4kw/h of electricity. The Main parts are working as all-lifetime maintenance-free worth of genuine quality, such as eddy current retarder, bearings, coupling connectors, loadcell and speed sensor.

#### ► Upgrade Convenience

When our customer wants to upgrade to 4WD dyno from its 2WD dyno, he only pay another 2WD dyno bench and its wheel base adjust unit. This is to save lots of money. Dynocosber dyno run on Win7 and Win8 platform, its built-in database is easy to use and save all your test results.

#### ► User Friendly Operation

Control system and software are developed by DynoCosber, we praise highly its User-friend Interface & Menu. With our All-in-one Handheld Controller, you can finish all the dyno tests by sitting inside the car.

#### ► Comprehensive After Sales Service

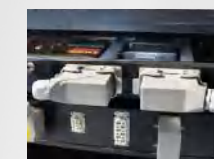
We understand that the dyno is an expensive investment in your workshop, and we care about your worries. We offer the original manufacture warrantee and World-wide delivery and training service, On-line technical support.



Electric Control Unit



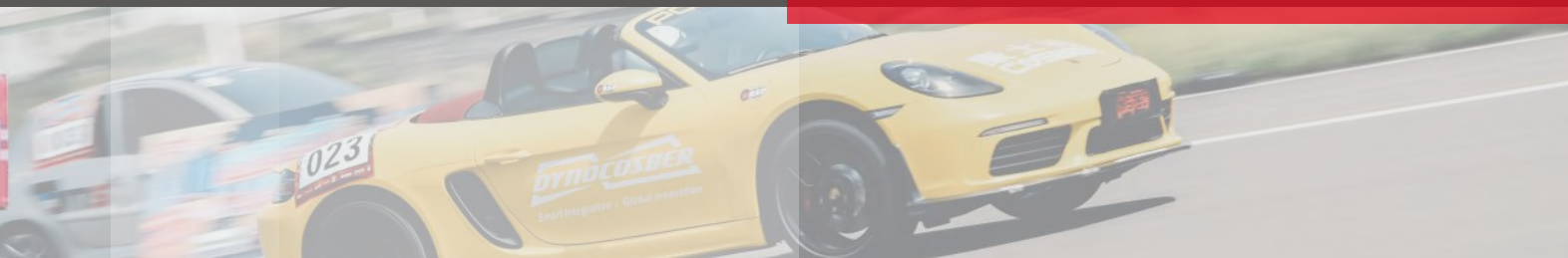
PC Cabinet



Industrial Heavy Load Connector



# PERFORMANCE POWER TESTER



## Customers

### Customers Around The World



UK Customers



Jakarta



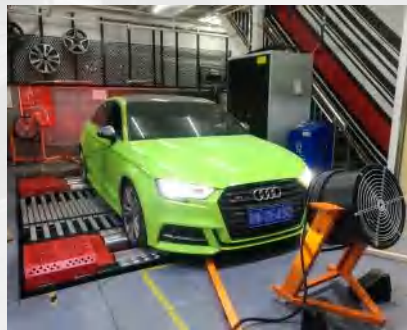
Cyprus



Dubai City



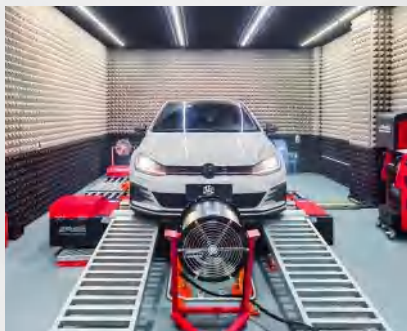
Shunde City



Beijing City



Panyu City



Changchun City



Changsha City

### Motor Sport Development



Public Classes



Training



Tuning Training School



Motor Sports



Car Tuning Show



Car Tuning Show



Motor Sports

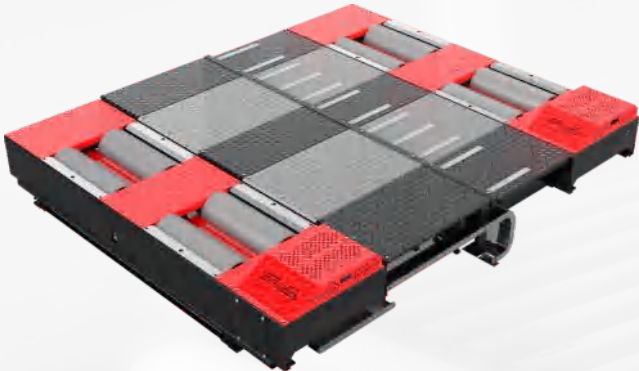


4WD Synchronized Dyno- DynoCosber-X4000



DYNOCOSBER X4000

DynoCosber-X4000 is a real 4WD Synchronized Chassis Dyno with a new patent for the Z-Shaft interlinked mechanism. The patented Z-Shaft interlinked Dynamometer is designed for all types of vehicles with different drive modes: Front-wheel-drive, Rear-wheel-drive, and Four-wheel-drive. Real-time synchronization of four-wheel drive is achieved through automatic wheelbase adjustment (2300-3300mm). Simply in-putting the value of the wheelbase can automatically adjust the front and rear rollers bench via the Z-shaft transmission.



Multipurpose Dyno Test Functions



Electric Vehicle Accessibility

4WD Ran Cycle is accessible for National standard of New Energy Vehicle Discharging Safety Test in China.



Adecuada Inertia for load simulation

900Kg of mechanical Inertia and dual air cooling Retarder build up an excellent Load and ran resistance simulation on the Dyno.



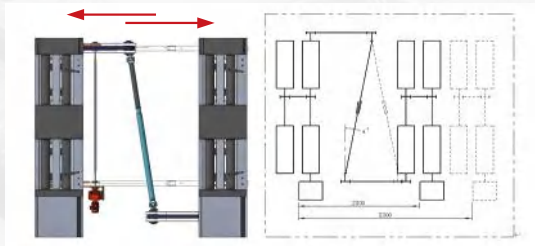
4 Wheels Synchronized for real Road Simulation

Z-Shaft Interlinked structure of the Dyno, which ensures the 4 wheels of vehicle are rolling at the same speed.This is avoiding effectively the intervention of Motion control and/or Torque Control during a Dyno power test.

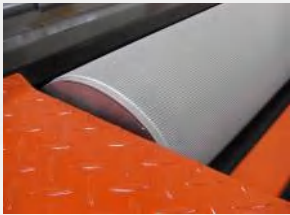
Why 4WD Synchronized?

Most of the modern car has high-accuracy Electronic Traction Control. If its 4 wheels are not moving at the same speed on a Dyno, power take-off could be limited and maximum power test gets fail. For some of 4WD car,the front wheels and rear wheels are not Usually performed as the power out put. As a result,the front wheels and rear wheels of 4WD car will not have the same Speed during a regular Dyno test, this might causes a damage for the its drive-train system. To address this issue,we must use the interlinked 4WD Dynamometer for a perfect simulation of the synchronous operation of 4 wheels During power testing.

Patented Z-Shaft Interlinked 4WD



Top Grade Air-Cooling Eddy Current Retarder



Groove Shape Surface Rollers With Solid Chrome Coating



Intelligent electric control box



PC Cabinet

Main Parameters

Maximum carrying vehicle mass	5000 kg
Maximum bearing Axle mass	2500 kg
Maximum absorption driving force	10000 N ×2
Power test speed range	0-200 km/h
Roller diameter	Φ320 mm
Roller length	850 mm
Center distance of rollers	443 mm
Wheel diameter	500~800 mm
Inside wheel thread	700 mm
Outer wheel thread	2400 mm
Vehicle wheelbase adjustable	2450mm - 3250 mm
Basic inertia	907 kg
Eddy current rated power	160 kW×2
Compressed air pressure	0.6~0.8 MPa
Equipment pit work Dim.LWH	3650 × 3915 × 525 mm
Equipment Total Weight	2580 kg
Power Supply	3PH- 380V- 50Hz- 100A - 15kw





Specification Of Dynocosber 1000

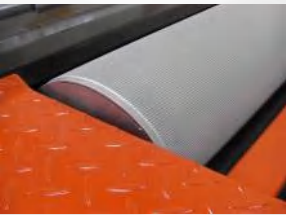


DYNOCOSBER 1000

DynoCosber 1000 is a 2WD Chassis Dynamometer with retarder, for the power testing of a variety of vehicle: FWD/RWD cars, ATV, Motorcycles, and Karts etc. It is able to measure up to 1000 Hps and ran with loaded up to 250km/h. As a new generation of dyno, Dynocosber is using of IGBT module for retarder control, high grade of Smart board for Data acquisition system, and full function of handheld controller. This model of dyno has a mobility package with wheels, it is a useful option for move-away from workshop and on site delivery for DynoDay.



Top Grade KLOFT Eddy Current Retarder



Groove Shape Surface Rollers With Solid Chrome Coating



Electric Control Unit



PC Cabinet

Main Parameters				Suitable for Go Kart and Motorcycle testing	
Max Application Speed	250 km/h	Speed Display Error	≤± 1%	Wheel Diameter	500-800 mm
Max Testing Power	1000 hp	Torque Display Error	≤± 2%	Equipment Dimension	3075×850×448 mm
Max Axle-weight	2000 kg	Power Display Error	≤± 2%	Power Supply	AC 220V, 50Hz, 16A
Max Continual Load time	15 min	Equipment Weight	720 kg	Fan Power	AC 220V, 50Hz, 1.5Kw
Max Absorb Force	1300 N/m	Rollers Diameter	Φ218mm	Service Temperature	0-40℃



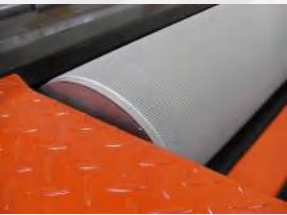
Specification of Dynocosber 2000

DYNOCOSBER 2000

DynoCosber 2000 is our extreme version of 4WD Chassis Dynamometer upgraded from regular 4WD dyno. It is able to measure a 4WD car up to 2000 Hps of power and ran in loaded up to 250km/h. As a generation of dyno, Dynocosber is using of excellent IGBT module for retarder control, high grade of Smart Board for Data acquisition system, top performance of bearings and sensor, also with full function of handheld controller. There is new option of Laptop ThinkPad facility for its easy operation.



Top Grade KLOFT Eddy Current Retarder



Groove Shape Surface Rollers With Solid Chrome Coating



Electric Control Unit



PC Cabinet

Main Parameters				Suitable for Go Kart and Motorcycle testing	
Max Application Speed	250 km/h	Speed Display Error	≤± 1%	Wheel Diameter	500-800 mm
Max Testing Power	2000 hp	Torque Display Error	≤± 2%	Equipment Dimension	3075×4230×560 mm
Max Axle-weight	2000 kg	Power Display Error	≤± 2%	Power Supply	AC 380V, 50Hz, 32A
Max Continual Load time	15 min	Equipment Weight	1800 kg	Service Temperature	0-40°C
Max Absorb Force(2 axles)	2500 Nm	Rollers Diameter	φ218mm	Wheel Base Range	2200-3200 mm



DynoCosber KDC-3GT

DYNOCOSBER KDC-3GT

KDC-3GT is a Inertia (900kg) 2WD Dyno with high liability but low cost for the power testing of a variety of vehicle: FWD/RWD cars, ATV, Motorcycles, and Karts etc.



Industrial Heavy Load Connector



High Performance Cooling Fan



Electric Control Unit



PC Cabinet

Main Parameters			
Dyno Mode	2WD Inertia	Retarder power	Fly wheel inertia
Max. axle load	3500 kg	Drive out mode	Pneumatic
Roller diameter	216 mm	Speed indication error	±1%
Roller length	1000 mm	Torque indication error	±2%
Roller center distance	442 mm	Constant speed error	±1 km/h
Roller set quantity	2 Sets; Cross lathe +	Wheed tread	800-2700 mm
Roller surface	Chrome coating	Power supply	AC 220V, 50Hz, ground
Max. test speed	200 km/h	Equipment dimensions	4000×970×645 mm
Max. test power	400 P		

DYNOCOSBER-M500 Motorcycle Chassis Dyno

DYNOCOSBER M500

The M500 Dyno is a professional horsepower measurement device for two-wheel motorcycles. Its top testing speed exceeds 300 km/h, with a maximum RPM of 16,000, and it can test up to 500 HP on the wheel.

The M500 combines a compact body design with superior testing capabilities, accommodating motorcycles with wheelbases from 1200 mm to 1800 mm. Its adjustable wheelbase design allows the M500 to test a range of vehicles, from small scooters to long-wheelbase cruiser motorcycles. The special one-person-drive package and user-friendly interface make motor dyno testing easy and enjoyable.



Professional air blower for motor cooling



Smart Wheelbase adjustment platform



Electric Control Unit



Dyno Cabinet

Main Parameters					
Maximum test speed	300 km/h	Speed display error	≤ ±1%	Test wheel diameter	300-800 mm
Maximum test power	500 hp	Force display error	≤ ±2%	Wheelbase range Range	1200~1800 mm
Maximum load	1000 kg	Power indication error	≤ ±3%	Equipment Dim.	2560×1700×360 mm
Full loaded time	15 min	Equipment weight	700 kg	Power source	AC 220V,50Hz
Max. Absorb.Torque	3600 N	Roller Dim.	Φ318 mm	Max Power consum.	7.5 kW



Configuration And Accessory



Chassis Dynamometer Workshop Layout

Dyno Control System


The control hardware and software are developed by Cosber, all modules are verified and adjusted to be the optimum with years of industrial know-how. Our software can be installed in a desktop, laptop or tablet PC which run with OS Windows 7 or Windows 8. There is an embedded Database system which manages all the testing data and eases the future analysis. The special designed handheld controller offers all the conveniences for your dyno works by operating inside the car. We integrate manual input menu for environmental factors which are related to the SAE calculating standard. Besides, the intelligent acceleration control, PID load control, and Real-time graphing make the DynoCosber dyno become a perfect tool for car tuning.

Electric Control Unit



To ensure the stability and reliable testing operation, we provide the industrial circuit design & premium Control Main Board. All the control components are contained by a Heavy duty steel cabinet, which is isolating of heat and dust conditions. The whole system have been strictly CE approved for you maximum of safety.

Safety Package




Safety during the Dyno testing operation is the most important concern for us. We offer the full set of safety package including: up to 6x strong safe straps belts, 2x triangle wheel blocks, 2x U type fix frame, ground anchors and a high efficient cooling fan.

PC Cabinet




New design of compact PC&Laptop cabinet. It is also a tool cabinet and movable by wheels.

Wheel Base Adjustment Unit



Galvanized steel made, adapts a wheelbase range from 2200mm to 3200mm executed by high torque NORD Motor, it is suitable for most of the 2WD and 4WD vehicles.

High Performance Cooling Fan



Controlle by PC Super-high velocity cooling it is perfect to take away the heat created by engine, It is compact and low consupmption of 1.5kw.


Handheld Controller With LED Display

The most convenient tool for you to operate dyno in one person, we build the handheld controller by wireless Keyboard:



- 1.Loading run;
- 2.Steady state setting
- 3.One-key Redo
- 4.Brake to drive out
- 5.Graph display
- 6.Cooling fan switch
- 7.Wheelbase adjustment

Groove Shape Surface Rollers With Solid Chrome Coating



Meet the maximum friction requirement, harmless to tyres but anti worn out design.

Top Grade KLOFT Eddy Current Retarder



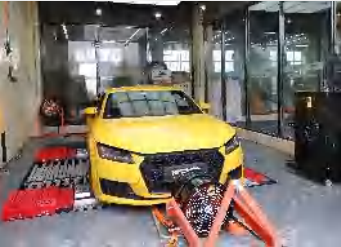
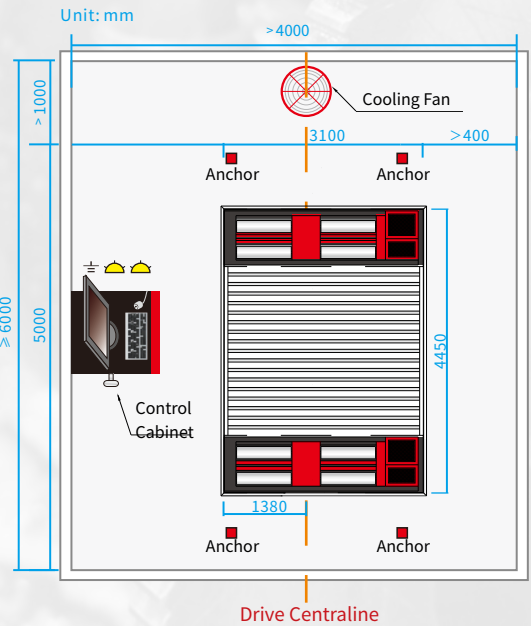
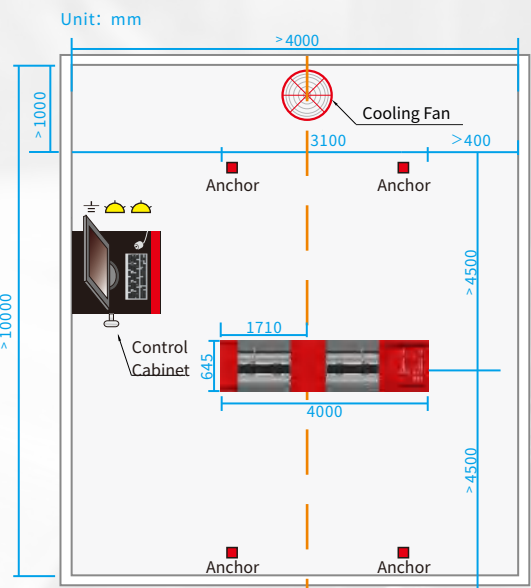
The German KLOFT made Eddy Current Retarder, it is famous as maximum power absorbing performance and reliability for life-time maintenance free.

High Speed Bearings SKF



The Sweden SKF is the world leader in bearing technology for over a century, its special design for the highest grade of speed.

DynoCosber 2WD & 4WD Chassis Dynamometer Workshop Layout





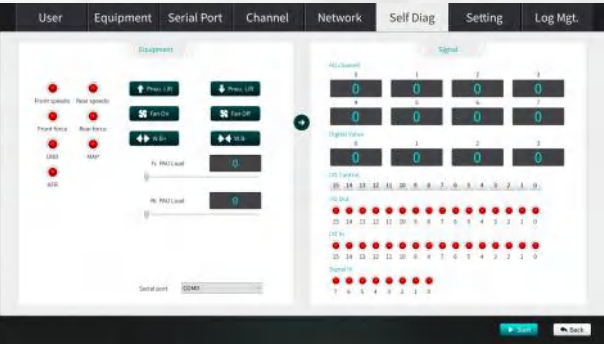
Dyno Control System

Dyno Control System

The control hardware and software is developed by Cosber, each modules are approved and tuned to the optimal with years of industrial know-how. Our software can be installed on either a desktop, Laptop or tablet PC which run whatever on Win10 or newer version. There is an embedded Database system managing all the testing data and easy for future analysis. The special designed Handheld controller offers all the conveniences for your dyno works by operating inside the car. We integrates manual Input menu for environment factors correction with the SAE calculating standard. Besides that the intelligent acceleration control, PID load control, Real-time Graphing are making the DynoCosber dyno as a perfectly tool for car tuning.



Start Interface



Self-Diagnostic Interface



Testing Interface

Operation System

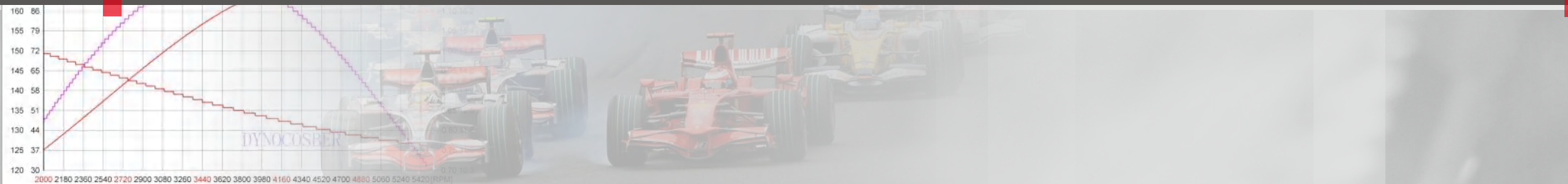
Dynocosber software run on windows 10, in real-time display: Engine RMP/ Speed /Datalog /Power /Torque /Running Time/ Distance Etc.

Before test, input Vehicle information, will be automatically saved into database.

No.	ID Plate	BrandModel	Fuel type	Test time	Test Method	Member	Note
31	大雷		Gasoline	2021-05-26 22:16:48	Dynamic Test	Mp001	
32	大雷		Gasoline	2021-05-26 22:05:56	Dynamic Test	Mp001	
33	BMW-330全期		Gasoline	2021-05-26 20:57:59	Dynamic Test	Mp001	
34	BMW-330全期		Gasoline	2021-05-26 20:50:50	Dynamic Test	Mp001	
35	BMW-330全期		Gasoline	2021-05-26 20:48:19	Dynamic Test	Mp001	
36	BMW-330全期		Gasoline	2021-05-26 20:42:43	Dynamic Test	Mp001	
37	BMW-330全期		Gasoline	2021-05-26 20:41:45	Dynamic Test	Mp001	
38	BMW-330全期		Gasoline	2021-05-26 20:35:39	Dynamic Test	Mp001	
39	BMW-330全期		Gasoline	2021-05-26 20:25:04	Dynamic Test	Mp001	
40	BMW-330全期		Gasoline	2021-05-26 20:20:50	Dynamic Test	Mp001	
41	BMW-330全期		Gasoline	2021-05-26 20:14:37	Dynamic Test	Mp001	
42	BMW-330全期		Gasoline	2021-05-26 20:12:58	Dynamic Test	Mp001	
43	BMW-330全期		Gasoline	2021-05-26 20:02:43	Dynamic Test	Mp001	
44	BMW-330全期		Gasoline	2021-05-26 20:01:53	Dynamic Test	Mp001	
45	BMWS25		Gasoline	2021-05-25 14:42:27	Dynamic Test	Mp001	
46	BMWS25		Gasoline	2021-05-25 14:41:02	Dynamic Test	Mp001	
47	BMWS30		Gasoline	2021-05-25 11:30:17	Dynamic Test	Mp001	
48	BMWS30		Gasoline	2021-05-25 11:28:54	Dynamic Test	Mp001	
49	BMWS30		Gasoline	2021-05-25 11:27:29	Dynamic Test	Mp001	
50	BMWS30		Gasoline	2021-05-25 10:26:17	Dynamic Test	Mp001	

Every tested vehicle will be recorded and created a file for future analysis or comparison, users can choose different unit to display the graph.





Power Result Graph

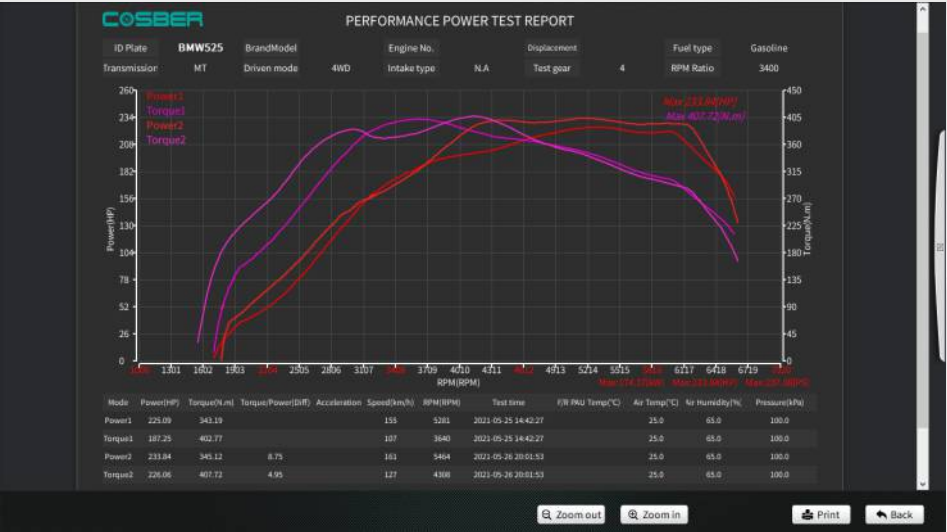


About COSBER

Power Result Graph



The graph shows same car's dyno result on with two different times( up to 5 times display in the same graph). You can see they are almost duplicate. Repeatability is the most important concern for dyno. Different brand of dyno may show different in power, these are due to using different correction factor and different control algorithm, but same dyno should have almost the same power curve using the same car to test. Otherwise the tuner hardly to recognize a car's real power condition.



The graph shows the car's power curve Before tuned and After tuned. Colorful curve line and the X-axis and Y-axis are displaying different specific values by graph. DynoCosber helps you to increase your professional image and show up your performance in precise figures.

About COSBER

Established in 1999, COSBER TECHNOLOGY CO., LTD. (Previous SHENZHEN COSBER INDUSTIAL CO LTD) is a leading company specialized in development, manufacturing of Vehicle Inspection Equipment and System. COSBER is the largest and advanced chassis dynamometer manufacture in China. A company in combination of R&D capacity and Production ability, we have 20 000 M<sup>2</sup> of production workshop to manufacture high quality products.



- Supplied thousands of chassis dynamometer and vehicle test line equipment to over 50 countries.
- Satisfaction Award by Toyota, Ford, Mazda, GAC group etc.
- Firstly launched in China the full automatic vehicle inspection line system.
- The large and modern manufacturing workshop for testing equipments.

A Professional And Enthusiastic Service Team

"Our mission is to supply High-Quality of vehicle testing Products and Excellent Service to our customers globally."

We have a professional and enthusiast service team, every service manager is technical based and warm-hearted to service your inquiry. We are pleased to offer the consulting, demonstration, technical training and installation service to our customers.

