

Technologies for the future

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**GETTING YOU THE DATA
YOU NEED**



FOCUS APPLIED TECHNOLOGIES SDN. BHD.

Lot 463 Jalan Relau K143, Sungai Kechil Iiir

Nibong Tebal 14300 Penang, M'sia

Tel : +60 11-16322699

RV5-2020

CHASSIS DYNAMOMETER LINE-UP

Automotive Chassis Dyno (ACD)

- Power: 100, 200, 400, 1000kW
- Pneumatic Lift/Break
- In floor / Above Ground Frames
- 2WD and 4WD versions
- Motorcycle Nose Clamp

Superbike Chassis Dyno (SCD)

- Power: 100, 200kW
- Pneumatic/Screw/Simple Nose Clamp
- In floor / Above Ground Frames

Motorcycle Chassis Dyno (MCD)

- Power: 50, 100kW
- Inertia only / Loading Type Retarder
- Full Stage / Compact / In-Floor frame
- Screw/Simple Nose Clamp

Chassis Dyno Optional Accessories

- Air/Fuel Ration Meter
- MAP/BOOST Meter
- Engine RPM Clamp Meter
- High Volume Cooling Fan
- Exhaust Fan
- Workbench / Cabinet
- Various Controllers Compact to R&D



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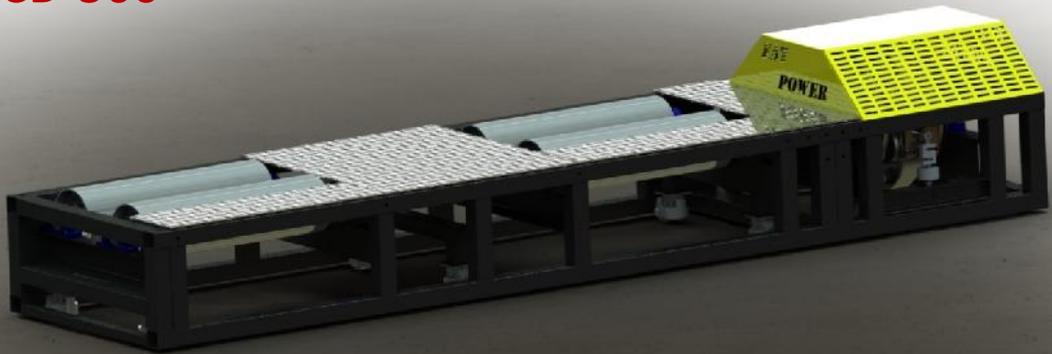
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AUTOMOTIVE CHASSIS DYNAMOMETER

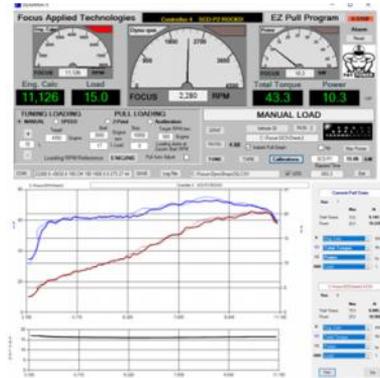
ACD-500



This high power chassis dynamometer can extract over 500kW of mechanical power from competition vehicles, including cars and trucks. Its heavy-duty frame and textured 8-inch roller are ideal for high power applications without tire slip. The air-cooled eddy current dynamometer requires no external cooling lines, and is easy to install and use, giving years of trouble free service. The sophisticated controller can operate the dynamometer from the front panel or from a computer via the remote mode. Control modes include Manual Load, Speed, Torque and Road Load control. The dynamometer can hold the vehicle under test at a given speed for tuning, or fuel consumption measurements, or mimic actual road load conditions. Drive cycle software is included allowing vehicles to be tested on any drive cycle required. Additional inputs are included for Data Acquisition, (eg. AFR) display and logging.

FEATURES

- 500kW (670hp) mechanical power absorption
- 200kph (120mph) top speed
- Tandem 8" inch textured roller
- Pneumatic Lift/Break Optional
- 5th Generation controller included
- Integrated DAQ Input Channels for Logging
- Motorcycle nose clamp available as option
- Free computer software for Graphic Display
- 1 Year Warranty Included



Our systems are 100% Made in Malaysia
We have local technical support, straight from the factory

*** Available in 100 - 1000kw**



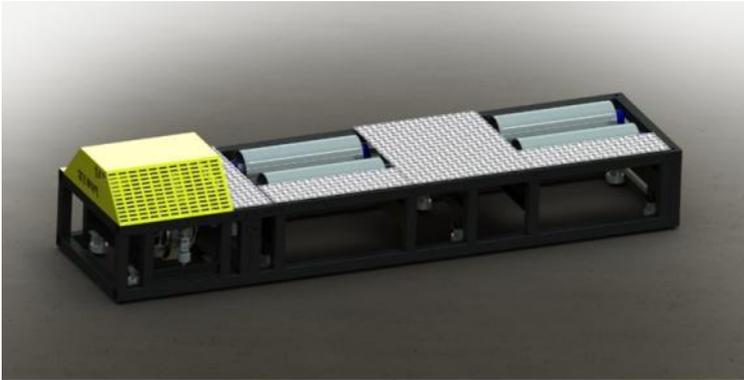
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AUTOMOTIVE CHASSIS DYNAMOMETER



SPECIFICATIONS

PHYSICAL

Weight: 750kg (approx)
LxWxH: 312 x 235 x 50 cm
Deck: 302 x 90 x 43 cm

MAINS POWER

Voltage: 120/240VAC
Frequency: 50/60Hz
Current Draw: 10/5A max

CONTROLLER OUTPUT

Controller Power: 3kW (200V. 15A)
Coms: 9600 baud, 8bit, NP

DYNO

Mech Power: 500kW (1200hp in pull)
Torque: 1000Nm max Absorption
Roller: 320mm diameter
Speed: Hall Effect, 5V excitation
30 pulse per revolution
4,500 rpm, 180kph max
Load Cell: 1250Nm, 200 to 500 ohm
4-wire Wheatstone bridge
5 or 10V excitation

ENVIRONMENTAL Temp: 10 to 40° C

Operational

0 to 50° C Non-Operational

Humidity: 5 to 90% Non-condensing

Shock/Vibe: <10g

The Automotive Chassis Dyno is widely used by tuning shops to prove power increases to customers. It is also extensively used by R&D organizations and for trouble shooting tough problems, as it can hold the vehicle at a constant load or speed, unlike inertial dynos. A Break Tester is also included for Vehicle Standards testing. Road load mode can simulate road performance for drive cycle testing for emissions or fuel consumption certification testing.



OPTIONS

- Integrated Vehicle Break system test
- Pneumatic lift/break for easy unloading
- High-volume, low noise blower and stand
- Wide Band O2 (AFR) sensor
- Digital Fuel Scale
- 5-Gas Analyzer
- Current/Voltage Clamp Meter
- In-floor or Ramp versions available



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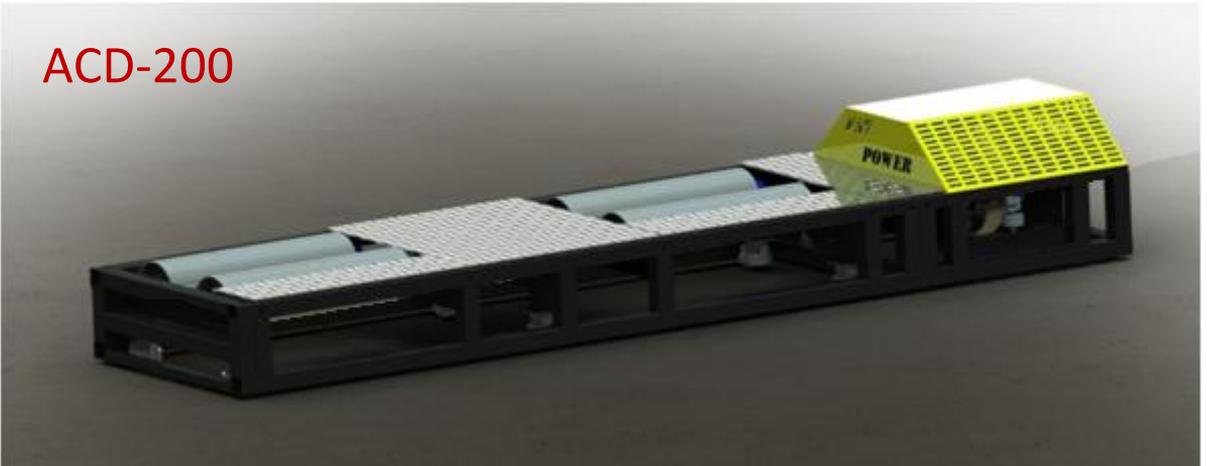
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AUTOMOTIVE CHASSIS DYNAMOMETER

ACD-200

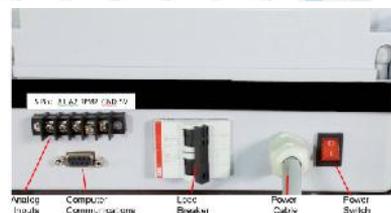
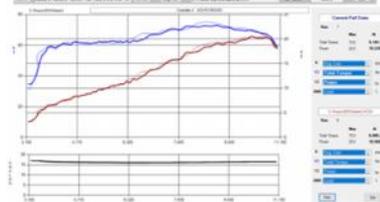


This compact chassis dynamometer can extract over 200kW of mechanical power from road vehicles, including cars and light duty trucks. Its heavy-duty frame and textured 8-inch roller are ideal for high torque applications without tire slip. The air-cooled eddy current dynamometer requires no external cooling lines, and is easy to install and use, giving years of trouble free service. The sophisticated controller can operate the dynamometer from the front panel or from a computer via the remote mode. Control modes include Manual Load, Speed, Torque and Road Load control. The dynamometer can hold the vehicle under test at a given speed for tuning, or fuel consumption measurements, or mimic actual road load conditions. Drive cycle software is included allowing vehicles to be tested on any drive cycle required. Additional inputs are included for Data Acquisition, (eg. AFR) display and logging.

FEATURES

- 200kW (300hp) mechanical power absorption
- 200kph (120mph) top speed
- Tandem 8" inch textured roller
- Low 10" Deck Height
- Easy to use DC4 Embedded controller
- Integrated DAQ Input Channels for Logging
- Motorcycle nose clamp available as option
- Free computer software for Graphic Display
- 1 Year Warranty Included

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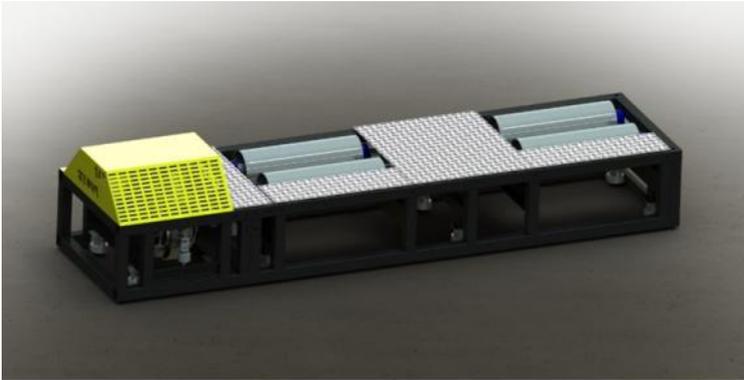
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AUTOMOTIVE CHASSIS DYNAMOMETER



SPECIFICATIONS

PHYSICAL

Weight: 550kg (approx)
LxWxH: 312 x 235 x 50 cm
Deck: 260 x 90 x 25 cm

MAINS POWER

Voltage: 120/240VAC
Frequency: 50/60Hz
Current Draw: 10/5A max

CONTROLLER OUTPUT

Controller Power: 3kW (200V. 15A)
Coms: 9600 baud, 8bit, NP

DYNO

Mech Power: 200kW (400hp in pull)
Torque: 400Nm max Absorption
Roller: 250mm diameter
Speed: Hall Effect, 5V excitation
30 pulse per revolution
4,500 rpm, 180kph max
Load Cell: 1250Nm, 200 to 500 ohm
4-wire Wheatstone bridge
5 or 10V excitation

ENVIRONMENTAL Temp: 10 to 40° C

Operational

0 to 50° C Non-Operational

Humidity: 5 to 90% Non-condensing

Shock/Vibe: <10g

The Automotive Chassis Dyno is widely used by tuning shops to prove power increases to customers. It is also extensively used by R&D organizations and for trouble shooting tough problems, as it can hold the vehicle at a constant load or speed, unlike inertial dynos. A Break Tester is also included for Vehicle Standards testing. Road load mode can simulate road performance for drive cycle testing for emissions or fuel consumption certification testing.



OPTIONS

- Integrated Vehicle Break system test
- Pneumatic lift/break for easy unloading
- High-volume, low noise blower and stand
- Wide Band O2 (AFR) sensor
- Digital Fuel Scale
- 5-Gas Analyzer
- Current/Voltage Clamp Meter
- In-floor or Ramp versions available



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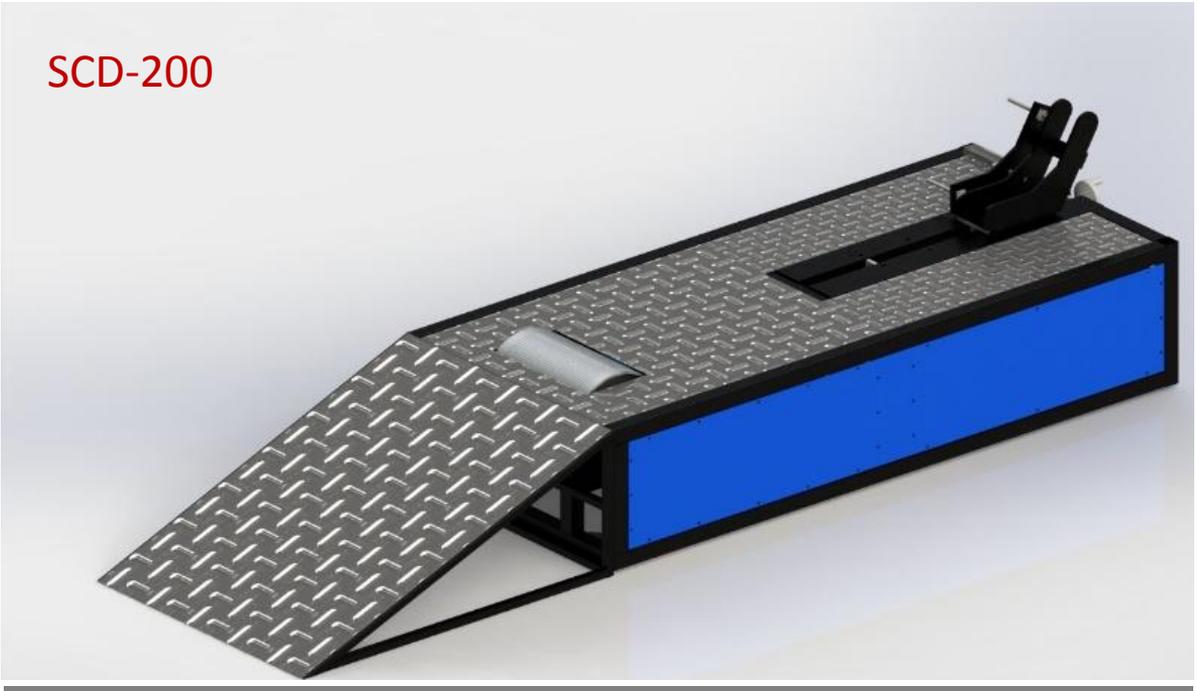
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SUPERBIKE CHASSIS DYNAMOMETER

SCD-200



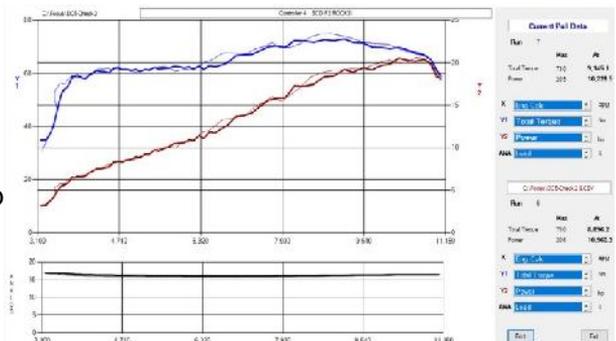
The "Super Bike" loading type chassis dynamometer can extract over 200kw of mechanical power at steady state, and twice that (over 500hp!) in acceleration mode. In spite of the impressive power, the friction is low enough for testing of 100cc bikes. The heavy-duty frame and deep groove textured 12" roller makes this an ideal tool for long-term testing. Large air-cooled retarder gives years of maintenance free service.



FEATURES

- 200kW absorption, over 500hp in acceleration
- 200kph (115mph) top speed
- 12 inch deep-textured roller
- 5th Generation controller included
- Integrated DAQ Input Channels for Logging
- Adjustable Nose for various wheel-base
- Simple/Pneumatic or Screw type nose clamp
- Free computer software for Graphic Display
- 1 Year Warranty Included

* Available in 100 - 300kw



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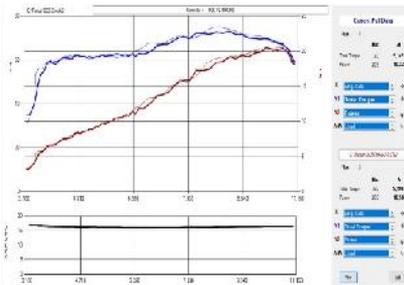
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SUPERBIKE CHASSIS DYNAMOMETER

Model SCD-200



Rear-approach ramp



"Power Pull"



EZ-DYNO Software

Super Bike Chassis Dyno is used for tuning and testing performance motorcycles of all sizes. Because of the large retarder and heavy duty frame it is also suitable for long-duration runs in R&D facilities, engine and motorcycle manufacturers, as well as standards compliance and emissions test centers. The sophisticated controller allows easy drive cycle testing using the Road load mode to accurately simulate road performance for emissions or fuel consumption certification testing. The drive cycle can also be automated (including clutch actuation) for long-term reliability testing.

SPECIFICATIONS

PHYSICAL

Weight: 350kg (approx)
LxWxH: 212 x 135 x 45 cm
Deck: 202 x 90 x 43 cm

MAINS POWER

Voltage: 120/240VAC
Frequency: 50/60Hz
Current Draw: 10/5A max

CONTROLLER OUTPUT

Controller Power: 3kW (300V, 10A)
Coms: 9600 baud, 8bit, NP

DYNAMOMETER

Mech Power: 267hp max
Torque: 600Nm max
Roller: 320mm diameter
Speed: Hall Effect, 5V excitation
30 pulse per revolution
4,500 rpm, 200kph
Load Cell: 1250Nm, 200 to 500 ohm
4-wire Wheatstone bridge
5 or 10V excitation



OPTIONS

- High-volume, low noise blower and stand
- Wide Band O2 (AFR) sensor
- Digital Fuel Scale
- Pneumatic or screw type wheel clamp
- 5-Gas Analyzer
- Current/Voltage Clamp Meter
- In-floor or Ramp versions available

ENVIRONMENTAL

Temp: 10 to 40° C Operational
0 to 50° C Non-Operational
Humidity: 5 to 90% Non-condensing
Shock/Vibe: <10g



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MOTORCYCLE CHASSIS DYNAMOMETER

MCD-100



The Motorcycle Chassis Dynamometer is a modular dynamometer which can be disassembled and rolled away by a single person on the included wheels. Despite its small size, it packs impressive power, with a 300Nm, 10,000 rpm retarder coupled to the 6 inch roller. The Tandem roller configuration makes motorcycle mounting easy, and the nose clamp can be screw adjusted, or slid for wheel base. The bikes nose can be held in a screw-clamp, pneumatic or simple clamp. The same roller-load module can be placed in a shallow pit for in-floor mounting. The dyno can use our R&D quality Gen-5 controller, or the lower cost "embedded" controller for workshops. In either case we have a variety of controller software for all applications.

FEATURES

- 100 kW Absorber (>200hp in acceleration)
- Inertial versions available (can upgrade to loading type later)
- Suitable for motorcycle from 50 to 1500 cc
- Speeds over 200kph at wheel
- Small size easily transported in a car
- Dynamometer Controller
- Includes Analog Input Channels for Logging
- Free computer software for Graphic Display
- 1 Year Warranty Included



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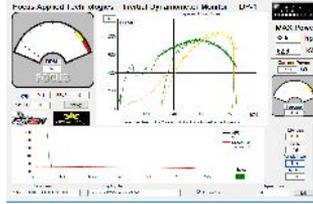
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MOTORCYCLE CHASSIS DYNAMOMETER



Rear-approach ramp



"Power Pull"



EZ-DYNO Software

SPECIFICATIONS

PHYSICAL (roller/dyno unit)

Weight : 70kg (approx)
LxWxH : 900 x 500 x 290 mm

MAINS POWER

Voltage: 120/240VAC
Frequency: 50/60Hz
Current Draw: 10/5A max

CONTROLLER OUTPUT

Controller Power: 3kW (300V, 10A)
Coms: 9600 baud, 8bit, NP

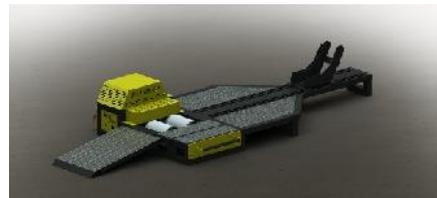
DYNAMOMETER

Mech Power: 200hp max
Torque: 300Nm max
Roller: 165mm diameter
Speed: Hall Effect, 5V excitation
30 pulse per revolution
8,000 rpm, 200kph
Load Cell: 1250Nm, 200 to 500 ohm
4-wire Wheatstone bridge
5 or 10V excitation

ENVIRONMENTAL

Temp: 10 to 40° C Operational
0 to 50° C Non-Operational
Humidity: 5 to 90% Non-condensing
Shock/Vibe: <10g

This small, robust dynamometer is an excellent match for 50 to 1500cc motorcycles. As a loading type dynamometer it can hold vehicles to a given speed or torque for tuning and trouble shooting. The sophisticated controller also allows "pulls" measuring the power, torque and AFR during realistic accelerations. Road Load mode can be used to accurately simulate road operation for drive cycle testing usually for emissions and/or fuel consumption testing and certification. With the optional throttle controller and Clutch Robot, the drive cycle operation can be automated for long-term automated drive cycle testing. The controller can accept additional analog input channels for display and logging. A range of software is available for simple "Dyno Pulls" for racing shops, as well as R&D organizations.



OPTIONS

- High-volume, low noise blower and stand
- Inertia only (upgradable) or Loading type
- Embedded controller or "Stand Alone"
- Low-Cost and Full Frame nose stage
- Wide Band O2 (AFR) sensor
- Digital Fuel Scale
- 5-Gas Analyzer
- Current/Voltage Clamp Meter
- Combustion Analysis



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MOTORCYCLE COMPACT CHASSIS DYNAMOMETER

MCD-50

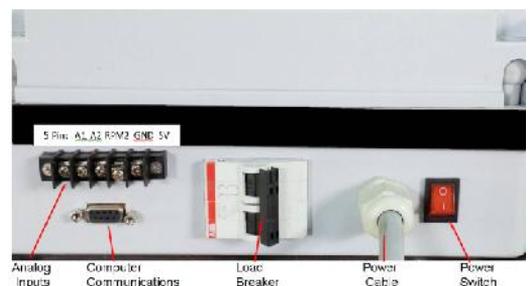


The Motorcycle (Compact) Dynamometer is a modular dynamometer which can be disassembled and rolled away by a single person on the included wheels. Despite its small size, it packs impressive power, with a 70Nm (upgradable to 300Nm) 10,000 rpm retarder coupled to the 6 inch roller. The nose clamp can be easily adjusted for wheel base. The bikes nose can be held in a screw-clamp, pneumatic or simple clamp. The same roller-load module can be placed in a shallow pit for in-floor mounting. The dyno can use our R&D quality Gen-5 controller (DC5), or the lower cost “embedded” controller (DC4) for workshops. In either case we have a variety of controller software for all applications.

FEATURES

- 50 kW Absorber (>100hp in acceleration)
- Inertial versions available (can upgrade to loading type later)
- Suitable for motorcycle from 50 to 1500 cc
- Speeds over 200kph at wheel
- Small size easily transported in a car
- Dynamometer Controller
- Includes Analog Input Channels for Logging
- Free computer software for Graphic Display
- 1 Year Warranty Included

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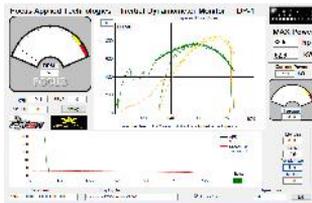
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MOTORCYCLE COMPACT CHASSIS DYNAMOMETER



Rear-approach ramp



"Power Pull"



EZ-DYNO Software

SPECIFICATIONS

PHYSICAL (roller/dyno unit)

Weight : 65kg (approx)
LxWxH : 900 x 500 x 290 mm

MAINS POWER

Voltage: 120/240VAC
Frequency: 50/60Hz
Current Draw: 10/5A max

CONTROLLER OUTPUT

Controller Power: 3kW (300V, 10A)
Coms: 9600 baud, 8bit, NP

DYNAMOMETER

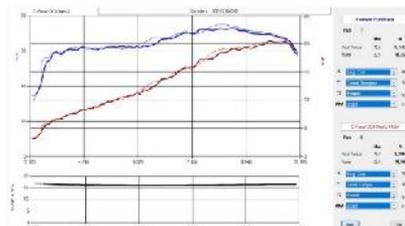
Mech Power: 65hp max
Torque: 150Nm max
Roller: 165mm diameter
Speed: Hall Effect, 5V excitation
30 pulse per revolution
8,000 rpm, 200kph
Load Cell: 1250Nm, 200 to 500 ohm
4-wire Wheatstone bridge
5 or 10V excitation

ENVIRONMENTAL

Temp: 10 to 40° C Operational
0 to 50° C Non-Operational
Humidity: 5 to 90% Non-condensing
Shock/Vibe: <10g



This small, robust dynamometer is an excellent match for 50 to 250cc motorcycles. As a loading type dynamometer it can hold vehicles to a given speed or torque for tuning and trouble shooting. The sophisticated controller also allows "pulls" measuring the power, torque and AFR during realistic accelerations. Road Load mode can be used to accurately simulate road operation for drive cycle testing usually for emissions and/or fuel consumption testing and certification. With the optional throttle controller and Clutch Robot, the drive cycle operation can be automated for long-term automated drive cycle testing. The controller can accept additional analog input channels for display and logging. A range of software is available for simple "Dyno Pulls" for racing shops, as well as R&D organizations.



OPTIONS

- High-volume, low noise blower and stand
- Inertia only (upgradable) or Loading type
- Embedded controller or "Stand Alone"
- Low-Cost and Full Frame nose stage
- Wide Band O2 (AFR) sensor
- Digital Fuel Scale
- 5-Gas Analyzer
- Current/Voltage Clamp Meter
- Combustion Analysis



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DYNAMOMETER CONTROLLERS

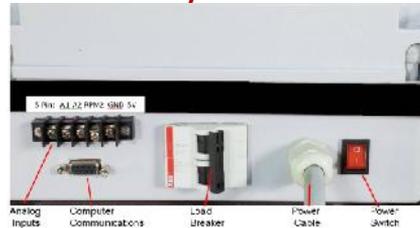
DC5-RM



DC5-MB



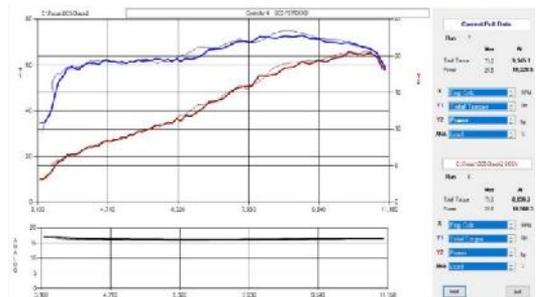
DC4/DC4-I



Along with our extensive line of dynamometers Focus also produces Dynamometer Controllers for use in other manufacturers dynamometers, or for upgrading older systems. Dyno Controller 5 come in a Rack mount (DC5-R) and a bench top (DC5-M) black anodized case with front panel controls and display for Research and Development or Educational systems. The lower cost systems use the same controller embedded (DC4) in the frame of the dynamometer, operating in Computer Control mode. Both controllers can use the same software, and DC4 systems can be upgraded to DC5 controllers at any time. For inertia only dynamometers, we also offer the DC4-I without the retarder power supply.

FEATURES

- Loading: 200V, 15A output
- Inertial and Frictional Compensation
- Universal: Can be used on any dyno
- Suitable for motorcycle from 50 to 1500 cc
- Speeds over 200kph at wheel
- Throttle Command for Automated Testing
- Includes Analog Input Channels for Logging
- Free computer software for Graphic Display
- 1 Year Warranty Included



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OPTIONAL EQUIPMENT

Along with our standard dynamometers and controllers we also feature a large array of optional equipment popular with our customers, and available separately from the dynamometers.

Wide Band O2 Sensor and Display (AFR Meter)

We distribute Innovative Motor Sports AFR meters. These seamlessly integrate into our existing dynamometer controllers for the easiest possible tuning of both carbureted and fuel injected engines. We even have them mounted in a box which includes a pump for tail-pipe AFR testing!

AFR-1



Engine Speed Clamp

You need to know the engine's actual speed during testing. With our Engine Speed Clamp, just clip it on any synchronous signal (injector control current, Spark control current) and you get an instant engine speed measurement. You can plot engine torque vs engine speed without needing to use the gear ratio. A must for CVT and automatic transmissions.

SC-1



Engine Cooling Fans

To remove heat from the engine during dyno runs, we have a variety of high-flow cooling fans. For motorcycles we recommend 1000 CFM air flow, and 5000 CFM for cars, or 10,000 CFM for trucks and busses.

ECF-1/5/10



Dyno Side Table with Monitor Stand

Having trouble reaching your laptop? Need a place to store your tools? Want to see your torque curve on a big screen? Try our dyno side stand, designed especially for use with our MCD-ACD dyno series. It includes a heavy duty frame on rollers, powder coated paint, 3 shelves (including a removable tool bin) and an adjustable monitor stand.

FSS-M/A



Integrated Weather Station

When compensating for atmospheric pressure, altitude or temperature variations it is important to have accurate Temperature, Pressure and Humidity numbers. These can be automatically read from Integrated Weather. This automatically updates the Temperature and Pressure of the test, and SAE correction factor is calculated and applied.

WS-1

Power Correction Factors:	<input checked="" type="checkbox"/> AUTO Data
Ambient Temp (15-35 C)	25
Pressure (90-105 kPa)	105
% Rel. Humidity	50



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OPTIONAL EQUIPMENT

Current Clamp Meter

Available in many different current ranges this is used in diagnosing vehicle electrical power issues, electric and hybrid vehicle systems. Currents from <10A to over 1000A are available

CCM-60/600



Hand Held Remote

For remote actuation of Load, Break and List/Break or Pneumatic Clamp, you only need the Dynamometer Remote Control hand held unit. This can be used for starting tests, and incorporated into a number of automated test sequences.

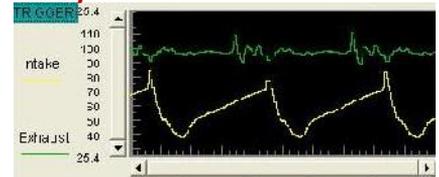
DRC-3



Intake and Exhaust Pressure Sensors

Serious tuners know that intake and exhaust flow is key to getting the most out of an engine. Instead of guessing, you can measure the intake and exhaust pressures and actually see how the air/exhaust flow is effected by the intake and exhaust system design.

MP-1/2



OBD Scanner

To simultaneously read from the vehicles On Board Diagnostics, you can use our OBD-Scanner. This integrates seamlessly with out dynamometer controllers, and allows you to view and save the OBD data.

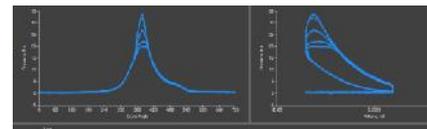
OBD-S/I



Combustion Analysis

If you really want to know what's happening in the combustion chamber, you really need our Combustion Analysis system. This includes a combustion pressure sensor, high-precision shaft encoder, and high-speed DAQ to see the actual pressure in the combustion chamber during engine operation.

CAS



SENSORS

We offer w wide range of sensors to help you tune your engine quickly and safely. These can be read via the dynamometers Analog Inputs, or extended DAQ module. Sensors include: Thermocouple, Thermistor, Mass Air Flow, Exhaust Gas Temperature, Knock Sensor and many more.



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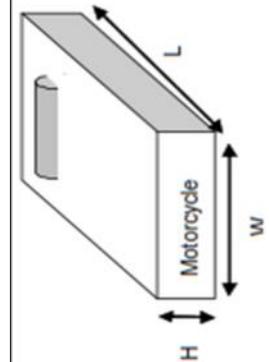
GENERAL SPECIFICATION

Focus Applied Technologies

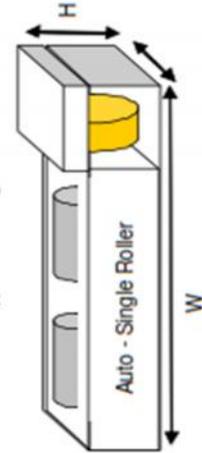
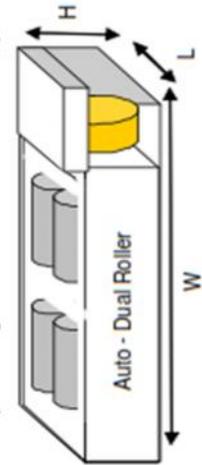
Chassis Dynamometer Specifications

REV: 11-16

Dynamometer:	Units	Motorcycle										Auto - Truck - Bus			
		CCD-10	CCD-50	SCD-50	SCD-100	SCD-200	SCD-300	ACD-100	ACD-300	ACD-500	ACD-1000				
Absorber Power	KW	7.5	10	15	50	75	150	200	300	500	1000	100	300	500	1000
Maximum (Acceleration) Power	KW	10	15	40	67.5	135	400	600	1200	2400	4800	400	600	1200	2400
Nominal Max Torque (at dyno)	Nm	0.101	0.17	0.17	0.17	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Roller Diameter	m	0.101	0.17	0.17	0.17	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Maximum Surface Force	N	248	471	794	844	2500	3000	3000	3000	3000	3000	3000	3000	3000	3000
Maximum Speed	rpm	5000	2500	7500	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Maximum Speed	kph	95	78	234	200	200	200	200	200	200	200	200	200	200	200
Gear Ratio (Dyno/Roller)		2	2	1/2	1	1	1	1	1	1	1	1	1	1	1
Power Required	V	240	240	240	240	240	240	240	240	240	240	240	240	240	240
Power Required	A	4	4	6	6	15	20	25	25	25	25	25	25	25	25
Power to Dyno	V	75	100	100	100	100	100	100	100	100	100	100	100	100	100
Power to Dyno	A	3	3	8	9	22.5	30	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
Single Roller	Dimensions L	500	900	1200	2020	2020	2020	2020	2200	2200	2200	500	500	500	540
	W	160	500	500	890	890	890	890	900	900	900	3000	3000	3000	3000
	H	170	290	450	460	460	460	460	480	480	480	460	460	480	520
Weight	kg	18	70	170	300	330	360	360	550	550	600	720	1000	1000	1000
Dual Roller	Dimensions L											540	540	540	580
	W											3000	3000	3000	3000
	H											460	460	480	520
Weight	kg											963	1050	1260	1750



Specifications subject to change without notice. For latest information please contact us at www.FocusAppliedTechnologies.com



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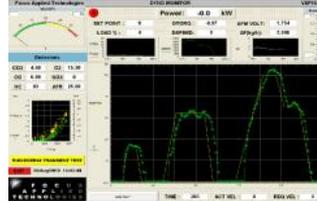
Tel : +60 116322699

CUSTOMER SUPPORT SERVICE

We make the only Automotive Engine Dynamometer built in South East Asia. We offer a wide variety of dyno configurations including: Water and Air-cooled Eddy Current, Hydraulic and Water-break. We produce dynamometers for both above ground, and in-pit placement. Our dynamometers come with easy to use integrated drive cycle testing, and can be integrated into your Vehicle Tracking Database. We also offer a huge range of additional accessories including exhaust analyzers, cooling fans and etc.



Finally as we are designed and built locally, we service everything we sell, and can offer maintenance plans to keep you're equipment running.



DYNAMOMETER SERVICING

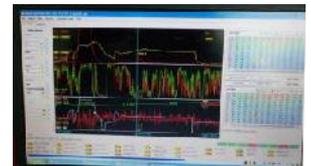
Our talented staff has been working on dynamometers for over 25 years. We've installed dynamometers at industrial sites, government research bodies, academic institutions and research and development centers around the world. As the only manufacturer designing our own equipment in South East Asia we have also taken over Servicing, Repair and Maintenance on a wide range of other manufacturers machines including:

- Accurate Test Equipment
- API Com
- AVL
- Borghi & Saveri
- Clayton
- Cussons
- Dayton
- Digilog
- SAJ
- DynoJet
- DynoMite
- Gunt
- Froude Hofmann
- Magtrol
- Maha
- Mustang
- Precision Engineering
- SuperFlow



Mobile Console

Because we also use dynamometers (we offer a wide range of engineering testing services, as well as engine R&D) we know what dyno users want, so our systems are some of the most sophisticated, and easiest to use in the industry. All of our systems allow road simulations tests, with arbitrary drive cycles, and integrated emissions measurements of both vehicles and engines as well as long-term reliability testing of components.



1300 hp Load Unit



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