



**||RACE***dynamics*



## About us

**We are an Automotive Research & Development Facility recognised by the Department of Scientific and Industrial Research - Government of India. Race Dynamics is involved with Research, Design, Development, Manufacturing, Sales & Support of automotive and related electronic components.**

**We follow a very unique methodology of product and solution development here we involve real-world environments into all aspects of the development programme – ensuring that target requirements are not only exceeded, but also delivered in the shortest time without having to endure frequent iterations in the development cycle. As an extension of our ‘Performance through Innovation’ strategy, we also develop the testing and manufacturing sub-systems for the main products in house, which gives us an unparalleled advantage of not only the product solution but the complete ecosystem around it. We have Engine Simulators, Dynamometers, Mass Test & Validations Systems, etc. which were built to test our products, turning out to be complete products themselves!**



# Products

## Performance Products:

1. PowerTRONIC
2. DieselTRONIC
3. R200
4. PowerTUNE

## Mobility Solutions:

1. Track Logic
2. Intelligent Vehicle Management

## Test Systems:

1. Dynamometer
2. Fuel flow meter
3. Vehicle Tracking and Pollution Monitoring
4. Weather Station

## Safety Systems

1. Interceptor+
2. Speed Governor



# Services

1. Dyno testing & tuning
2. R&D solutions
3. Formula SAE/ Baja
4. CodeTRONIC (True custom Remap)
5. PCB Design



# Dynamometers

**A dynamometer , or a dyno, is a tool that primarily measure the horsepower and torque of a vehicle/powertrain, with additional measurements such as top speed, gear ratios, transmission slip, endurance, air fuel ratio, engine temperature, etc.**

**We design and develop these dynamometers to custom specifications as well, be it an environmental test cell, or a motorsport rolling road.**

**We have rolling road options that are:**

- 1. DynaRD B300**
- 2. DynaRD CS1000 Floor mounted**
- 3. DynaRD CS1000 Pit mounted**
- 4. DynaRD CD1200 Pit mounted**

# DynaRD B300



**DynaRD**  
DYNAMOMETERS



## Technical Specifications:

Model: DynaRD B300 Motorcycle Dynamometer

Power Measurement Capability:

Max Horsepower: 300 whp

Max Speed: 300 km/hr

Controller: Dyno Controller with Integrated Weather Station

Application: Windows based Power Dyno Software.

Bike Dyno Wheel Base:

Minimum: 1562 mm

Maximum: 1930 mm

Cooling Equipment: Axial Blower 10000 CFM

Power Requirements: 240V 15A Single phase for blower

Shipping Weight: 800 kg (dynamometer weight only)

\*SAE Corrected Outputs: Power and Torque.

# DynaRD CS1000



**||dynaRD**  
DYNAMOMETERS





## Technical Specifications:

Model: DynaRD CS1000 V2  
(2 Wheel Drive Car Dyno with Motorcycle Compatibility)

Power Measurement Capability: Max Horsepower  
Car: 1000 whp  
Bike: 300 whp  
Max Speed: 300 km/hr

Controller: Dyno Controller with Integrated Weather Station

Application: Windows based Power Dyno Software.

Car Dyno Track Width:  
Minimum: 600 mm  
Maximum: 2200 mm

Bike Dyno Wheel Base:  
Minimum: 1562 mm  
Maximum: 1930 mm

Cooling Equipment: Axial Blower 10000 CFM  
Power Requirements: 240V 15A Single phase for blower

Axle Load Capacity: Maximum 1000 kg

Shipping Weight: 1300 kg (dynamometer weight only)

\*SAE Corrected Outputs: Power and Torque.

# DynaRD CD1200





# Technical Specifications:

Model: DynaRD CD1200

(All Wheel Drive Car Dyno with Motorcycle Compatibility)

## Power Measurement Capability:

4 Wheel Drive Mode

Max Power: 1500 whp

Max Speed: 300 km/hr

2 Wheel Drive Mode

Max Power: 1000 whp

Max Speed: 300 km/hr

Bike

Max Power: 300 whp

Max Speed: 300 km/hr

Controller: Dyno Controller with Integrated Weather Station.

Application: Windows based Power Dyno Software.



Car Dyno Track Width:

Minimum: 600 mm

Maximum: 2200 mm

AWD Mode Wheel Base:

Maximum: 3200 mm

Bike Dyno Wheel Base:

Minimum: 1562 mm

Maximum: 1930 mm

Cooling Equipment: Axial Blower 10000 CFM

Power Requirements: 240V 15A Single phase for blower

Axle Load Capacity: Maximum 3000 kg

Shipping Weight: 2500 kg (dynamometer weight only)

\*SAE Corrected Outputs: Power and Torque.



## **Kit Contents:**

1. Dynamometer
2. Dyno controller with Integrated weather station and data acquisition system
3. USB cables
4. Axial blower
5. Vehicle ramps (For floor mounting dyno only)
6. Straps

## **Accessories:**

1. Eddy current absorber (user requested hp and torque)
2. Additional axial blowers
3. Wideband sensor and interface to software
4. Two temperature sensor inputs - NTC TYPE ( Exhaust gas, intake air, engine, etc)
5. Display system



Thank you for your perusal.

For more information, contact us.

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