



Amerschläger

Dynamometers

for two-wheelers



p4dyno.com

Amerschläger P4

ABOUT US

Our company was founded in 1983 by Alfons Amerschläger near Frankfurt. From the very beginning, we have concentrated exclusively on the construction of dynamometers. Under Alfons' leadership, Amerschläger P4 was continuously expanded, and new products and software solutions were added. Our central concern has always been: Highest quality and customer satisfaction. Richard Speiser has been the new owner and managing director of Amerschläger P4 since 2020. Our company is now based in the beautiful Allgäu region in Börwang. As a multiple long track team world champion and long track vice world champion, Richard Speiser brings a huge amount of experience from motorsport. Under his leadership, we will continue to focus on innovative ideas and concepts to deliver the best solutions to our customers.

Amerschläger P4 is your reliable and competent partner when it comes to performance measurement. We offer high-precision chassis dynamometers "Made in Germany", which have been specially developed for motorcycles, mopeds, scooters, Vespa and Simson. Our customers include well-known motorcycle manufacturers, racing teams, workshops, tuners and hobby mechanics.

Why to buy an Amerschläger P4 dynamometer

5 REASONS



Experience

We have been building and developing dynamometers for over 40 years. We know what is important.



Quality

Our products are manufactured in Germany. We pay attention to the best workmanship.



Precision

Our test benches deliver precise and reproducible results.



Reliability

Our customers know that they can rely on us.



Progress

We are constantly developing our products. Standing still does not suit us.



For motorcycles from 0.1 - 300 hp

DYNAMOMETERS

We offer a comprehensive range of test bench solutions specifically tailored to the requirements and needs of two-wheeled vehicles. Our test benches cover a wide power range, from 0.1 hp for the smallest drives to an impressive 300 hp for the most powerful machines on the market.

Our dynamometers are plug & play ready and include the highly functional electronic components Redbox and Blackbox as well as the modern P4 dyno software.

Additional equipment in the areas of electronics, cooling, extraction and noise protection is available for all our test benches. We will be happy to advise you and meet your individual requirements.

Modular and flexible

THE P4 CONCEPT



Individually adaptable



Updates & upgrades



Easy shipping



Quick set-up



P4 CONCEPT



The Rookie (up to 100 hp)

P4 SC100

- Compact and lightweight construction
- Modular system: Consisting of three main components - front section, roller support section and ramp section
- Adaptable and flexible: individual parts can be easily replaced if required

Dimensions (L x W)	approx. 2200 x 880 mm
Weight power roller	approx. 200 kg
Weight dynamometer	approx. 300 kg
Motorcycle footprint above ground	approx. 275 mm

The Rookie Plus (up to 100 hp)

P4 SC100 EC

- SC100 supplemented by an eddy current brake
- Complex simulations and developments in the smallest of spaces
- Automatic or manual control of the eddy current brake

Dimensions (L x W)	approx. 2200 x 1300 mm
Weight power roller	approx. 200 kg
Weight dynamometer	approx. 380 kg
Motorcycle footprint above ground	approx. 275 mm



The All-rounder (up to 200 hp)

P4 DYNAMIC

- Proven reliability: The most frequently built Dynamometer with maximum precision
- Perfect for creating full-load performance curves
- Upgradeable to P4 Simulator

Dimensions (L x W)	approx. 2300 x 1200 mm
Weight power roller	approx. 500 kg
Weight dynamometer	approx. 650 kg
Motorcycle footprint above ground	approx. 435 mm

The uncompromising one (up to 300 hp)

P4 SIMULATOR

- Extended functionality: based on the P4 Dynamic with integrated eddy current brake
- Versatile load simulation: manually or automatically controlled resistance simulation
- Highest precision: additional measurement channels for comprehensive and precise power measurements

Dimensions (L x W)	approx. 2300 x 1200 mm
Weight power roller	approx. 500 kg
Weight dynamometer	approx. 750 kg
Motorcycle footprint above ground	approx. 435 mm



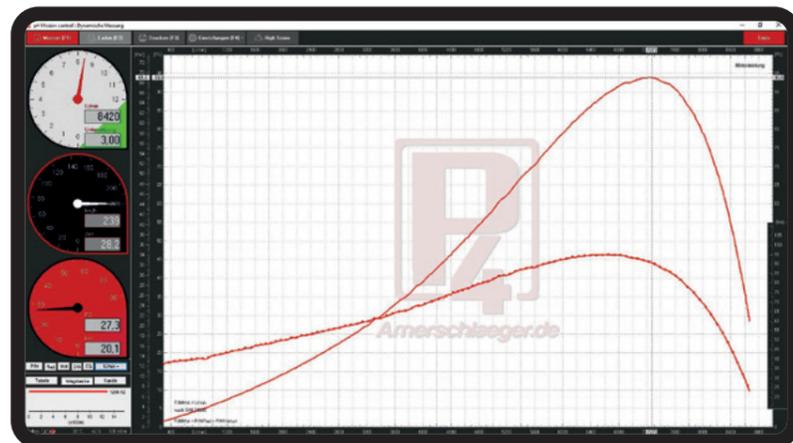
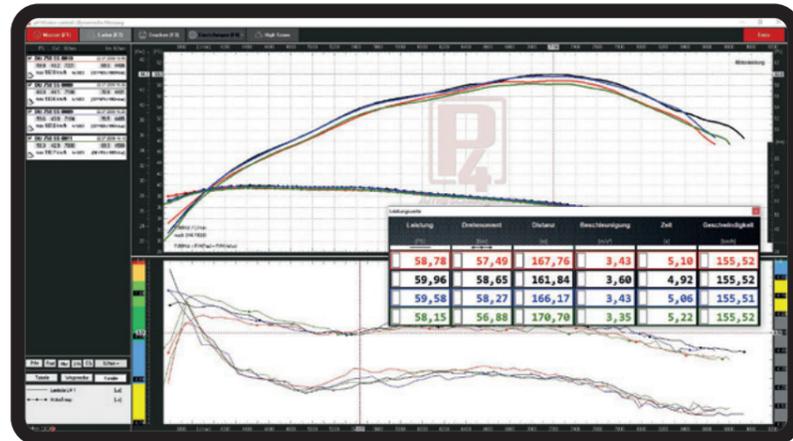
Software

MISSION CONTROL APP

Get even more out of your Dynamometer with our software. The P4 Mission Control App convinces with a modern design and a wide range of measurement and evaluation options. In addition to individual displays, new measurement modes and continuous measurements, there are preview windows, comparable performance values in the extra window and colour scaling of the additional channels.

The P4 Mission Control App offers pioneering functions for professional power measurement. It takes dyno technology to a new level and makes power measurements even more effective, intelligent and efficient.

- Dynamic measurement in bike or scooter mode
- Continuous measurement
- Additional window power values
- Display of wheel power or engine power
- Temperature measurement, air pressure and humidity
- Standardization according to DIN, EG or without correction
- Vehicle table with creation of own vehicles
- Window can be scaled and moved
- Viewer version included
- Average values & high score table
- German or English
- Customer logo can be integrated



Electronics

MEASURING, EVALUATING & CONTROL

Our Dynamometers are characterized not only by their outstanding mechanics, but also by the combination of excellent craftsmanship, advanced software development and highly functional electronic components that form the heart of our products.

We know that Quality is in the detail. That's why we focus on electronics that not only work reliably, but also improve measurement accuracy and simplify the handling of our products. Discover our constantly growing product range and experience how our latest electronic components not only improve but also simplify your measurements.

REDBOX

- Electronic data box for measurement data acquisition
- Indispensable for every power measurement
- Easy to update and expand



BLACKBOX

- Customized PC with pre-installed tools and the P4 software
- Ready for immediate use without additional installation
- Numerous USB and HDMI connections

LIGHTBOX

- Simple acquisition of engine speed using ignition or signal cable
- Connection to the Redbox with fibre optics
- Integrated test button



CANBOX

- Recording the engine speed via OBD port
- Ideal if there is no access to the ignition cable
- Compatible with all modern motorcycles with CAN bus

TEMPBOX

- Acquisition and recording of engine or exhaust gas temperatures
- Fine tuning of the engines through precise monitoring of the optimum temperature range
- Particularly popular for tuning two-stroke engines



LAMBDATOOL

- Precise measurement and recording of lambda & AFR
- Bosch LSU 4.9. lambda sensor
- Integration in Redbox and Mission Control App



COOLING AND EXTRACTION

- Radial & axial cooling fans for cooling all performance classes
- Reinforced radial blowers and high-temperature-resistant hoses for exhaust gas extraction
- P4 silencer for noise reduction



NEW DEVELOPMENTS

REDBOX V4 OBD

The P4 Redbox v4 OBD not only combines Redbox, Lambdatool and CANBox in one device, but also records all data supplied by the CAN bus. This requires the motorcycle to be connected to the OBD port of the Redbox with just one OBD cable.

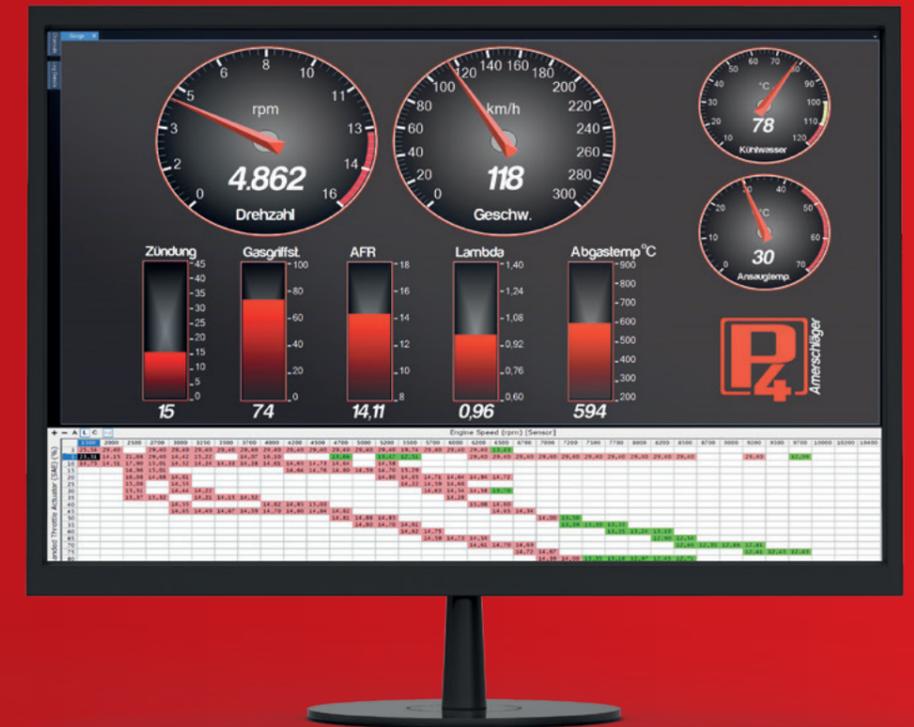


- OBD connection for recording and evaluating all data from the motorcycle's CAN bus e. g.:

- | | |
|----------------------------------|------------------------------|
| » RPM | » Oil temperature |
| » Throttle Position | » Coolant temperature |
| » Throttle valve position | » Mapping |
| » Lambda | » Ignition |
| » AFR | » Airbox pressure |

- Can be used with all P4 dynamometers
- Compatible with most control units
- Connection of external Bosch LSU4.9 lambda sensors
- Additional software to the Mission Control App

Live display of all channels from the CAN bus



Creation of grid measurements: Lambda/AFR via RPM and throttle position

EC-CONTROL

- Central control unit of the dynamometer
- Control of the eddy current brake
- Selection of automatic or manual control
- Ramp control
- Manual potentiometer for setting the braking force
- Braking force display from 0-100%
- Colour display of the braking force
- Brake and coupling button (braking and "decoupling" of the eddy current brake)
- Wheelbase adjustment

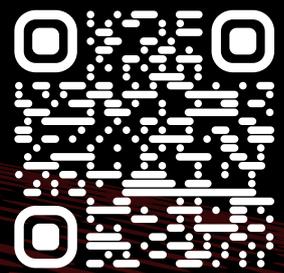




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