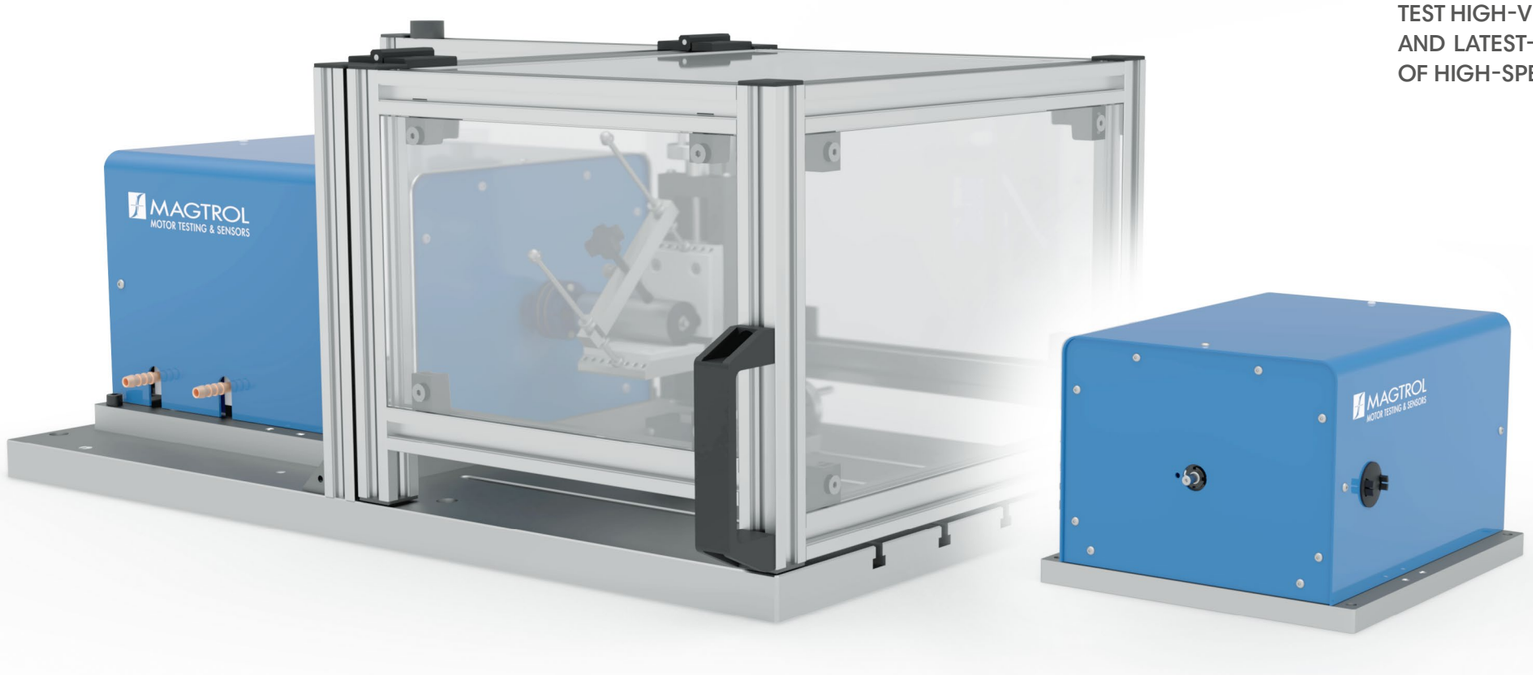
MAGTROL
MOTOR TESTING & SENSORS

NEW EDDY-CURRENT DYNAMOMETERS DESIGNED FOR HIGH-SPEED APPLICATIONS !

MAGTROL IS PROUD TO INTRODUCE TWO NEW EDDY-CURRENT DYNAMOMETERS, DESIGNED TO TEST HIGH-VELOCITY MOTORS AND DRIVE SYSTEMS UP TO 80 000 rpm. THESE HIGH-PERFORMANCE AND LATEST-GENERATION DYNAMOMETERS OFFER RELIABLE PERFORMANCE FOR A WIDE RANGE OF HIGH-SPEED APPLICATIONS.



Magtrol offers a standard version integrating the dynamometer on a base plate. This plate has 4 T-Slots to facilitate the attachment of other components and an ergonomic protective cover for the safety of the user.

As an option, the system can also be supplied with an **AMF-1 - Adjustable Motor Fixture** for mounting and alignment of devices with diameters ≤ 100 mm and ≤ 4.5 kg.

MAIN FEATURES

- Torque: 400 mN·m / 800 mN·m;
- **Speed: up to 80 000 rpm**;
- Power: 0.5 kW / 1 kW;
- **Accuracy: ± 0.5 %**;
- Low Moment of Inertia;
- Stable & smooth Braking Torque;
- Built-In Electronics with Torque & Speed Measurement & Excitation;
- For demanding test conditions;
- Compact, all-in-one design;
- Available as system (with protection, base plate, mounting, etc.).

Based on its experience with very high-speed dynamometers (≥ 300 000 rpm), MAGTROL releases two new models to complete its WB Series Dynamometer range. The 1WB32 and 2WB32 Eddy-Current dynamometers are designed to test high-speed motors and drive systems ≤ 80 000 rpm.

This advanced equipment offers nominal braking torque of 400 mN·m (1 WB 32) and 800 mN·m (2 WB 32). Each system integrates a speed measurement capability with 4 PPR (Pulses Per Revolution) and features a precision **RT 200 - Reaction Torque Sensor** with a measurement accuracy of ± 0.5 % full scale. An internal water-cooling circuit enables continuous power dissipation of up to 500 W (1 WB 32) and 1 kW (2 WB 32), ensuring stable performance during demanding test conditions.

Connected to the **DSP 7010 - Dynamometer Controller**, these dynamometers are fully compatible with Magtrol's **M-TEST Software** (LabVIEW™-based), allowing for seamless configuration, data acquisition, and test automation.

To support a complete testing solution, optional accessories such as fixtures, protective covers, and high-speed couplings are available, making the WB 32 Series a turnkey system tailored for advanced motor testing needs.

The WB 32 Series expands Magtrol's high-speed testing portfolio, complementing the **WB 23 & WB 27** models, which support testing ≤ 100 000 rpm, and the **MSD - Mega Speed Dynamometer**, engineered specifically for **testing dental and surgical tools** up to 300 000 rpm.

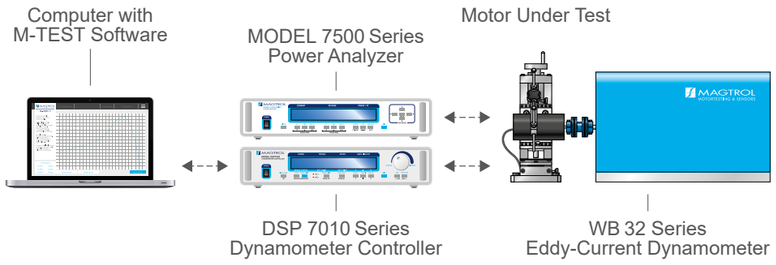
These latest developments highlight Magtrol's expertise in motor testing technology and solutions, from 1 W to larger systems reaching up to 140 kW.

Looking for a Custom Motor Testing System? Challenge us!

SYSTEM CONFIGURATION IN EXTENSIVE TEST ENVIRONMENTS

The WB 32 Series Dynamometers can be used in combination with a Magtrol **DSP 7010 Series - Dynamometer Controller** to provide closed-loop control of the test system. Moreover, the DSP 7010 displays the measured torque, rotational speed, mechanical power of the tested motor and has an integrated alarm system for user-defined limit values.

A **MODEL 7500 Series - Power Analyzer** (single or three-phase) will be an indispensable component of a test system for measuring motor efficiency. It can be integrated into the system, as can, for example, Magtrol's temperature test equipment.



EXPANSION OF THE PRODUCT RANGE

The new WB 32 Series - Eddy-Current Dynamometer completes Magtrol's range of **WB Series - Eddy-Current** devices.

In response to requests from manufacturers who need to certify their components for higher speeds, the WB 32 Series is positioned as a dynamometric brake offering sufficient torque versus speed ratio for standard tests, such as sampling, certification, end-of-line pass/fail testing, etc.