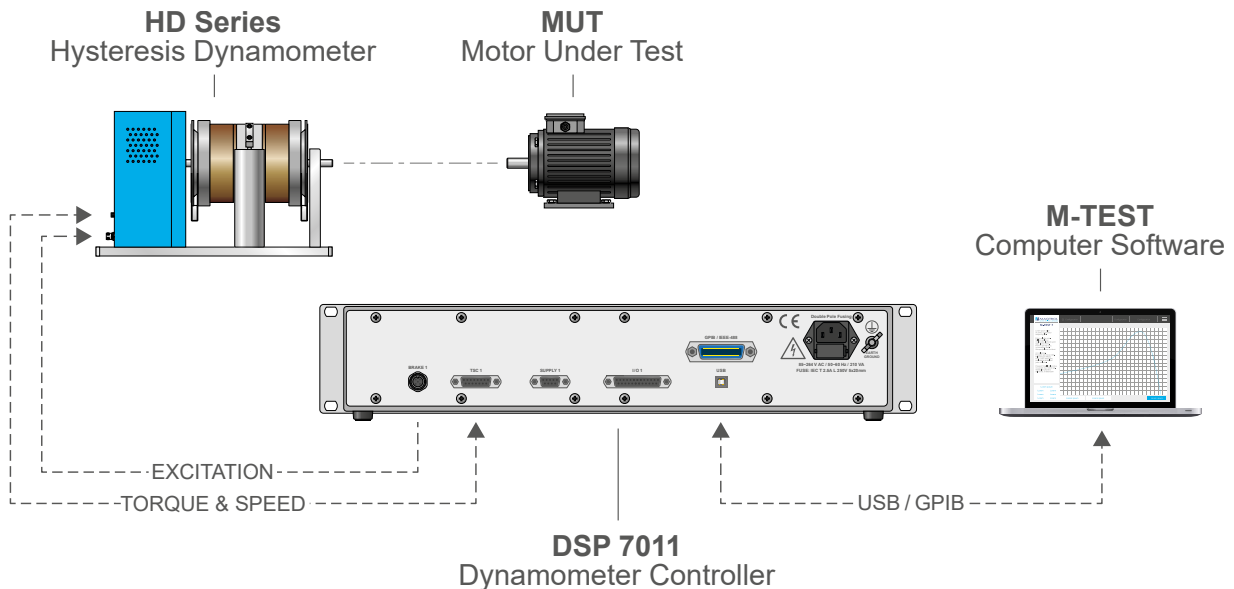


DSP7010 SERIES

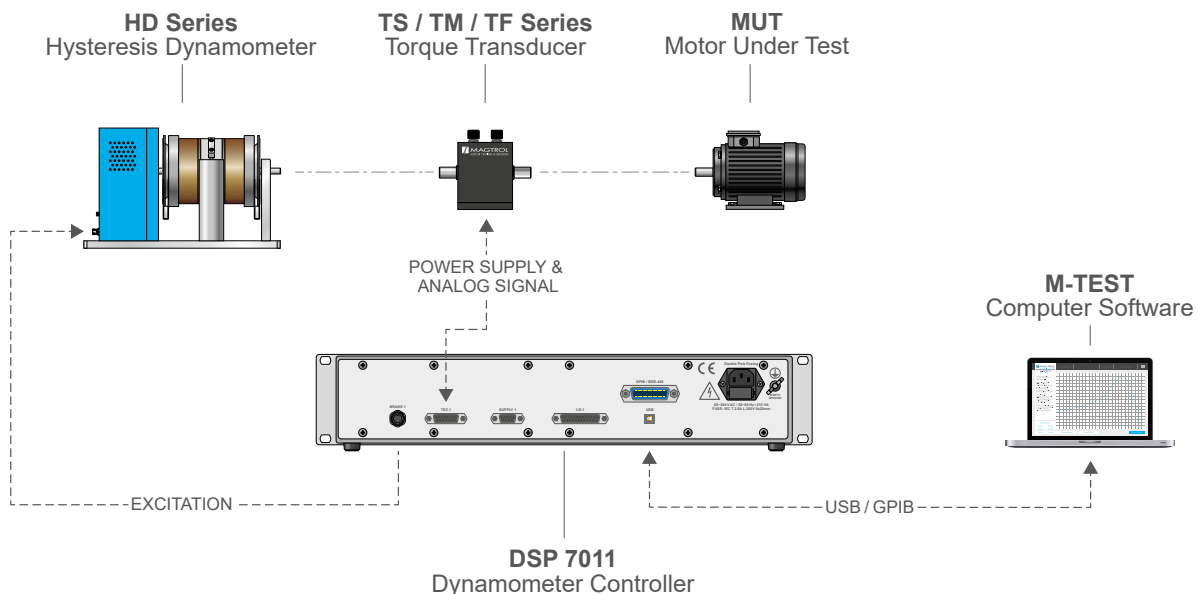
SYSTEM CONFIGURATIONS

1. HYSTERESIS DYNAMOMETER (STANDARD)



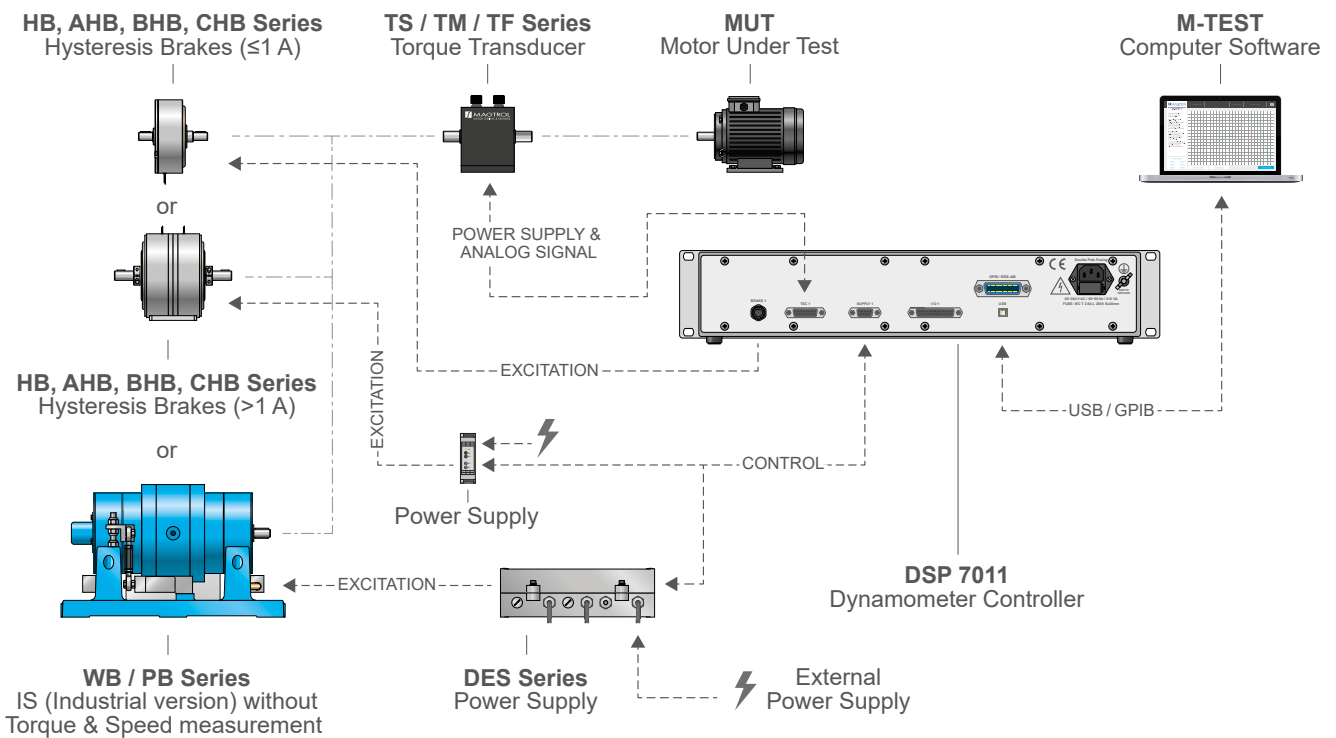
Easy-to-use standard configuration. The HD Series Dynamometer provides both braking power and torque measurement. The single-channel DSP 7011 drives the dynamometer and serves as the acquisition interface.

2. HYSTERESIS DYNAMOMETER (HIGH ACCURACY)



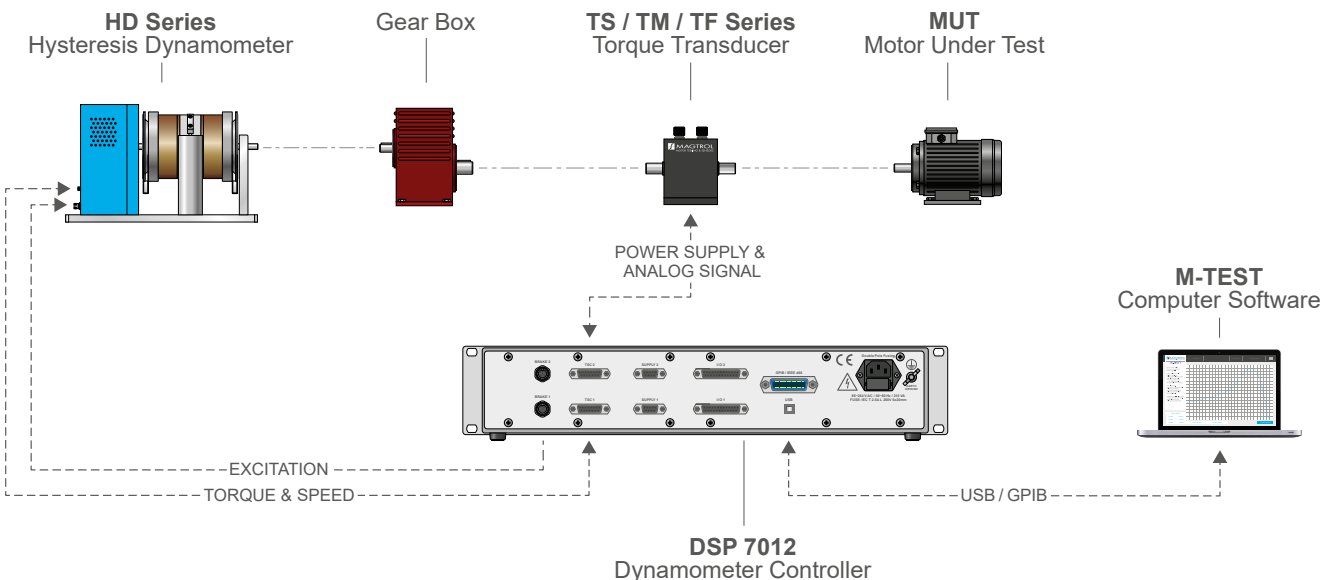
In a similar way, but differently from configuration #1, torque is measured using an external torque transducer, rather than the one integrated in the HD Series Dynamometer. The advantage of this extended configuration lies in the measurement accuracy of the torque transducer, which is more accurate than the one integrated in the dynamometer.

3. BRAKES & TORQUE SENSOR



Alternative for standard configuration #1 or #2. The single-channel DSP7011 controls a Hysteresis Brake or Dynamometer and acquires the signal from an external Torque Sensor. The DSP7011 also serves as an interface for PC connection (M-TEST software). The advantage of this configuration lies in the scalability and modularity of the components.

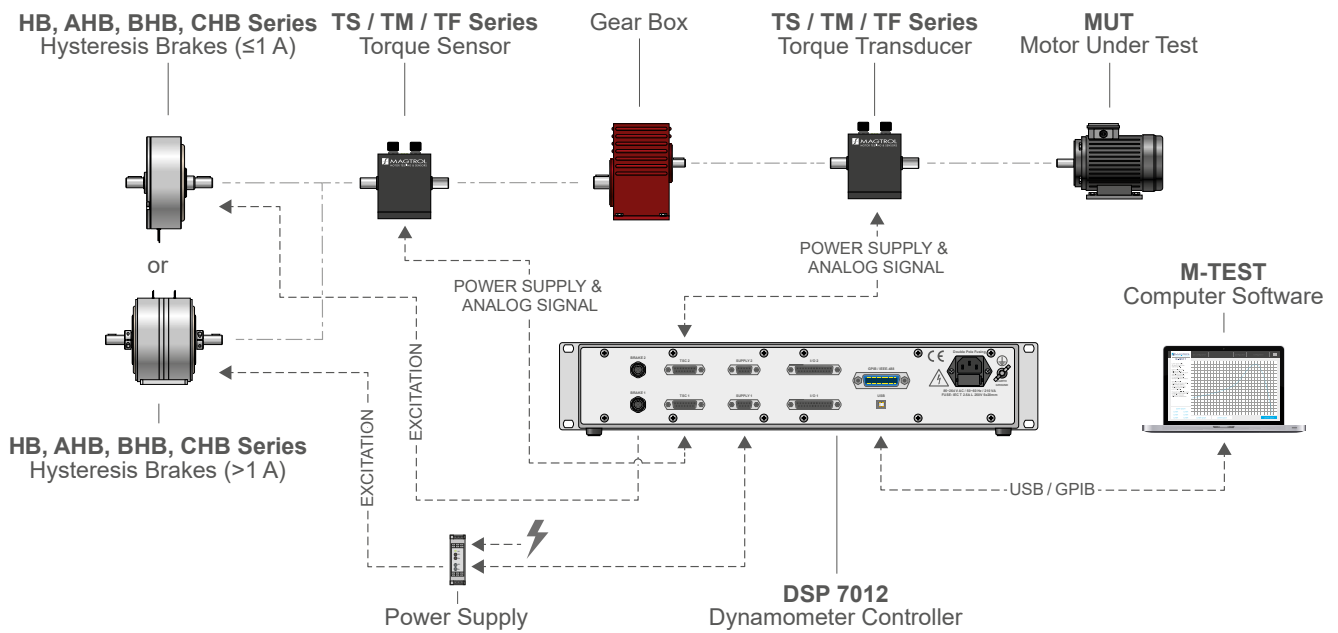
4. HYSTERESIS DYNAMOMETER & TORQUE SENSOR



This configuration combines modularity and precision. Thanks to the various components, it is possible to measure the efficiency and effectiveness of the motor and gearbox individually, but in a single test system.

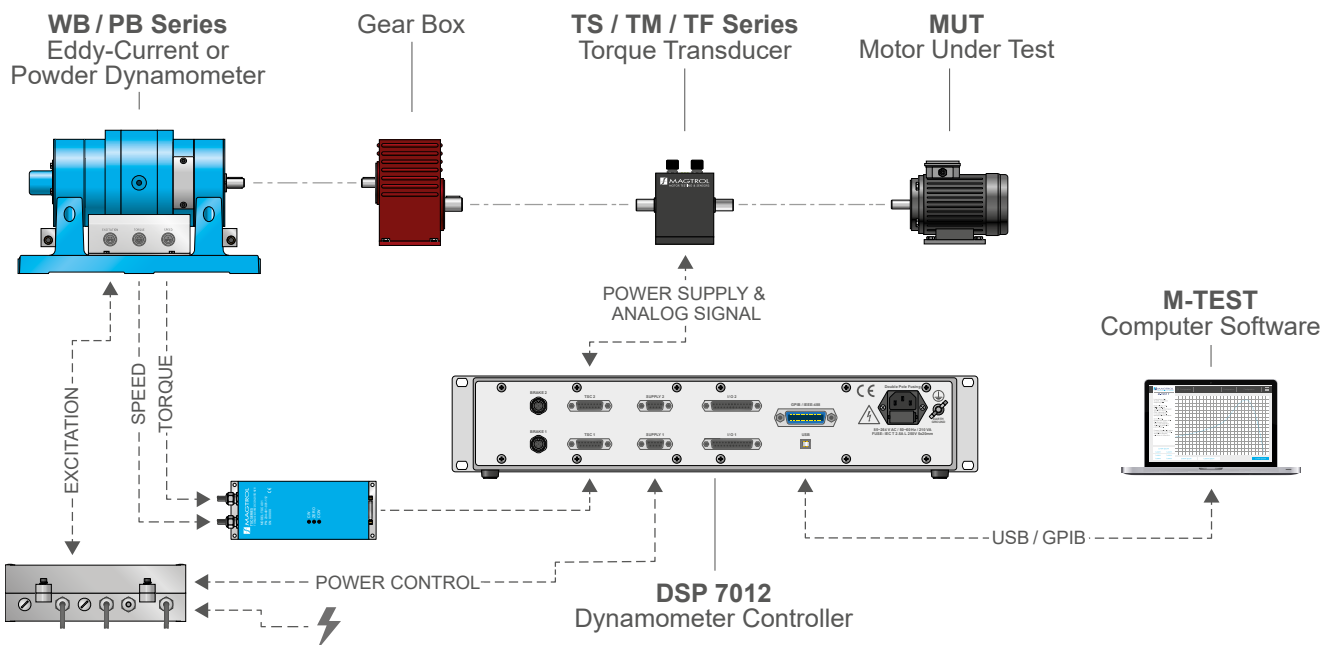
A dual-channel DSP7012 is required to instrument and power the dynamometer and torque transducer separately. The DSP7012 also serves as an interface for connection to the PC (M-TEST software). The advantage of this configuration lies in its ease of use, while offering a certain degree of modularity.

5. HYSTERESIS BRAKE AND 2 TORQUE SENSORS



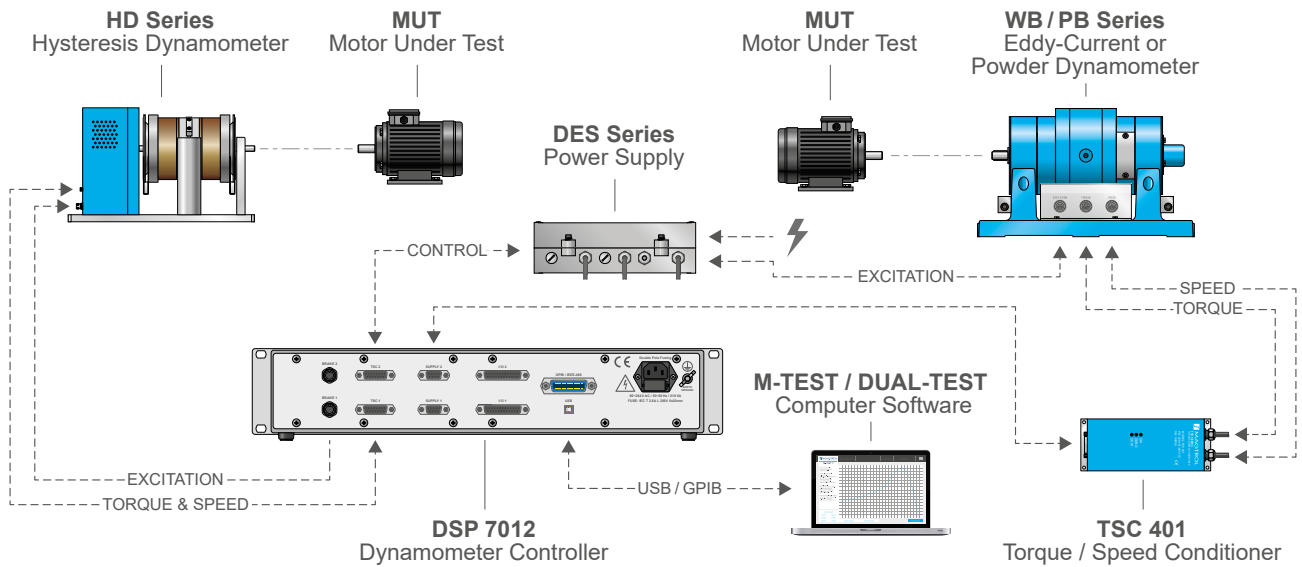
Alternative to configuration #4. A dual-channel DSP 7012 is required to instrument all components. Differently from configuration #4, the performance measurement and efficiency of the motor and gearbox can be calculated with greater precision. The DSP 7012 also serves as an interface for connection to the PC (M-TEST software). The advantage of this configuration lies in the scalability and modularity of the components.

6. EDDY-CURRENT / POWDER DYNAMOMETER & TORQUE SENSOR



Alternative to configuration #5 using a WB Series (Eddy-Current) or PB Series (Magnetic Powder) Dynamometer. In this configuration, a dual-channel DSP7012 is required to instrument all components. The DSP also serves as an interface for PC connection (M-TEST software). The advantage of this configuration lies in the scalability and modularity of the components.

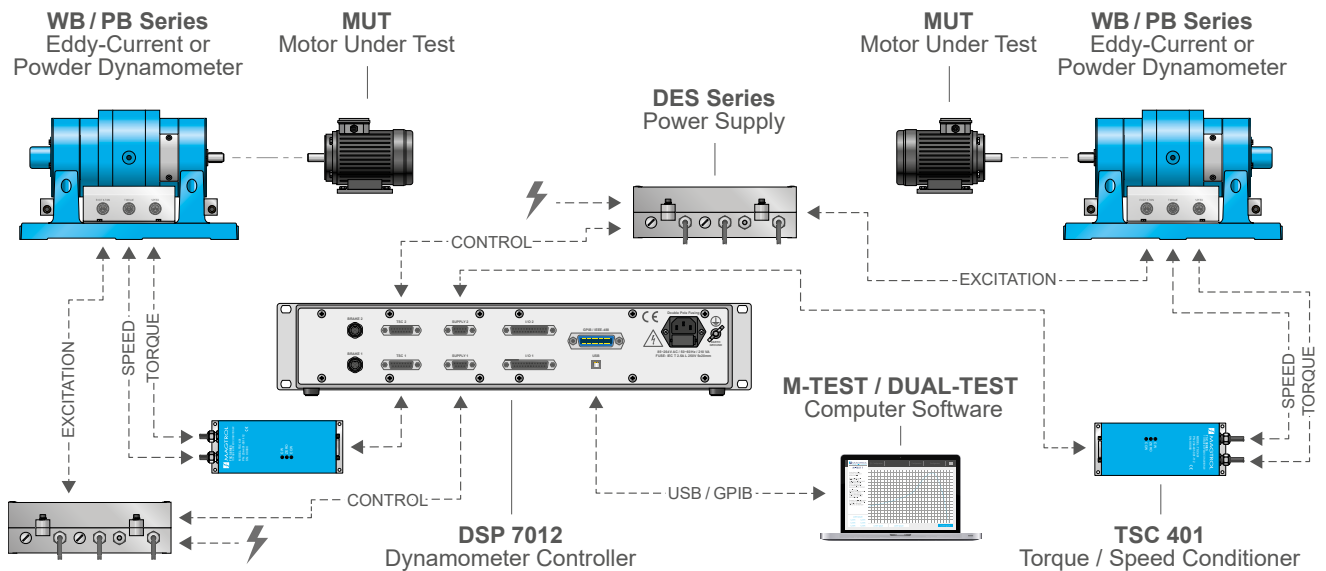
7. 2 CHANNELS CONFIGURATION (HD + WB / PB)



This configuration allows two systems to be controlled by the same DSP7012. It can be either a test bench for testing two motors of different types (or the same motor with two different characterizations).

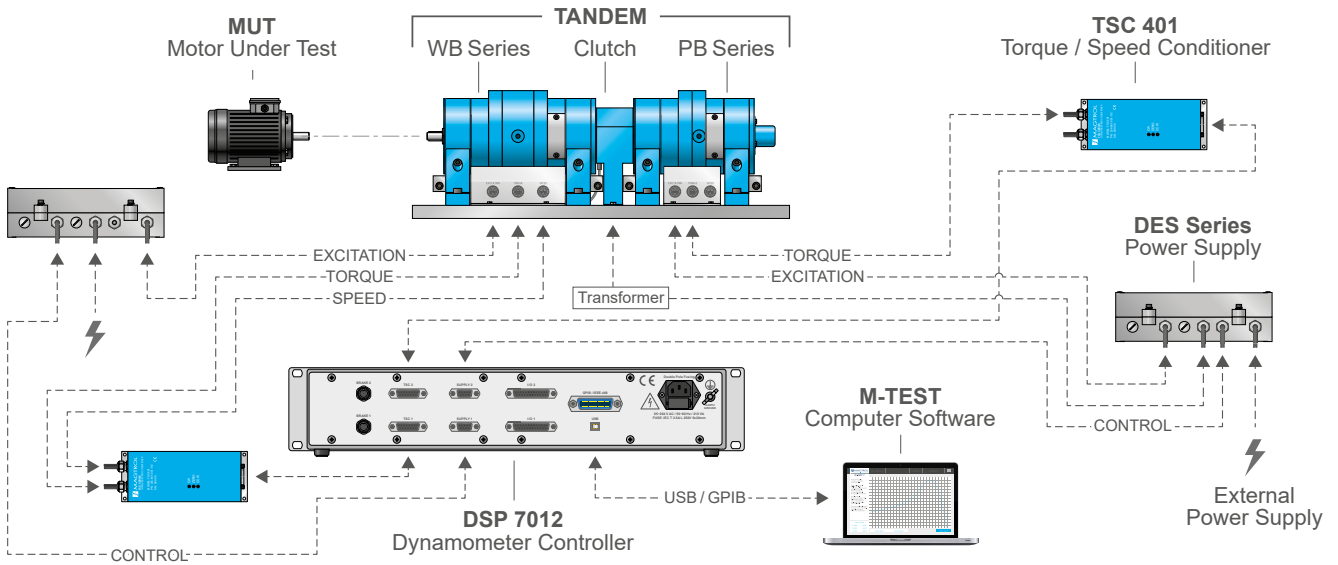
Both test processes can be performed on the same test bench (to reduce investment, space, ergonomics, etc.), but the two tests cannot be carried out simultaneously.

8. 2 CHANNELS CONFIGURATION (WP/PB)



Similar to configuration #7, this configuration allows testing with two WB Series (Eddy-Current) or PB Series (Magnetic Powder) Dynamometers with different characteristics. A dual-channel DSP 7012 is required to drive all the accessories required (TSC, DES Series).

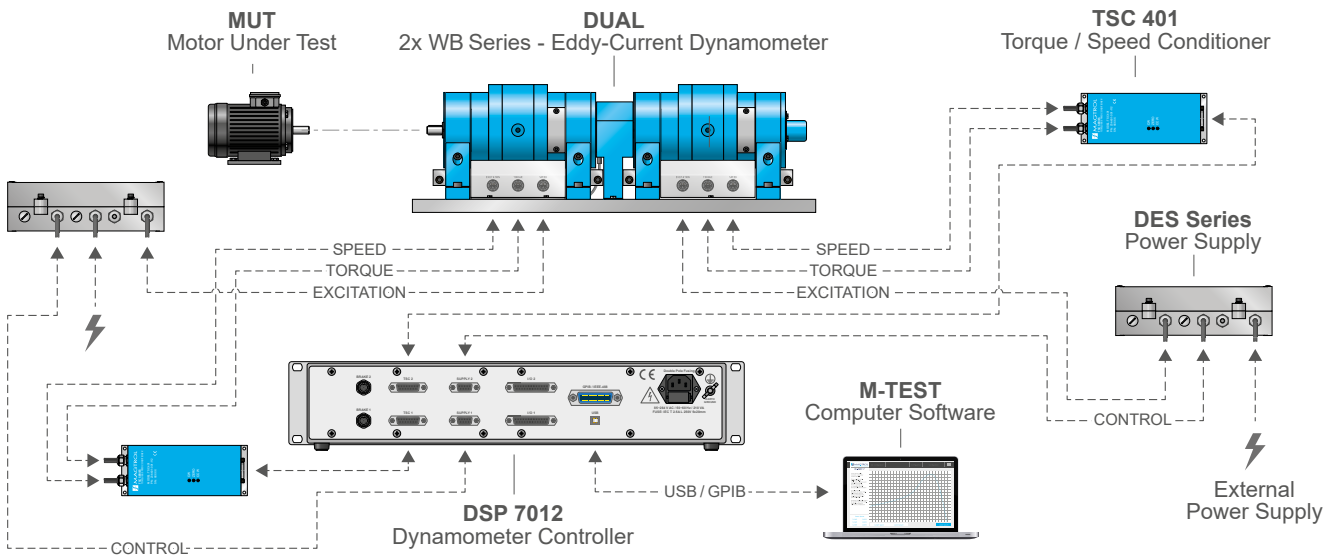
9. TANDEM (WB + PB SERIES)



TANDEM System are composed of 2 Dynamometers; one WB Series Eddy-Current Dynamometer and one PB Series Magnetic Powder Dynamometer, connected by an automatically disengageable clutch.

This configuration takes benefit of the best features of each of the different and complementary dynamometers. As a result, high torque can be applied over the entire measuring range, while achieving high speeds. To control a TANDEM Dynamometer and its accessories, a dual-channel DSP 7012 is required.

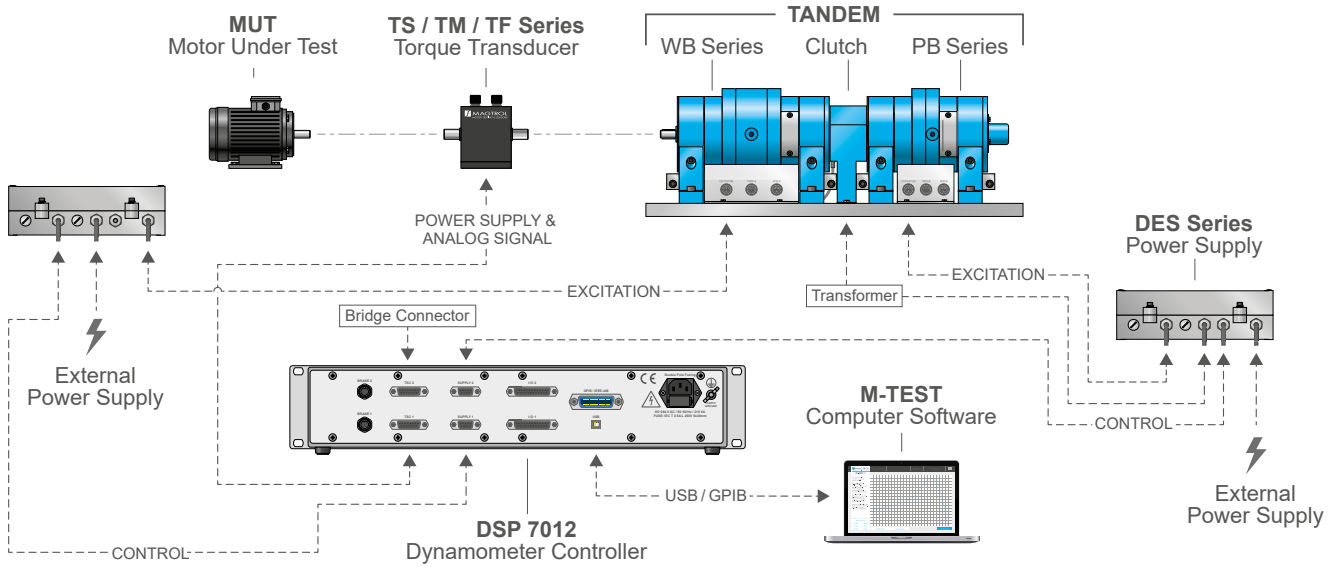
10. DUAL (WB + WB SERIES)



DUAL System allows you to take advantage of two complementary WB Series Eddy-Current Dynamometer. The unique DUAL Dynamometer System increases torque while maintaining high rotational speed.

To control a DUAL System and its accessories, a dual-channel DSP7012 Controller is required.

11. TANDEM + TORQUE SENSOR



Similar to configuration #9, this configuration allows testing with TANDEM system (two Dynamometers), while benefiting from increased precision thanks to the torque transducer.

To control and instrument all components, a DSP 7012 Controller is required.