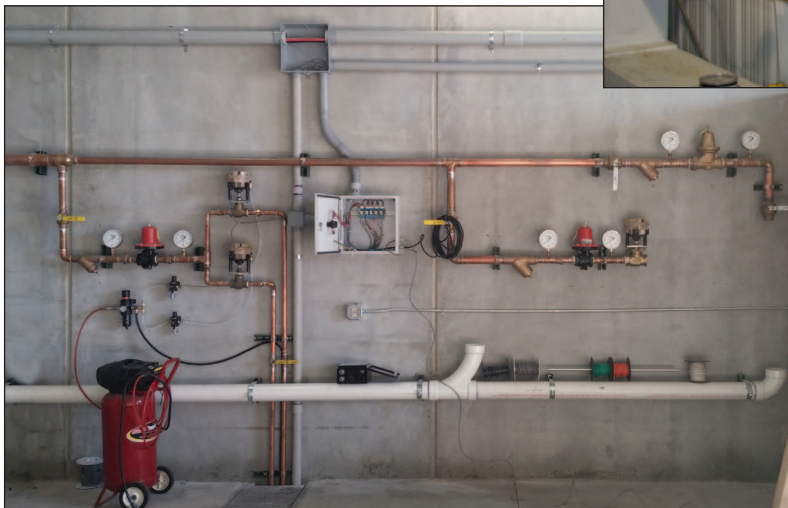




Load Control Assembly (LCA) and Transmitter Stand Assembly (TSA) / Instrumentation



Load Control Assembly (LCA)

The LCA is the electrical or electro-mechanical interface that allows the control system to control the dynamometer load.

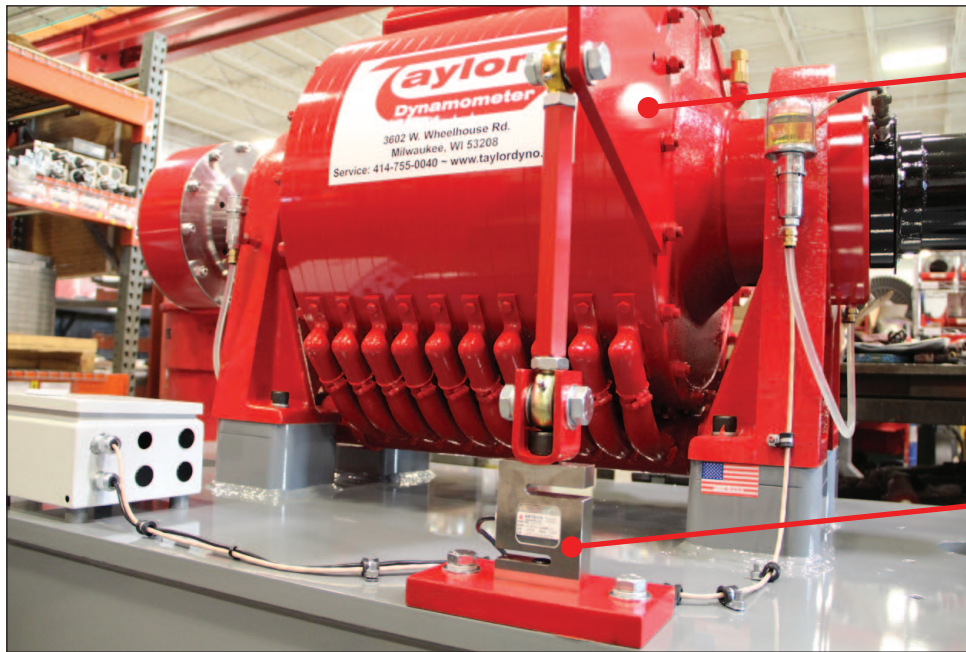
Water Brake Dynamometers - the LCA is an electro-mechanical assembly that includes a water Pressure Regulating Valve (PRV), water control valve(s), speed sensor assembly and air pressure regulation kit. This assembly allows the control system's load control signal (0 - 10 VDC or 4-20 mA) to control the water flow into the dynamometer and thereby control dynamometer load from 0 - 100%.

Eddy Current Dynamometers - the LCA includes an isolation transformer and power amplifier. The power amplifier is an electrical device that functions as a direct current (DC) regulator. This assembly allows the control system's load control signal (0 - 10 VDC or 4-20 mA) to control the current flowing through the dynamometer and thereby control dynamometer load from 0 - 100%. The Eddy Current LCA is available in a 230 V version for use with Taylor's DE20 - DE720 series dynamometers. A 115 V version LCA is available for use with Taylor's DE20 - DE150 series dynamometers.

Total Test Success

Transmitter Stand Assembly (TSA)

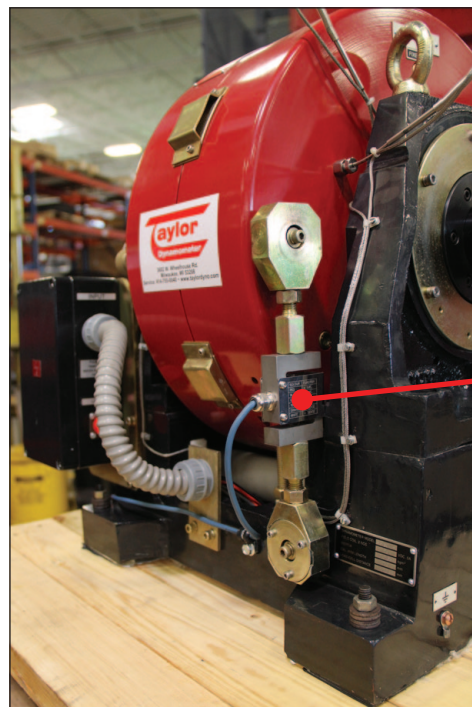
The TSA is the torque arm, load cell and linkage that allows the data acquisition and control system to measure torque.



Torque Arm

Load Cell and Linkage

DX Series Transmitter Stand Assembly



Load Cell and Linkage

DE Series Transmitter Stand Assembly

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