FUTEK
ADVANCED SENSOR TECHNOLOGY, INC.

APPLICATION 182
Torque Sensing with Load Cells

APPLICATION SUMMARY

Measuring torque generated by motors or brakes can be accomplished via directly coupling a rotary torque sensor inline with the motor shaft or mounting the motor directly to a reaction torque sensor. However, sometimes neither of these solutions work, such as with a torque dynamometer. In this case, a load cell is used and the equation *Torque = Force × Distance* is used to convert the measured force to torque.

PRODUCTS IN USE

LCF400 Load Cell paired with Instrumentation (USB220, IPM650 Panel Mount Display, IDA100 Digitally Configurable Amplifier, or IAA Series Analog Amplifier).