

PRIMARY TORQUE CALIBRATION MACHINE DESIGN CONSIDERATIONS

Chris Yeeles
Puget Sound Metrology
Boeing Commercial Airplane
P.O. Box 3707, MC 1J-89
Seattle, Washington 98124-2207
Christopher.J.Yeeles@Boeing.com

Abstract

Calibration of torque transducers requires an apparatus to generate a twisting force; this known twisting force provides the stimulus which the transducer is compared against. Torque, the twisting force, is generated from using two standard parameters, length *moment* and force *mass*. This paper discusses the important design elements and considerations of a precision torque calibration machine, as well as, the resulting primary torque machine in place at Boeing Puget Sound Metrology.