

MODEL 300 STEERING WHEEL INCLINOMETER / TORQUE SYSTEM



DESCRIPTION

The above pictures display Kemkraft models 300 battery operated Mini Inclinator / Torque system mounted to two different types of Steering Wheel Gauges (SWG). The left tool is a model 233M2, fixed plate tool, and the right picture is model 233M5 adjustable tool. The model 300 is a portable audit device (Data Acquisition Unit) designed to measure both straight ahead steering wheel angle and driving torque of the vehicle under test. An operator drives the vehicle straight, on a straight flat road, while holding the knob on the 300Mx fixture. The unit takes data samples to obtain an average steering wheel angle / straight ahead torque per vehicle. These average angles and torques can then be downloaded via a standard serial interface into a personal computer for SPC purposes. Because this is a gauge, it must be accurate and repeatable. We achieve this by designing the 300Mx mechanical fixture to fit the customers' specific steering wheels. We require samples of the different types of steering wheels, from the auto plant, to design, and balance your model 300 on. The drawing below displays the model 300 required calibration stand. It is required to calibrate the inclinometer and verify the torque cell. It comes certified and is traceable to NIST.

These model 300Mx's are examples of many of the different types of 300 mechanical SWG's that Kemkraft manufactures for Auto companies. Kemkraft manufactures a variety of Steering Wheel Gauges for on line production also. We would be pleased to quote a steering wheel gauge for you.

SPECIFICATIONS

POWER REQUIREMENTS:	Rechargeable Ni-Mh Battery Pack, Fast charger included
SAMPLING RATE:	10 Samples Per Second
TORQUE RANGE:	+/- 10 NM w/ +/-15 NM over range
ANGLE RANGE:	+/-12.7 Degrees, +/-0.1 deg resolution
RESOLUTION:	+/- 0.01 Newton Meters
ACCURACY:	+/- 1.0% of Full Scale
DATA OUTPUT:	RS-232-C Port / ASCII flat file
OPERATING TEMP RANGE:	40 Deg F. - 120 Deg F.

OPTIONS

300S	300 w/ built in barcode scanner to scan VIN
233Mx	Mechanical Fixtures (SWG's), x = # to indicate different size tools
300-40XX	RF Transmitter, connects to RF box serial port
200-4016	200/300RFRX RF R'cvr (connects to PC. Receives data from the 300)

