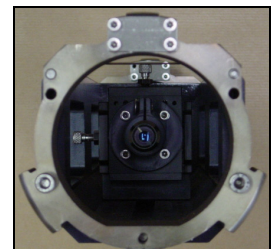
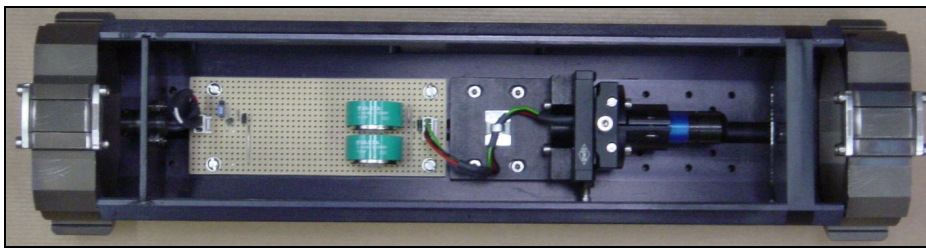
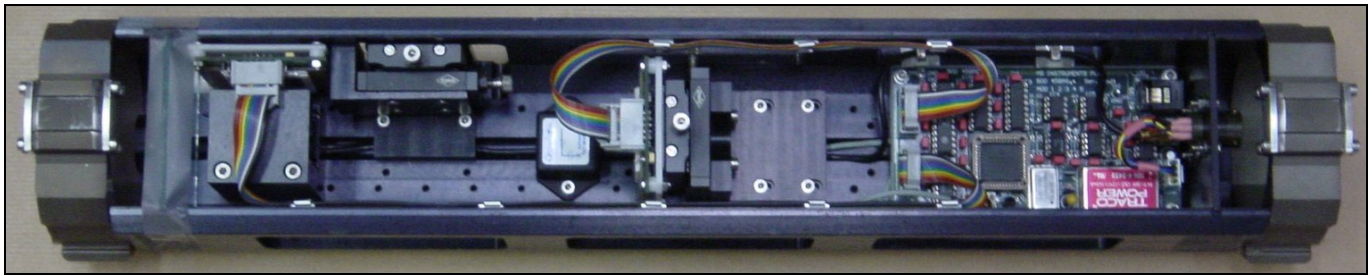


BARREL STRAIGHTNESS GAUGE



The MS Instruments PLC Barrel Straightness Gauge is a device used to measure the straightness of a barrel or tube at multiple positions along its length.

The system comprises the laser and target assemblies along with a charger and a data-logging unit. This latter device comes in two forms: A standalone simple display of target positions or a Notebook PC unit.

A low-power eye-safe laser with integral rechargeable battery is inserted into a collar matching the internal dimensions of the tube. The laser is then inserted into the barrel and positioned at the base of the barrel. Insertion and removal of the assembly is by simple screw-in rods.

The target assembly is inserted into the barrel in a similar manner to the laser assembly, and may be moved along the length of the barrel to analyse the straightness along the length.

The target rods have a simple scale to give an indication of the depth of the target assembly in the barrel. These readings may be entered into the Notebook PC allowing graphing of the barrel profile.

The system is calibrated by placing the target and laser assemblies in a reference tube. However on each individual test, a simple referencing procedure is followed by initially placing the target assembly in contact with the laser assembly. The readings from the targets are then used as reference.

SPECIFICATION

Data Logger / PC	Specification	Environment:	Specification
Power Supply	85-264v a.c. / 12v d.c.	Operating temperature	5°C to + 60°C
Interface	RS232	Humidity	95% non-condensing
Target Assembly:		Size:	Weight:
Detection area	20mm x 20mm	80mm diameter, 200mm length	500g
Resolution	0.02mm		
Laser:			
Wavelength	630nm	40mm diameter, 100mm length	200g
Software:	Data Logger	Notebook PC	
	Reference/X-Y display	Ref./X-Y/Statistics/Graphing	