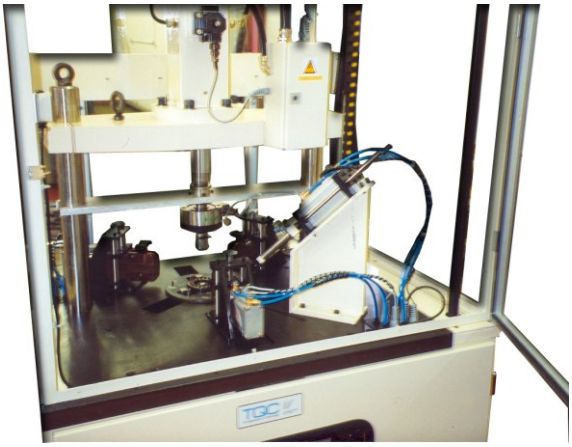
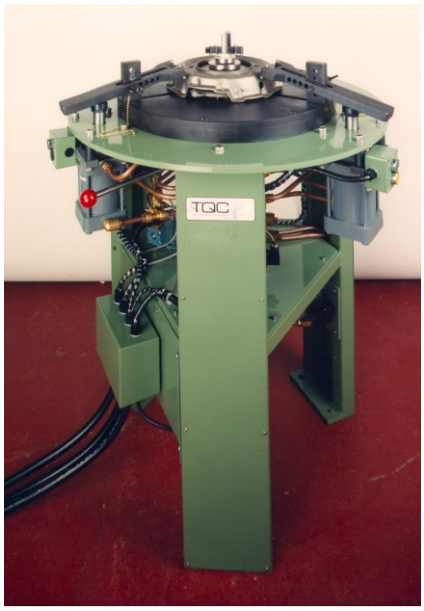
# *Clutch Testing – Various Tests performed on Clutch Covers*

**TQC have produced a variety of bespoke test machines for automotive clutch covers for both OEM and aftermarket suppliers.**

The machines are manually loaded and unloaded with the option of manual or automatic clamping. The performance test is fully automatic with the operator protected by fixed guarding or a safety light guard.

The machines are designed to perform a variety of tests to verify the performance characteristics of the clutch covers.






## Tests & Functions Available

- Pressure plate clamp load - total force & evenness of force, 3 positions, 3 x 10kN load cells
- Diaphragm spring force versus distance curve - peak & valley loads
- Pressure plate lift & evenness of lift, 3 positions, 3 x 20mm linear potentiometers.
- Pressure plate release load versus distance curve - bi-directional, 1 x 10kN load cell up to 50mm stroke
- Hysteresis - load - distance
- Losses due to cover distortion & incorrect components
- Diaphragm spring finger end setting / bending
- High & low diaphragm spring fingers
- Actuation stroke, 1 x 75mm linear potentiometer
- Simulated pressure plate wear

## Other features

- Pneumatic, hydraulic & hydropneumatic clamping &actuation
- Simulated cover bolt clamping
- Variable actuation speeds (nominally 0.2m/sec)
- Rivet presence detection
- Reverse acting clutch covers
- Interchangeable tooling - spacer rings, release bearings, location rings
- Pass marking - centre pop, laser, dot matrix or ink jet
- Serial numbering with attribution of test results
- Calibration routines
- Data management PC


TQC Ltd, Hooton Street, Carlton Road, Nottingham, NG3 2NJ, United Kingdom
Tel: +44 (0)115 9503561 | Fax: +44 (0)115 9484642 | E-mail: sales@tqc.co.uk
www.tqc.co.uk

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