

NEW DIGITAL CALIPER PRESSURE DEVICE A40

The actual caliper measurement force by a FMS pressure device is minus the force required to move the caliper sliding jaw. This varies from caliper to caliper even with apparently identical calipers. This force on a standard 150mm / 6" digital caliper to move the sliding jaw should preferably not exceed 2N. This force of course increases the larger the caliper.

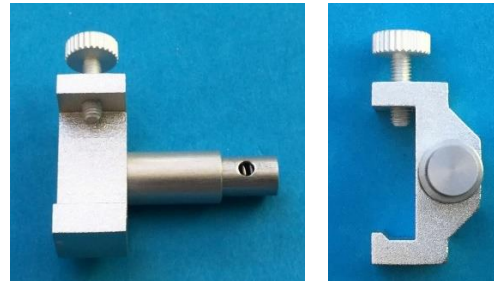
With **A40** pressure starts at 2N increasing to 4N until the hole is reached. Within the hole diameter the measurement force is almost exactly 4N to 5N. Past the hole then 5N to 8N. Weight 7 g.

A caliper pressure device has several purposes and advantages when compared to "feel". The device removes almost all user influence from measurement pressure.

1. Caliper calibration and use can be carried out by different people knowing that the same force will be used.
2. Measuring the same dimension on many items often is easy.
3. Avoid discussions as to who is measuring correctly.
4. Training measurement use with calipers.



Pressure device A40 (Front)



Pressure device A40 (Back and top)



A40 mounted on a caliper without roller



A40 mounted on a caliper with roller



A40 mounted for internal measurement



A40 mounted for external thread measurement

| | | |
|---|---------------------------------|--|
| Measurement accuracy for a digital caliper as specified in DIN 862 / ISO 2012 | | Information Repeatability accuracy for a digital caliper is 0.01mm/0.0004". N.B. There is an allowance of 0.02mm/0.0075" for the internal jaws and the depth rod. |
| Measurement length | Fault limit mm | |
| Up to 100mm/4" Up to 600mm/24" | 0.02mm/0.0075" 0.03mm/0.001" | |