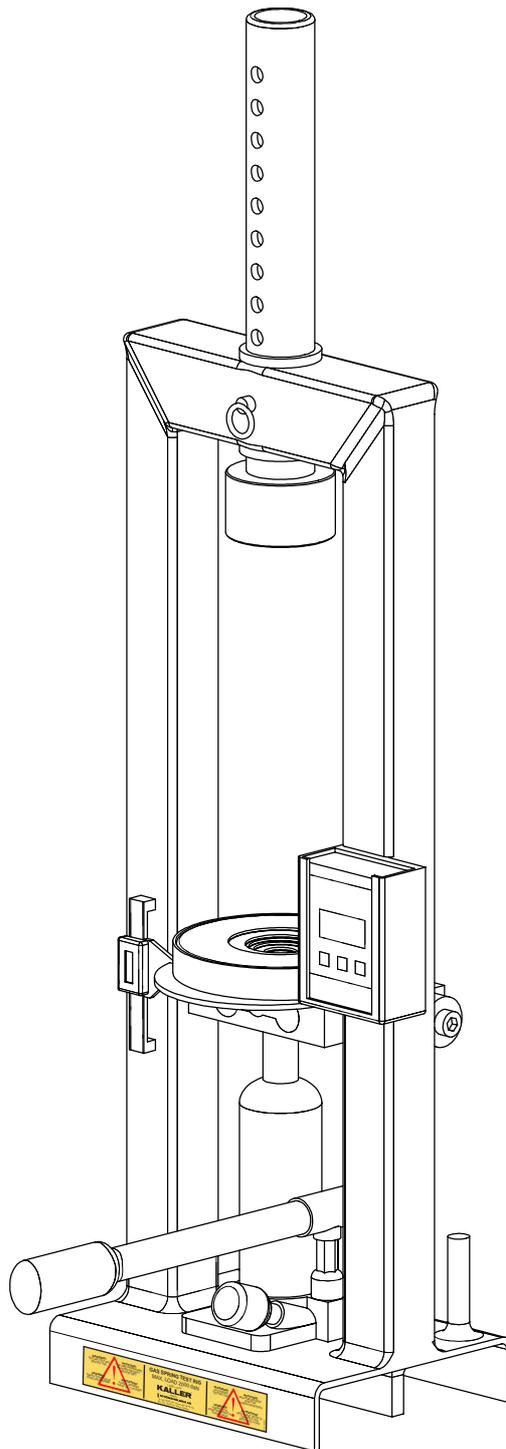


KALLER[®]

Users Manual for Digital Test Rig 2000 daN (1018660)



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Securing Test Rig

The test rig should first be rigidly secured to a flat, horizontal surface before use. We recommend the four drilled holes at the bottom of the test rig be used for this.

Directions for use

- 1) Switch on the digital force indicator and select the required read-out units (kg or lb).
 - 2) Open the valve that controls the bottle jack height and lower the gas spring stand to its lowest position, making sure to close the bottle jack valve firmly afterwards.
 - 3) Adjust the height of the aluminium rod, by first removing the locking pin and sliding the rod to the nearest position that will allow the gas spring to fit into the test rig. Make sure the locking pin is replaced securely after adjusting the height.
 - 4) Place the gas spring in the middle of the gas spring stand with the piston rod facing upwards.
 - 5) Using the bottle jack handle provided, pump up the bottle jack until the piston rod top just makes contact with the contact plate.
 - 6) Set the digital travel indicator to zero and choose required read-out units (mm or in).
 - 7) Compress the gas spring approximately 2 mm and read off the force from the display.
 - 8) To remove the gas spring, open the bottle jack valve gently and remove the gas spring. Make sure to close the bottle jack valve firmly afterwards.
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Gas Spring Guide

The following is a list of the various gas springs and stroke lengths that can be tested using this test rig.

Series	Models	Stroke lengths
EP16	all	all
R19	all	all
M2	all	all
CU	420, 100 and 1800	all
X-Line	350, 500 and 1000	all
250	all	all
500	all	all
750	TU, TC and TB	Up to and including 160 mm
	K, KM, KSM, SL, TS, TM, TI, TMS and TIS	all
1500	TU, TC, TB and SL	Up to and including 160 mm
	K	all

Specifications

Controls

General:	Zero, Lb/Kg, On/Off, Peak Hold
Display:	4 digit LCD
Travel indicator:	Zero, in/mm

Peak hold mode

To activate the peak hold mode press the Lb/Kg and Zero keys simultaneously. The unit will momentarily display "Peak". In this mode the unit will display only the highest force applied to the unit - until the Zero key is pressed. To exit peak hold mode press the Lb/Kg and Zero keys simultaneously again. The unit will momentarily display "nor" to indicate that the indicator has switched back to normal operating mode.

Note: The unit will always turn on in 'normal' operating mode.

Electrical

Batteries: 1 (9-volt) size disposable alkaline or rechargeable Nickel-Cadmium cell

Auto-Zero: Automatically zeros off errors of zero-load

Battery life: Over 125 hours of continuous use with an alkaline battery

Low battery indication: Flashes "batt" when battery is running low; Automatically turns off when battery power is low enough to affect reliability

Travel indicator: Displays gas spring compression length to the nearest 0.001 in or 0.01 mm

Performance

Accuracy: $\pm 0.5\%$ of applied load or \pm display graduation, whichever is greater

Environment

Humidity: 10 to 95% Non-Condensing

Temperature: Operating: -10°C to $+40^{\circ}\text{C}$

Storage: -40°C to $+75^{\circ}\text{C}$

Error messages

OVER: The spring tester is over capacity. Reduce the load on the unit.

ZerO: Display error, the gas spring tester is unable to display the negative number completely. Press the Zero key to re-zero the scale thereby solving the problem.
NOTE: Every time the Zero key is pressed, the scale will momentarily display 'zero'.

bAtt: Low battery, the unit requires a new battery. It will shut off if this message is ignored for too long.
