

BTM-400PLUS

Belt Tension Meter

- Supplied with both plug-in and cable-connected sensors
- Displays belt tension in Newtons (N) or pounds (lb) or, alternatively, frequency in Hertz (Hz)
- Takes measurements quickly, displaying accurate results within one second
- Easy-to-use keypad design simplifies operation
- Menus are displayed in English, or the user can select German, French or Italian
- Includes traceable calibration certificate

Drive belts achieve maximum lifetime and efficiency when tensioned to the manufacturer's recommended tension.

The new CHECK•LINE® BTM-400PLUS Belt Tension Meter provides an easy, reliable method for accurately measuring static tension in flat, V-, cog or toothed belts of rubber, leather, fabric, plastic and composite materials.

The BTM-400PLUS's hand-held, LED-optical sensor is cable-connected to the gauge body, which contains a microprocessor that converts the sensor signal to a pre-selected reading of either **Belt Vibration Frequency** (Hertz) or **Belt Tension** (Newtons [N] or pounds /force [lbf]).

Results are displayed on a bright, easy-to-read LCD display. An acoustic signal indicates a successful measurement.



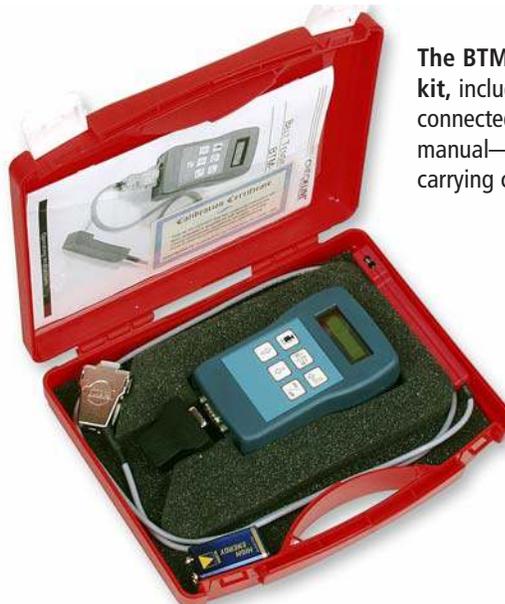
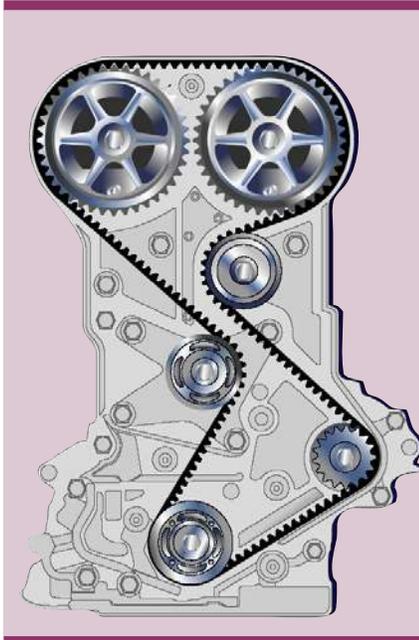
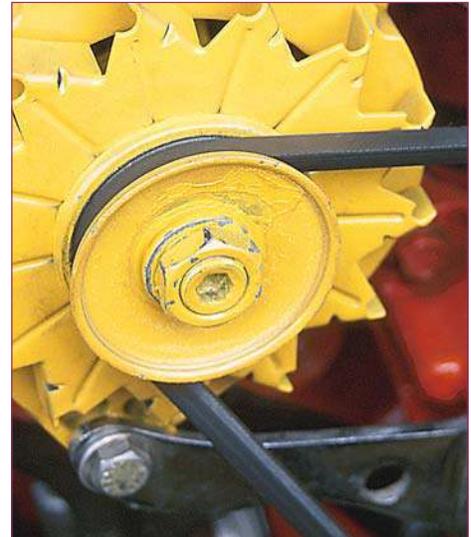
Plug-in type sensor allows one-handed operation



The BTM-400PLUS's LED-optical sensor is unaffected by ambient noise, offering improved performance versus competitive, acoustic sensor-based designs

Specifications

Measuring range	3– 800 Hz
Free span length, max.	30 ft. (10 m)
Belt density, max.	10 kg/m
Digital sampling error	< 1%
Indication error	± 1 Hz
Total error	< 5%
Operating temp.	50 to 122 °F (10 to 50 °C)
Max. storage temp.	23 to 158 °F (–5 to 70 °C)
Gauge body material	Plastic (ABS)
Dimensions, body	3.15 in. x 4.96 in. x 1.47 in (80 x 126 x 37mm)
Dimensions, case	8.9 in x 7.0 in x 2.0 in.(226 x 178 x 50mm)
Display	2-line LCD, 16 char./line
Languages	English, German, French, Italian
Power supply	9-volt alkaline battery



The BTM-400PLUS is supplied as a complete kit, including: the gauge, plug-in and cable connected sensors, 9-volt battery, instruction manual—all in a foam-fitted, hard plastic carrying case.



Optional NIST-traceable Calibration Certificate available.

