Metrix+™
Innovative Excellence

BELT TENSION TESTER

BTT 750

Mechanical belt tension testing

Measuring principle

This mechanical belt tension sensor has a load cell, which measures the force required to deflect the belt (the angle of deflection defined by anvil, fixed pillars and clamping), proportional to the belt tension. The output from load cell is digitized to display the tension value.

Applications

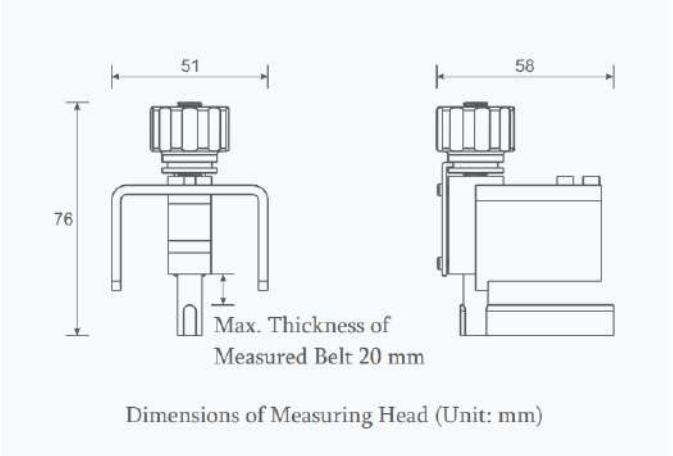
Belt tension testers test the tension of belts, wires, ropes, tapes, etc, as a means of mechanical strength test. Widely useful in automobile, textile, cables, wires, plastic films, paper, printing, etc. It can be used to measure the tension of auxiliary belts fitted to motor vehicles and other machines.

Features

- Tension limits can be set, with audible and visual indications
- Convertible measurement units: N, kg, lb, seems
- Sturdy sensor, with clamp screw and anvil for accurate measurement
- Optional data logging





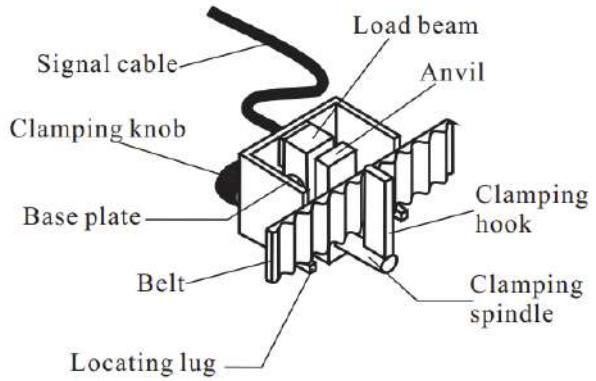


Dimensions of Measuring Head (Unit: mm)

Technical Specifications

Model	*Metrix+* BTT 750
Range	0~750 N, 0~ 77kgs, 0~120Lbs, 0~114 seems
Belt range	Width upto 36mm, Max thickness upto 20mm
Resolution	+1N
Accuracy	±5% FS
Units	N, kg, lb, seems
Safe load	Overload at 750N, max load 850N
Power	4 x 1.5V AAA batteries
Features	LED and audio indication, backlit display, low battery indication, auto power off
Operating	Temp: 0~40C, Humidity <80% RH
Dimensions	135 x 62 x 33mm, approx. 350g
Std accessories	Main unit, sensor, manual, case
Optional accessories	Data logging PC interface (USB & software), Bluetooth

[Note- Tension checking should always be carried out in accordance with the vehicle manufacturers' instructions.]



MEASURING HEAD for BELT TENSION GAUGE

7.4 Slide the clamping hook of the measuring head over the belt at the measurement position indicated by the vehicle manufacturer, so that the edge of the belt touches the two locating lugs. If no position is indicated, position the measuring head in the centre of the longest free section of the belt. Ensure that the clamping hook rests in the 'trough' between the belt teeth. See fig. below.



