

# BeltCheck© TH40

## Conveyor Belt Thickness gauge



# Salutron BeltCheck® TH 40

## A conveyor Belt Thickness Gauge of distinction

### Introduction

The primary function, for which the BeltCheck © TH 40 was designed, is to measure the **wear** of a conveyor belt, especially where the belt has embedded reinforcing steel cables. To satisfy this demand, the gauge sports a sensor with an extra large diameter probe area to compensate for inconsistencies in magnetic substrate due to differences in the steel cord mesh structure of the conveyor belts, and is manufactured from hardwearing materials for numerous measurements.

The BeltCheck © will even indicate, indirectly though, if the steel cords are still present – if the steel cords have rusted away, for example, they lose their magnetic properties and the gauge will therefore have no magnetic substrate against which it can measure the belt thickness!

The BeltCheck is thus an indispensable tool for maintenance and can aid the user in avoiding costly cleaning-up expenses and lost man hours due to the failure of these critical transport components.

And modern electronics compensate arithmetically for other inaccuracies produced by steel cords not positioned at regular intervals.

With ease of use in mind, the design ensures that the user can make all necessary adjustments with the aid of a menu – this allows for changes to be implemented quickly and simply.

### Other Application Examples

The BeltCheck © TH 40 is actually a coating thickness gauge with a very large range (0 – 30 mm) and can therefore also be used in other applications requiring the measurement of any non-magnetic coatings and/or insulation material thicknesses on any steel substrate such as the examples listed below:

- If a suitable magnetic substrate such as a large diameter steel roll or steel plate is positioned under a textile or webbed conveyor belt, the total thickness of these kinds of belts can also be determined.
- Rubber thickness on truck tires (tires have embedded steel cords) during the initial production for quality control purposes as well as a measure of usage once the tires have been fitted and are in use.
- Protective concrete lining thickness on steel pipes.
- Total fiberglass thickness measurement by positioning a steel object behind fiberglass under inspection, for example, modern fiberglass tractor cubsicles.

### Features

- Handy size for portability.
- Re-chargeable batteries with an estimated operating time of 40 hours (no backlighting) for portability.
- Extra large 60 mm diameter probe surface area for reliable results.
- Hardwearing surface for the probe head for numerous measurements.
- 99 measurements can be stored in non-volatile memory for later evaluation and logging purposes.
- Menu-driven software functions.
- 2 x 16 character alphanumeric LCD display with backlighting feature to ensure legibility in most visibility conditions.
- Single person can operate the gauge.
- Auto off to save on battery power.
- Indestructible carry case.
- The BeltCheck© TH40 has a CE sign and conforms to the following international specifications:
  - DIN 50981, 50984
  - ISO 2178, 2360, 2808
  - BS 5411 (3, 11) 3900 (c, 5)
  - ASTM B499, D1400

### Technical specifications

Measurement type:	Non-destructive
Measuring range:	0 – 30 mm
Resolution:	0.1 mm
Accuracy:	For 0 – 20 mm: 1% of measurement value For 21 – 30 mm: 5 % of measurement value
Power supply:	Re-chargeable battery pack
Estimated operation duration with one re-chargeable battery:	More than 40 hours without backlighting and more than 20 hours with backlight
Re-chargeable battery re-load time from flat:	4 – 5 Hours
Memory capacity:	99 measurements
Memory type:	Non-volatile
Display:	2 x 16 character alphanumeric LCD
Technical details subject to change without notice	

### International Contact Details

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