



# Precision checkweigher for high-rate can, jar and flat-bottom container lines

Thermo Scientific Versa Teorema Checkweigher



## Thermo Scientific Versa Teorema Checkweigher Specifications

|                              |   |
|------------------------------|---|
| <b>Product rate</b>          | Up to 700 cans per minute   |
| <b>Product type</b>          | Cans, jars, containers with flat bottom, without label, open or closed, wet or dry conditions                           |
| <b>Line speed</b>            | 2.7m/s 160m/min 530FPM  |
| <b>Weigh range</b>           | 40g to 900g. Other product weights on request.  |
| <b>Can diameter</b>          | 64 ~ 99mm (US208~314) standard. Other product sizes on request.   |
| <b>Can height</b>            | Minimum 35mm (US106) Maximum 180mm (US701)  |
| <b>Accuracy</b>              | Approved for OIML MID ( $e \geq 0.5g$ ). Accuracy; standard deviation in general $< 0.5 g$ , depending on application.  |
| <b>Overall dimensions</b>    | Length: depending on configuration (side to side or end to end transfer); approx. 3,500mm (137") Width: 1,100mm (43.3") |
| <b>Helix</b>                 | HDPE (UMHPE 1000). Helixes are dimensioned per can size. Length 900mm (35.4"). Stainless steel option available.        |
| <b>Line height</b>           | 800~1,200mm $\pm 50mm$ (32~47" $\pm 2$ "). Other heights on request.  |
| <b>Electrical supply</b>     | 230Vac/1 phase/50 Hz or 220Vac/1 phase/60 Hz, 2kW   |
| <b>Air supply</b>            | 600kPa (6bar / 80psi)   |
| <b>Protection material</b>   | IP66  |
| <b>Construction material</b> | Stainless steel   |

The Thermo Scientific™ Versa Teorema Checkweigher offers unparalleled speed and accuracy due to a revolutionary weighing section design with no moving parts. By eliminating motorized conveyor parts, the Versa Teorema checkweigher delivers the lowest mechanical noise and the highest accuracy possible for high-speed canning applications.\*

\*Moving parts: helix and HD long-life transport chains only.

### Features and Benefits

- Side-to-side conveyor transfer capability at the in-feed and out-feed
- Photo-eyes to provide controlled feed of cans via a can-stop
- Feed-screw properly spaces open or closed cans, steel or aluminum cans and 2- or 3-piece cans at speeds up to 700 cans/minute
- High-rate reject mechanism with special profile for product handling control
- Open design and stainless steel construction facilitate high-pressure cleaning
- Auto monitor of temperature and humidity to prevent heat and moisture concerns
- Durability for harsh environment can line operation
- No moving parts weigh section (no chains or belts) for high accuracy and low maintenance
- Highest levels of safety guarding and interlock
- Specified for the highest levels of washdown and humidity
- Equipped with Thermo Scientific™ Versa Checkweigher Controller



Quick change helix and full safety cover



High rate reject systems



Can stop device



Sanitary design

For more information [thermofisher.com/teorema](http://thermofisher.com/teorema)

**ThermoFisher**  
SCIENTIFIC