

## FES-4000 Front End Gauge

*Semi-automated front-end measurement for trimmed cans*

The Front End Gauge provides automated front end measurements on trimmed cans.

The exceptionally accurate and repeatable FES-4000 automatically rotates the can with the capability to perform 360° scan of Wall Thickness. At each position Can Height, Bottom Depth, Top-Wall and Mid-Wall Thickness are measured. Measurement results are shown on the TFT Touch screen and out-of-spec limits are clearly flagged in red allowing for immediate corrective action by line personnel. Data may be transferred directly into Visionary QC™ or other data acquisition software.

**Measures:** Trimmed Can Height, Dome Depth, Top-Wall and Mid-Wall Thickness



### Benefits

- Saves time: Automatic can rotation, automatic data transfer, multiple measurements at one time
- Increased accuracy: Automated measurement, world class R&R
- No change parts for multiple heights and diameters
- Exceptionally accurate: Wall thickness measurements have a resolution of 0.1 microns

### Features

- Automatically adjusts to pre-configured measurement positions along wall of can
- Top-Wall Height may be adjusted from 0 to 10mm
- Wall Thickness data may be graphed on-screen
- Can height, Top-Wall, Mid-Wall and Bottom Depth are measured automatically
- Only one calibration master (Can Height + Bottom Depth) needed for all cans
- All can- and measurement-parameters are automatically adjusted and saved in the gauge-control

### Technical Details

**Max. No. of Positions:** 36

**Can Height Range:** 55 to 240 mm (2.125 to 9.4 in)

**Can Diameter Range:** 52 to 84 mm (202-307)

[WWW.CMC-KUHNKE.COM](http://WWW.CMC-KUHNKE.COM)

**GERMANY**  
Tel. +49 30-2300-66-0  
sales@cmc-kuhnke.de

**UNITED STATES**  
Tel. +1 518-694-3310  
sales@cmc-kuhnke.com

**MEXICO**  
Tel. +52 55 4203 6820  
sales@cmc-kuhnke.com.mx

**CHINA**  
Tel. +400-821-0694  
info.china@industrialphysics.com

<b>Top-Wall Height:</b>	up to 10 mm (0.4 in)
<b>Mid-Wall Height:</b>	28 to 140 mm (1.125 - 5.5 in)
<b>Air Pressure Required:</b>	5 bar (73 psi)
<b>Electrical Required:</b>	24V-120/230VAC Power Adapter, 50-60Hz
<b>Operating Temperature:</b>	15°C to 40°C (59°F to 104°F) Accurate measurement results at 22°C / 72°F, other temperatures result in deviations
<b>Dimensions:</b>	53 x 50 x 72 cm (21 x 20 x 28.5 in)
<b>Weight:</b>	45 kg (99.2 lbs)
<b>Measurement Units:</b>	mm, in
<b>Output Interface:</b>	RS232
<b>Languages:</b>	English, Chinese, German
<b>Characteristics:</b>	Trimmed Can Height, Dome Depth, Top-Wall and Mid-Wall Thickness
<b>Resolution:</b>	Trimmed Can Height: 0.01 mm (0.0004 in), Dome Depth: 0.001 mm (0.00004 in) Top-Wall Thickness: 0,0001 mm (0,1 micron), Mid-Wall Thickness: 0,0001 mm (0,1 micron)
<b>Accuracy:</b>	Trimmed Can Height: +/- 0,01 mm , Dome Depth: +/- 0,001 mm Top-Wall Thickness: +/-0,001 mm, Mid-Wall Thickness: +/-0,001 mm
<b>Repeatability:</b>	Trimmed Can Height: 0,02 mm, Dome Depth: 0,002 mm, Top-Wall Thickness: 0,001 mm, Mid-Wall Thickness: 0,001 mm