



Torus B306 Polarised Light Box

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Manual Defect Detection for Plastic Preforms

The Torus B306 Polarised Light Box is a compact, easy-to-use inspection tool designed to detect internal stress and material inconsistencies in clear plastic preforms. Using polarised light and LED backlighting, it reveals hidden flaws—supporting reliable quality control in preform production environments.

Visual Inspection You Can Trust

Ideal for PET, PP, and Tritan preforms, the B306 allows operators to manually inspect for internal defects such as bubbles, crystallisation, poor flow, or thermal inconsistencies. The unit's polarised filters and long-life LED illumination make stress patterns and imperfections clearly visible—helping prevent downstream issues during blow moulding.

Safeguard Quality and Line Performance

Polarised light inspection is an essential step in detecting early-stage defects that could impact bottle integrity, machine uptime, or compliance—especially when using recycled PET (rPET). By identifying problems before blow moulding, the B306 helps protect product quality, reduce waste, and support sustainable production goals.

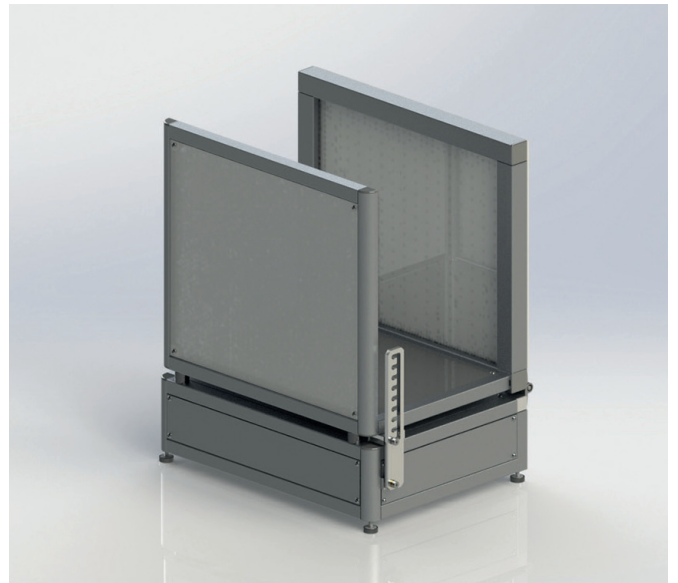
Simple, Manual Operation for Effective Results

- 1) Position the preform in the illuminated viewing area.
- 2) Adjust the viewing screen angle for optimal contrast.
- 3) Manually rotate and tilt the preform to observe stress patterns and defects.
- 4) Compare multiple samples using the wide, accessible viewing platform.

With no calibration or complex setup required, the Torus B306 offers a straightforward, shop-floor-ready solution for preform inspection—trusted by manufacturers aiming for high standards and consistent output.

Benefits:

- Manual defect inspection using polarised light and backlit illumination
- Tilting screen with rear hinge clamp and bump stops for secure angle adjustment
- High contrast polariser film (contrast ratio 3000:1) for enhanced visibility
- Long-life LED lighting system – reliable and energy efficient
- Selectable panel colour for user preference
- Robust, shop floor-ready enclosure for daily use
- • Automatically switchable power supply (110–230V / 50–60 Hz)
- Supports clear plastic preforms including PET, PP, and Tritan
- Compact footprint suitable for production or laboratory environments



Technical Specification:

Power Supply:	100–240 Volts / 50–60 Hz
Weight:	45 kg
Dimensions:	(W) 410 mm x (H) 456 mm x (D) 300 mm
Viewing Height:	280 mm
Viewing Width:	350 mm
Viewing Area Depth:	245 mm
Material Types:	PET, PP, Tritan
Preform Colour Compatibility:	Clear only
Application:	Visual inspection of preforms
Defects Identified:	Stress, bubbles, cold/hot material, crystallisation, moisture, degraded resin, slow fill, sink marks



Ordering Information:

Article Number	Article Description
B306	Polarised Light Box

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