



IEC 60061-3 GU10 Lamp Cap Gauge Technical Datasheet



Go/No-Go Gauge 7006-121-1 & Torque Gauge 7006-21A-2

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1. Product Overview

The KingPo IEC 60061-3 GU10 Lamp Cap Gauges are high-precision metrology instruments specifically developed for the verification of dimensional interchangeability and mechanical retention performance of GU10 bi-pin lamp caps and corresponding lampholders.

Designed and manufactured in strict accordance with IEC 60061-3 standard sheets 7006-121-1 and 7006-21A-2, these gauges form an essential part of the quality assurance process for LED lamps, downlights, spotlights, and recessed luminaires.

Proper verification ensures correct pin geometry, spacing, displacement limits, and retention forces, helping prevent poor electrical engagement, overheating, arcing, or installation hazards.

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2. Key Features

- Complete IEC 60061-3 compliant dimensional and torque verification set
- 7006-121-1 Go/No-Go gauge for pin geometry and spacing verification
- 7006-21A-2 torque gauge for insertion and withdrawal force testing
- Premium hardened tool steel (SKD61 equivalent), HRC 58–62
- Mirror polished surface finish ($Ra \leq 0.2 \mu m$)
- 100% CMM inspected for laboratory-grade accuracy
- Factory traceable calibration certificate included
- Suitable for QC laboratories, production inspection, and certification testing

3. Technical Specifications

Item	Specification	Remarks
Applicable Standard	IEC 60061-3	Sheets 7006-121-1 & 7006-21A-2
Material	SKD61 equivalent hardened tool steel	High wear resistance
Hardness	HRC 58–62	Heat-treated
Surface Finish	Mirror polished	$Ra \leq 0.2 \mu m$
Tolerance	Per IEC 60061-3	CMM inspected
Calibration	Factory traceable	ISO 17025 optional
Operating Temperature	10 °C to 35 °C	Laboratory environment
Service Life	>10,000 cycles	Under proper use

4. Testing Method

7006-121-1 Go/No-Go Gauge:

Insert the “Go” side into the GU10 lamp cap. It must enter smoothly and fully. The “Not Go” side must not enter, confirming dimensional compliance.

7006-21A-2 Torque Gauge:

Insert the torque gauge into the lampholder and measure insertion and withdrawal torque using a calibrated torque meter. This verifies proper mechanical retention performance.

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5. Recommended Environmental Conditions

- Temperature: 23 ± 2 °C
- Humidity: 50 ± 5 % RH
- Clean laboratory environment recommended
- Avoid dust, oil, and corrosive substances

6. Maintenance & Storage

Store gauges in the supplied protective carrying case when not in use. Clean surfaces regularly using lint-free cloth and isopropyl alcohol. Periodic recalibration every 12 months is recommended for laboratories and high-volume production environments.

7. Scope of Supply

- 7006-121-1 Go/No-Go Gauge
- 7006-21A-2 Torque Gauge
- Factory calibration certificate
- Protective carrying case
- User manual

8. Ordering Information

Model	Description	Contents
KP-GU10-SET	Complete GU10 Gauge Set	7006-121-1 + 7006-21A-2
KP-GU10-121	Go/No-Go Gauge	7006-121-1 only
KP-GU10-21A	Torque Gauge	7006-21A-2 only

9. Calibration & Traceability

Each gauge is individually serialized and calibrated against traceable reference standards prior to shipment. Dimensional verification is performed using certified Coordinate Measuring Machines (CMM) under controlled environmental conditions in accordance with ISO quality procedures.

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