

Stands Up Under Punishment

The Kern GKO-A is ruggedly built so that it can withstand shock and vibration without affecting its operation. This toughness is due to:

Compact Die Cast Housing of High-Strength, Corrosionproof Light Metal

Objective Protected by Extension of Housing



Strongly Built Eyepiece



Bull's-eye Level Mounted within the Housing

This level is easily observed from above and from the eyepiece end even under poor lighting conditions.



Built-in Horizontal Circle

protected from damage and from dirt.

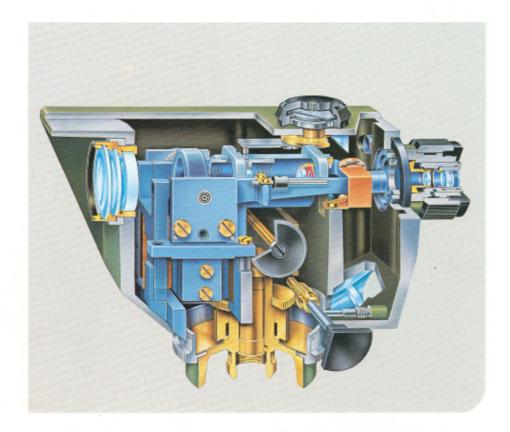
Robust Carrying Case

The case is made of an especially tough plastic, Makrolon, and has a vivid orange color.



Ball Bearing Pendulum Compensator

The compensator which dispenses the observer from the leveling of the line of sight before each rod reading is supported, not by sensitive metal strips or wires, but by a strong precision ball bearing on a steel axis. Shock and vibration, even falls, do not harm the GKO-A compensator.







Simple and Reliable in Operation

The Kern GKO-A is so simple to use that even inexperienced observers quickly become familiar with the instrument and obtain reliable results from the beginning. The convenient operation and high reliability of the GKO-A are due to the following features:

Jointed-head Principle without Footscrews

This construction feature is common to all Kern levels. It provides a very stable setup and is unexcelled in the simplicity and rapidity of the preliminary leveling of the instrument.

 Place instrument on the tripod head and secure with the fastening screw



2. Shift the instrument over the spherical surface of the tripod head until the bull's-eye level is centered



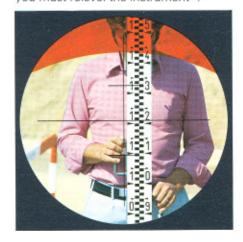
3. Tighten the fastening screw.



Extremely Large Working Range of $\pm 30'$ for Automatic Leveling of Line of Sight

Automatic Operating Control

When the compensator reaches either limit of its working range, a red warning diaphragm appears at the upper or lower edge of the telescope field of view. It says: "Stop! Before continuing to level you must relevel the instrument".



Upright Telescope Image

The telescope is exceptionally achromatic and produces a sharp, high-contrast image. All optical parts have an antireflection coating on both sides.

Friction Coupling and Horizontal Slow-motion Screw

The usual clamping screw is replaced by a friction coupling. The horizontal slow-motion screw may be operated with the left or the right hand.

Endless Focusing Drive

Whether the focusing screw is turned right or left, the image will be in sharp focus within a half turn.



Versatile in Application

Horizontal Circle

For measurement and lay out of angles the GK0-A is optionally available with a 360° or 400 gon horizontal circle and a reading magnifier (Model GK0-AC).



Cross Sight

Instruments without horizontal circles are equipped with an optical square. Horizontal sights at right angles to the line of collimation may be taken to either side.



Shortest Focusing Distance: only 2.5 ft.

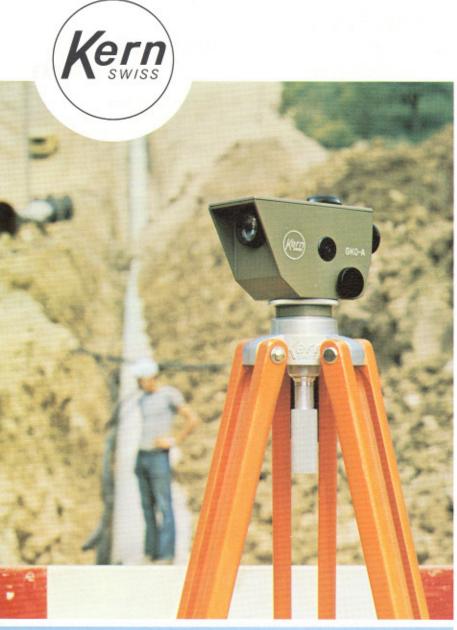
Adapter Plate Available for Use on Kern Centering Tripod

Kern GK0-A, the Ideal Automatic Construction Level

The rugged construction, the simplicity of the preliminary leveling, the upright telescope image and the compensator with warning diaphragm are features that make the GKO-A the ideal construction level for:

Vertical control on work above and below ground

Profile leveling and cross-sectioning Grading, surveys in flat terrain



Checking measurements at the natural gas pipeline Netherlands— Italy



Leveling on a runway under construction at the Zurich Intercontinental Airport



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Specifications Mean error in 1 km (double run) ± 0.008 ft./2.5 mm Telescope magnification 21 x Objective aperture 1.2 in./30 mm Shortest focusing distance 2.5 ft./0.75 m Diameter of field at 1000 ft, 30 ft. Stadia multiplication constant 100 Stadia addition constant 0 Sensitivity of bull's-eye level 20' per 2 mm Compensator working range ±30' Compensator centering precision ±3" Weight of instrument 4.2 lbs./1.9 kg Weight of carrying case 1.8 lbs./0.8 kg Dimensions of carrying case 10.2 × 5.9 × 4.7 in./26 × 15 × 12 cm

Details for Ordering

Level GKO-A with cross sight in plastic carrying case with tool set Level GKO-AC with horizontal circle 360° or 400 gon in plastic carrying case with tool set Tripod 150B with telescoping wooden legs painted a vivid orange Tripod 150A with fixed wooden legs painted a vivid orange Adapter plate No. 112.290.4001 for setting the GKO-A on all Kern centering tripods Setting and leveling rod No. 1, length 3 m, 4 m and 5 m Leveling and stadia rod No. 5E, folding, length 3 m and 4 m The complete line of leveling rods is described in Prospectus No. 106e

Manufacturing Program
For more than 160 years Ker

For more than 160 years Kern has manufactured surveying instruments and drawing equipment that have an outstanding reputation in all parts of the world. The present manufacturing program includes: Optical-mechanical and electronic theodolites Reduction tachymeters Electro-optical distance meters Industrial measuring systems Computer-aided systems for surveying and photogrammetry Photogrammetric equipment Lenses for motion pictures and still cameras Binoculars Optical instruments for military use Special optical equipment

We reserve the right to make changes in keeping with technical developments. 140e 6.87.ER Printed in Switzerland

Worldwide Kern Service

The proverbial reliability of Kern instruments is ensured by the dependable service offered by our foreign representatives. They maintain efficient repair facilities, staffed with factory-trained personnel and backed-up by an adequate supply of spare parts.



