

ZEPHYR

The range of versatile 3D laser scanners by Kreon

Technical specifications:

	KZ 25	KZ 50	KZ 100
Stand-off distance (mm)	90	100	80
Field of view (mm)	50	107	107
Laser line length (mm)	25	50	100
Points per second	30 000	30 000	30 000
Vertical resolution (µm)	3	5	11
Repeatability (µm)	3	6	12
Reproducibility (µm)	9/15	14/25	35/55
Laser class	II	II	II
Weight (g)	360	360	360
Dimensions	150 X 55 X 70 mm		



The range of Kreon Zephyr scanners includes 3 different models: the KZ 25, the KZ 50 and the KZ 100 scanner. Collecting data at much faster pace than conventional contact measuring devices, Kreon scanners adapt to all kinds of end-user environments, bringing infinite applications possibilities to a variety of measuring machines.



KZ 100

The KZ 100 scanner makes scanning large volume parts a simple and easy task. User-friendly and flexible, this high-tech laser scanner can be adapted to all stages of the manufacturing process.



KZ 50

Flexible, the KZ 50 scanner can answer reverse engineering and inspection challenges in the most diverse environments. A perfect choice to switch easily between arm and CMM.



KZ 25

The Zephyr KZ 25 scanner is dedicated to detail-oriented, high accuracy applications, and is ideally suited for use on a 3D CMM, manual or CNC.

Software

Kreon Polygonia software gives access to the functionalities of the Zephyr scanner.

Polygonia can be delivered as a stand-alone application for point collection and processing or as a plug-in into the world's leading application software for 3D measurement, reverse engineering or quality inspection. Operators can scan right from their familiar application software.

User benefits

Equipped with a touch probe interface, Kreon Zephyr and Aquilon scanners combine traditional metrology and non-contact measurement technology for increased precision and allow operators to choose the optimal arrangement for accuracy. The association of a contact probe and laser scanning technology, unique to Kreon scanners, brings together contact and non-contact measurement in a perfect fit. The complementarities of these two data collection methods optimise measuring time and productivity while providing a real competitive advantage when scanning mechanical, plastic, sheet metal for stamping or other complex free form surfaces.

- Digital camera technology
- 30 000 points per second
- For use on manual or CNC 3D CMM
- For use on all 6 and 7 axis portable measuring arms
- Compatible with Renishaw PH 10 et MIH
- Integrated contact probe
- Adjustable video and laser parameters
- Optimal scanning distance indicator
- Light and portable system

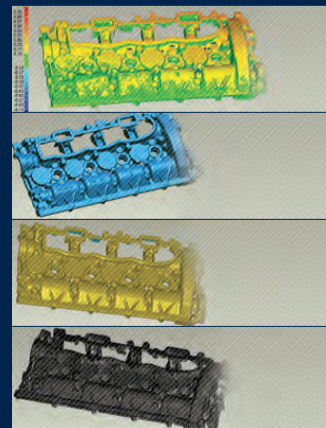
Applications

The Zephyr scanners' characteristics are suitable for reverse engineering and quality control needs in workshop, engineering and design department or metrology room.

Zephyr scanners give access to functionalities as varied as surface reconstruction, scan-to-CAD comparison, color coded visualization of deviations., etc. Operators can make critical go/no-go decisions, considerably improving product quality.

Reverse engineering and quality inspection of

- Molds and dies
- Sheet metal production
- Castings and foundry parts
- Plastic injection parts
- Gap and flush
- Turbine blades
- Crash tests



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