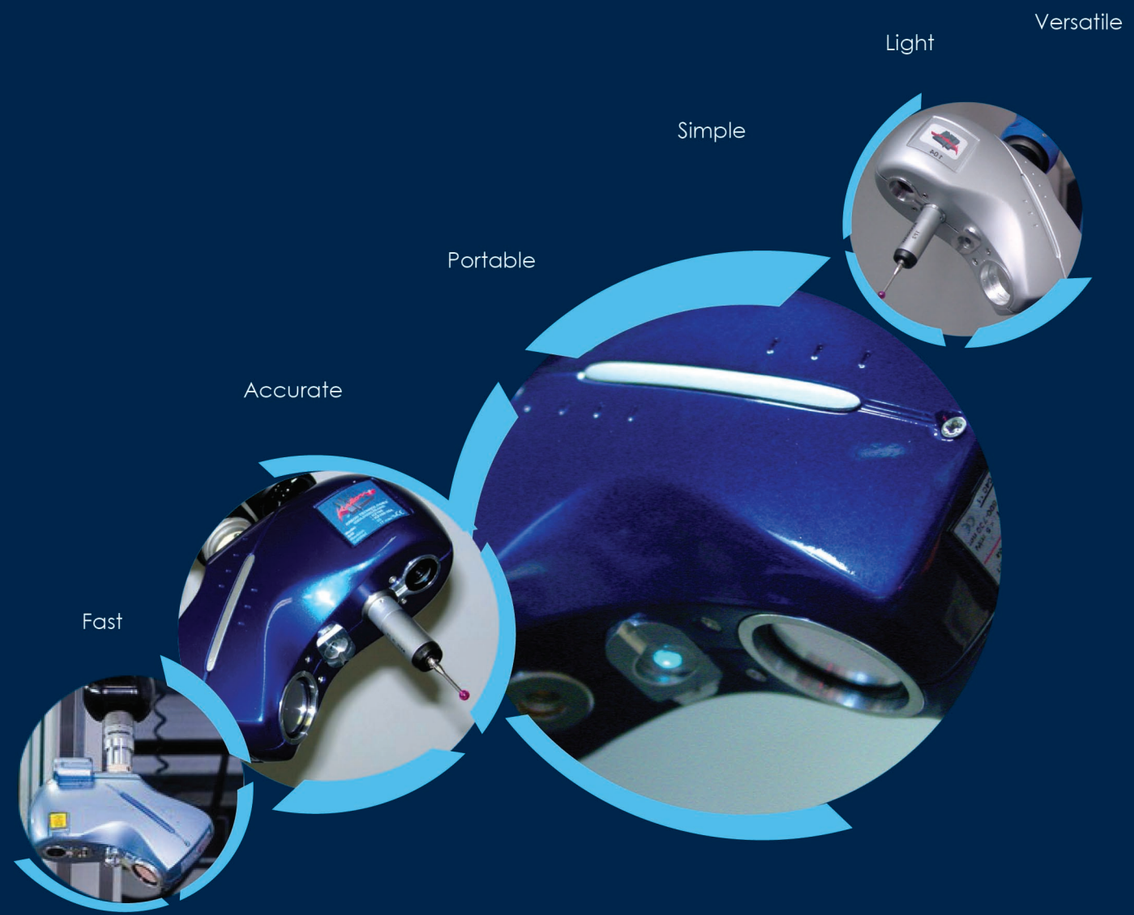


ZEPHYR

The range of versatile 3D laser scanners by Kreon

Technical specifications:

	KZ 25	KZ 50	KZ 100
H (mm)	90	100	80
P (mm)	50	107	107
L (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		

Kreon

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.

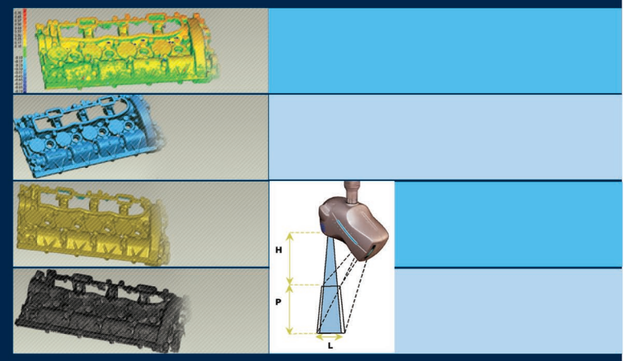
Digital camera technology
30 000 points per second
For use on manual or CNC 3D CMM
For use on all 6 and 7 axis portable measuring arms
Compatible with Renishaw PH 10 et MIH
Integrated contact probe
Adjustable video and laser parameters
Optimal scanning distance indicator
Light and portable system

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



Kreon Technologies

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